ATTACHMENT 7

MU1 Water Quality Results

Table 1. OZ Water Quality Results

Station Name	Reporting Units	MU1-OZ1				MU1-OZ2				MU1-OZ3				MU1-OZ4				MU1-OZ6				MU1-OZ7			
Sample Date		**4/22/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/29/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/21/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/22/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/20/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/28/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**
Field Parameters																									
Depth to Water	ft	94	99.22	97.55	96	114.98	71.72	110.5	117.82	102	106.76	107.17	103.59	107	95.04	94.48	94.14	91	96.51	94.55	93.28	101.9	105.21	105.96	104.18
Field conductivity	µmhos/cm	2,680	2,083	2,031	1,945	1,924	1,786	1,821	1,764	3,480	3,145	2,636	2,470	2,390	1,807	1,849	1,742	3,730	3,331	2,995	2,475	2,356	2,943	2,166	2,521
Field pH	s.u.	8.71	8.48	8.42	8.53	8.41	8.45	8.43	8.52	8.79	8.91	8.43	8.48	8.73	8.47	8.53	8.62	9.06	8.96	9	8.75	8.3	8.39	8.31	8.22
Field turbidity	NTUs	1.41	1.15	0.44	0.71	1.09	0.19	1.14	0.96	1.97	3.38	1.37	3.46	2.34	5.99	4.41	10.7	0.56	2.46	1	0.89	3.6	3	0.94	1.53
Temperature	Deg C	11.7	12.6	11.7	12.2	12.4	11.5	11.6	12.1	12.4	11.6	12	11.7	11.9	11.3	11.4	11.4	11.9	11.5	11.6	11.7	11.6	11.3	11.1	11.6
Dissolved oxygen	mg/l	2.51	3.89	1.51	3.09	2.47	3	2.08	2.21	2.9	0.59	4.35	4.7	1.69	0.2	0.08	0.74	1.47	0.34	0.1	0.64	1.48	0.17	1.46	0.5
ORP	millivolts	-148	-277	75	-115	-5.32	111	174	186	-192	-104.2	-176	37	143	-219.2	-213.5	-192.8	-53	-215.6	-207	-107	-109.4	-129.5	-159.6	-142.1
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	533	535	564	551	546	536	543	551	461	477	501	498	527	540	539	561	413	421	436	447	516	642	512	528
Ammonia as N	mg/l	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.8	0.7	0.6	0.6	0.4	0.5	0.5	0.4	0.5	0.6	0.5	0.5	0.8	0.6	0.6	0.6
Calcium	mg/l	7	7	7	7	6	7	6	7	8	9	10	11	7	7	7	8	6	6	6	6	10	11	10	12
Magnesium	mg/l	3	3	3	3	2	2	2	3	3	5	4	4	3	3	3	3	3	3	3	3	4	4	4	4
Potassium	mg/l	8	7	6	5	6	5	5	6	9	8	9	8	6	6	6	6	13	12	12	11	8	7	7	7
Sodium	mg/l	607	621	620	624	540	548	560	565	805	768	750	788	544	567	545	566	844	824	829	867	694	697	676	701
Bicarbonate	mg/l	586	583	622	606	594	599	606	621	492	526	561	558	572	582	592	586	397	412	449	459	573	677	580	590
Carbonate	mg/l	32	34	32	33	36	27	28	25	34	28	25	24	35	38	33	48	52	50	40	42	28	52	22	27
Chloride	mg/l	7	7	6	6	5	6	6	5	13	12	11	12	5	5	6	5	15	15	13	13	12	12	10	10
Fluoride	mg/l	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.8	0.1	0.2
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	675	704	654	705	573	560	583	583	1,120	1,090	1,080	1,130	592	607	610	619	1,290	1,240	1,200	1,320	1,000	883	864	906
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	0.06	0.06	<0.05		<0.05	<0.05	<0.05		0.13	0.07	0.06		0.06	0.12	0.07		<0.05	<0.05	0.07		0.06	<0.05	<0.05	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0849	0.0838	0.0539	0.0594	0.0638	0.0613	0.0597	0.062	0.0573	0.0579	0.0545	0.0594	0.088	0.109	0.0897	0.103	0.18	0.221	0.175	0.165	0.15	0.159	0.131	0.123
Uranium, suspended	mg/l	0.0004	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0.0004	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0.0008	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	2,710	2,570	2,450	2,560	2,230	2,320	2,200	2,340	3,370	3,320	3,150	3,270	2,350	2,390	2,240	2,370	3,570	3,630	3,380	3,560	2,840	2,790	2,780	2,840
Laboratory pH	s.u.	8.7	8.8	8.7	8.7	8.8	8.7	8.7	8.7	8.8	8.8	8.7	8.7	8.8	8.8	8.8	8.8	9.0	9.1	9.0	9.0	8.7	8.9	8.6	8.6
Silica as SiO_2	mg/l				8.1				8.5				8.0				8.4				7.6				8.5
Total dissolved solids (TDS)	mg/l	1,680	1,690	1,740	1,720	1,560	1,470	1,530	1,480	2,320	2,270	2,260	2,260	1,520	1,500	1,550	1,500	2,520	2,430	2,470	2,460	2,000	1,970	1,950	1,930
TDS (calc)	mg/l	1,630	1,670	1,630	1,690	1,460	1,450	1,490	1,510	2,240	2,180	2,160	2,260	1,470	1,520	1,500	1,550	2,420	2,360	2,330	2,500	2,040	2,000	1,880	1,970
Anion sum	meq/l	24.91	25.56	25.08	25.89	23.01	22.56	23.18	23.32	32.94	32.53	32.77	33.85	23.02	23.6	23.66	24.25	35.5	34.76	34.09	36.88	31.48	31.61	28.51	29.73
Cation sum	meq/l	27.21	27.77	27.69	27.9	24.17	24.49	25.02	25.28	35.97	34.51	33.73	35.45	24.43	25.43	24.48	25.44	37.61	36.76	37	38.62	31.27	31.44	30.48	31.61
Total anion/cation balance	%	4.41	4.12	4.95	3.73	2.46	4.11	3.81	4.04	4.39	2.95	1.44	2.31	2.96	3.74	1.7	2.4	2.87	2.79	4.09	2.29	0.34	0.27	3.33	3.07
Radiological																									
Gross alpha	pCi/l	218	190	217	253	99.8	124	79.9	124	73.1	79.2	62.4	77.3	108	114	120	119	217	206	263	301	388	388	308	462
Gross beta	pCi/l	106	95.1	79.9		30	33.9	29.4		24	51.9	24.9		26.6	23.6	29.6		101	87.7	103		173	141	109	
Lead-210, dissolved	pCi/l	13.4	20.2	12		1.4	2	4		<1	<1	<1		5.7	1.3	4.4		1.8	9.5	9		15.1	8.5	<1	
Lead-210, suspended	pCi/l	7.6	4.8	<1		<1	2	1		1.7	<1	1.5		2.3	3.4	1.7		5.7	5.2	4.1		7.5	12.5	16.8	
Polonium-210, dissolved	pCi/l	11.2	7.8	44.2		<1	<1	1.1		<1	<1	<1		4	<1	1.7		<1	7.7	11.9		8.4	10.4	<1	
Polonium-210, suspended	pCi/l	62.3	28.9	16.5		<1	<1	<1		<1	1.1	1.2		<1	3	1.8		3.4	13.6	4.5		8.3	4.1	11.1	
Radium-226, dissolved	pCi/l	48.6	45.3	48.7	47.1	12.4	10.5	10.7	13	3.3	3.2	4	3.8	2	2	2.6	1.8	50.4	40.7	43.5	47.4	79.6	88.4	91.1	96.1
Radium-226, suspended	pCi/l	1.5	0.3	<0.2		<0.2	<0.2	<0.2		0.2	<0.2	<0.2		0.2	<0.2	<0.2		0.4	0.6	0.7		4.1	0.4	1	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<1	<1	1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	75,700	84,900	92,300		14,600	12,700	13,900		5,490	6,040	4,540		19,800	22,200	20,600		68,100	86,200	99,700		119,000	117,000	106,000	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 1. OZ Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-OZ8				MU1-OZ9				MU1-OZ10				MU1-OZ11				MU1-OZ12				MU1-OZ13			
Sample Date		**4/22/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/24/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/23/2015**	**5/14/2015**	**5/28/2015**	**6/15/2015**	**4/29/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/29/2015**	**5/14/2015**	**5/29/2015**	**6/11/2015**	**4/29/2015**	**5/14/2015**	**6/1/2015**	**6/15/2015**
Field Parameters																									
Depth to Water	ft	109	112.71	114.96	112.4	93	95.75	94.44	90.4	91	96.73	96.29	92.4	109.07	89.97	86.34	85.62	87.97	88.79	92.71	91	79.91	85.86	80.02	80.68
Field conductivity	µmhos/cm	2,260	2,085	2,096	1,775	2,410	1,787	1,821	1,626	2,800	2,553	2,171	2,045	2,640	2,139	2,195	2,060	2,700	2,496	2,101	1,978	3,220	3,142	2,925	2,487
Field pH	s.u.	8.73	8.51	8.61	8.61	9.12	8.86	8.89	8.97	8.82	8.86	8.63	8.48	8.5	8.51	8.46	8.54	8.3	8.47	8.34	8.22	9.1	9.24	8.53	8.58
Field turbidity	NTUs	2.63	20.3	9.56	0.79	1.46	11	3.79	78.6	1.69	0.79	1.81	0.45	3.37	0.27	0.74	1.89	0.86	0.41	1.19	0.86	1.21	1.01	6.58	8.45
Temperature	Deg C	11.9	11.3	11.4	11.4	12.1	11.3	11.1	11.8	12.6	11.69	11.6	12.3	13.2	12.1	12	12.2	12.7	11.79	11.4	12	12.5	11.59	15	11.8
Dissolved oxygen	mg/l	1.79	0.37	0.37	0.06	1.82	0.33	0.15	0.21	2.62	0.78	0.25	3.1	1.29	7.52	6.65	5.83	0.12	0.52	0.37	7.32	0.09	0.77	2.1	2.85
ORP	millivolts	143	-208.5	-206.5	-201.9	81	-222.4	-232.6	-172.6	116	-217.8	-162.5	50	-160	61	123	157	-153	-190.7	-195.1	15.1	-186	-32.4	129	185
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	549	552	557	562	545	554	576	559	528	527	536	534	542	566	536	537	541	513	515	521	504	494	520	504
Ammonia as N	mg/l	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.7	0.4	0.4	0.6	0.7	0.5	0.5	0.5	0.4	0.5	0.5	0.6
Calcium	mg/l	5	5	5	5	5	4	4	5	5	6	5	7	9	9	9	10	8	9	9	9	6	6	8	10
Magnesium	mg/l	2	2	2	2	1	1	2	2	2	2	2	3	3	3	3	3	3	3	3	3	1	2	3	4
Potassium	mg/l	5	5	5	5	11	11	11	10	9	9	8	7	6	6	6	6	8	7	6	6	16	16	12	10
Sodium	mg/l	517	535	520	557	515	556	567	565	598	634	652	636	645	659	667	664	652	665	663	685	813	781	789	793
Bicarbonate	mg/l	598	603	614	610	539	547	597	569	573	568	581	593	558	626	583	598	572	563	584	578	471	479	561	556
Carbonate	mg/l	35	35	33	37	62	63	52	56	35	37	36	29	51	32	35	28	43	31	22	28	71	61	36	29
Chloride	mg/l	5	5	5	5	5	5	5	5	8	8	9	8	9	10	9	9	11	10	10	10	12	12	12	11
Fluoride	mg/l	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.8	0.2	0.2	0.2	0.2	0.2
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	517	531	531	543	564	575	550	587	725	740	759	734	795	773	793	803	817	808	805	864	1,090	1,080	1,150	1,080
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	0.09	<0.05	0.06		<0.05	0.16	<0.05		<0.05	<0.05	<0.05		0.08	<0.05	<0.05		<0.05	<0.05	0.07		<0.05	<0.05	0.29	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				0.03				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.157	0.163	0.14	0.14	0.0812	0.0797	0.0848	0.078	0.0301	0.0303	0.0296	0.027	0.0756	0.0753	0.0702	0.0674	0.0012	0.0016	0.0017	0.0015	0.0632	0.0747	0.0536	0.0472
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	0.03	0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	2,190	2,160	2,120	2,160	2,220	2,380	2,210	2,350	2,620	2,640	2,610	2,590	2,790	2,810	2,660	2,790	2,820	2,740	2,680	2,830	3,360	3,290	3,200	3,220
Laboratory pH	s.u.	8.8	8.8	8.7	8.8	9.1	9.1	9.0	9.0	8.8	8.8	8.8	8.7	9.0	8.8	8.8	8.7	8.9	8.6	8.6	8.7	9.2	9.1	8.8	8.7
Silica as SiO_2	mg/l				7.8				8.9				8.3				9.3				8.3				8.7
Total dissolved solids (TDS)	mg/l	1,440	1,440	1,440	1,450	1,730	1,460	1,520	1,490	1,600	1,840	1,830	1,790	1,880	1,820	1,860	1,820	1,920	1,930	1,870	1,900	2,320	2,320	2,330	2,280
TDS (calc)	mg/l	1,380	1,410	1,400	1,460	1,430	1,480	1,480	1,520	1,660	1,710	1,760	1,720	1,790	1,800	1,810	1,830	1,820	1,810	1,810	1,900	2,240	2,200	2,290	2,220
Anion sum	meq/l	21.9	22.24	22.35	22.68	22.8	23.19	23.12	23.56	25.92	26.18	26.8	26.22	27.65	27.72	27.51	27.7	28.14	27.39	27.39	28.7	33.16	32.76	34.67	32.85
Cation sum	meq/l	23.07	23.87	23.19	24.81	23.04	24.8	25.29	25.26	26.67	28.3	29.05	28.42	28.96	29.5	29.88	29.81	29.28	29.86	29.71	30.69	36.19	34.88	35.31	35.58
Total anion/cation balance	%	2.6	3.53	1.83	4.48	0.52	3.36	4.47	3.47	1.44	3.88	4.01	4.02	2.32	3.11	4.14	3.66	1.98	4.31	4.07	3.35	4.36	3.13	0.9	3.99
Radiological																									
Gross alpha	pCi/l	198	182	179	201	177	145	174	174	35.6	45.9	32.5	44.7	99.3	112	110	120	5.5	2.6	8.2	5.2	117	135	142	158
Gross beta	pCi/l	60	50.9	50.6		63.1	61.7	75.7		64.4	41	17.8		21	34.1	34.8		5.4	<3	11.5		51	52.6	77.7	
Lead-210, dissolved	pCi/l	10.1	6.6	<1		12.3	9.4	11.8		<1	<1	1.5		1.1	3	1.8		<1	<1	<1		6.1	5.2	6.8	
Lead-210, suspended	pCi/l	2.7	6.3	7.3		<1	10.1	5.1		<1	1.7	<1		5.2	1.1	3.2		3.7	1.3	<1		6.6	7.5	2.9	
Polonium-210, dissolved	pCi/l	20.2	3.5	<1		57.4	16	13.3		<1	<1	<1		1.9	9.2	19.7		<1	<1	<1		1.3	<1	3.6	
Polonium-210, suspended	pCi/l	11.4	26.1	23.5		1.9	23.3	15.9		<1	<1	<1		8.8	5.3	5		<1	<1	<1		2.6	2.8	1.1	
Radium-226, dissolved	pCi/l	12	11.9	12.8	15.9	26.3	20.4	27.5	27	1.2	1	1.7	1.4	<0.2	7.3	6.9	8	<0.2	0.4	4.2	1.5	<0.2	26	37.2	44.9
Radium-226, suspended	pCi/l	0.6	<0.2	0.3		<0.2	0.3	0.3		<0.2	<0.2	<0.2		0.3	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	0.3	<0.2	
Radium-228, dissolved	pCi/l	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	43,800	45,900	49,800		87,700	95,200	85,400		3,540	3,350	3,960		15,600	16,700	16,300		2,740	2,460	2,710		52,600	51,300	37,000	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 1. OZ Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-OZ14				MU1-OZ15				MU1-OZ16				MU1-OZ17				MU1-OZ18				MU1-OZ19			
Sample Date		**4/20/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/21/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/21/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/24/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/23/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/22/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**
Field Parameters																									
Depth to Water	ft	111	114.89	116.1	114.5	120	125.2	129.48	123.51	120	124.19	137.65	120.42	111	116.51	116.41	116.91	91	94.3	94.81	93.08	89	91.46	95.43	91.85
Field conductivity	µmhos/cm	2,370	1,833	2,131	1,928	2,780	2,469	2,006	2,581	2,600	1,889	1,944	1,858	2,520	2,455	2,174	2,091	2,620	2,357	1,818	1,728	2,790	2,099	2,200	2,345
Field pH	s.u.	8.82	8.66	8.75	8.53	8.65	8.78	8.6	8.6	9.26	9.2	8.6	8.66	8.64	8.51	8.64	8.48	8.73	8.64	8.7	8.47	9.28	9.31	8.82	8.79
Field turbidity	NTUs	10.15	3.31	11.5	19.2	0.84	0.4	0.61	2.93	1.53	0.36	1.87	0.46	1.49	0.66	0.66	2.65	0.46	0.77	1.44	0.61	1.19	7.87	3.02	1.51
Temperature	Deg C	11.2	12	11.1	11.1	12.1	11.7	11.4	11.3	12.1	11.4	11.5	11.7	11.5	11.1	11.1	11.6	11.5	11.1	11.2	11.3	14.4	11.85	12.9	17.5
Dissolved oxygen	mg/l	2.22	2.45	2.13	0.08	1.65	0.16	0.26	0.14	1.7	0.61	5.45	4.47	2.21	0.19	0.12	0.63	1.9	0.43	0.53	0.07	4.8	4.28	5.15	5.82
ORP	millivolts	-112	202	39.5	-210.9	148	-46	-191.6	-178	-202	-158.5	152	164	88	-201	-212.9	-190.7	164	-205.4	-156.3	-195.9	-104	-125.4	92	95
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	582	603	538	566	515	518	562	528	494	485	523	534	566	571	578	574	562	568	577	579	568	606	541	540
Ammonia as N	mg/l	0.6	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.7	0.6	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4
Calcium	mg/l	5	6	5	6	8	7	8	7	5	4	5	6	6	6	6	6	6	6	6	6	6	6	5	6
Magnesium	mg/l	2	2	2	2	3	3	3	3	1	1	2	2	2	2	2	2	2	3	3	3	<1	1	2	2
Potassium	mg/l	8	6	6	6	7	7	7	7	9	7	7	6	6	6	6	6	9	10	9	8	29	20	15	13
Sodium	mg/l	571	550	533	544	625	635	643	640	559	545	590	609	541	583	548	574	555	592	571	606	626	685	605	646
Bicarbonate	mg/l	629	430	583	602	553	543	620	565	455	425	565	583	621	610	641	626	613	621	635	618	520	610	560	552
Carbonate	mg/l	40	150	36	43	37	44	32	39	73	82	36	34	34	43	32	37	35	35	34	43	85	64	49	52
Chloride	mg/l	5	5	5	5	7	7	6	8	7	6	6	6	5	6	6	5	6	6	5	5	10	10	11	11
Fluoride	mg/l	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	562	544	558	581	742	750	716	755	648	661	633	661	607	626	625	638	650	640	643	654	728	769	739	795
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	0.21	0.36	0.25		<0.05	<0.05	<0.05		<0.05	<0.05	<0.05		<0.05	<0.05	0.05		<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0832	0.0657	0.0646	0.0728	0.154	0.164	0.144	0.138	0.142	0.136	0.124	0.12	0.199	0.22	0.194	0.18	0.152	0.15	0.142	0.137	0.0049	0.0026	0.0021	0.002
Uranium, suspended	mg/l	0.0008	0.0005	0.0011		<0.0003	<0.0003	<0.0003		0.0005	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	2,250	2,120	2,170	2,190	2,690	2,740	2,590	2,680	2,460	2,240	2,370	2,520	2,340	2,350	2,320	2,350	2,420	2,500	2,380	2,520	2,840	2,650	2,610	2,580
Laboratory pH	s.u.	8.9	9.7	8.8	8.8	8.8	8.9	8.8	8.8	9.3	9.2	8.8	8.8	8.8	8.8	8.7	8.7	8.8	8.8	8.7	8.8	9.3	9.1	8.9	8.9
Silica as SiO_2	mg/l				8.6				8.5				8.8				8.1				7.7				8.3
Total dissolved solids (TDS)	mg/l	1,480	1,500	1,490	1,480	1,640	1,720	1,840	1,780	1,620	1,460	1,660	1,590	1,770	1,580	1,570	1,560	1,940	1,630	1,640	1,660	1,760	1,850	1,780	1,760
TDS (calc)	mg/l	1,500	1,480	1,430	1,490	1,700	1,720	1,720	1,740	1,530	1,520	1,560	1,620	1,510	1,570	1,540	1,580	1,570	1,600	1,580	1,640	1,740	1,860	1,700	1,800
Anion sum	meq/l	23.50	23.55	22.53	23.56	25.95	26.17	26.33	26.5	23.57	23.65	23.81	24.69	24.11	24.61	24.8	24.91	24.96	24.85	25.09	25.36	26.8	28.42	26.52	27.64
Cation sum	meq/l	25.51	24.58	23.81	24.33	28.03	28.4	28.8	28.62	24.95	24.21	26.22	27.13	24.19	26.04	24.48	25.61	24.87	26.53	25.6	27.12	28.27	30.77	27.12	28.9
Total anion/cation balance	%	4.1	2.13	2.75	1.59	3.85	4.08	4.47	3.85	2.84	1.15	4.81	4.69	0.15	2.83	0.64	1.38	0.17	3.26	1.01	3.35	2.66	3.97	1.12	2.22
Radiological																									
Gross alpha	pCi/l	99.5	84.2	84.9	91.7	692	717	617	643	214	171	172	196	439	420	424	453	141	200	160	192	12.3	3.7	3.6	5.9
Gross beta	pCi/l	40.6	16.3	25.4		302	385	243		81.7	36.7	48.8		120	157	152		39.6	44.1	38.1		29.6	15.2	9.4	
Lead-210, dissolved	pCi/l	1.4	1.9	<1		40.3	35.5	27		9	7.7	5.2		16.5	18.3	1.3		2.5	1.1	1.5		<1	1.1	<1	
Lead-210, suspended	pCi/l	2.5	3.6	2.6		4.5	11.4	4.3		1.9	2.2	1.1		2.6	4.4	13.5		1.9	1.4	1.8		<1	<1	1.2	
Polonium-210, dissolved	pCi/l	<1	<1	<1		30.1	14.2	29.8		5.7	3.4	6.7		28.9	37.2	15.5		<1	<1	<1		<1	<1	<1	
Polonium-210, suspended	pCi/l	<1	<1	1.2		3.2	21.6	8.4		5.1	5.8	<1		2	5.8	18.5		<1	<1	<1		<1	1.2	1.4	
Radium-226, dissolved	pCi/l	5.4	4.1	4.8	6.3	260	194	215	241	20.3	6.4	18.3	24.1	61.3	60.3	63.4	76.6	4.6	4	3.1	4.8	0.8	0.4	0.6	0.5
Radium-226, suspended	pCi/l	0.4	0.8	0.6		<0.2	0.4	0.5		<0.2	<0.2	<0.2		<0.2	0.2	1.1		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.6	<1	<1	1.8	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	0.4	0.4		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	13,200	12,300	12,300		198,000	203,000	219,000		50,000	33,000	26,700		109,000	113,000	114,000		11,800	8,310	10,600		3,230	3,070	2,480	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 1. OZ Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-OZ20				MU1-OZ21				MU1-OZ22				MU1-OZ23				MU1-OZ24				MU1-OZ25			
Sample Date		**4/29/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/23/2015**	**5/18/2015**	**6/1/2015**	**6/15/2015**	**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/23/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/23/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**
Field Parameters																									
Depth to Water	ft	110.86	111.9	108.78	108.6	110.7	115.56	113.01	114.11	86	85.76	80.68	84.45	79.19	72.71	77.98	79.52	91	95.99	92.35	96.71	108	114.19	114.55	116.06
Field conductivity	µmhos/cm	2,510	1,895	2,115	1,865	2,134	2,394	2,090	2,071	2,140	1,722	1,704	1,572	2,003	1,910	1,865	1,781	2,740	2,471	1,974	2,280	2,830	2,518	2,244	1,905
Field pH	s.u.	8.62	8.59	8.47	8.57	8.6	8.79	8.64	8.49	8.65	8.43	8.37	8.52	8.5	8.47	8.37	8.51	8.62	8.63	8.45	8.53	8.7	8.64	8.6	8.42
Field turbidity	NTUs	0.41	0.3	0.19	0.96	1.7	9.09	0.68	0.93	0.69	3.31	10.83	0.51	2.98	2.44	0.19	0.95	0.21	0.95	2.66	1	0.31	5.11	1.26	22.1
Temperature	Deg C	12.7	12.3	11.5	12.5	11.9	12	12	11.4	11.5	14	14.1	12.5	11.9	11.6	12.4	12.8	12.6	11.6	11.3	11.6	12.1	11.9	11.9	12
Dissolved oxygen	mg/l	1.7	2.53	1.92	3.28	1.24	0.14	0.09	2.69	2.21	4	4.23	5.8	0.11	2.8	1.79	7.09	1.39	0.31	0.16	0.63	2.17	1.71	2.2	2.88
ORP	millivolts	125	167	-86.8	159	-41.5	-195.4	-185.4	-44.4	171	175	135	111	-206.5	218	139	127	156	-97.3	-125	-137.6	142	-43.9	-136.5	-20.3
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	562	543	541	547	538	574	569	544	552	550	566	573	562	563	556	560	560	536	693	549	530	541	558	542
Ammonia as N	mg/l	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.3	0.3	0.6	0.6	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5
Calcium	mg/l	7	6	7	7	8	6	8	8	5	5	5	5	9	8	8	8	7	8	8	8	8	8	8	8
Magnesium	mg/l	3	3	3	3	3	3	3	3	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
Potassium	mg/l	8	7	7	7	10	11	8	7	7	7	7	7	10	8	6	5	7	7	7	6	10	9	8	8
Sodium	mg/l	562	587	560	587	607	613	621	642	458	495	486	493	569	580	559	559	573	635	638	650	602	660	657	661
Bicarbonate	mg/l	576	598	599	605	568	590	630	594	602	605	633	635	587	610	610	620	622	598	756	608	582	582	623	593
Carbonate	mg/l	54	32	30	31	44	54	31	34	35	32	28	32	49	37	33	31	30	28	44	31	32	39	28	33
Chloride	mg/l	5	6	7	5	6	7	6	6	4	5	4	4	6	6	6	6	7	7	6	7	8	8	9	8
Fluoride	mg/l	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.3	0.4	0.2	0.4
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	615	619	643	642	717	773	661	726	439	437	450	450	617	619	568	584	706	726	717	758	750	774	765	807
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05		<0.05	0.08	0.05		<0.05	0.11	<0.05		<0.05	<0.05	<0.05		<0.05	<0.05	<0.05	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0291	0.0294	0.0291	0.0282	0.0625	0.0692	0.06	0.0609	0.0794	0.0692	0.0821	0.0731	0.001	0.0017	0.0016	0.0015	0.0384	0.0364	0.0363	0.0366	0.0433	0.0389	0.04	0.0413
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	2,440	2,440	2,310	2,470	2,510	2,520	2,450	2,570	1,990	2,030	1,970	2,010	2,370	2,460	2,240	2,330	2,530	2,630	2,530	2,650	2,640	2,800	2,580	2,610
Laboratory pH	s.u.	9.0	8.7	8.7	8.7	8.9	8.9	8.7	8.8	8.8	8.7	8.7	8.8	8.9	8.8	8.7	8.7	8.7	8.7	8.8	8.7	8.7	8.8	8.7	8.7
Silica as SiO_2	mg/l				8.6				8.1				8.3				8.4				8.4				8.3
Total dissolved solids (TDS)	mg/l	1,630	1,540	1,610	1,560	1,770	1,640	1,720	1,720	1,480	1,350	1,350	1,340	1,660	1,560	1,540	1,540	2,060	1,720	1,800	1,750	1,580	1,770	1,840	1,780
TDS (calc)	mg/l	1,540	1,550	1,550	1,590	1,670	1,760	1,650	1,730	1,250	1,280	1,300	1,310	1,550	1,560	1,480	1,510	1,640	1,710	1,790	1,770	1,700	1,790	1,780	1,830
Anion sum	meq/l	24.19	23.94	24.41	24.46	25.88	27.77	25.3	26.18	20.32	20.25	20.83	20.97	24.24	24.33	23.11	23.55	26.12	26.05	28.98	26.98	26.46	27.19	27.33	27.87
Cation sum	meq/l	25.24	26.29	25.09	26.33	27.33	27.54	27.9	28.79	20.55	22.15	21.79	22.09	25.75	26.14	25.16	25.12	25.72	28.45	28.6	29.12	27.09	29.59	29.47	29.66
Total anion/cation balance	%	2.11	4.67	1.37	3.68	2.72	0.41	4.88	4.73	0.56	4.49	2.25	2.59	3.02	3.57	4.26	3.22	0.75	4.4	0.65	3.81	1.17	4.22	3.77	3.11
Radiological																									
Gross alpha	pCi/l	40.2	38	38.5	41.7	171	103	199	193	205	159	219	247	4.7	<2	3.9	2.8	86.3	123	105	118	46.4	59.7	53	51.3
Gross beta	pCi/l	16.9	14.5	17.5		63.4	46.9	79.7		90.6	93.5	118		6.5	5.4	5.3		40.2	44	30.2		13.3	19.8	20.8	
Lead-210, dissolved	pCi/l	3.9	1.9	3.2		16.9	15	19.4		15	20.6	20.8		<1	<1	1		4.3	3.5	6.3		1.2	<1	1.1	
Lead-210, suspended	pCi/l	2.4	3	1.1		13.8	24.2	3.8		<1	4.5	7.7		1.2	<1	<1		2.3	7.3	2.1		1.1	<1	<1	
Polonium-210, dissolved	pCi/l	<1	1.5	6.1		18.4	33	54.3		22.5	11.8	12.3		<1	<1	<1		12.1	10.2	7.9		<1	<1	<1	
Polonium-210, suspended	pCi/l	2.7	1.8	<1		27.4	19.9	8.3		1.9	3.9	1.7		<1	<1	<1		<1	9.4	6.5		<1	<1	<1	
Radium-226, dissolved	pCi/l	<0.2	1.6	1.8	2.2	30.5	23.6	27.2	35	48.9	48	45.8	59.2	1.3	0.3	0.3	0.4	22.5	24.1	22.1	25.9	2.7	4.6	2.1	2.9
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		0.2	0.2	<0.2		0.2	0.5	0.5		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	0.4		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	19,500	14,400	16,000		191,000	157,000	183,000		128,000	92,600	102,000		1,480	1,200	1,380		35,600	41,700	47,900		4,510	6,000	4,550	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 1. OZ Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-OZ26				No. Outliers	N	Mean	Median	Min	Max
Sample Date		4/20/2015	5/13/2015	5/27/2015	6/10/2015						
Field Parameters											
Depth to Water	ft	90	94.97	91.52	97.75	0	100	100.63	96.61	71.72	137.65
Field conductivity	µmhos/cm	2,470	2,355	1,923	1,860	0	100	2,265	2,153	1,572	3,730
Field pH	s.u.	8.64	8.33	8.42	8.44	0	100	8.63	8.60	8.22	9.31
Field turbidity	NTUs	0.8	1.9	0.68	1.37	0	100	3.64	1.32	0.19	78.60
Temperature	Deg C	11.1	11.3	11.7	12.2	0	100	11.9	11.7	11.1	17.5
Dissolved oxygen	mg/l	1.92	0.45	3.68	5.23	0	100	2.01	1.70	0.06	7.52
ORP	millivolts	-35	-164.1	214	163	0	100	-42	-101	-277	218
Inorganics											
Alkalinity (as $CaCO_3$)	mg/l	545	546	538	561	2	98	538.7	543	413	606
Ammonia as N	mg/l	0.5	0.5	0.4	0.4	0	100	0.5	0.4	0.3	0.8
Calcium	mg/l	6	6	7	7	0	100	6.9	7	4	12
Magnesium	mg/l	3	3	3	3	0	100	2.5	3	<1	4
Potassium	mg/l	8	7	6	6	2	98	7.8	7	5	16
Sodium	mg/l	583	580	588	588	0	100	620.5	606	458	867
Bicarbonate	mg/l	610	598	605	628	2	98	579.6	591	397	677
Carbonate	mg/l	27	34	25	28	1	99	38.5	35	22	85
Chloride	mg/l	6	7	6	5	0	100	7.5	6	4	15
Fluoride	mg/l	0.3	0.3	0.3	0.3	2	98	0.3	0.3	0.1	0.4
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	0	100	<0.1	<0.1	<0.1	1.0
Sulfate	mg/l	697	610	629	633	0	100	728.6	686	437	1,320
Metals											
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	0	100	<0.1	<0.1	<0.1	0.2
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	0	100	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	0	100	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.4	0.4	0.3	0.4	0	100	0.4	0.4	0.3	0.5
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	0	100	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	100	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	100	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	0	100	<0.05	<0.05	<0.05	0.06
Iron, total	mg/l	<0.05	<0.05	<0.05		0	75	0.05	<0.05	<0.05	0.36
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	0	100	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02	0	25	<0.02	<0.02	<0.02	<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		0	75	<0.02	<0.02	<0.02	<0.02
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	0	100	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	0	100	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	100	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	0	100	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		0	75	<0.003	<0.003	<0.003	<0.003
Uranium, dissolved	mg/l	0.0553	0.0497	0.048	0.0441	0	100	0.0801	0.0666	0.0010	0.2210
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		0	75	<0.0003	<0.0003	<0.0003	0.0011
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	0	100	<0.02	<0.02	<0.02	0.03
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	100	<0.01	<0.01	<0.01	0.01
Other											
Laboratory conductivity	µmhos/cm	2,400	2,470	2,280	2,430	0	100	2,572	2,520	1,970	3,630
Laboratory pH	s.u.	8.7	8.8	8.7	8.7	1	99	8.8	8.8	8.6	9.3
Silica as SiO_2	mg/l				8.6	0	25	8.4	8.4	7.6	9.3
Total dissolved solids (TDS)	mg/l	1,610	1,550	1,590	1,550	0	100	1,744	1,685	1,340	2,520
TDS (calc)	mg/l	1,630	1,540	1,560	1,590	0	100	1,702	1,640	1,250	2,500
Anion sum	meq/l	25.6	23.82	24.02	24.56	0	100	26.22	25.46	20.25	36.88
Cation sum	meq/l	26.14	25.93	26.33	26.38	0	100	27.79	27.12	20.55	38.62
Total anion/cation balance	%	1.03	4.23	4.58	3.57	0	100	2.96	3.24	0.15	4.95
Radiological											
Gross alpha	pCi/l	87.5	69.1	98.4	114	0	100	170.0	118	<2	717
Gross beta	pCi/l	49.8	30.4	33.1		0	75	67.2	40.2	5	385
Lead-210, dissolved	pCi/l	4.4	7.4	3.9		0	75	8.2	3.9	<1	40.3
Lead-210, suspended	pCi/l	<1	2.7	<1		0	75	3.7	2.3	<1	24.2
Polonium-210, dissolved	pCi/l	1.6	<1	2		0	75	9.2	2.0	<1	54.3
Polonium-210, suspended	pCi/l	<1	<1	<1		0	75	4.2	1.2	<1	27.4
Radium-226, dissolved	pCi/l	15	11.5	15.6	14.8	2	98	34.1	15.0	<0.2	260
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		1	74	0.2	<0.2	<0.2	1.1
Radium-228, dissolved	pCi/l	<1	2	<1	<1	0	100	<1	<1	<1	2
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		0	75	<0.2	<0.2	<0.2	0.4
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		0	75	<0.2	<0.2	<0.2	0.4
Radon-222	pCi/l	20,600	23,900	20,700		0	75	51,211	22,200	1,200	219,000

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 2. PM Water Quality Results

Station Name	Reporting Units	MU1-PM1				MU1-PM2				MU1-PM3				MU1-PM4				MU1-PM5				MU1-PM6			
Sample Date		**4/28/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/27/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/27/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/28/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/28/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/24/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**
Field Parameters																									
Depth to Water	ft	104.71	110.9	108.6	108.49	103.89	118.8	114.4	115.21	92.74	96.9	95.05	93.9	106.85	99.85	108.45	107.8	120.61	128.28	125.53	128.04	120	124.32	127.7	127.17
Field conductivity	µmhos/cm	1,901	1,985	1,960	1,923	2,570	2,278	1,954	1,809	2,430	2,033	1,900	1,603	2,310	1,837	1,921	1,741	2,040	1,798	1,559	1,469	2,540	2,042	1,940	1,790
Field pH	s.u.	8.7	8.56	8.49	8.54	8.58	8.63	8.46	8.54	8.79	8.69	8.52	8.74	8.56	8.37	8.4	8.52	8.74	8.59	8.54	8.62	8.61	8.7	8.51	8.68
Field turbidity	NTUs	9.49	1.03	0.5	1.47	3.66	11	4.16	3.05	1.34	4.47	0.821	2.29	0.78	2.07	1.73	3.34	0	2.52	0.52	0.72	7.49	2.38	2.95	7.23
Temperature	Deg C	11.5	12.5	12.3	13.7	12.1	11.71	12	11.4	11.4	11.4	11.9	11.3	11.1	12.1	12.7	12	11	11.5	11.8	11.6	11.4	11.5	11.4	11.8
Dissolved oxygen	mg/l	1.1	4.03	3.65	3.66	1.74	0.74	3.25	4.4	1.76	0.4	2.85	4.71	2.68	4.62	3.18	27.2	1.87	0.15	3.23	4.78	1.85	0.32	3.78	4.74
ORP	millivolts	-200.8	-84	-10	147	143	-198.3	107	105	90	-187.5	-129	-151	-205	-229	-288	-278	-258	-220.3	-265	-256	147	-212.5	60	81
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	603	574	580	631	548	549	556	561	560	637	561	646	613	634	604	647	634	624	679	702	552	602	559	645
Ammonia as N	mg/l	0.4	0.4	0.3	0.4	0.5	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.2	0.3	0.5	0.4	0.4	0.4
Calcium	mg/l	7	8	8	8	8	7	7	7	4	5	5	5	6	7	7	7	5	5	5	5	5	5	6	6
Magnesium	mg/l	3	3	3	3	3	3	3	3	2	2	3	2	2	3	3	3	2	2	2	2	2	2	3	3
Potassium	mg/l	9	7	7	7	5	5	6	5	9	8	7	9	5	5	5	5	7	5	6	5	6	6	6	5
Sodium	mg/l	564	587	590	597	592	570	583	599	555	523	582	546	542	563	570	565	479	487	486	490	548	537	582	572
Bicarbonate	mg/l	640	621	630	702	595	612	604	620	597	686	614	697	683	692	664	715	690	672	738	772	608	630	615	713
Carbonate	mg/l	48	39	38	34	36	28	36	32	43	45	35	45	32	40	36	36	41	44	45	42	32	51	33	36
Chloride	mg/l	7	7	6	6	7	6	6	5	6	5	6	5	7	6	6	6	6	4	4	4	6	6	6	7
Fluoride	mg/l	1.0	0.7	0.7	0.8	0.6	0.8	0.8	0.7	0.7	1.1	0.7	1.0	0.9	1.1	0.9	1.0	1.0	1.2	1.1	1.2	0.6	1.0	0.6	0.7
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	608	609	597	614	652	617	628	631	548	418	600	439	519	527	545	529	372	346	344	353	625	457	628	593
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.007	<0.005	0.007	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.6	0.4	0.6	0.4	0.5
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	0.19	0.05	<0.05		0.16	0.16	0.07		0.06	0.18	<0.05		<0.05	0.06	<0.05		<0.05	0.08	<0.05		0.09	<0.05	0.08	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0073	0.011	0.0198	0.0165	0.0263	0.0165	0.0226	0.0172	0.0234	0.005	0.0314	0.0091	0.0031	0.004	0.0056	0.0048	0.0028	0.0004	0.0112	0.001	0.0547	0.0216	0.0517	0.0471
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0.0004	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	2,280	2,480	2,330	2,460	2,470	2,390	2,340	2,390	2,310	2,170	2,330	2,140	2,220	2,380	2,280	2,320	1,950	2,010	1,920	1,960	2,360	2,230	2,380	2,350
Laboratory pH	s.u.	8.9	8.8	8.8	8.7	8.8	8.7	8.8	8.7	8.9	8.8	8.8	8.8	8.7	8.8	8.7	8.7	8.8	8.8	8.8	8.8	8.7	8.9	8.7	8.7
Silica as SiO_2	mg/l				8.3				8.2				7.7				8.0				7.9				8.6
Total dissolved solids (TDS)	mg/l	1,600	1,560	1,640	1,560	1,660	1,610	1,640	1,590	1,550	1,370	1,620	1,400	1,500	1,450	1,590	1,530	1,300	1,170	1,300	1,270	1,720	1,360	1,610	1,610
TDS (calc)	mg/l	1,560	1,560	1,560	1,620	1,590	1,540	1,570	1,600	1,460	1,340	1,540	1,400	1,450	1,490	1,500	1,510	1,250	1,220	1,250	1,290	1,520	1,370	1,570	1,580
Anion sum	meq/l	24.98	24.39	24.26	25.62	24.74	24.02	24.37	24.56	22.81	21.64	23.91	22.24	23.31	23.88	23.65	24.14	20.65	19.87	20.92	21.57	24.24	21.78	24.44	25.49
Cation sum	meq/l	25.38	26.35	26.52	26.83	26.52	25.54	26.1	26.79	24.77	23.36	25.98	24.38	24.23	25.15	25.52	25.28	21.43	21.74	21.72	21.86	24.44	23.94	25.99	25.57
Total anion/cation balance	%	0.8	3.87	4.46	2.29	3.47	3.07	3.41	4.34	4.11	3.82	4.14	4.6	1.92	2.59	3.8	2.29	1.85	4.48	1.87	0.66	0.42	4.73	3.07	0.15
Radiological																									
Gross alpha	pCi/l	14.6	28.8	23.6	33.8	38.2	21	25.3	25.8	36.1	12.9	8.5	15.5	6	6.4	7.4	12	3.5	<2	17.8	3.1	59.4	20.2	52.2	50.8
Gross beta	pCi/l	9.8	11.4	7.9		13	<3	7.4		12	7.8	7.9		5.7	12	8.4		8.2	3.5	6.1		15.9	9.7	15.9	
Lead-210, dissolved	pCi/l	1.1	<1	1.1		<1	<1	1.5		<1	<1	<1		<1	<1	1		<1	<1	<1		<1	<1	1.7	
Lead-210, suspended	pCi/l	<1	1.5	1.6		<1	<1	<1		<1	<1	<1		1.8	<1	<1		3.2	<1	1.2		2.3	1.1	1	
Polonium-210, dissolved	pCi/l	1	2.3	2		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	7.6	
Polonium-210, suspended	pCi/l	<1	2.5	1.9		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Radium-226, dissolved	pCi/l	1.2	2.1	1.9	2.7	1.8	1.4	1	0.7	0.6	2.2	0.7	0.5	0.5	0.4	0.5	0.5	0.3	1	0.3	0.3	0.9	0.9	1	0.6
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	3,360	5,250	4,960		2,630	2,060	1,910		1,770	1,630	2,050		1,980	1,180	1,380		973	742	1,740		2,680	484	1,680	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 2. PM Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-PM7				MU1-PM8				MU1-PM9				MU1-PM10				MU1-PM11				MU1-PM12			
Sample Date		**4/23/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/27/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/24/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/27/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/28/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/28/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**
Field Parameters																									
Depth to Water	ft	100	189.6	104.6	102.3	98.29	100.59	97.93	97.85	81	86.9	81.33	80.87	97.13	76.78	71.96	71.42	95.31	68.1	68.99	67.77	37.65	36.8	39.1	35.2
Field conductivity	µmhos/cm	2,180	1,984	1,678	1,637	2,590	2,026	2,005	1,901	2,570	2,602	2,088	1,910	2,740	1,702	2,272	2,047	2,340	1,581	1,593	1,757	1,564	1,501	1,800	1,362
Field pH	s.u.	8.84	8.53	8.57	8.65	8.67	8.51	8.48	8.52	8.82	8.8	8.5	8.53	8.66	8.73	8.62	8.61	8.79	8.8	8.53	8.37	8.4	8.23	8.3	8.39
Field turbidity	NTUs	1.45	0.98	2.62	0.31	0.28	0.64	0.31	1.89	7.5	2.5	1.81	2.27	2.78	8.22	2.29	0.9	2.05	3.42	2.3	2.06	8.35	10.9	2.82	3.74
Temperature	Deg C	11.6	11.4	11.9	12	11.4	11.18	12.3	12.2	11.3	11.2	11.4	11.5	10.9	11.1	11.3	11.3	11.3	10.58	10.6	10.6	10.7	10.6	10.6	10.8
Dissolved oxygen	mg/l	1.58	0.28	4.3	5.22	1.62	3.89	3.1	3.43	1.46	0.67	3.8	4.65	2.42	0.1	3.65	4.26	2.28	0.99	0.71	0.09	0.24	0.06	0.13	0.26
ORP	millivolts	34	-145.9	-107	-164	124	111	176	167	99	-179.7	-171	162	-41	-231	-213	-163	59	-206.3	-180.3	-196.6	-197.5	-192.5	-183.8	-103.6
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	659	664	649	656	601	602	597	611	623	484	561	604	617	655	544	586	579	645	702	669	640	682	653	668
Ammonia as N	mg/l	0.2	0.4	0.3	0.3	0.6	0.5	0.4	0.4	0.4	0.6	0.4	0.4	0.7	0.4	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Calcium	mg/l	5	5	5	5	6	7	6	7	4	7	6	7	7	4	7	8	5	5	5	5	6	6	6	6
Magnesium	mg/l	2	2	2	2	3	3	3	3	2	4	3	3	3	2	4	4	2	2	2	2	2	3	3	3
Potassium	mg/l	8	6	7	6	6	6	6	6	9	10	8	7	8	7	8	7	8	7	6	6	6	6	5	6
Sodium	mg/l	463	515	515	521	589	615	599	616	556	785	646	624	625	529	705	675	536	511	495	531	483	480	501	499
Bicarbonate	mg/l	705	718	697	712	644	672	661	676	665	519	619	676	662	670	595	641	609	702	773	730	709	753	734	745
Carbonate	mg/l	49	45	47	44	44	31	33	34	47	35	32	30	45	64	34	36	48	42	41	42	35	39	31	34
Chloride	mg/l	6	5	5	4	6	7	6	6	7	11	8	6	8	5	9	7	7	4	4	4	5	4	5	4
Fluoride	mg/l	0.9	1.1	0.9	0.8	0.3	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.9	0.5	0.5	0.5	0.7	0.8	0.8	0.6	0.6	0.5	0.6
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	383	369	411	446	571	654	626	636	604	1,070	739	648	719	472	882	773	580	402	383	395	376	360	352	356
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.013	0.007	0.007	0.008	0.007	0.007	0.007	0.006	0.006	0.005	0.006
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.5	0.6	0.5	0.5	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.4	0.5
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	<0.05	<0.05	<0.05		<0.05	<0.05	<0.05		0.09	<0.05	<0.05		0.1	<0.05	<0.05		0.06	0.07	0.13		0.12	0.06	0.06	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0115	0.0037	0.014	0.0327	0.0588	0.0554	0.0615	0.066	0.0473	0.0194	0.0364	0.0429	0.0375	0.006	0.0221	0.0322	0.011	0.0041	0.0023	0.0029	0.0004	0.0004	0.0003	0.0004
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	2,020	2,140	2,060	2,170	2,460	2,570	2,350	2,560	2,410	3,130	2,530	2,560	2,580	2,280	2,770	2,840	2,190	2,100	2,000	2,010	1,940	2,040	1,880	2,000
Laboratory pH	s.u.	8.9	8.8	8.8	8.8	8.8	8.7	8.7	8.7	8.9	8.8	8.7	8.7	8.8	9.0	8.8	8.7	8.9	8.8	8.7	8.7	8.7	8.8	8.6	8.7
Silica as SiO_2	mg/l				7.5				8.5				8.5				8.3				8.7				8.2
Total dissolved solids (TDS)	mg/l	1,570	1,310	1,410	1,420	1,660	1,650	1,640	1,630	1,640	2,140	1,760	1,650	1,760	1,390	1,960	1,820	1,520	1,480	1,340	1,320	1,300	1,220	1,300	1,270
TDS (calc)	mg/l	1,260	1,300	1,330	1,390	1,540	1,650	1,600	1,650	1,550	2,170	1,750	1,670	1,740	1,410	1,940	1,830	1,480	1,320	1,320	1,350	1,260	1,270	1,260	1,280
Anion sum	meq/l	21.38	21.15	21.71	22.58	24.1	25.87	25.17	25.63	25.23	32.18	26.85	25.77	27.55	23.1	29.51	28.04	23.87	21.42	22.18	21.74	20.79	21.27	20.55	20.91
Cation sum	meq/l	20.77	23.03	23.02	23.26	26.34	27.5	26.76	27.61	24.78	35.13	28.9	27.93	27.99	23.62	31.58	30.26	23.95	22.87	22.15	23.72	21.67	21.53	22.44	22.42
Total anion/cation balance	%	1.44	4.23	2.91	1.48	4.45	3.05	3.07	3.72	0.91	4.38	3.67	4.01	0.78	1.13	3.39	3.81	0.15	3.28	0.06	4.36	2.05	0.6	4.4	3.47
Radiological																									
Gross alpha	pCi/l	22.1	3.9	27.2	35.4	66.8	64.1	99.4	82.3	47.8	22.1	56.5	67.9	42.1	7	28	42.3	17.3	6.3	10.4	5	2.3	<2	<2	<2
Gross beta	pCi/l	38	3.9	11.7		24.3	13	26.6		13.8	11.7	11.8		13	8.8	11.6		9.8	6.7	5.6		7	<3	<3	
Lead-210, dissolved	pCi/l	14.1	<1	<1		1	1.1	2.2		1.1	<1	<1		<1	<1	1		<1	1.5	<1		2.3	<1	<1	
Lead-210, suspended	pCi/l	<1	1.4	<1		<1	1.7	<1		2.2	1.8	<1		<1	<1	<1		<1	1.1	1.4		<1	<1	<1	
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Radium-226, dissolved	pCi/l	0.4	0.6	0.5	1	1.3	1.3	1.7	1.3	1	1.1	1.1	1.3	1.9	0.9	1.4	1.6	0.7	0.5	2	1.7	<0.2	0.5	0.2	<0.2
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	2,160	1,190	1,710		2,570	2,910	2,600		2,350	2,060	1,990		2,120	1,860	2,200		2,550	2,900	2,970		561	679	859	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 2. PM Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-PM13				MU1-PM14A				MU1-PM15				MU1-PM16				MU1-PM17				MU1-PM18			
Sample Date		**4/29/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/28/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/28/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/28/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/28/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/28/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**
Field Parameters																									
Depth to Water	ft	168.55	67.13	67.81	68.24	78.05	77.45	78.74	79.1	74.81	73.58	74.4	75.1	78.79	77.68	78.06	78.88	65.96	65.87	67.7	66.68	69.34	73.78	80	78.04
Field conductivity	µmhos/cm	1,927	1,936	1,730	1,471	2,020	1,916	1,799	2,017	2,100	2,243	2,095	1,832	2,010	2,424	1,911	1,781	1,739	2,162	2,014	1,634	2,060	1,739	1,967	1,503
Field pH	s.u.	8.5	8.35	8.35	8.25	9	8.44	8.59	8.6	8.3	8.13	8.12	7.96	8.9	8.64	8.76	8.73	8.3	8.28	8.28	8.35	8.4	8.4	8.32	8.41
Field turbidity	NTUs	1.6	6.53	4.52	21.6	10.7	3.72	1.43	2.23	3.77	2.06	1.14	1.49	45.2	3.49	1.71	3.19	15.7	1.91	1.63	4.22	7.84	1.76	0.87	1.42
Temperature	Deg C	11.5	10.7	10.9	10.6	11.8	12.7	10.7	10.9	11.8	10.8	11.1	10.7	10.8	10.7	10.9	11.4	10.9	10.7	10.9	11.1	11.8	10.7	11	11.6
Dissolved oxygen	mg/l	1.7	0.22	0.08	0.14	0.07	2.49	1.31	0.62	0.11	0.1	0.11	0.13	1.33	0.12	0.18	0.18	0.09	0.15	0.08	0.76	0.07	0.75	0.09	0.18
ORP	millivolts	-70	-200.6	-198.4	-188	-207	109	-204.4	-216.8	-207	-196.1	-193	-173.6	-201.8	-203.8	-227.3	-206.2	-198.6	-158.3	-176.5	-156.5	-182	-185.7	-178.9	-170.9
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	692	681	682	698	450	580	598	614	543	621	538	549	563	646	649	657	722	684	685	697	674	673	671	718
Ammonia as N	mg/l	0.3	0.3	0.3	0.3	0.6	0.7	0.5	0.5	0.9	0.9	0.6	0.7	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Calcium	mg/l	6	5	6	6	6	12	8	10	18	21	19	21	4	5	5	6	7	7	7	8	6	7	6	7
Magnesium	mg/l	2	2	2	2	3	7	5	5	11	12	11	11	3	3	3	3	3	3	3	3	3	3	3	3
Potassium	mg/l	5	4	5	5	10	8	8	7	11	9	10	10	14	12	10	10	7	6	6	6	6	5	5	6
Sodium	mg/l	461	474	480	482	495	561	537	585	503	517	538	539	483	510	488	515	536	551	560	556	529	548	535	545
Bicarbonate	mg/l	714	750	759	774	429	637	649	664	582	704	621	632	604	671	702	701	809	757	772	782	738	753	753	804
Carbonate	mg/l	64	40	36	38	59	35	40	42	39	26	18	19	41	58	44	50	35	38	31	33	41	34	32	36
Chloride	mg/l	4	4	3	3	7	6	5	5	8	7	8	7	6	5	5	5	6	5	5	4	6	5	5	4
Fluoride	mg/l	0.8	0.9	1.8	0.8	0.4	0.4	0.6	0.7	0.2	0.3	0.3	0.3	0.5	1.3	0.9	0.8	0.9	1.0	1.0	0.9	1.0	1.1	1.2	1.2
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	315	281	285	295	621	561	568	567	623	549	593	614	461	427	421	421	455	417	435	443	455	421	417	425
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	0.013	0.017	0.015	0.019	<0.005	<0.005	0.008	0.01	<0.005	<0.005	<0.005	<0.005	0.009	0.015	0.015	0.016	0.005	<0.005	0.005	0.005	0.008	0.008	0.009	0.008
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.6
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	0.05	0.06	0.11	<0.05	0.08	<0.05	0.06	0.16	0.2	0.19	0.19	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05
Iron, total	mg/l	0.07	0.11	0.09		0.21	0.14	0.1		0.2	0.24	0.2		0.2	<0.05	0.06		0.07	0.07	0.07		0.15	0.09	0.07	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0034	0.0023	0.0022	0.0027	0.0039	0.0045	0.0037	0.004	0.0346	0.035	0.0354	0.0369	0.0316	0.0138	0.0108	0.0094	0.0015	0.0005	0.0005	0.0004	0.0009	0.0003	<0.0003	<0.0003
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	1,930	1,960	1,830	1,920	2,070	2,370	2,270	2,380	2,150	2,300	2,160	2,340	2,000	2,040	2,050	2,080	2,130	2,260	2,100	2,250	2,090	2,100	2,060	2,190
Laboratory pH	s.u.	8.9	8.7	8.7	8.7	9.1	8.7	8.8	8.8	8.7	8.6	8.5	8.5	8.8	8.9	8.8	8.8	8.7	8.7	8.6	8.7	8.8	8.7	8.6	8.7
Silica as SiO_2	mg/l				8.9				9.0				8.8				7.7				8.2				8.2
Total dissolved solids (TDS)	mg/l	1,270	1,180	1,240	1,200	1,440	1,510	1,560	1,570	1,500	1,460	1,540	1,510	1,340	1,360	1,380	1,350	1,470	1,410	1,460	1,420	1,440	1,340	1,420	1,400
TDS (calc)	mg/l	1,210	1,180	1,190	1,220	1,410	1,500	1,490	1,560	1,500	1,490	1,500	1,540	1,310	1,350	1,320	1,360	1,450	1,400	1,430	1,450	1,410	1,390	1,370	1,430
Anion sum	meq/l	20.55	19.62	19.75	20.22	22.12	23.46	23.94	24.24	24.06	24.05	23.34	24	21.06	22.02	21.95	22.07	24.12	22.54	22.94	23.32	23.15	22.41	22.29	23.39
Cation sum	meq/l	20.7	21.19	21.51	21.59	22.35	25.79	24.39	26.59	23.97	24.77	25.55	25.75	21.82	23	21.97	23.19	24.11	24.75	25.13	25.03	23.7	24.56	23.98	24.47
Total anion/cation balance	%	0.36	3.84	4.25	3.29	0.51	4.74	0.93	4.62	0.19	1.48	4.52	3.52	1.76	2.16	0.03	2.46	0.02	4.66	4.56	3.53	1.18	4.57	3.65	2.24
Radiological																									
Gross alpha	pCi/l	4.6	5.4	4	6.5	13.3	16.8	29	9.2	51.2	61.7	45.1	60.3	37.8	13.9	17.2	10.3	7	2.7	3.4	<2	2.6	3.4	<2	<2
Gross beta	pCi/l	5.9	<3	3.7		11	9.9	15.7		27.7	17.2	14.2		18.4	32.7	8.8		6.9	3.5	3.1		6.5	5.7	7.1	
Lead-210, dissolved	pCi/l	<1	1	<1		<1	1.1	<1		2.4	1.9	<1		<1	<1	<1		1	<1	2.3		1.2	<1	<1	
Lead-210, suspended	pCi/l	1.2	2.3	<1		<1	<1	1.2		<1	3.6	1.4		1.5	<1	1.6		<1	1.2	<1		<1	<1	<1	
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	2		<1	<1	<1	
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		<1	1.2	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Radium-226, dissolved	pCi/l	<0.2	0.8	0.5	0.4	1.8	2.9	11.3	1.8	4.7	5.2	5.3	5.6	1.1	1	1.6	1.3	0.5	0.4	0.6	0.4	0.3	0.6	0.7	0.3
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	0.3	0.4		0.2	0.2	0.3		3.5	<0.2	<0.2		0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	2.6	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	1,640	1,520	1,450		3,100	3,430	2,590		13,300	14,400	14,900		4,780	3,650	3,770		1,170	912	810		505	855	530	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 2. PM Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-PM19				No. Outliers	N	Mean	Median	Min	Max
Sample Date		4/28/2015	5/15/2015	5/29/2015	6/15/2015						
Field Parameters											
Depth to Water	ft	62.79	71.82	71.93	76.75	0	76	89.8	80.9	35.2	189.6
Field conductivity	µmhos/cm	2,247	2,142	1,761	1,711	0	76	1,956	1,932	1,362	2,740
Field pH	s.u.	8.5	8.28	8.38	8.38	0	76	8.52	8.53	7.96	9.00
Field turbidity	NTUs	0.62	1.48	2.18	2.04	0	76	3.99	2.3	0	45.2
Temperature	Deg C	10.9	11	10.5	11.1	0	76	11.4	11.3	10.5	13.7
Dissolved oxygen	mg/l	0.75	0.07	3.94	6.13	0	76	2.13	1.32	0.06	27.2
ORP	millivolts	-177.1	-192.1	-246	-66	0	76	-117	-180	-288	176
Inorganics											
Alkalinity (as $CaCO_3$)	mg/l	637	695	642	645	1	75	625.4	634	484	722
Ammonia as N	mg/l	0.4	0.3	0.3	0.3	0	76	0.4	0.4	0.2	0.9
Calcium	mg/l	7	7	7	7	0	76	7.0	6	4	21
Magnesium	mg/l	3	3	3	3	0	76	3.3	3	2	12
Potassium	mg/l	6	5	6	6	0	76	6.9	6	4	14
Sodium	mg/l	558	591	535	558	1	75	545.4	542	461	705
Bicarbonate	mg/l	709	775	710	720	1	75	684.6	690	519	809
Carbonate	mg/l	34	36	36	33	0	76	38.9	37	18	64
Chloride	mg/l	7	5	5	5	0	76	5.7	6	3	11
Fluoride	mg/l	0.9	1.0	1.0	1.0	1	75	0.8	0.8	0.2	1.3
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	0	76	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	530	499	486	490	1	75	506.8	499	281	882
Metals											
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	0	76	<0.1	<0.1	<0.1	0.1
Arsenic, dissolved	mg/l	0.005	0.005	0.006	0.006	0	76	0.005	0.005	<0.005	0.019
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	0	76	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.6	0.6	0.5	0.5	0	76	0.5	0.5	0.3	0.6
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	0	76	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	76	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	76	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	0	76	<0.05	<0.05	<0.05	0.20
Iron, total	mg/l	0.05	0.13	0.08		0	57	0.08	0.07	<0.05	0.24
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	0	76	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02	0	19	<0.02	<0.02	<0.02	<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		0	57	<0.02	<0.02	<0.02	<0.02
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	0	76	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	0	76	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	76	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	0	76	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		0	57	<0.003	<0.003	<0.003	<0.003
Uranium, dissolved	mg/l	0.0005	<0.0003	0.0003	0.0008	0	76	0.0161	0.0053	<0.0003	0.0660
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		0	57	<0.0003	<0.0003	<0.0003	0.0004
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	0	76	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	0	76	<0.01	<0.01	<0.01	0.01
Other											
Laboratory conductivity	µmhos/cm	2,270	2,200	2,210	2,220	1	75	2,225	2,220	1,830	2,840
Laboratory pH	s.u.	8.7	8.7	8.7	8.7	0	76	8.8	8.7	8.5	9.1
Silica as SiO_2	mg/l				8.0	0	19	8.3	8.2	7.5	9.0
Total dissolved solids (TDS)	mg/l	1,540	1,500	1,480	1,490	1	75	1,480	1,480	1,170	1,960
TDS (calc)	mg/l	1,490	1,530	1,430	1,460	0	76	1,461	1,455	1,180	2,170
Anion sum	meq/l	24	24.48	23.15	23.29	0	76	23.36	23.33	19.62	32.18
Cation sum	meq/l	25.01	26.48	24.01	25.05	0	76	24.67	24.52	20.70	35.13
Total anion/cation balance	%	2.07	3.92	1.83	3.64	0	76	2.76	3.18	0.02	4.74
Radiological											
Gross alpha	pCi/l	<2	<2	<2	<2	0	76	22.3	13.6	<2	99.4
Gross beta	pCi/l	<3	8.9	7.3		0	57	10.6	9.8	<3	38.0
Lead-210, dissolved	pCi/l	<1	<1	<1		1	56	<1	<1	<1	2.4
Lead-210, suspended	pCi/l	<1	<1	<1		0	57	<1	<1	<1	3.6
Polonium-210, dissolved	pCi/l	<1	<1	<1		0	57	<1	<1	<1	7.6
Polonium-210, suspended	pCi/l	<1	<1	<1		0	57	<1	<1	<1	1.2
Radium-226, dissolved	pCi/l	0.2	1	<0.2	0.6	1	75	1.2	0.9	<0.2	5.6
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		0	57	<0.2	<0.2	<0.2	3.5
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	0	76	<1	<1	<1	2.6
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		0	57	<0.2	<0.2	<0.2	<0.2
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		0	57	<0.2	<0.2	<0.2	<0.2
Radon-222	pCi/l	697	377	379		0	57	2,622	1,980	377	14,900

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 3. SM Water Quality Results

Station Name	Reporting Units	MU1-SM1				MU1-SM2				MU1-SM3				MU1-SM4				MU1-SM5				MU1-SM6			
Sample Date		**4/22/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/23/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/29/2015**	**5/13/2015**	**5/27/2015**	**6/10/2015**	**4/20/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/21/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**
Field Parameters																									
Depth to Water	ft	52	60.59	58.55	60.15	48	52.3	56.21	55.74	59.9	62.67	63.34	69.7	51.69	54.12	55	56.61	67	71.01	73.89	75.71	64	69.09	71.5	72.91
Field conductivity	µmhos/cm	1,398	1,406	1,056	1,016	1,742	1,387	1,607	1,420	1,565	1,850	1,522	1,655	1,910	1,489	1,481	1,397	1,910	1,761	1,455	1,541	2,150	1,483	1,573	1,504
Field pH	s.u.	8.84	8.62	8.67	8.63	8.82	8.94	8.82	8.8	8.3	8.32	8.45	8.5	8.44	8.42	8.37	8.45	8.56	8.48	8.35	8.3	8.8	8.55	8.57	8.62
Field turbidity	NTUs	0.89	5.74	5.26	6.17	2.46	2.99	77.1	35.5	226	4.82	10.7	1.72	20.5	2.55	2.04	3.41	42.4	17	10.5	10.8	5.66	8.47	3.33	1.43
Temperature	Deg C	12.3	10.8	10.2	10.9	11.4	10.57	10.8	11	11.1	10.9	10.9	11	11.7	11.4	11.4	11.7	10.8	10.9	10.5	10.4	12.3	10.7	10.7	12.2
Dissolved oxygen	mg/l	1.91	2	2.85	3.25	2.55	0.95	0.08	0.07	0.06	0.13	0.1	2.68	1.57	2.36	1.58	2.28	3.08	0.27	0.97	0.15	1.76	2.13	3.55	3.37
ORP	millivolts	-156	39.4	-146	-188	-274	-232.2	-247.8	-200.9	-219	-187.3	-197	-16.6	-81	-200	-264	129	-148	-208	-153.2	-176.3	-249	-163	-163	-10.2
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	508	557	518	542	622	671	589	621	642	641	642	656	690	710	703	679	634	628	634	644	669	658	649	753
Ammonia as N	mg/l	0.2	0.2	<0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.4	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2
Calcium	mg/l	3	3	3	3	3	3	3	3	6	5	5	5	5	5	5	5	5	5	6	5	3	3	3	4
Magnesium	mg/l	1	1	1	1	2	2	2	2	3	3	2	3	3	2	3	3	3	3	3	3	2	2	2	2
Potassium	mg/l	4	5	5	5	10	11	10	10	6	5	5	5	6	5	6	5	5	5	6	5	11	9	8	12
Sodium	mg/l	320	329	311	335	381	475	407	436	462	473	448	493	451	459	471	480	478	469	471	480	476	498	467	497
Bicarbonate	mg/l	550	602	553	589	679	717	629	662	684	707	716	729	707	793	779	762	702	680	696	708	705	717	701	824
Carbonate	mg/l	35	38	39	36	39	50	44	47	49	37	33	35	66	36	39	33	35	42	38	38	55	42	45	46
Chloride	mg/l	4	5	4	4	4	4	5	4	3	4	4	4	3	4	4	3	5	4	4	4	5	5	5	4
Fluoride	mg/l	1.7	0.2	1.7	1.8	1.4	1.3	0.8	1.3	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.8	1.0	0.9	0.9	0.7
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	171	176	174	176	261	297	282	297	337	325	336	334	289	284	285	293	338	332	312	332	341	352	356	330
Metals																									
Aluminum, dissolved	mg/l	0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	0.011	0.007	0.006	0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.06	0.06	0.16	<0.05	<0.05	<0.05	0.06	0.05	<0.05	<0.05	0.07	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	<0.05	0.16	0.17		0.06	2.39	1.49		5.45	0.1	0.34		0.72	0.09	0.05		0.59	0.32	0.38		<0.05	0.05	<0.05	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	0.03	<0.02		0.07	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0005	0.0004	0.0003	<0.0003	0.0004	0.0004	0.0004	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0003	0.0013	0.0005	0.0004	<0.0003	0.0021	0.0003	0.0008	0.0005	0.0004	0.0004
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0.0006	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																									
Laboratory conductivity	µmhos/cm	1,440	1,360	1,360	1,340	1,670	1,830	1,730	1,740	1,910	1,990	1,850	1,960	1,890	1,910	1,820	1,920	1,900	1,970	1,830	1,860	2,020	2,000	1,970	1,910
Laboratory pH	s.u.	8.9	8.8	8.9	8.8	8.8	8.9	8.8	8.8	8.9	8.8	8.7	8.7	9.0	8.7	8.8	8.7	8.7	8.8	8.7	8.7	8.9	8.8	8.8	8.8
Silica as SiO_2	mg/l				7.2				7.7				8.0				8.4				7.9				7.0
Total dissolved solids (TDS)	mg/l	850	860	910	870	1,220	1,220	1,140	1,150	1,290	1,280	1,240	1,260	1,220	1,180	1,230	1,170	1,220	1,170	1,240	1,190	1,540	1,240	1,300	1,250
TDS (calc)	mg/l	810	850	810	860	1,030	1,200	1,060	1,130	1,200	1,200	1,190	1,240	1,170	1,180	1,190	1,200	1,210	1,190	1,180	1,220	1,240	1,260	1,230	1,310
Anion sum	meq/l	13.91	14.94	14.18	14.72	18.05	19.79	17.83	18.77	19.99	19.75	19.94	20.22	19.96	20.25	20.15	19.82	19.89	19.62	19.32	19.94	20.64	20.66	20.55	22.08
Cation sum	meq/l	14.32	14.71	13.88	14.97	17.08	21.31	18.25	19.52	20.74	21.18	20.08	22.06	20.26	20.56	21.09	21.48	21.4	21	21.2	21.48	21.28	22.25	20.87	22.35
Total anion/cation balance	%	1.43	0.79	1.04	0.85	2.75	3.67	1.17	1.94	1.82	3.5	0.33	4.36	0.74	0.75	2.26	4.02	3.65	3.39	4.63	3.72	1.52	3.69	0.77	0.6
Radiological																									
Gross alpha	pCi/l	7.5	11.4	<2	2.8	2.6	<2	5.3	3.7	2.1	3.7	<2	<2	2.5	<2	<2	<2	3.3	7.1	72.7	17.9	2.1	<2	<2	<2
Gross beta	pCi/l	8.7	6.2	7.4		7.1	8.4	8.8		5.1	5	<3		4.4	5.6	4.2		5.2	6	28.4		8	16.3	5.4	
Lead-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		12.8	<1	1		<1	<1	<1		1.5	<1	<1		1	<1	<1	
Lead-210, suspended	pCi/l	3.1	<1	<1		<1	<1	1.3		<1	13.8	1		<1	<1	<1		1.4	<1	<1		1.5	<1	<1	
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Radium-226, dissolved	pCi/l	0.4	4.1	<0.2	0.3	0.4	0.4	1.1	0.9	0.4	1.6	0.4	0.2	<0.2	<0.2	<0.2	0.3	1.3	1.5	24.8	4.1	0.4	<0.2	<0.2	0.4
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	0.3	0.6		0.5	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	2.5		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	1.7	<1	<1	<1	1.2	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	464	492	279		439	451	1,230		465	1,950	379		510	593	552		453	840	2,240		491	317	286	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 3. SM Water Quality Results (Cont).

Station Name	Reporting Units	MU1-SM7				MU1-SM8				MU1-SM9				MU1-SM10				MU1-SM11				MU1-SM12			
Sample Date		**4/22/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/20/2015**	**5/15/2015**	**5/29/2015**	**6/15/2015**	**4/20/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/23/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/29/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**
Field Parameters																									
Depth to Water	ft	65	69.9	71.48	72.42	44	99.9	50.73	51.41	72	77.09	78.73	79.67	44	45.53	46.04	47.64	47.49	47.49	52.35	53.95	37.4	39.2	90.03	38.96
Field conductivity	µmhos/cm	1,940	1,513	1,615	1,541	1,764	1,570	1,325	1,249	2,150	2,066	1,791	1,652	1,654	1,562	1,510	1,368	1,562	1,182	1,179	1,136	1,830	1,728	1,441	1,552
Field pH	s.u.	8.64	8.64	8.38	8.32	8.69	8.42	8.47	8.46	8.48	8.3	8.33	8.25	8.7	8.42	9.1	8.55	8.71	8.52	8.54	8.52	8.48	8.72	8.55	8.47
Field turbidity	NTUs	1.74	2.74	4.03	3.98	7.97	286	12.06	18.14	5.11	10.1	6.47	8.54	0.58	0.98	0.83	2.11	1.1	7.89	5.02	11.25	1.49	9.38	9.47	3.65
Temperature	Deg C	10.4	10.66	11	11.7	10.4	10.6	11.2	11.3	11.1	11.5	12.3	11.8	10.9	10.6	11	10.7	11.5	11.5	10.4	10.9	11.7	10.6	10.8	11.2
Dissolved oxygen	mg/l	2.21	0.87	4.1	4.39	1.4	0.16	4.5	2.5	5.76	3.63	4.11	3.01	1.41	0.43	0.37	0.66	1.51	1.56	2.21	1.89	1.5	0.23	0.09	2.03
ORP	millivolts	146	-186.8	92	23	-124	-198.6	70	68	-167	-58.2	-120	-34	128	-173.8	-147	-99.6	86	47	59	108	-127	-112.5	-214	-31.5
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	629	647	655	672	627	645	632	632	675	696	745	714	552	606	567	574	588	605	622	591	659	632	640	650
Ammonia as N	mg/l	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.2	0.3	0.2	0.2	0.2
Calcium	mg/l	6	7	6	6	4	5	4	4	7	7	6	6	4	4	4	4	4	3	3	3	5	5	5	5
Magnesium	mg/l	3	4	3	3	2	3	2	2	3	4	3	3	2	2	2	2	2	2	2	1	2	2	2	2
Potassium	mg/l	7	6	6	6	6	6	5	5	6	6	6	6	4	4	5	4	5	4	4	3	5	6	6	5
Sodium	mg/l	463	492	460	505	427	440	393	411	524	533	503	538	364	400	401	389	373	383	362	347	432	453	458	453
Bicarbonate	mg/l	696	718	725	750	692	711	694	695	757	770	829	799	613	666	627	635	609	659	685	648	690	704	704	713
Carbonate	mg/l	35	35	36	34	36	38	38	38	33	39	39	36	30	36	32	32	54	39	37	36	56	33	38	39
Chloride	mg/l	5	5	4	5	4	4	3	3	4	4	4	4	5	6	5	6	5	6	5	5	4	5	4	4
Fluoride	mg/l	0.7	0.7	0.7	0.7	0.9	0.9	1.0	1.0	0.8	0.7	0.7	0.8	1.7	1.9	0.4	1.7	2.1	2.0	2.0	1.8	1.4	1.4	1.4	1.5
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	339	359	365	382	245	239	230	227	401	413	409	421	249	239	244	248	209	194	198	198	274	282	280	281
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	0.012	0.008	0.006	0.006	0.005	<0.005	<0.005	<0.005	0.006	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	0.25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	<0.05	0.12	0.1		0.31	6.26	0.41		0.14	0.13	0.2		<0.05	0.06	<0.05		<0.05	0.08	0.21		0.06	0.19	0.13	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	0.09	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0015	0.0007	0.0005	0.0005	<0.0003	0.0005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0007	0.0003	0.0003	0.0003	<0.0003	0.0004	0.0004	0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		0.0007	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Other																									
Laboratory conductivity	µmhos/cm	1,960	1,990	2,000	1,980	1,740	1,640	1,640	1,640	2,170	2,150	2,130	2,090	1,600	1,670	1,570	1,640	1,570	1,520	1,500	1,480	1,830	1,860	1,770	1,830
Laboratory pH	s.u.	8.7	8.7	8.7	8.6	8.7	8.8	8.8	8.7	8.7	8.7	8.7	8.6	8.7	8.8	8.7	8.8	9.0	8.8	8.8	8.8	8.9	8.7	8.7	8.8
Silica as SiO_2	mg/l				7.2				8.0				7.6				7.8				6.9				7.5
Total dissolved solids (TDS)	mg/l	1,250	1,380	1,320	1,340	1,120	1,070	1,040	1,050	1,410	1,440	1,420	1,410	1,170	1,000	1,050	1,040	1,010	990	950	950	1,190	1,140	1,210	1,160
TDS (calc)	mg/l	1,200	1,260	1,240	1,320	1,060	1,080	1,020	1,040	1,350	1,380	1,380	1,410	960	1,020	1,000	1,010	950	960	950	920	1,120	1,130	1,140	1,150
Anion sum	meq/l	19.82	20.58	20.85	21.58	17.8	18.02	17.55	17.5	22.02	22.66	23.58	23.2	16.45	17.34	16.58	16.9	16.37	16.4	16.8	16.18	19.05	18.72	18.8	19.04
Cation sum	meq/l	20.93	22.2	20.69	22.66	19.13	19.77	17.57	18.34	23.56	23.99	22.61	24.13	16.28	17.86	17.89	17.4	16.68	17.08	16.13	15.44	19.37	20.26	20.52	20.28
Total anion/cation balance	%	2.72	3.79	0.37	2.44	3.59	4.62	0.04	2.35	3.36	2.84	2.09	1.94	0.53	1.48	3.79	1.44	0.92	2.04	2.05	2.32	0.81	3.96	4.35	3.16
Radiological																									
Gross alpha	pCi/l	2.8	<2	3.4	3.7	13	2.3	<2	<2	5	3.7	<2	<2	<2	<2	3.6	<2	<2	<2	<2	<2	<2	4.9	3.9	<2
Gross beta	pCi/l	4.7	6.8	5.6		13.1	7.6	3.2		10.7	5.5	3.7		6	4.6	5.9		5.1	4.2	<3		3.9	6.4	<3	
Lead-210, dissolved	pCi/l	4.5	1.2	<1		<1	1.6	<1		<1	<1	<1		<1	<1	<1		<1	<1	1.4		<1	<1	<1	
Lead-210, suspended	pCi/l	1.5	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Radium-226, dissolved	pCi/l	0.8	0.3	<0.2	0.3	0.7	0.3	<0.2	0.3	0.7	2.1	0.4	0.3	0.2	0.3	0.4	0.3	<0.2	0.4	<0.2	0.4	<0.2	1.3	1.5	0.6
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	0.2	<0.2		<0.2	<0.2	<0.2		0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	394	323	288		319	355	297		400	590	295		462	1,340	515		374	417	421		389	420	2,740	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 3. SM Water Quality Results (Cont).

Station Name	Reporting Units	MU1-SM13				MU1-SM14				No. Outliers	N	Mean	Median	Min	Max
Sample Date		4/29/2015	5/13/2015	5/27/2015	6/10/2015	4/21/2015	5/14/2015	5/28/2015	6/11/2015						
Field Parameters															
Depth to Water	ft	41.98	41.98	42.02	43.11	77	80.15	80.8	82.34	0	56	60.6	59.2	37.4	99.9
Field conductivity	µmhos/cm	1,566	1,095	1,194	1,033	1,949	1,710	1,521	1,390	0	56	1,547	1,541	1,016	2,150
Field pH	s.u.	9.21	9.21	9.11	9.14	8.49	8.56	8.4	8.49	0	56	8.6	8.5	8.3	9.2
Field turbidity	NTUs	0.42	2.95	8.15	4.62	4.42	25.5	4.05	4.14	0	56	17.5	5.1	0.4	286.0
Temperature	Deg C	12.5	10.7	10.6	10.7	11.9	11.1	11.3	10.8	0	56	11.1	11.0	10.2	12.5
Dissolved oxygen	mg/l	1.4	0.53	0.07	1.4	1.66	0.08	2.65	3.24	0	56	1.81	1.62	0.06	5.76
ORP	millivolts	-85	-289.9	-290.8	-145.9	-221	-200.5	-192	-80	0	56	-110	-148	-291	146
Inorganics															
Alkalinity (as $CaCO_3$)	mg/l	612	561	556	565	694	669	662	665	0	56	633.9	641	508	753
Ammonia as N	mg/l	0.3	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0	56	0.2	0.2	<0.1	0.4
Calcium	mg/l	3	4	3	3	5	5	5	10	1	55	4.4	5	3	7
Magnesium	mg/l	1	1	1	1	3	3	2	3	0	56	2.3	2	1	4
Potassium	mg/l	8	8	7	7	5	6	5	5	0	56	6.1	6	3	12
Sodium	mg/l	398	340	352	354	498	486	485	464	0	56	436.6	456	311	538
Bicarbonate	mg/l	571	465	511	545	769	729	725	736	1	55	690.3	702	511	829
Carbonate	mg/l	87	108	82	71	38	43	40	37	1	55	42.5	38	30	108
Chloride	mg/l	4	3	3	3	5	4	4	4	0	56	4.3	4	3	6
Fluoride	mg/l	1.8	1.9	2.0	1.9	0.5	0.5	0.5	0.5	0	56	1.1	1.0	0.2	2.1
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0	56	<0.1	<0.1	<0.1	0.2
Sulfate	mg/l	197	164	157	166	318	299	318	324	0	56	283.6	287	157	421
Metals															
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	56	<0.1	<0.1	<0.1	0.4
Arsenic, dissolved	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	2	54	<0.005	<0.005	<0.005	0.008
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	56	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.5	0.6	0.5	0.6	0.4	0.5	0.4	0.5	0	56	0.5	0.5	0.4	0.6
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0	56	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	56	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	56	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0	56	<0.05	<0.05	<0.05	0.25
Iron, total	mg/l	<0.05	0.15	0.2		0.09	0.25	0.11		2	40	0.25	0.13	<0.05	2.39
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0	56	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02	0	14	<0.02	<0.02	<0.02	<0.02
Manganese, total	mg/l	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02		0	42	<0.02	<0.02	<0.02	0.09
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0	56	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0	56	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	56	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	56	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		0	42	<0.003	<0.003	<0.003	<0.003
Uranium, dissolved	mg/l	0.0003	0.0004	0.0004	<0.0003	<0.0003	0.0005	0.0005	<0.0003	3	53	0.0003	0.0003	<0.0003	0.0008
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		0.0003	<0.0003	<0.0003		0	42	<0.0003	<0.0003	<0.0003	0.0007
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0	56	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	56	<0.01	<0.01	<0.01	0.02
Other															
Laboratory conductivity	µmhos/cm	1,570	1,500	1,380	1,450	1,950	1,790	1,880	1,930	0	56	1,779	1,830	1,340	2,170
Laboratory pH	s.u.	9.3	9.5	9.3	9.2	8.8	8.8	8.8	8.7	0	56	8.8	8.8	8.6	9.5
Silica as SiO_2	mg/l				8.6				7.8	0	14	7.7	7.8	6.9	8.6
Total dissolved solids (TDS)	mg/l	1,000	870	900	880	1,360	1,110	1,280	1,250	0	56	1,161	1,185	850	1,540
TDS (calc)	mg/l	980	860	860	880	1,250	1,200	1,220	1,220	0	56	1,119	1,175	810	1,410
Anion sum	meq/l	16.54	14.82	14.59	14.96	20.66	19.75	19.98	20.2	0	56	18.75	19.47	13.91	23.58
Cation sum	meq/l	17.77	15.31	15.76	15.83	22.27	21.76	21.72	21.05	0	56	19.56	20.40	13.88	24.13
Total anion/cation balance	%	3.56	1.64	3.87	2.81	3.75	4.84	4.15	2.06	0	56	2.45	2.34	0.04	4.84
Radiological															
Gross alpha	pCi/l	<2	2.7	5.8	<2	2.2	2.8	<2	2.9	1	55	2.9	2.1	<2	17.9
Gross beta	pCi/l	7.1	7	8.1		3.6	4.9	<3		1	41	6.0	5.6	<3	16.3
Lead-210, dissolved	pCi/l	<1	1.3	1		<1	<1	<1		0	42	1	<1	<1	12.8
Lead-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		0	42	<1	<1	<1	13.8
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		0	42	<1	<1	<1	<1
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		0	42	<1	<1	<1	<1
Radium-226, dissolved	pCi/l	<0.2	0.9	2	<0.2	0.3	1	0.2	0.3	1	55	0.7	0.4	<0.2	4.1
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		0	42	<0.2	<0.2	<0.2	2.5
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	0	56	<1	<1	<1	1.7
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		0	42	<0.2	<0.2	<0.2	0.2
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		0	42	<0.2	<0.2	<0.2	0.2
Radon-222	pCi/l	449	740	801		382	1,950	332		6	36	443.7	421	279	840

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 4. DM Water Quality Results

Station Name	Reporting Units	MU1-DM1				MU1-DM2				MU1-DM3A				MU1-DM4				MU1-DM5				MU1-DM6			
Sample Date		**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/28/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**	**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/29/2015**	**5/14/2015**	**5/28/2015**	**6/11/2015**	**4/28/2015**	**5/15/2015**	**5/29/2015**	**6/12/2015**
Field Parameters																									
Field conductivity	µmhos/cm	1,474	2,173	2,337	2,238	2,220	2,342	2,430	2,275	3,300	2,606	2,712	3,115	2,760	2,177	2,310	2,211	3,040	2,461	2,583	2,493	3,060	2,348	2,343	2,495
Field pH	s.u.	9.8	9.18	8.89	9.09	9.18	8.75	8.77	9.04	11.27	10.55	9.67	9.51	8.65	8.6	8.55	8.66	11.26	9.77	9.7	9.6	10.35	9.59	9.46	9.36
Field turbidity	NTUs	79.4	17.13	20.2	25.7	42.6	36.3	36.8	24.2	28.8	92.3	121	16.16	28.3	23.8	52.7	23.4	47.8	28.9	27.7	21.4	30.4	72.7	65.7	33
Temperature	Deg C	12	11.6	11.8	11.5	14.7	11.5	12.5	12	16.9	10.6	9.2	16.6	15.6	11.4	12.2	12.7	16.6	11.7	12.5	12.8	13.4	10.4	9.9	13.9
Dissolved oxygen	mg/l	4.95	1.88	2.59	4.99	2.55	8.57	4.76	5.04	3.76	3.41	6.02	4.6	3.4	4.28	3.86	3.79	4.11	5.08	4.06	4.33	3.11	4.64	3.81	5.49
ORP	millivolts	70	63	70	10	-7	43	69	25	-65	-69	3	47	-15	-12	90	-22	33	-125	-14	-79	-55	70	-82	38
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	329	361	390	385	338	444	455	429	368	263	295	331	410	420	450	414	263	339	389	409	347	406	400	430
Ammonia as N	mg/l	1.1	0.8	0.5	0.6	0.7	0.7	0.7	1	5	2.1	1	0.8	0.5	0.7	0.5	0.5	2.9	0.9	0.7	0.7	1.1	0.7	0.7	0.7
Calcium	mg/l	4	6	8	7	7	8	8	8	10	4	4	4	7	7	7	7	4	2	4	3	2	3	4	3
Magnesium	mg/l	<1	1	2	2	2	2	2	2	<1	<1	<1	<1	2	2	2	2	<1	<1	<1	<1	<1	1	1	1
Potassium	mg/l	5	8	8	8	8	8	8	8	21	22	24	21	6	6	6	5	14	13	13	12	34	31	22	27
Sodium	mg/l	339	611	645	662	462	657	685	690	691	719	753	771	579	618	628	650	609	694	719	757	606	640	654	685
Bicarbonate	mg/l	247	311	399	378	329	462	478	422	<5	13	197	213	442	463	500	455	49	162	268	244	106	258	281	317
Carbonate	mg/l	76	63	37	45	41	39	38	50	194	152	80	94	29	24	24	25	134	123	101	126	156	117	102	102
Chloride	mg/l	123	503	586	658	228	477	503	480	277	404	408	431	565	652	617	618	329	481	477	472	727	733	756	733
Fluoride	mg/l	1.3	1	1	0.9	1.1	1.1	1.1	1.1	1.1	1	0.9	1	1.2	1.2	1.2	1.3	1.2	1.1	1.1	1.1	1	1.1	1.1	1.1
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	182	235	203	164	344	287	284	327	775	658	802	790	47	37	44	55	560	400	401	453	11	9	10	8
Metals																									
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.4	0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	0.1	0.1	<0.1
Arsenic, dissolved	mg/l	0.01	0.009	0.006	0.006	0.009	<0.005	<0.005	0.006	0.01	0.006	0.005	0.005	<0.005	<0.005	<0.005	0.006	0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.7	0.7	0.8	0.8	0.6	0.8	0.8	0.8	0.7	0.7	0.6	0.7	0.8	0.9	0.9	0.9	0.7	0.8	0.8	0.8	0.9	1.0	0.9	0.9
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	0.05	0.02	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	0.01	<0.01
Iron, dissolved	mg/l	0.16	<0.05	<0.05	<0.05	0.09	0.07	0.08	0.07	<0.05	0.25	0.08	<0.05	<0.05	0.15	0.1	<0.05	<0.05	<0.05	0.06	0.06	<0.05	0.3	0.07	0.07
Iron, total	mg/l	2.32	0.47	0.85		0.89	1.23	1.4		0.58	3.39	5.48		0.89	0.98	2.05		1.33	0.88	0.74		0.64	3.02	2.71	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	0.05	<0.02	0.02		0.04	0.03	0.04		<0.02	0.07	0.1		0.03	0.03	0.06		<0.02	<0.02	<0.02		<0.02	0.05	0.05	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	0.004	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0027	0.0009	0.0009	0.0005	0.0026	0.0007	0.0007	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0008	0.0004	<0.0003	0.0007	0.0007	0.0005	0.0003	<0.0003	<0.0003	<0.0003	0.0005	<0.0003
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0.0004	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	0.01	<0.01	<0.01	0.01	<0.01	0.08	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.01
Other																									
Laboratory conductivity	µmhos/cm	1,450	2,790	2,840	2,920	2,130	2,980	2,890	2,950	3,130	3,330	3,510	3,500	2,630	2,880	2,740	2,850	2,830	3,140	3,060	3,200	2,840	2,970	2,990	2,970
Laboratory pH	s.u.	9.6	9.3	9.0	9.1	9.1	8.9	8.9	9.1	10.9	10.5	9.6	9.6	8.8	8.8	8.7	8.7	10.4	9.9	9.6	9.6	10.2	9.7	9.5	9.5
Silica as SiO_2	mg/l				7.4				7.5				9.5				7.7				9.1				8.1
Total dissolved solids (TDS)	mg/l	910	1,540	1,710	1,690	1280	1,670	1,820	1,760	2,040	2,060	2,240	2,270	1,510	1,520	1,590	1,570	1,780	1,780	1,910	1,920	1,580	1,640	1,730	1,680
TDS (calc)	mg/l	850	1,580	1,680	1,740	1,250	1,710	1,760	1,780	1,990	1,970	2,170	2,230	1,450	1,570	1,580	1,590	1,670	1,790	1,850	1,950	1,590	1,660	1,690	1,720
Anion sum	meq/l	13.92	26.32	28.6	29.71	20.41	28.37	29.27	28.98	31.34	30.42	34.13	35.3	25.16	27.63	27.44	26.9	26.26	28.73	29.63	31	27.71	29.03	29.58	29.51
Cation sum	meq/l	15.16	27.23	28.8	29.57	20.89	29.4	30.62	30.85	31.41	32.19	33.65	34.34	25.85	27.54	28.03	28.96	27.27	30.7	31.86	33.43	27.43	28.97	29.33	30.76
Total anion/cation balance	%	4.26	1.71	0.35	0.24	1.13	1.78	2.25	3.11	0.11	2.83	0.71	1.37	1.36	0.16	1.06	3.69	1.89	3.3	3.63	3.78	0.5	0.1	0.42	2.07
Radiological																									
Gross alpha	pCi/l	5	<2	<2	7.4	<2	<2	<2	<2	2.9	<2	2.3	3.9	7.7	<2	<2	<2	<2	<2	<2	2.2	3.9	<2	<2	<2
Gross beta	pCi/l	7.2	4.8	6.1		7.5	7	<3		12.8	13.8	18.2		8.1	<3	3		8.2	7.1	3.6		27.3	18.4	16.2	
Lead-210, dissolved	pCi/l	<1	<1	1.3		<1	<1	<1		<1	1.1	<1		<1	<1	<1		<1	<1	1.2		<1	<1	<1	
Lead-210, suspended	pCi/l	<1	<1	1		4.4	<1	<1		<1	<1	<1		<1	<1	15.4		<1	<1	<1		<1	<1	<1	
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Radium-226, dissolved	pCi/l	0.2	<0.2	0.3	0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.3	1.7	0.3	0.3	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.8
Radium-226, suspended	pCi/l	0.3	<0.2	<0.2		0.3	<0.2	<0.2		<0.2	<0.2	0.5		<0.2	<0.2	0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	2.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	<100	1,070	322		<100	198	222		139	<100	<100		103	213	868		<100	165	316		<100	<100	<100	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 4. DM Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-DM7				MU1-DM8				MU1-DM9				MU1-DM10				MU1-DM11				MU1-DM12			
Sample Date		4/28/2015	5/15/2015	5/29/2015	6/12/2015	4/28/2015	5/15/2015	5/29/2015	6/12/2015	4/28/2015	5/15/2015	5/29/2015	6/12/2015	4/28/2015	5/15/2015	5/29/2015	6/12/2015	4/28/2015	5/15/2015	5/29/2015	6/12/2015	4/28/2015	5/14/2015	5/28/2015	6/11/2015
Field Parameters																									
Field conductivity	µmhos/cm	3,360	2,400	2,347	2,640	3,360	2,500	2,416	2,349	5,290	3,120	2,574	2,732	3,160	3,378	2,336	2,531	2,710	2,014	1,972	2,054	5,940	3,760	3,703	3,367
Field pH	s.u.	11.49	10.2	10.04	10.2	10.24	9.96	9.56	9.36	12.42	12.04	11.56	11.49	10.24	9.47	9.4	9.37	9.59	9.34	9.19	9.23	12.3	11.67	11.71	11.57
Field turbidity	NTUs	84	293	247	200	46.8	50.4	53.4	29.1	30.7	86.1	60.1	31.8	599	275	160	45.5	34.1	50.8	91.8	9.14	19.34	18.2	24.2	16.49
Temperature	Deg C	12.7	10.3	9.5	14.5	10.9	10.1	9.2	18	11.5	10.8	9.7	14.2	14.6	10.12	9.2	13.9	14.2	10.5	9.7	13	14.4	11.8	11.4	11.9
Dissolved oxygen	mg/l	4.15	6.78	5.22	5.54	2.64	5.14	9.55	4	3.55	2.79	4.2	4.78	3.87	3.96	5.29	5.17	3.28	4.44	6.24	4.2	3.83	3.51	4.05	5.55
ORP	millivolts	53	-92	-75	-91	6	19	-9	88	-39	-58	-198	-84	11	-52	-12	29	26	5	49	16	-7	-106	90	-156
Inorganics																									
Alkalinity (as $CaCO_3$)	mg/l	401	543	428	526	458	437	433	426	653	453	523	537	393	410	446	465	497	507	499	533	607	529	479	443
Ammonia as N	mg/l	2	0.9	0.8	0.7	2.1	1.4	1.1	0.8	2.3	1.6	<0.1	1.2	1	0.6	0.6	0.6	0.6	0.5	0.5	0.5	3.4	2.2	1.7	1.5
Calcium	mg/l	3	4	4	3	3	3	3	3	31	6	4	3	2	4	4	4	4	3	3	3	9	5	3	2
Magnesium	mg/l	<1	<1	1	<1	1	1	1	1	<1	<1	<1	<1	<1	1	2	1	1	1	1	1	<1	<1	<1	<1
Potassium	mg/l	37	39	33	63	27	35	22	23	65	59	55	72	33	24	22	31	38	36	30	37	60	49	58	50
Sodium	mg/l	614	697	616	685	637	746	654	701	535	594	578	608	624	712	655	690	553	550	530	568	788	936	925	883
Bicarbonate	mg/l	<5	577	125	121	172	121	264	310	<5	170	<5	<5	133	292	340	351	391	422	417	465	658	<5	<5	<5
Carbonate	mg/l	217	42	195	256	190	203	130	103	88	188	209	241	170	103	100	107	106	97	95	91	41	180	227	214
Chloride	mg/l	709	725	728	689	753	779	789	766	496	561	551	581	673	647	668	658	553	537	560	517	260	316	299	333
Fluoride	mg/l	1.2	0.3	1.2	1.1	1.0	1.1	1.0	1.0	0.9	1.1	1.4	1.5	1.1	1.1	1.1	1.0	1.1	1.1	1.2	1.2	0.8	0.9	0.9	0.8
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	50	36	40	40	27	24	27	23	67	78	95	88	126	115	106	103	5	5	5	5	932	924	974	1050
Metals																									
Aluminum, dissolved	mg/l	0.9	0.4	0.2	0.2	<0.1	0.1	0.1	<0.1	1	1.4	0.7	0.8	0.5	0.3	0.3	0.1	0.2	0.2	0.2	<0.1	0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	0.006	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.9	1.0	0.9	0.9	1.0	1.0	0.9	1.0	0.6	0.7	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.6	0.6	0.6	0.6
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	0.06	0.28	0.1	0.1	<0.05	0.12	0.08	<0.05	<0.05	0.1	0.06	0.07	0.19	0.2	0.15	<0.05	0.11	0.28	0.15	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	1.45	5.32	4.85		1.79	1.77	2.32		0.93	2.39	2.06		10.5	5.59	5.04		0.85	2.13	3.4		0.94	0.45	1.15	
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02				<0.02				<0.02				<0.02				<0.02
Manganese, total	mg/l	0.02	0.09	0.09		<0.02	<0.02	0.03		<0.02	0.06	0.05		0.14	0.07	0.12		0.02	0.03	0.1		<0.02	<0.02	<0.02	
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	<0.003	
Uranium, dissolved	mg/l	0.0011	0.0018	0.0014	0.0015	0.0005	<0.0003	0.0003	<0.0003	<0.0003	<0.0003	0.0005	0.0006	0.0012	0.001	0.0005	0.0005	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Uranium, suspended	mg/l	0.0007	<0.0003	0.0014		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0.0031	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003	
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.01	0.01	<0.01	<0.01	0.02	0.01
Other																									
Laboratory conductivity	µmhos/cm	3,050	2,250	2,990	3,110	3,100	3,070	3,090	3,100	4,410	3,210	3,180	3,090	2,990	2,970	2,990	3,030	2,560	2,510	2,500	2,520	5,320	4,630	4,280	4,340
Laboratory pH	s.u.	11.0	8.9	10.2	10.3	10.1	10.3	9.7	9.5	12.2	10.1	11.5	11.3	10.2	9.6	9.5	9.5	9.5	9.4	9.3	9.3	8.9	11.7	11.3	11.3
Silica as SiO_2	mg/l				15.2				7.8				23.1				10.8				7.9				7.8
Total dissolved solids (TDS)	mg/l	1,680	1,700	1,680	1,760	1,760	1,760	1,730	1,730	3,690	1,540	1,680	1,580	1,760	1,740	1,730	1,750	1,450	1,400	1,420	1,410	3,070	2,520	2,690	2,640
TDS (calc)	mg/l	1,650	1,830	1,680	1,810	1,720	1,850	1,760	1,780	1,590	1,570	1,600	1,700	1,690	1,750	1,730	1,780	1,450	1,440	1,430	1,460	2,410	2,550	2,550	2,590
Anion sum	meq/l	29.12	32.05	29.97	30.83	31.02	31.25	31.51	30.66	28.49	26.57	28.03	29.05	29.52	28.96	30.03	30.05	25.71	25.44	25.93	25.4	38.93	38.77	38.34	40.13
Cation sum	meq/l	27.95	31.59	27.98	31.6	28.8	33.69	29.36	31.41	26.64	27.73	26.77	28.53	28.17	31.92	29.46	31.17	25.31	25.13	24.11	25.92	36.49	42.36	41.98	39.91
Total anion/cation balance	%	2.06	0.71	3.42	1.23	3.71	3.75	3.54	1.2	3.35	2.13	2.3	0.89	2.34	4.86	0.95	1.83	0.77	0.61	3.62	1.01	3.22	4.43	4.53	0.26
Radiological																									
Gross alpha	pCi/l	5.6	2.8	2.2	2.2	<2	<2	3.1	<2	3.5	<2	2.6	<2	6.6	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Gross beta	pCi/l	32.7	21.6	23.2		24.6	18.6	15		57.3	38.9	40.6		20.7	16.3	15		25.4	24.1	26.3		42	20.1	27.2	
Lead-210, dissolved	pCi/l	<1	1.2	<1		<1	<1	1.1		<1	<1	1		<1	1.1	<1		<1	1.1	<1		<1	<1	<1	
Lead-210, suspended	pCi/l	13.8	<1	<1		<1	<1	1.2		<1	<1	1.5		<1	<1	<1		<1	<1	1.2		<1	<1	<1	
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1		<1	<1	<1	
Radium-226, dissolved	pCi/l	<0.2	<0.2	<0.2	0.4	0.3	<0.2	<0.2	0.2	0.4	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	0.3	0.3	<0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2
Radium-226, suspended	pCi/l	0.3	<0.2	0.6		<0.2	<0.2	<0.2		<0.2	<0.2	0.3		0.6	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Thorium-230, suspended	pCi/l	<0.2	<0.2	0.5		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		1.3	<0.2	<0.2		<0.2	<0.2	<0.2		<0.2	<0.2	<0.2	
Radon-222	pCi/l	<100	<100	<100		151	<100	113		162	194	173		<100	<100	<100		151	<100	<100		107	347	459	

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 4. DM Water Quality Results (Cont.)

Station Name	Reporting Units	MU1-DM13				MU1-DM14				No. Outliers	N	Mean	Median	Min	Max
Sample Date		4/28/2015	5/14/2015	5/28/2015	6/11/2015	4/28/2015	5/15/2015	5/29/2015	6/12/2015						
Field Parameters															
Field conductivity	µmhos/cm	3,140	2,447	2,445	2,546	4,750	2,451	2,703	2,957	0	56	2,767	2,516	1,474	5,940
Field pH	s.u.	10.25	9.92	10	11.21	12.11	9.95	10.83	11.23	0	56	10.1	9.8	8.6	12.4
Field turbidity	NTUs	31.1	31.2	60.9	38	32	169	33.9	19.76	0	56	70.9	35	9	599
Temperature	Deg C	12.4	11.7	11.4	11.4	13.3	10.9	10	13.6	0	56	12.2	11.8	9.2	18.0
Dissolved oxygen	mg/l	4.01	8.59	4.88	7.05	4.25	4.02	5.33	4.47	0	56	4.60	4.27	1.88	9.55
ORP	millivolts	-23	14	-23	39	-49	-227	-83	24	0	56	-15	-7	-227	90
Inorganics															
Alkalinity (as $CaCO_3$)	mg/l	569	592	624	795	930	626	744	841	4	52	453.5	435	263	744
Ammonia as N	mg/l	1.2	0.9	0.7	0.9	2	1.1	1.4	1.3	3	53	1.0	0.8	0.5	2.3
Calcium	mg/l	3	4	3	3	4	4	3	4	3	53	4.2	4	2	8
Magnesium	mg/l	1	1	1	<1	<1	1	<1	1	0	56	<1	1	<1	2
Potassium	mg/l	75	88	92	149	192	62	121	156	0	56	40.6	31	5	192
Sodium	mg/l	586	653	674	668	708	649	633	644	2	54	667.0	654	530	936
Bicarbonate	mg/l	206	195	259	<5	<5	283	45	<5	0	56	238.2	253	<5	658
Carbonate	mg/l	240	259	247	441	416	237	424	466	0	56	148.1	112	24	466
Chloride	mg/l	538	562	548	547	399	447	427	412	3	53	559.2	553	260	789
Fluoride	mg/l	1.1	1.1	1.1	1.0	0.8	1.0	1.0	0.9	1	55	1.1	1.1	0.8	1.5
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0	56	<0.1	<0.1	<0.1	0.9
Sulfate	mg/l	100	109	90	91	264	277	282	272	0	56	241.4	105	5	1,050
Metals															
Aluminum, dissolved	mg/l	<0.1	<0.1	0.2	<0.1	<0.1	0.5	<0.1	<0.1	0	56	0.2	<0.1	<0.1	1.4
Arsenic, dissolved	mg/l	0.006	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1	55	<0.005	<0.005	<0.005	0.01
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	56	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.8	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0	56	0.8	0.8	0.6	1.0
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0	56	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	56	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01	0	56	<0.01	<0.01	<0.01	0.05
Iron, dissolved	mg/l	<0.05	0.1	0.14	<0.05	<0.05	0.31	0.06	<0.05	0	56	0.09	0.07	<0.05	0.31
Iron, total	mg/l	0.43	0.51	1.91		0.5	4.56	0.77		0	42	2.18	1.43	0.43	10.50
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0	56	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l				<0.02				<0.02	0	14	<0.02	<0.02	<0.02	<0.02
Manganese, total	mg/l	<0.02	<0.02	0.04		<0.02	0.1	<0.02		0	42	0.04	0.03	<0.02	0.14
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0	56	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0	56	<0.02	<0.02	<0.02	0.03
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0	56	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0	56	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003		0	42	<0.003	<0.003	<0.003	0.004
Uranium, dissolved	mg/l	0.0011	0.0008	0.0005	<0.0003	<0.0003	<0.0003	<0.0003	0.0006	2	54	0.0005	0.0003	<0.0003	0.0018
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003		<0.0003	<0.0003	<0.0003		0	42	<0.0003	<0.0003	<0.0003	0.0031
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0	56	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	0.04	<0.01	0.01	0.07	0.02	<0.01	<0.01	0	56	0.01	<0.01	<0.01	0.08
Other															
Laboratory conductivity	µmhos/cm	2,920	3,030	3,000	3,430	4,210	3,100	3,430	3,510	6	50	3,093	3,015	2,500	4,630
Laboratory pH	s.u.	10.2	10.2	10.1	11.1	11.7	10.1	10.6	11.1	0	56	9.9	9.7	8.7	12.2
Silica as SiO_2	mg/l				7.7				6.7	0	14	9.7	7.9	6.7	23.1
Total dissolved solids (TDS)	mg/l	1,700	1,640	1,750	1,820	2,340	1,860	2,000	2,010	4	52	1,793	1,730	1,400	2,690
TDS (calc)	mg/l	1,640	1,770	1,780	1,940	2,120	1,820	1,910	2,000	0	56	1,771	1,735	850	2,590
Anion sum	meq/l	28.71	30.03	29.88	33.26	35.38	30.95	32.86	34.16	0	56	29.76	29.55	13.92	40.13
Cation sum	meq/l	27.68	31.01	31.98	33.08	36.03	30.23	30.9	32.4	0	56	30.03	29.52	15.16	42.36
Total anion/cation balance	%	1.81	1.6	3.38	0.28	0.9	1.18	3.07	2.64	0	56	2.02	1.82	0.10	4.86
Radiological															
Gross alpha	pCi/l	2.3	<2	<2	3.5	<2	<2	3.6	<2	0	56	<2	<2	<2	7.7
Gross beta	pCi/l	56.6	82.8	67.1		165	39.8	96.1		0	42	27.8	19.4	<3	165
Lead-210, dissolved	pCi/l	<1	<1	1.1		<1	1.8	<1		0	42	<1	<1	<1	1.8
Lead-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		0	42	1.3	<1	<1	15.4
Polonium-210, dissolved	pCi/l	<1	<1	<1		<1	<1	<1		0	42	<1	<1	<1	<1
Polonium-210, suspended	pCi/l	<1	<1	<1		<1	<1	<1		0	42	<1	<1	<1	<1
Radium-226, dissolved	pCi/l	0.4	0.4	0.3	<0.2	0.3	0.2	<0.2	0.3	2	54	<0.2	<0.2	<0.2	0.4
Radium-226, suspended	pCi/l	<0.2	<0.2	0.5		0.3	<0.2	0.3		0	42	<0.2	<0.2	<0.2	0.6
Radium-228, dissolved	pCi/l	<1	1.1	<1	<1	<1	<1	<1	<1	0	56	<1	<1	<1	1.3
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		0	42	<0.2	<0.2	<0.2	<0.2
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2		<0.2	<0.2	<0.2		0	42	<0.2	<0.2	<0.2	2.2
Radon-222	pCi/l	155	118	185		<100	201	<100		2	40	128.6	105	<100	459

Outlier removed from data set

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

Table 5. SA Water Quality Results

Station Name	Reporting Units	MU1-SA1		MU1-SA2		MU1-SA3		N	Mean	Median	Min	Max
Sample Date		**3/31/2015**	**5/20/2015**	**4/29/2015**	**5/20/2015**	**3/31/2015**	**5/20/2015**					
Field Parameters												
Depth to water	ft	5.06				6.01		2	5.54	5.54	5.06	6.01
Field conductivity	µmhos/cm	7,250	7,770	1,305	1,535	1,650	1,659	6	3,528	1,655	1,305	7,770
Field pH	s.u.	8.36	8.12	9.26	8.31	8.08	7.93	6	8.34	8.22	7.93	9.26
Field turbidity	NTUs	952	175	14.3	83.7	930	269	6	404.0	222.0	14.3	952.0
Temperature	Deg C	6.4	10.2	12.9	12.4	7.5	8.7	6	9.7	9.5	6.4	12.9
Dissolved oxygen	mg/l	3.96	2.13	2.58	2.28	3.5	1.81	6	2.71	2.43	1.81	3.96
ORP	millivolts	-148	144		87	-33	97	5	29	87	-148	144
Inorganics												
Alkalinity (as $CaCO_3$)	mg/l	1,140	1,110	620	754	672	819	6	853	787	620	1,140
Ammonia as N	mg/l	<0.1	0.1	<0.1	0.2	<0.1	<0.1	6	<0.1	<0.1	<0.1	0.2
Calcium	mg/l	56	45	7	8	41	41	6	33.0	41.0	7	56
Magnesium	mg/l	63	59	5	6	19	40	6	32.0	29.5	5	63
Potassium	mg/l	7	8	6	4	4	2	6	5.2	5.0	2	8
Sodium	mg/l	1,660	1,660	328	394	318	355	6	786	375	318	1,660
Bicarbonate	mg/l	1,310	1,240	607	868	762	977	6	961	923	607	1,310
Carbonate	mg/l	42	55	73	25	29	11	6	39	36	11	73
Chloride	mg/l	2	3	4	3	14	10	6	6	4	2	14
Fluoride	mg/l	0.2	0.2	0.6	0.6	0.4	0.3	6	0.4	0.4	0.2	0.6
Nitrate/Nitrite as N	mg/l	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	6	0.1	<0.1	<0.1	0.4
Sulfate	mg/l	2,910	2,420	94	117	239	131	6	985	185	94	2,910
Metals												
Aluminum, dissolved	mg/l	0.5	<0.1	0.2	0.2	0.2	0.2	6	0.2	0.2	<0.1	0.5
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	0.3	0.3	0.2	0.3	<0.1	<0.1	6	0.2	0.3	<0.1	0.3
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	6	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	6	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	6	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	0.2	<0.05	0.22	0.2	0.11	0.17	6	0.15	0.19	<0.05	0.22
Iron, total	mg/l	54.2	205	0.47	1.94	33	12.8	6	51.2	22.9	0.5	205
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	6	<0.02	<0.02	<0.02	<0.02
Manganese, total	mg/l	1.08	2.78	0.08	0.24	1.52	0.97	6	1.11	1.03	0.08	2.78
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	6	<0.02	<0.02	<0.02	0.03
Nickel, dissolved	mg/l	0.02	0.02	0.03	<0.01	<0.01	0.06	6	0.02	0.02	<0.01	0.06
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	6	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	6	<0.003	<0.003	<0.003	<0.003
Uranium, dissolved	mg/l	0.118	0.175	0.006	0.0037	0.0115	0.0081	6	0.0537	0.0098	0.0037	0.175
Uranium, suspended	mg/l	0.0014	0.0713	<0.0003	0.0005	0.0003	0.0014	6	0.0125	0.0010	<0.0003	0.0713
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	6	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	0.1	<0.01	<0.01	<0.01	<0.01	<0.01	6	0.02	<0.01	<0.01	0.10
Other												
Laboratory conductivity	µmhos/cm	7,130	5,880	1,360	1,460	1,670	1,680	6	3,197	1,675	1,360	7,130
Laboratory pH	s.u.	8.5	8.6	9.2	8.6	8.6	8.3	6	8.6	8.6	8.3	9.2
Total Dissolved Solids (TDS)	mg/l	5,760	5,080	890	1,000	1,160	1,080	6	2,495	1,120	890	5,760
TDS (calc)	mg/l	5,390	4,860	820	980	1,040	1,070	6	2,360	1,055	820	5,390
Anion sum	meq/l	83.55	72.61	14.49	17.62	18.86	19.39	6	37.75	19.13	14.49	83.55
Cation sum	meq/l	80.4	79.56	15.18	18.17	17.59	20.86	6	38.63	19.52	15.18	80.4
Total anion/cation balance	%	1.92	4.56	2.32	1.52	3.46	3.64	6	2.90	2.89	1.52	4.56
Radiological												
Gross alpha	pCi/l	36.2	103	<2	5.3	8.9	7.4	6	27.0	8.2	<2	103
Gross beta	pCi/l	48.3	20.3	5	7.9	4.4	<3	6	14.6	6.5	<3	48.3
Lead-210, dissolved	pCi/l	3.2	4.6	<1	1.1	3.4	1.9	6	2.5	2.6	<1	4.6
Lead-210, suspended	pCi/l	<1	9.7	1.2	<1	<1	2.8	6	2.5	<1	<1	9.7
Polonium-210, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	6	<1	<1	<1	<1
Polonium-210, suspended	pCi/l	<1	1.3	<1	<1	<1	1	6	<1	<1	<1	1
Radium-226, dissolved	pCi/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	6	<0.2	<0.2	<0.2	<0.2
Radium-226, suspended	pCi/l	0.4	6.5	0.2	0.3	0.2	1	6	1.4	0.4	0.2	6.5
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	6	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	6	<0.2	<0.2	<0.2	<0.2
Thorium-230, suspended	pCi/l	<0.2	11.7	0.2	<0.2	<0.2	0.6	6	2.1	<0.2	<0.2	11.7
Radon-222	pCi/l	327	330	<100	193	1,230	1,410	6	590	329	<100	1,410

Note: one-half of the detection limit was used to calculate mean and median for concentrations reported as less than the detection limit

ATTACHMENT 8

MU1 Lab Reports

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-002
ClientSample ID: OZ1
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 3:22:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.71	s.u.			Field	04/22/2015 1522	
Conductivity	2680	µmhos/cm			Field	04/22/2015 1522	
Dissolved Oxygen	2.51	mg/L			Field	04/22/2015 1522	
Dissolved Oxygen (pct)	23.2	%			Field	04/22/2015 1522	
Turbidity	1.41	NTU			Field	04/22/2015 1522	
Temperature	11.7	℃			Field	04/22/2015 1522	
Oxygen Reduction Potential (ORP)	-148	mV			Field	04/22/2015 1522	
Anions/Cations							
Alkalinity, Total (As CaCO3)	533	mg/L		5	SM 2320B	04/25/2015 1621	BT
Alkalinity, Bicarbonate as HCO3	586	mg/L		5	SM 2320B	04/25/2015 1621	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	04/25/2015 1621	BT
Chloride	7	mg/L		1	EPA 300.0	04/25/2015 1405	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	04/25/2015 1621	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1030	AMB
Sulfate	675	mg/L		1	EPA 300.0	04/25/2015 1405	AB
Calcium	7	mg/L		1	EPA 200.7	04/24/2015 1857	DG
Magnesium	3	mg/L		1	EPA 200.7	04/24/2015 1857	DG
Potassium	8	mg/L		1	EPA 200.7	04/24/2015 1857	DG
Sodium	607	mg/L		1	EPA 200.7	04/24/2015 1857	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/04/2015 1503	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/25/2015 1621	BT
Electrical Conductivity	2710	µmhos/cm		5	SM 2510B	04/25/2015 1621	BT
Total Dissolved Solids (180)	1680	mg/L		10	SM 2540	04/24/2015 1458	IR
Data Quality							
Cation Sum	27.21	meq/L		0.01	SM 1030E	05/08/2015 1108	JJ
Anion Sum	24.91	meq/L		0.01	SM 1030E	05/08/2015 1108	JJ
Cation-Anion Balance (± 5%)	4.41	%		0.01	SM 1030E	05/08/2015 1108	JJ
Solids, Total Dissolved (Calc)	1630	mg/L		10	SM 1030E	05/08/2015 1108	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-002
ClientSample ID: OZ1
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 3:22:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 1857	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1642	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1642	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/24/2015 1857	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1642	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 1857	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1642	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 1857	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1642	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/28/2015 1334	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1642	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 1857	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1642	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1642	MS
Uranium	0.0849	mg/L		0.0003	EPA 200.8	04/27/2015 1642	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1642	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 1857	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	04/27/2015 2205	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	04/30/2015 1328	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/30/2015 1328	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-002
ClientSample ID: OZ1
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 3:22:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	218	pCi/L		2	SM 7110B	05/01/2015 1817	MB
Gross Alpha Precision (±)	14.4	pCi/L			SM 7110B	05/01/2015 1817	MB
Gross Beta	106	pCi/L		3	SM 7110B	05/01/2015 1817	MB
Gross Beta Precision (±)	8.8	pCi/L			SM 7110B	05/01/2015 1817	MB
Lead 210	13.4	pCi/L		1	OTW01	05/05/2015 1514	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	05/05/2015 1514	MB
Polonium 210	11.2	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	1.2	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	48.6	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 952	MB
Radium 226 Precision (±)	0.8	pCi/L			SM 7500 Ra-B	05/04/2015 952	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/06/2015 1011	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/06/2015 1011	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 1223	MB
Radionuclides - Suspended							
Lead 210	7.6	pCi/L		1	OTW01	05/06/2015 1349	MB
Lead 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	05/06/2015 1349	MB
Polonium 210	62.3	pCi/L		1	OTW01	05/06/2015 1703	MB
Polonium 210 (Suspended) Precision (±)	2.7	pCi/L			OTW01	05/06/2015 1703	MB
Radium 226	1.5	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	75700	pCi/L		100	ASTM D5072-09	04/24/2015 2323	MB
Radon-222 Precision (±)	288	pCi/L			ASTM D5072-09	04/24/2015 2323	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-002
ClientSample ID: MU1-OZ-2
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 1:42:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.41	s.u.			Field	04/29/2015 1342	
Conductivity	1924	µmhos/cm			Field	04/29/2015 1342	
Dissolved Oxygen	2.47	mg/L			Field	04/29/2015 1342	
Turbidity	1.09	NTU			Field	04/29/2015 1342	
Depth to Water	114.98	ft			Field	04/29/2015 1342	
Temperature	12.4	℃			Field	04/29/2015 1342	
Oxygen Reduction Potential (ORP)	-53.2	mV			Field	04/29/2015 1342	
Anions/Cations							
Alkalinity, Total (As CaCO3)	546	mg/L		5	SM 2320B	05/01/2015 2321	BT
Alkalinity, Bicarbonate as HCO3	594	mg/L		5	SM 2320B	05/01/2015 2321	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/01/2015 2321	BT
Chloride	5	mg/L		1	EPA 300.0	05/01/2015 1948	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/01/2015 2321	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1430	AMB
Sulfate	573	mg/L		1	EPA 300.0	05/01/2015 1948	AB
Calcium	6	mg/L		1	EPA 200.7	04/30/2015 1949	DG
Magnesium	2	mg/L		1	EPA 200.7	04/30/2015 1949	DG
Potassium	6	mg/L		1	EPA 200.7	04/30/2015 1949	DG
Sodium	540	mg/L		1	EPA 200.7	04/30/2015 1949	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/06/2015 1144	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/01/2015 2321	BT
Electrical Conductivity	2230	µmhos/cm		5	SM 2510B	05/01/2015 2321	BT
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	04/30/2015 1031	IR
Data Quality							
Cation Sum	24.17	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	23.01	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	2.46	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1460	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-002
ClientSample ID: MU1-OZ-2
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 1:42:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1949	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 1836	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1836	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/30/2015 1949	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1836	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1949	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 1836	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1949	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1836	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1049	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1836	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1949	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1836	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1836	MS
Uranium	0.0638	mg/L		0.0003	EPA 200.8	04/30/2015 1836	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1836	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1949	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 437	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 941	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 941	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-002
ClientSample ID: MU1-OZ-2
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 1:42:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	99.8	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	7.6	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	30.0	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	3.5	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	1.4	pCi/L		1	OTW01	05/18/2015 1741	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/18/2015 1741	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1045	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1045	MB
Radium 226	12.4	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1716	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	05/11/2015 1716	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/22/2015 245	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/22/2015 245	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 815	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 815	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/20/2015 216	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/20/2015 216	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1756	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1756	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1701	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1701	MB
Radionuclides - Total							
Radon 222	14600	pCi/L		100	ASTM D5072-09	05/01/2015 1849	MB
Radon-222 Precision (±)	124	pCi/L			ASTM D5072-09	05/01/2015 1849	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-004
ClientSample ID: OZ-3
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 12:45:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.79	s.u.			Field	04/21/2015 1245	
Conductivity	3480	µmhos/cm			Field	04/21/2015 1245	
Dissolved Oxygen	2.90	mg/L			Field	04/21/2015 1245	
Dissolved Oxygen (pct)	20.8	%			Field	04/21/2015 1245	
Turbidity	1.97	NTU			Field	04/21/2015 1245	
Temperature	12.4	℃			Field	04/21/2015 1245	
Oxygen Reduction Potential (ORP)	-192	mV			Field	04/21/2015 1245	
Anions/Cations							
Alkalinity, Total (As CaCO3)	461	mg/L		5	SM 2320B	04/23/2015 2344	BT
Alkalinity, Bicarbonate as HCO3	492	mg/L		5	SM 2320B	04/23/2015 2344	BT
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	04/23/2015 2344	BT
Chloride	13	mg/L		1	EPA 300.0	04/24/2015 516	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/23/2015 2344	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1537	AMB
Sulfate	1120	mg/L		1	EPA 300.0	04/24/2015 516	AB
Calcium	8	mg/L		1	EPA 200.7	04/24/2015 035	DG
Magnesium	3	mg/L		1	EPA 200.7	04/24/2015 035	DG
Potassium	9	mg/L		1	EPA 200.7	04/24/2015 035	DG
Sodium	805	mg/L		1	EPA 200.7	04/24/2015 035	DG
Nitrogen, Ammonia (As N)	0.8	mg/L		0.1	EPA 350.1	05/04/2015 1350	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/23/2015 2344	BT
Electrical Conductivity	3370	µmhos/cm		5	SM 2510B	04/23/2015 2344	BT
Total Dissolved Solids (180)	2320	mg/L		10	SM 2540	04/23/2015 1217	IR
Data Quality							
Cation Sum	35.97	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Anion Sum	32.94	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Cation-Anion Balance (± 5%)	4.39	%		0.01	SM 1030E	05/12/2015 1148	WN
Solids, Total Dissolved (Calc)	2240	mg/L		10	SM 1030E	05/12/2015 1148	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-004
ClientSample ID: OZ-3
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 12:45:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 035	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/24/2015 110	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 110	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/24/2015 035	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 110	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 035	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 110	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 035	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 110	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1330	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 110	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 035	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 110	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 110	MS
Uranium	0.0573	mg/L		0.0003	EPA 200.8	04/24/2015 110	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 110	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 035	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	04/24/2015 2336	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	04/27/2015 2040	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/27/2015 2040	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-004
ClientSample ID: OZ-3
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 12:45:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	73.1	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	9.0	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	24.0	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	ND	pCi/L		1	OTW01	05/05/2015 1301	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/05/2015 1301	MB
Polonium 210	ND	pCi/L		1	OTW01	05/04/2015 1730	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 1730	MB
Radium 226	3.3	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/05/2015 1907	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/05/2015 1907	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 813	MB
Radionuclides - Suspended							
Lead 210	1.7	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/07/2015 810	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/07/2015 810	MB
Radionuclides - Total							
Radon 222	5490	pCi/L		100	ASTM D5072-09	04/23/2015 2239	MB
Radon-222 Precision (±)	76.8	pCi/L			ASTM D5072-09	04/23/2015 2239	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-002
ClientSample ID: OZ4
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 9:15:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.73	s.u.			Field	04/22/2015 915	
Conductivity	2390	µmhos/cm			Field	04/22/2015 915	
Dissolved Oxygen	1.69	mg/L			Field	04/22/2015 915	
Dissolved Oxygen (pct)	15.4	%			Field	04/22/2015 915	
Turbidity	2.34	NTU			Field	04/22/2015 915	
Temperature	11.9	℃			Field	04/22/2015 915	
Oxygen Reduction Potential (ORP)	+143	mV			Field	04/22/2015 915	
Anions/Cations							
Alkalinity, Total (As CaCO3)	527	mg/L		5	SM 2320B	04/25/2015 1659	BT
Alkalinity, Bicarbonate as HCO3	572	mg/L		5	SM 2320B	04/25/2015 1659	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/25/2015 1659	BT
Chloride	5	mg/L		1	EPA 300.0	04/25/2015 1527	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/25/2015 1659	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1043	AMB
Sulfate	592	mg/L		1	EPA 300.0	04/25/2015 1527	AB
Calcium	7	mg/L		1	EPA 200.7	04/24/2015 1904	DG
Magnesium	3	mg/L		1	EPA 200.7	04/24/2015 1904	DG
Potassium	6	mg/L		1	EPA 200.7	04/24/2015 1904	DG
Sodium	544	mg/L		1	EPA 200.7	04/24/2015 1904	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/04/2015 1515	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/25/2015 1659	BT
Electrical Conductivity	2350	µmhos/cm		5	SM 2510B	04/25/2015 1659	BT
Total Dissolved Solids (180)	1520	mg/L		10	SM 2540	04/24/2015 1501	IR
Data Quality							
Cation Sum	24.43	meq/L		0.01	SM 1030E	05/06/2015 751	JJ
Anion Sum	23.02	meq/L		0.01	SM 1030E	05/06/2015 751	JJ
Cation-Anion Balance (± 5%)	2.96	%		0.01	SM 1030E	05/06/2015 751	JJ
Solids, Total Dissolved (Calc)	1470	mg/L		10	SM 1030E	05/06/2015 751	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-002
ClientSample ID: OZ4
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 9:15:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 1904	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/24/2015 1814	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 1814	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/24/2015 1904	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 1814	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 1904	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 1814	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 1904	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 1814	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/28/2015 1347	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 1814	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 1904	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 1814	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 1814	MS
Uranium	0.0880	mg/L		0.0003	EPA 200.8	04/24/2015 1814	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 1814	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 1904	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2221	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	04/30/2015 1346	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/30/2015 1346	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-002
ClientSample ID: OZ4
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 9:15:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	108	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	8.4	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	26.6	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	3.7	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	5.7	pCi/L		1	OTW01	05/05/2015 1515	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	05/05/2015 1515	MB
Polonium 210	4.0	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	2.0	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/06/2015 1914	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/06/2015 1914	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 1223	MB
Radionuclides - Suspended							
Lead 210	2.3	pCi/L		1	OTW01	05/06/2015 1349	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/06/2015 1349	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1703	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1703	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	19800	pCi/L		100	ASTM D5072-09	04/25/2015 257	MB
Radon-222 Precision (±)	150	pCi/L			ASTM D5072-09	04/25/2015 257	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-005
ClientSample ID: MUI-OZ6
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:40:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.06	s.u.			Field	04/20/2015 1340	
Conductivity	3730	µmhos/cm			Field	04/20/2015 1340	
Dissolved Oxygen	1.47	mg/L			Field	04/20/2015 1340	
Dissolved Oxygen (pct)	13.6	%			Field	04/20/2015 1340	
Turbidity	0.56	NTU			Field	04/20/2015 1340	
Temperature	11.9	℃			Field	04/20/2015 1340	
Oxygen Reduction Potential (ORP)	-53	mV			Field	04/20/2015 1340	
Anions/Cations							
Alkalinity, Total (As CaCO3)	413	mg/L		5	SM 2320B	04/23/2015 1443	BT
Alkalinity, Bicarbonate as HCO3	397	mg/L		5	SM 2320B	04/23/2015 1443	BT
Alkalinity, Carbonate as CO3	52	mg/L		5	SM 2320B	04/23/2015 1443	BT
Chloride	15	mg/L		1	EPA 300.0	04/24/2015 055	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/23/2015 1443	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/24/2015 1504	AMB
Sulfate	1290	mg/L		1	EPA 300.0	04/24/2015 055	AB
Calcium	6	mg/L		1	EPA 200.7	04/23/2015 2125	DG
Magnesium	3	mg/L		1	EPA 200.7	04/23/2015 2125	DG
Potassium	13	mg/L		1	EPA 200.7	04/23/2015 2125	DG
Sodium	844	mg/L		1	EPA 200.7	04/23/2015 2125	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	04/24/2015 1628	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	04/23/2015 1443	BT
Electrical Conductivity	3570	µmhos/cm		5	SM 2510B	04/23/2015 1443	BT
Total Dissolved Solids (180)	2520	mg/L		10	SM 2540	04/22/2015 1453	IR
Data Quality							
Cation Sum	37.61	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Anion Sum	35.50	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Cation-Anion Balance (± 5%)	2.87	%		0.01	SM 1030E	04/29/2015 1125	JJ
Solids, Total Dissolved (Calc)	2420	mg/L		10	SM 1030E	04/29/2015 1125	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-005
ClientSample ID: MUI-OZ6
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:40:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/23/2015 2125	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/23/2015 1808	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/23/2015 1808	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/23/2015 2125	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/23/2015 1808	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/23/2015 2125	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/23/2015 1808	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/23/2015 2125	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/23/2015 1808	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1146	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/23/2015 1808	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/23/2015 2125	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/23/2015 1808	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/23/2015 1808	MS
Uranium	0.180	mg/L		0.0003	EPA 200.8	04/23/2015 1808	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/23/2015 1808	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/23/2015 2125	DG
Metals - Suspended							
Uranium	0.0008	mg/L		0.0003	EPA 200.8	04/24/2015 2257	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 217	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/24/2015 217	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-005
ClientSample ID: MUI-OZ6
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:40:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	217	pCi/L		2	SM 7110B	04/30/2015 1733	MB
Gross Alpha Precision (±)	15.9	pCi/L			SM 7110B	04/30/2015 1733	MB
Gross Beta	101	pCi/L		3	SM 7110B	04/30/2015 1733	MB
Gross Beta Precision (±)	9.0	pCi/L			SM 7110B	04/30/2015 1733	MB
Lead 210	1.8	pCi/L		1	OTW01	05/04/2015 912	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/04/2015 912	MB
Polonium 210	ND	pCi/L		1	OTW01	04/29/2015 1036	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	04/29/2015 1036	MB
Radium 226	50.4	pCi/L		0.2	SM 7500 Ra-B	04/29/2015 1214	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	04/29/2015 1214	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/05/2015 402	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/05/2015 402	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 813	MB
Radionuclides - Suspended							
Lead 210	5.7	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	3.4	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1730	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1730	MB
Radionuclides - Total							
Radon 222	68100	pCi/L		100	ASTM D5072-09	04/22/2015 2345	MB
Radon-222 Precision (±)	273	pCi/L			ASTM D5072-09	04/22/2015 2345	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-013
ClientSample ID: MU1-OZ7
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 5:10:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.3	s.u.			Field	04/28/2015 1710	
Conductivity	2356	µmhos/cm			Field	04/28/2015 1710	
Dissolved Oxygen	1.48	mg/L			Field	04/28/2015 1710	
Turbidity	3.6	NTU			Field	04/28/2015 1710	
Depth to Water	101.90	ft			Field	04/28/2015 1710	
Temperature	11.6	℃			Field	04/28/2015 1710	
Oxygen Reduction Potential (ORP)	-109.4	mV			Field	04/28/2015 1710	
Anions/Cations							
Alkalinity, Total (As CaCO3)	516	mg/L		5	SM 2320B	04/29/2015 1753	BT
Alkalinity, Bicarbonate as HCO3	573	mg/L		5	SM 2320B	04/29/2015 1753	BT
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	04/29/2015 1753	BT
Chloride	12	mg/L		1	EPA 300.0	04/29/2015 2211	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/29/2015 1753	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1339	AMB
Sulfate	1000	mg/L		1	EPA 300.0	04/29/2015 2211	AB
Calcium	10	mg/L		1	EPA 200.7	04/29/2015 1629	DG
Magnesium	4	mg/L		1	EPA 200.7	04/29/2015 1629	DG
Potassium	8	mg/L		1	EPA 200.7	04/29/2015 1629	DG
Sodium	694	mg/L		1	EPA 200.7	04/29/2015 1629	DG
Nitrogen, Ammonia (As N)	0.8	mg/L		0.1	EPA 350.1	05/05/2015 1131	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 1753	BT
Electrical Conductivity	2840	µmhos/cm		5	SM 2510B	04/29/2015 1753	BT
Total Dissolved Solids (180)	2000	mg/L		10	SM 2540	04/29/2015 1422	IR
Data Quality							
Cation Sum	31.27	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	31.48	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.34	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	2040	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-013
ClientSample ID: MU1-OZ7
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 5:10:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1629	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1630	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1630	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/29/2015 1629	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1630	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1629	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1630	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1629	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1630	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 942	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1630	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1629	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1630	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1630	MS
Uranium	0.150	mg/L		0.0003	EPA 200.8	04/29/2015 1630	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1630	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1629	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 136	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/01/2015 712	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 712	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-013
ClientSample ID: MU1-OZ7
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 5:10:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	388	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	18.5	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	173	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	9.8	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	15.1	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	8.4	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	1.2	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	79.6	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	1.1	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	1.0	pCi/L		1	Ga-Tech	05/18/2015 1436	MB
Radium 228 Precision (±)	1.3	pCi/L			Ga-Tech	05/18/2015 1436	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 842	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 842	MB
Radionuclides - Suspended							
Lead 210	7.5	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	8.3	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	4.1	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1239	MB
Radionuclides - Total							
Radon 222	119000	pCi/L		100	ASTM D5072-09	04/30/2015 008	MB
Radon-222 Precision (±)	322	pCi/L			ASTM D5072-09	04/30/2015 008	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-003
ClientSample ID: OZ8
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 10:20:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.73	s.u.			Field	04/22/2015 1020	
Conductivity	2260	µmhos/cm			Field	04/22/2015 1020	
Dissolved Oxygen	1.79	mg/L			Field	04/22/2015 1020	
Dissolved Oxygen (pct)	17.0	%			Field	04/22/2015 1020	
Turbidity	2.63	NTU			Field	04/22/2015 1020	
Temperature	11.9	℃			Field	04/22/2015 1020	
Oxygen Reduction Potential (ORP)	+143	mV			Field	04/22/2015 1020	
Anions/Cations							
Alkalinity, Total (As CaCO3)	549	mg/L		5	SM 2320B	04/25/2015 1712	BT
Alkalinity, Bicarbonate as HCO3	598	mg/L		5	SM 2320B	04/25/2015 1712	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/25/2015 1712	BT
Chloride	5	mg/L		1	EPA 300.0	04/25/2015 1540	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/25/2015 1712	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1045	AMB
Sulfate	517	mg/L		1	EPA 300.0	04/25/2015 1540	AB
Calcium	5	mg/L		1	EPA 200.7	04/24/2015 1906	DG
Magnesium	2	mg/L		1	EPA 200.7	04/24/2015 1906	DG
Potassium	5	mg/L		1	EPA 200.7	04/24/2015 1906	DG
Sodium	517	mg/L		1	EPA 200.7	04/24/2015 1906	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/04/2015 1517	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/25/2015 1712	BT
Electrical Conductivity	2190	µmhos/cm		5	SM 2510B	04/25/2015 1712	BT
Total Dissolved Solids (180)	1440	mg/L		10	SM 2540	04/24/2015 1502	IR
Data Quality							
Cation Sum	23.07	meq/L		0.01	SM 1030E	05/06/2015 751	JJ
Anion Sum	21.90	meq/L		0.01	SM 1030E	05/06/2015 751	JJ
Cation-Anion Balance (± 5%)	2.60	%		0.01	SM 1030E	05/06/2015 751	JJ
Solids, Total Dissolved (Calc)	1380	mg/L		10	SM 1030E	05/06/2015 751	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-003
ClientSample ID: OZ8
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 10:20:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 1906	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/24/2015 1820	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 1820	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/24/2015 1906	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 1820	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 1906	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 1820	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 1906	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 1820	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/28/2015 1349	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 1820	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 1906	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 1820	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 1820	MS
Uranium	0.157	mg/L		0.0003	EPA 200.8	04/24/2015 1820	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 1820	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 1906	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2227	MS
Metals - Total							
Iron	0.09	mg/L		0.05	EPA 200.7	04/30/2015 1348	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/30/2015 1348	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-003
ClientSample ID: OZ8
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 10:20:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	198	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	11.1	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	60.0	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	4.8	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	10.1	pCi/L		1	OTW01	05/05/2015 1515	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	05/05/2015 1515	MB
Polonium 210	20.2	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	12.0	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	1.0	pCi/L		1	Ga-Tech	05/06/2015 2215	MB
Radium 228 Precision (±)	1.1	pCi/L			Ga-Tech	05/06/2015 2215	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 802	MB
Radionuclides - Suspended							
Lead 210	2.7	pCi/L		1	OTW01	05/11/2015 1311	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/11/2015 1311	MB
Polonium 210	11.4	pCi/L		1	OTW01	05/08/2015 1604	MB
Polonium 210 (Suspended) Precision (±)	1.1	pCi/L			OTW01	05/08/2015 1604	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	43800	pCi/L		100	ASTM D5072-09	04/25/2015 408	MB
Radon-222 Precision (±)	223	pCi/L			ASTM D5072-09	04/25/2015 408	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-012
ClientSample ID: OZ 9
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 1:10:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.12	s.u.			Field	04/24/2015 1310	
Conductivity	2410	µmhos/cm			Field	04/24/2015 1310	
Dissolved Oxygen	1.82	mg/L			Field	04/24/2015 1310	
Dissolved Oxygen (pct)	16.7	%			Field	04/24/2015 1310	
Turbidity	1.46	NTU			Field	04/24/2015 1310	
Temperature	12.1	℃			Field	04/24/2015 1310	
Oxygen Reduction Potential (ORP)	+81	mV			Field	04/24/2015 1310	
Anions/Cations							
Alkalinity, Total (As CaCO3)	545	mg/L		5	SM 2320B	04/28/2015 1757	BT
Alkalinity, Bicarbonate as HCO3	539	mg/L		5	SM 2320B	04/28/2015 1757	BT
Alkalinity, Carbonate as CO3	62	mg/L		5	SM 2320B	04/28/2015 1757	BT
Chloride	5	mg/L		1	EPA 300.0	04/27/2015 1951	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/28/2015 1757	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1423	AMB
Sulfate	564	mg/L		1	EPA 300.0	04/27/2015 1951	AB
Calcium	5	mg/L		1	EPA 200.7	04/27/2015 1932	DG
Magnesium	1	mg/L		1	EPA 200.7	04/27/2015 1932	DG
Potassium	11	mg/L		1	EPA 200.7	04/27/2015 1932	DG
Sodium	515	mg/L		1	EPA 200.7	04/27/2015 1932	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/01/2015 1620	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	04/28/2015 1757	BT
Electrical Conductivity	2220	µmhos/cm		5	SM 2510B	04/28/2015 1757	BT
Total Dissolved Solids (180)	1730	mg/L		10	SM 2540	04/27/2015 1437	IR
Data Quality							
Cation Sum	23.04	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	22.80	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.52	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1430	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-012
ClientSample ID: OZ 9
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 1:10:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1932	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1827	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1827	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/27/2015 1932	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1827	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1932	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1827	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1932	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1827	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1153	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1827	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1932	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1827	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1827	MS
Uranium	0.0812	mg/L		0.0003	EPA 200.8	04/27/2015 1827	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1827	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1932	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/28/2015 001	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 533	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 533	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-012
ClientSample ID: OZ 9
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 1:10:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	177	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	10.3	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	63.1	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	4.4	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	12.3	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	57.4	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	2.7	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	26.3	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 314	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 314	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1214	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1214	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	1.9	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 1324	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 1324	MB
Radionuclides - Total							
Radon 222	87700	pCi/L		100	ASTM D5072-09	04/25/2015 1822	MB
Radon-222 Precision (±)	281	pCi/L			ASTM D5072-09	04/25/2015 1822	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-005
ClientSample ID: MU1 OZ10
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 12:30:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.82	s.u.			Field	04/23/2015 1230	
Conductivity	2800	µmhos/cm			Field	04/23/2015 1230	
Dissolved Oxygen	2.62	mg/L			Field	04/23/2015 1230	
Dissolved Oxygen (pct)	25.2	%			Field	04/23/2015 1230	
Turbidity	1.69	NTU			Field	04/23/2015 1230	
Temperature	12.6	℃			Field	04/23/2015 1230	
Oxygen Reduction Potential (ORP)	+116	mV			Field	04/23/2015 1230	
Anions/Cations							
Alkalinity, Total (As CaCO3)	528	mg/L		5	SM 2320B	04/28/2015 1553	BT
Alkalinity, Bicarbonate as HCO3	573	mg/L		5	SM 2320B	04/28/2015 1553	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/28/2015 1553	BT
Chloride	8	mg/L		1	EPA 300.0	04/27/2015 1816	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/28/2015 1553	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1413	AMB
Sulfate	725	mg/L		1	EPA 300.0	04/27/2015 1816	AB
Calcium	5	mg/L		1	EPA 200.7	04/27/2015 1903	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1903	DG
Potassium	9	mg/L		1	EPA 200.7	04/27/2015 1903	DG
Sodium	598	mg/L		1	EPA 200.7	04/27/2015 1903	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	04/28/2015 1601	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/28/2015 1553	BT
Electrical Conductivity	2620	µmhos/cm		5	SM 2510B	04/28/2015 1553	BT
Total Dissolved Solids (180)	1600	mg/L		10	SM 2540	04/27/2015 1429	IR
Data Quality							
Cation Sum	26.67	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	25.92	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	1.44	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1660	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-005
ClientSample ID: MU1 OZ10
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 12:30:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1903	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1748	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1748	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/27/2015 1903	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1748	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1903	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1748	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1903	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1748	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1126	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1748	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1903	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1748	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1748	MS
Uranium	0.0301	mg/L		0.0003	EPA 200.8	04/27/2015 1748	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1748	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1903	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2255	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 507	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 507	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-005
ClientSample ID: MU1 OZ10
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 12:30:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	35.6	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	5.7	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	64.4	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	7.0	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	1.2	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 607	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 607	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 802	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1311	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1311	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1604	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1604	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 921	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 921	MB
Radionuclides - Total							
Radon 222	3540	pCi/L		100	ASTM D5072-09	04/25/2015 1004	MB
Radon-222 Precision (±)	58.3	pCi/L			ASTM D5072-09	04/25/2015 1004	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-019
ClientSample ID: MU1-OZ-11
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 2:45:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.5	s.u.			Field	04/29/2015 1445	
Conductivity	2640	µmhos/cm			Field	04/29/2015 1445	
Dissolved Oxygen	1.29	mg/L			Field	04/29/2015 1445	
Turbidity	3.37	NTU			Field	04/29/2015 1445	
Depth to Water	109.07	ft			Field	04/29/2015 1445	
Temperature	13.2	℃			Field	04/29/2015 1445	
Oxygen Reduction Potential (ORP)	-160	mV			Field	04/29/2015 1445	
Anions/Cations							
Alkalinity, Total (As CaCO3)	542	mg/L		5	SM 2320B	05/02/2015 403	BT
Alkalinity, Bicarbonate as HCO3	558	mg/L		5	SM 2320B	05/02/2015 403	BT
Alkalinity, Carbonate as CO3	51	mg/L		5	SM 2320B	05/02/2015 403	BT
Chloride	9	mg/L		1	EPA 300.0	05/02/2015 209	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/02/2015 403	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1525	AMB
Sulfate	795	mg/L		1	EPA 300.0	05/02/2015 209	AB
Calcium	9	mg/L		1	EPA 200.7	04/30/2015 2055	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 2055	DG
Potassium	6	mg/L		1	EPA 200.7	04/30/2015 2055	DG
Sodium	645	mg/L		1	EPA 200.7	04/30/2015 2055	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/06/2015 1228	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/02/2015 403	BT
Electrical Conductivity	2790	µmhos/cm		5	SM 2510B	05/02/2015 403	BT
Total Dissolved Solids (180)	1880	mg/L		10	SM 2540	04/30/2015 1050	IR
Data Quality							
Cation Sum	28.96	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	27.65	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	2.32	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1790	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-019
ClientSample ID: MU1-OZ-11
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 2:45:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2055	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 2100	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2100	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/30/2015 2055	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2100	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2055	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2100	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2055	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2100	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1145	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2100	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2055	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2100	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2100	MS
Uranium	0.0756	mg/L		0.0003	EPA 200.8	04/30/2015 2100	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2100	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2055	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 148	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	05/05/2015 1655	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1655	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-019
ClientSample ID: MU1-OZ-11
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 2:45:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	99.3	pCi/L		2	SM 7110B	05/21/2015 1932	MB
Gross Alpha Precision (±)	7.7	pCi/L			SM 7110B	05/21/2015 1932	MB
Gross Beta	21.0	pCi/L		3	SM 7110B	05/21/2015 1932	MB
Gross Beta Precision (±)	3.3	pCi/L			SM 7110B	05/21/2015 1932	MB
Lead 210	1.1	pCi/L		1	OTW01	05/25/2015 1136	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/25/2015 1136	MB
Polonium 210	1.9	pCi/L		1	OTW01	05/25/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/25/2015 1450	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/27/2015 757	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/27/2015 757	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1802	MB
Radionuclides - Suspended							
Lead 210	5.2	pCi/L		1	OTW01	05/27/2015 1241	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/27/2015 1241	MB
Polonium 210	8.8	pCi/L		1	OTW01	05/27/2015 1555	MB
Polonium 210 (Suspended) Precision (±)	1.2	pCi/L			OTW01	05/27/2015 1555	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1231	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1231	MB
Radionuclides - Total							
Radon 222	15600	pCi/L		100	ASTM D5072-09	05/02/2015 530	MB
Radon-222 Precision (±)	133	pCi/L			ASTM D5072-09	05/02/2015 530	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-018
ClientSample ID: MU1-OZ-12
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:05:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.3	s.u.			Field	04/29/2015 1505	
Conductivity	2700	µmhos/cm			Field	04/29/2015 1505	
Dissolved Oxygen	0.12	mg/L			Field	04/29/2015 1505	
Turbidity	0.86	NTU			Field	04/29/2015 1505	
Depth to Water	87.97	ft			Field	04/29/2015 1505	
Temperature	12.7	℃			Field	04/29/2015 1505	
Oxygen Reduction Potential (ORP)	-153	mV			Field	04/29/2015 1505	
Anions/Cations							
Alkalinity, Total (As CaCO3)	541	mg/L		5	SM 2320B	05/02/2015 352	BT
Alkalinity, Bicarbonate as HCO3	572	mg/L		5	SM 2320B	05/02/2015 352	BT
Alkalinity, Carbonate as CO3	43	mg/L		5	SM 2320B	05/02/2015 352	BT
Chloride	11	mg/L		1	EPA 300.0	05/02/2015 155	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/02/2015 352	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1512	AMB
Sulfate	817	mg/L		1	EPA 300.0	05/02/2015 155	AB
Calcium	8	mg/L		1	EPA 200.7	04/30/2015 2053	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 2053	DG
Potassium	8	mg/L		1	EPA 200.7	04/30/2015 2053	DG
Sodium	652	mg/L		1	EPA 200.7	04/30/2015 2053	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/06/2015 1223	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/02/2015 352	BT
Electrical Conductivity	2820	µmhos/cm		5	SM 2510B	05/02/2015 352	BT
Total Dissolved Solids (180)	1920	mg/L		10	SM 2540	04/30/2015 1048	IR
Data Quality							
Cation Sum	29.28	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	28.14	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	1.98	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1820	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-018
ClientSample ID: MU1-OZ-12
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:05:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2053	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 2054	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2054	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/30/2015 2053	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2054	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2053	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2054	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2053	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2054	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1144	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2054	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2053	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2054	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2054	MS
Uranium	0.0012	mg/L		0.0003	EPA 200.8	04/30/2015 2054	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2054	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2053	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 143	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 1047	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1047	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-018
ClientSample ID: MU1-OZ-12
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:05:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.5	pCi/L		2	SM 7110B	05/21/2015 1932	MB
Gross Alpha Precision (±)	2.3	pCi/L			SM 7110B	05/21/2015 1932	MB
Gross Beta	5.4	pCi/L		3	SM 7110B	05/21/2015 1932	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	05/21/2015 1932	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/27/2015 456	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/27/2015 456	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1802	MB
Radionuclides - Suspended							
Lead 210	3.7	pCi/L		1	OTW01	05/27/2015 1241	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/27/2015 1241	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1555	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1555	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1231	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1231	MB
Radionuclides - Total							
Radon 222	2740	pCi/L		100	ASTM D5072-09	05/02/2015 454	MB
Radon-222 Precision (±)	54.2	pCi/L			ASTM D5072-09	05/02/2015 454	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-017
ClientSample ID: MU1-OZ-13
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:03:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.1	s.u.			Field	04/29/2015 1203	
Conductivity	3220	µmhos/cm			Field	04/29/2015 1203	
Dissolved Oxygen	0.09	mg/L			Field	04/29/2015 1203	
Turbidity	1.21	NTU			Field	04/29/2015 1203	
Depth to Water	79.91	ft			Field	04/29/2015 1203	
Temperature	12.5	℃			Field	04/29/2015 1203	
Oxygen Reduction Potential (ORP)	-186	mV			Field	04/29/2015 1203	
Anions/Cations							
Alkalinity, Total (As CaCO3)	504	mg/L		5	SM 2320B	05/02/2015 328	BT
Alkalinity, Bicarbonate as HCO3	471	mg/L		5	SM 2320B	05/02/2015 328	BT
Alkalinity, Carbonate as CO3	71	mg/L		5	SM 2320B	05/02/2015 328	BT
Chloride	12	mg/L		1	EPA 300.0	05/02/2015 142	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/02/2015 328	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1501	AMB
Sulfate	1090	mg/L		1	EPA 300.0	05/02/2015 142	AB
Calcium	6	mg/L		1	EPA 200.7	04/30/2015 2051	DG
Magnesium	1	mg/L		1	EPA 200.7	04/30/2015 2051	DG
Potassium	16	mg/L		1	EPA 200.7	04/30/2015 2051	DG
Sodium	813	mg/L		1	EPA 200.7	04/30/2015 2051	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/06/2015 1214	AMB
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	05/02/2015 328	BT
Electrical Conductivity	3360	µmhos/cm		5	SM 2510B	05/02/2015 328	BT
Total Dissolved Solids (180)	2320	mg/L		10	SM 2540	04/30/2015 1047	IR
Data Quality							
Cation Sum	36.19	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	33.16	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	4.36	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	2240	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-017
ClientSample ID: MU1-OZ-13
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:03:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2051	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 2049	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2049	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/30/2015 2051	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2049	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2051	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2049	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2051	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2049	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1142	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2049	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2051	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2049	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2049	MS
Uranium	0.0632	mg/L		0.0003	EPA 200.8	04/30/2015 2049	MS
Vanadium	0.03	mg/L		0.02	EPA 200.8	04/30/2015 2049	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2051	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 126	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 1045	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1045	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-017
ClientSample ID: MU1-OZ-13
COC: 160015

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:03:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	117	pCi/L		2	SM 7110B	05/21/2015 1932	MB
Gross Alpha Precision (±)	10.6	pCi/L			SM 7110B	05/21/2015 1932	MB
Gross Beta	51.0	pCi/L		3	SM 7110B	05/21/2015 1932	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	05/21/2015 1932	MB
Lead 210	6.1	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	1.3	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/26/2015 449	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/26/2015 449	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1802	MB
Radionuclides - Suspended							
Lead 210	6.6	pCi/L		1	OTW01	05/27/2015 1241	MB
Lead 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	05/27/2015 1241	MB
Polonium 210	2.6	pCi/L		1	OTW01	05/27/2015 1555	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/27/2015 1555	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1231	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1231	MB
Radionuclides - Total							
Radon 222	52600	pCi/L		100	ASTM D5072-09	05/02/2015 419	MB
Radon-222 Precision (±)	247	pCi/L			ASTM D5072-09	05/02/2015 419	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-006
ClientSample ID: MUI-OZ14
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 5:10:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.82	s.u.			Field	04/20/2015 1710	
Conductivity	2370	µmhos/cm			Field	04/20/2015 1710	
Dissolved Oxygen	2.22	mg/L			Field	04/20/2015 1710	
Dissolved Oxygen (pct)	21.2	%			Field	04/20/2015 1710	
Turbidity	10.15	NTU			Field	04/20/2015 1710	
Temperature	11.2	℃			Field	04/20/2015 1710	
Oxygen Reduction Potential (ORP)	-112	mV			Field	04/20/2015 1710	
Anions/Cations							
Alkalinity, Total (As CaCO3)	582	mg/L		5	SM 2320B	04/23/2015 1457	BT
Alkalinity, Bicarbonate as HCO3	629	mg/L		5	SM 2320B	04/23/2015 1457	BT
Alkalinity, Carbonate as CO3	40	mg/L		5	SM 2320B	04/23/2015 1457	BT
Chloride	5	mg/L		1	EPA 300.0	04/24/2015 110	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/23/2015 1457	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/24/2015 1512	AMB
Sulfate	562	mg/L		1	EPA 300.0	04/24/2015 110	AB
Calcium	5	mg/L		1	EPA 200.7	04/23/2015 2138	DG
Magnesium	2	mg/L		1	EPA 200.7	04/23/2015 2138	DG
Potassium	8	mg/L		1	EPA 200.7	04/23/2015 2138	DG
Sodium	571	mg/L		1	EPA 200.7	04/23/2015 2138	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	04/24/2015 1629	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/23/2015 1457	BT
Electrical Conductivity	2250	µmhos/cm		5	SM 2510B	04/23/2015 1457	BT
Total Dissolved Solids (180)	1480	mg/L		10	SM 2540	04/22/2015 1455	IR
Data Quality							
Cation Sum	25.51	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Anion Sum	23.50	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Cation-Anion Balance (± 5%)	4.10	%		0.01	SM 1030E	04/29/2015 1125	JJ
Solids, Total Dissolved (Calc)	1500	mg/L		10	SM 1030E	04/29/2015 1125	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-006
ClientSample ID: MUI-OZ14
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 5:10:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/23/2015 2138	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/23/2015 1814	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/23/2015 1814	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/23/2015 2138	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/23/2015 1814	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/23/2015 2138	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/23/2015 1814	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/23/2015 2138	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/23/2015 1814	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1148	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/23/2015 1814	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/23/2015 2138	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/23/2015 1814	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/23/2015 1814	MS
Uranium	0.0832	mg/L		0.0003	EPA 200.8	04/23/2015 1814	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/23/2015 1814	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/23/2015 2138	DG
Metals - Suspended							
Uranium	0.0008	mg/L		0.0003	EPA 200.8	04/24/2015 2303	MS
Metals - Total							
Iron	0.21	mg/L		0.05	EPA 200.7	04/24/2015 221	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/24/2015 221	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-006
ClientSample ID: MUI-OZ14
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 5:10:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	99.5	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	7.5	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	40.6	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	3.8	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	1.4	pCi/L		1	OTW01	05/04/2015 912	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/04/2015 912	MB
Polonium 210	ND	pCi/L		1	OTW01	04/29/2015 1036	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	04/29/2015 1036	MB
Radium 226	5.4	pCi/L		0.2	SM 7500 Ra-B	04/29/2015 1214	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	04/29/2015 1214	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/05/2015 703	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/05/2015 703	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/21/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/21/2015 830	MB
Radionuclides - Suspended							
Lead 210	2.5	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/07/2015 810	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/07/2015 810	MB
Radionuclides - Total							
Radon 222	13200	pCi/L		100	ASTM D5072-09	04/23/2015 056	MB
Radon-222 Precision (±)	119	pCi/L			ASTM D5072-09	04/23/2015 056	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-002
ClientSample ID: OZ-15
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 3:00:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.65	s.u.			Field	04/21/2015 1500	
Conductivity	2780	µmhos/cm			Field	04/21/2015 1500	
Dissolved Oxygen	1.65	mg/L			Field	04/21/2015 1500	
Dissolved Oxygen (pct)	15.5	%			Field	04/21/2015 1500	
Turbidity	.84	NTU			Field	04/21/2015 1500	
Temperature	12.1	℃			Field	04/21/2015 1500	
Oxygen Reduction Potential (ORP)	+148	mV			Field	04/21/2015 1500	
Anions/Cations							
Alkalinity, Total (As CaCO3)	515	mg/L		5	SM 2320B	04/23/2015 2322	BT
Alkalinity, Bicarbonate as HCO3	553	mg/L		5	SM 2320B	04/23/2015 2322	BT
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	04/23/2015 2322	BT
Chloride	7	mg/L		1	EPA 300.0	04/24/2015 313	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/23/2015 2322	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1534	AMB
Sulfate	742	mg/L		1	EPA 300.0	04/24/2015 313	AB
Calcium	8	mg/L		1	EPA 200.7	04/24/2015 019	DG
Magnesium	3	mg/L		1	EPA 200.7	04/24/2015 019	DG
Potassium	7	mg/L		1	EPA 200.7	04/24/2015 019	DG
Sodium	625	mg/L		1	EPA 200.7	04/24/2015 019	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/04/2015 1349	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/23/2015 2322	BT
Electrical Conductivity	2690	µmhos/cm		5	SM 2510B	04/23/2015 2322	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	04/23/2015 1215	IR
Data Quality							
Cation Sum	28.03	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Anion Sum	25.95	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Cation-Anion Balance (± 5%)	3.85	%		0.01	SM 1030E	05/12/2015 1148	WN
Solids, Total Dissolved (Calc)	1700	mg/L		10	SM 1030E	05/12/2015 1148	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-002
ClientSample ID: OZ-15
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 3:00:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 019	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/24/2015 021	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 021	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/24/2015 019	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 021	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 019	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 021	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 019	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 021	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1319	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 021	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 019	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 021	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 021	MS
Uranium	0.154	mg/L		0.0003	EPA 200.8	04/24/2015 021	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 021	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 019	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/24/2015 2325	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 2031	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/27/2015 2031	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-002
ClientSample ID: OZ-15
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 3:00:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	692	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	24.4	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	302	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	12.3	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	40.3	pCi/L		1	OTW01	05/05/2015 1301	MB
Lead 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	05/05/2015 1301	MB
Polonium 210	30.1	pCi/L		1	OTW01	05/04/2015 1730	MB
Polonium 210 (Dissolved) Precision (±)	1.9	pCi/L			OTW01	05/04/2015 1730	MB
Radium 226	260	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	1.9	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/05/2015 1305	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/05/2015 1305	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 813	MB
Radionuclides - Suspended							
Lead 210	4.5	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	3.2	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/07/2015 810	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/07/2015 810	MB
Radionuclides - Total							
Radon 222	198000	pCi/L		100	ASTM D5072-09	04/23/2015 2016	MB
Radon-222 Precision (±)	455	pCi/L			ASTM D5072-09	04/23/2015 2016	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-006
ClientSample ID: OZ-16
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 4:10:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.26	s.u.			Field	04/21/2015 1610	
Conductivity	2600	µmhos/cm			Field	04/21/2015 1610	
Dissolved Oxygen	1.70	mg/L			Field	04/21/2015 1610	
Dissolved Oxygen (pct)	16.0	%			Field	04/21/2015 1610	
Turbidity	1.53	NTU			Field	04/21/2015 1610	
Temperature	12.1	℃			Field	04/21/2015 1610	
Oxygen Reduction Potential (ORP)	-202	mV			Field	04/21/2015 1610	
Anions/Cations							
Alkalinity, Total (As CaCO3)	494	mg/L		5	SM 2320B	04/24/2015 011	BT
Alkalinity, Bicarbonate as HCO3	455	mg/L		5	SM 2320B	04/24/2015 011	BT
Alkalinity, Carbonate as CO3	73	mg/L		5	SM 2320B	04/24/2015 011	BT
Chloride	7	mg/L		1	EPA 300.0	04/24/2015 547	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/24/2015 011	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/30/2015 1453	AMB
Sulfate	648	mg/L		1	EPA 300.0	04/24/2015 547	AB
Calcium	5	mg/L		1	EPA 200.7	04/24/2015 039	DG
Magnesium	1	mg/L		1	EPA 200.7	04/24/2015 039	DG
Potassium	9	mg/L		1	EPA 200.7	04/24/2015 039	DG
Sodium	559	mg/L		1	EPA 200.7	04/24/2015 039	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/04/2015 1353	AMB
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	04/24/2015 011	BT
Electrical Conductivity	2460	µmhos/cm		5	SM 2510B	04/24/2015 011	BT
Total Dissolved Solids (180)	1620	mg/L		10	SM 2540	04/23/2015 1219	IR
Data Quality							
Cation Sum	24.95	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Anion Sum	23.57	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Cation-Anion Balance (± 5%)	2.84	%		0.01	SM 1030E	05/12/2015 1148	WN
Solids, Total Dissolved (Calc)	1530	mg/L		10	SM 1030E	05/12/2015 1148	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-006
ClientSample ID: OZ-16
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 4:10:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	04/24/2015 039	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/24/2015 121	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 121	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/24/2015 039	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 121	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 039	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 121	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 039	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 121	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1340	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 121	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 039	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 121	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 121	MS
Uranium	0.142	mg/L		0.0003	EPA 200.8	04/24/2015 121	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 121	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 039	DG
Metals - Suspended							
Uranium	0.0005	mg/L		0.0003	EPA 200.8	04/25/2015 003	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 2045	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/27/2015 2045	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-006
ClientSample ID: OZ-16
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 4:10:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	214	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	11.8	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	81.7	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	5.2	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	9.0	pCi/L		1	OTW01	05/05/2015 1301	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	05/05/2015 1301	MB
Polonium 210	5.7	pCi/L		1	OTW01	05/04/2015 1730	MB
Polonium 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	05/04/2015 1730	MB
Radium 226	20.3	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/06/2015 108	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/06/2015 108	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 813	MB
Radionuclides - Suspended							
Lead 210	1.9	pCi/L		1	OTW01	05/06/2015 1349	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/06/2015 1349	MB
Polonium 210	5.1	pCi/L		1	OTW01	05/06/2015 1703	MB
Polonium 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	05/06/2015 1703	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1623	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1623	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/07/2015 810	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/07/2015 810	MB
Radionuclides - Total							
Radon 222	50000	pCi/L		100	ASTM D5072-09	04/24/2015 101	MB
Radon-222 Precision (±)	235	pCi/L			ASTM D5072-09	04/24/2015 101	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-011
ClientSample ID: OZ 17
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 12:25:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	04/24/2015 1225	
Conductivity	2520	µmhos/cm			Field	04/24/2015 1225	
Dissolved Oxygen	2.21	mg/L			Field	04/24/2015 1225	
Dissolved Oxygen (pct)	20.7	%			Field	04/24/2015 1225	
Turbidity	1.49	NTU			Field	04/24/2015 1225	
Temperature	11.5	℃			Field	04/24/2015 1225	
Oxygen Reduction Potential (ORP)	+88	mV			Field	04/24/2015 1225	
Anions/Cations							
Alkalinity, Total (As CaCO3)	566	mg/L		5	SM 2320B	04/28/2015 1733	BT
Alkalinity, Bicarbonate as HCO3	621	mg/L		5	SM 2320B	04/28/2015 1733	BT
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	04/28/2015 1733	BT
Chloride	5	mg/L		1	EPA 300.0	04/27/2015 1938	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/28/2015 1733	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1422	AMB
Sulfate	607	mg/L		1	EPA 300.0	04/27/2015 1938	AB
Calcium	6	mg/L		1	EPA 200.7	04/27/2015 1930	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1930	DG
Potassium	6	mg/L		1	EPA 200.7	04/27/2015 1930	DG
Sodium	541	mg/L		1	EPA 200.7	04/27/2015 1930	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/01/2015 1618	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/28/2015 1733	BT
Electrical Conductivity	2340	µmhos/cm		5	SM 2510B	04/28/2015 1733	BT
Total Dissolved Solids (180)	1770	mg/L		10	SM 2540	04/27/2015 1436	IR
Data Quality							
Cation Sum	24.19	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	24.11	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.15	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1510	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewe

Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-011
ClientSample ID: OZ 17
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 12:25:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1930	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1821	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1821	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/27/2015 1930	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1821	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1930	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1821	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1930	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1821	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1152	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1821	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1930	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1821	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1821	MS
Uranium	0.199	mg/L		0.0003	EPA 200.8	04/27/2015 1821	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1821	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1930	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2355	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 528	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 528	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-011
ClientSample ID: OZ 17
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 12:25:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	439	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	15.9	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	120	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	5.5	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	16.5	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	28.9	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	1.9	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	61.3	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 013	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 013	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1214	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1214	MB
Radionuclides - Suspended							
Lead 210	2.6	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	2.0	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 1324	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 1324	MB
Radionuclides - Total							
Radon 222	109000	pCi/L		100	ASTM D5072-09	04/25/2015 1711	MB
Radon-222 Precision (±)	304	pCi/L			ASTM D5072-09	04/25/2015 1711	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-009
ClientSample ID: OZ-18
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 1:20:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.73	s.u.			Field	04/23/2015 1320	
Conductivity	2620	µmhos/cm			Field	04/23/2015 1320	
Dissolved Oxygen	1.90	mg/L			Field	04/23/2015 1320	
Dissolved Oxygen (pct)	17.9	%			Field	04/23/2015 1320	
Turbidity	0.46	NTU			Field	04/23/2015 1320	
Temperature	11.5	℃			Field	04/23/2015 1320	
Oxygen Reduction Potential (ORP)	+164	mV			Field	04/23/2015 1320	
Anions/Cations							
Alkalinity, Total (As CaCO3)	562	mg/L		5	SM 2320B	04/28/2015 1707	BT
Alkalinity, Bicarbonate as HCO3	613	mg/L		5	SM 2320B	04/28/2015 1707	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/28/2015 1707	BT
Chloride	6	mg/L		1	EPA 300.0	04/27/2015 1911	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/28/2015 1707	BT
Nitrogen, Nitrate+Nitrite (as N)	0.4	mg/L		0.1	EPA 353.2	04/28/2015 1419	AMB
Sulfate	650	mg/L		1	EPA 300.0	04/27/2015 1911	AB
Calcium	6	mg/L		1	EPA 200.7	04/27/2015 1912	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1912	DG
Potassium	9	mg/L		1	EPA 200.7	04/27/2015 1912	DG
Sodium	555	mg/L		1	EPA 200.7	04/27/2015 1912	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/01/2015 1616	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/28/2015 1707	BT
Electrical Conductivity	2420	µmhos/cm		5	SM 2510B	04/28/2015 1707	BT
Total Dissolved Solids (180)	1940	mg/L		10	SM 2540	04/27/2015 1433	IR
Data Quality							
Cation Sum	24.87	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	24.96	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.17	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1570	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-009
ClientSample ID: OZ-18
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 1:20:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1912	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1810	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1810	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/27/2015 1912	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1810	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1912	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1810	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1912	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1810	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1142	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1810	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1912	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1810	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1810	MS
Uranium	0.152	mg/L		0.0003	EPA 200.8	04/27/2015 1810	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1810	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1912	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2344	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 524	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 524	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-009
ClientSample ID: OZ-18
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 1:20:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	141	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	11.5	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	39.6	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	6.8	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	2.5	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	4.6	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 1811	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 1811	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1214	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1214	MB
Radionuclides - Suspended							
Lead 210	1.9	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 1324	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 1324	MB
Radionuclides - Total							
Radon 222	11800	pCi/L		100	ASTM D5072-09	04/25/2015 1448	MB
Radon-222 Precision (±)	109	pCi/L			ASTM D5072-09	04/25/2015 1448	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-003
ClientSample ID: OZ19
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 4:00:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.28	s.u.			Field	04/22/2015 1600	
Conductivity	2790	µmhos/cm			Field	04/22/2015 1600	
Dissolved Oxygen	4.80	mg/L			Field	04/22/2015 1600	
Dissolved Oxygen (pct)	47.1	%			Field	04/22/2015 1600	
Turbidity	1.19	NTU			Field	04/22/2015 1600	
Temperature	14.4	℃			Field	04/22/2015 1600	
Oxygen Reduction Potential (ORP)	-104	mV			Field	04/22/2015 1600	
Anions/Cations							
Alkalinity, Total (As CaCO3)	568	mg/L		5	SM 2320B	04/25/2015 1635	BT
Alkalinity, Bicarbonate as HCO3	520	mg/L		5	SM 2320B	04/25/2015 1635	BT
Alkalinity, Carbonate as CO3	85	mg/L		5	SM 2320B	04/25/2015 1635	BT
Chloride	10	mg/L		1	EPA 300.0	04/25/2015 1419	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/25/2015 1635	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/07/2015 1328	AMB
Sulfate	728	mg/L		1	EPA 300.0	04/25/2015 1419	AB
Calcium	6	mg/L		1	EPA 200.7	04/24/2015 1900	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/24/2015 1900	DG
Potassium	29	mg/L		1	EPA 200.7	04/24/2015 1900	DG
Sodium	626	mg/L		1	EPA 200.7	04/24/2015 1900	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/04/2015 1505	AMB
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	04/25/2015 1635	BT
Electrical Conductivity	2840	µmhos/cm		5	SM 2510B	04/25/2015 1635	BT
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	04/24/2015 1459	IR
Data Quality							
Cation Sum	28.27	meq/L		0.01	SM 1030E	05/08/2015 1108	JJ
Anion Sum	26.80	meq/L		0.01	SM 1030E	05/08/2015 1108	JJ
Cation-Anion Balance (± 5%)	2.66	%		0.01	SM 1030E	05/08/2015 1108	JJ
Solids, Total Dissolved (Calc)	1740	mg/L		10	SM 1030E	05/08/2015 1108	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-003
ClientSample ID: OZ19
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 4:00:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 1900	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/24/2015 1736	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 1736	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/24/2015 1900	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 1736	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 1900	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 1736	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 1900	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 1736	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/28/2015 1342	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 1736	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 1900	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 1736	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 1736	MS
Uranium	0.0049	mg/L		0.0003	EPA 200.8	04/24/2015 1736	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 1736	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 1900	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2210	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1341	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/30/2015 1341	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-003
ClientSample ID: OZ19
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 4:00:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	12.3	pCi/L		2	SM 7110B	05/01/2015 1817	MB
Gross Alpha Precision (±)	4.1	pCi/L			SM 7110B	05/01/2015 1817	MB
Gross Beta	29.6	pCi/L		3	SM 7110B	05/01/2015 1817	MB
Gross Beta Precision (±)	6.7	pCi/L			SM 7110B	05/01/2015 1817	MB
Lead 210	ND	pCi/L		1	OTW01	05/05/2015 1514	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/05/2015 1514	MB
Polonium 210	ND	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/06/2015 1312	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/06/2015 1312	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 1223	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/06/2015 1349	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1349	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1703	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1703	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	3230	pCi/L		100	ASTM D5072-09	04/25/2015 035	MB
Radon-222 Precision (±)	58.2	pCi/L			ASTM D5072-09	04/25/2015 035	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-014
ClientSample ID: OZ20
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 2:30:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.62	s.u.			Field	04/29/2015 1430	
Conductivity	2510	µmhos/cm			Field	04/29/2015 1430	
Dissolved Oxygen	1.70	mg/L			Field	04/29/2015 1430	
Dissolved Oxygen (pct)	15.9	%			Field	04/29/2015 1430	
Turbidity	0.41	NTU			Field	04/29/2015 1430	
Temperature	12.7	℃			Field	04/29/2015 1430	
Oxygen Reduction Potential (ORP)	+125	mV			Field	04/29/2015 1430	
Anions/Cations							
Alkalinity, Total (As CaCO3)	562	mg/L		5	SM 2320B	05/02/2015 224	BT
Alkalinity, Bicarbonate as HCO3	576	mg/L		5	SM 2320B	05/02/2015 224	BT
Alkalinity, Carbonate as CO3	54	mg/L		5	SM 2320B	05/02/2015 224	BT
Chloride	5	mg/L		1	EPA 300.0	05/02/2015 101	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/02/2015 224	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1457	AMB
Sulfate	615	mg/L		1	EPA 300.0	05/02/2015 101	AB
Calcium	7	mg/L		1	EPA 200.7	04/30/2015 2030	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 2030	DG
Potassium	8	mg/L		1	EPA 200.7	04/30/2015 2030	DG
Sodium	562	mg/L		1	EPA 200.7	04/30/2015 2030	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/06/2015 1210	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/02/2015 224	BT
Electrical Conductivity	2440	µmhos/cm		5	SM 2510B	05/02/2015 224	BT
Total Dissolved Solids (180)	1630	mg/L		10	SM 2540	04/30/2015 1044	IR
Data Quality							
Cation Sum	25.24	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	24.19	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	2.11	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-014
ClientSample ID: OZ20
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 2:30:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2030	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 2021	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2021	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/30/2015 2030	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2021	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2030	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2021	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2030	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2021	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1136	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2021	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2030	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2021	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2021	MS
Uranium	0.0291	mg/L		0.0003	EPA 200.8	04/30/2015 2021	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2021	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2030	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 110	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 1038	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1038	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-014
ClientSample ID: OZ20
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 2:30:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	40.2	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	5.5	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	16.9	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	3.5	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	3.9	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/25/2015 1946	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/25/2015 1946	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1802	MB
Radionuclides - Suspended							
Lead 210	2.4	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	2.7	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/24/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/24/2015 812	MB
Radionuclides - Total							
Radon 222	19500	pCi/L		100	ASTM D5072-09	05/02/2015 232	MB
Radon-222 Precision (±)	146	pCi/L			ASTM D5072-09	05/02/2015 232	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-001
ClientSample ID: MU1-OZ-21
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:18:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.6	s.u.			Field	04/29/2015 1118	
Conductivity	2134	µmhos/cm			Field	04/29/2015 1118	
Dissolved Oxygen	1.24	mg/L			Field	04/29/2015 1118	
Turbidity	1.70	NTU			Field	04/29/2015 1118	
Depth to Water	110.7	ft			Field	04/29/2015 1118	
Temperature	11.9	℃			Field	04/29/2015 1118	
Oxygen Reduction Potential (ORP)	-41.5	mV			Field	04/29/2015 1118	
Anions/Cations							
Alkalinity, Total (As CaCO3)	538	mg/L		5	SM 2320B	05/01/2015 2309	BT
Alkalinity, Bicarbonate as HCO3	568	mg/L		5	SM 2320B	05/01/2015 2309	BT
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	05/01/2015 2309	BT
Chloride	6	mg/L		1	EPA 300.0	05/01/2015 1935	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/01/2015 2309	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1428	AMB
Sulfate	717	mg/L		1	EPA 300.0	05/01/2015 1935	AB
Calcium	8	mg/L		1	EPA 200.7	04/30/2015 1935	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 1935	DG
Potassium	10	mg/L		1	EPA 200.7	04/30/2015 1935	DG
Sodium	607	mg/L		1	EPA 200.7	04/30/2015 1935	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/06/2015 1143	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/01/2015 2309	BT
Electrical Conductivity	2510	µmhos/cm		5	SM 2510B	05/01/2015 2309	BT
Total Dissolved Solids (180)	1770	mg/L		10	SM 2540	04/30/2015 1030	IR
Data Quality							
Cation Sum	27.33	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	25.88	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	2.72	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1670	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-001
ClientSample ID: MU1-OZ-21
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:18:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1935	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 1820	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1820	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/30/2015 1935	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1820	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1935	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 1820	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1935	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1820	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1048	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1820	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1935	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1820	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1820	MS
Uranium	0.0625	mg/L		0.0003	EPA 200.8	04/30/2015 1820	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1820	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1935	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 432	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 934	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 934	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-001
ClientSample ID: MU1-OZ-21
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:18:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	171	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	10.3	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	63.4	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	4.5	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	16.9	pCi/L		1	OTW01	05/18/2015 1741	MB
Lead 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	05/18/2015 1741	MB
Polonium 210	18.4	pCi/L		1	OTW01	05/19/2015 1045	MB
Polonium 210 (Dissolved) Precision (±)	1.4	pCi/L			OTW01	05/19/2015 1045	MB
Radium 226	30.5	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1716	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	05/11/2015 1716	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 2344	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 2344	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 815	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 815	MB
Radionuclides - Suspended							
Lead 210	13.8	pCi/L		1	OTW01	05/20/2015 216	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	05/20/2015 216	MB
Polonium 210	27.4	pCi/L		1	OTW01	05/19/2015 1756	MB
Polonium 210 (Suspended) Precision (±)	1.9	pCi/L			OTW01	05/19/2015 1756	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1701	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1701	MB
Radionuclides - Total							
Radon 222	191000	pCi/L		100	ASTM D5072-09	05/01/2015 1814	MB
Radon-222 Precision (±)	458	pCi/L			ASTM D5072-09	05/01/2015 1814	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-002
ClientSample ID: OZ 22
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 9:25:00 AM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.65	s.u.			Field	04/23/2015 925	
Conductivity	2140	µmhos/cm			Field	04/23/2015 925	
Dissolved Oxygen	2.21	mg/L			Field	04/23/2015 925	
Dissolved Oxygen (pct)	20	%			Field	04/23/2015 925	
Turbidity	0.69	NTU			Field	04/23/2015 925	
Temperature	11.5	℃			Field	04/23/2015 925	
Oxygen Reduction Potential (ORP)	+171	mV			Field	04/23/2015 925	
Anions/Cations							
Alkalinity, Total (As CaCO3)	552	mg/L		5	SM 2320B	04/28/2015 1515	BT
Alkalinity, Bicarbonate as HCO3	602	mg/L		5	SM 2320B	04/28/2015 1515	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/28/2015 1515	BT
Chloride	4	mg/L		1	EPA 300.0	04/27/2015 1628	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/28/2015 1515	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/27/2015 1526	AMB
Sulfate	439	mg/L		1	EPA 300.0	04/27/2015 1628	AB
Calcium	5	mg/L		1	EPA 200.7	04/27/2015 1842	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1842	DG
Potassium	7	mg/L		1	EPA 200.7	04/27/2015 1842	DG
Sodium	458	mg/L		1	EPA 200.7	04/27/2015 1842	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	04/28/2015 1557	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/28/2015 1515	BT
Electrical Conductivity	1990	µmhos/cm		5	SM 2510B	04/28/2015 1515	BT
Total Dissolved Solids (180)	1480	mg/L		10	SM 2540	04/27/2015 1426	IR
Data Quality							
Cation Sum	20.55	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	20.32	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.56	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1250	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-002
ClientSample ID: OZ 22
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 9:25:00 AM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1842	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1653	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1653	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/27/2015 1842	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1653	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1842	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1653	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1842	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1653	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1120	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1653	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1842	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1653	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1653	MS
Uranium	0.0794	mg/L		0.0003	EPA 200.8	04/27/2015 1653	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1653	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1842	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2238	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 456	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 456	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-002
ClientSample ID: OZ 22
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 9:25:00 AM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	205	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	10.3	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	90.6	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	5.0	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	15.0	pCi/L		1	OTW01	05/05/2015 1515	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	05/05/2015 1515	MB
Polonium 210	22.5	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	48.9	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.8	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/11/2015 2105	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/11/2015 2105	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 802	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1311	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1311	MB
Polonium 210	1.9	pCi/L		1	OTW01	05/08/2015 1604	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/08/2015 1604	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	128000	pCi/L		100	ASTM D5072-09	04/25/2015 630	MB
Radon-222 Precision (±)	358	pCi/L			ASTM D5072-09	04/25/2015 630	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-003
ClientSample ID: OZ 22 dup
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 9:30:00 AM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.66	s.u.			Field	04/23/2015 930	
Conductivity	2130	µmhos/cm			Field	04/23/2015 930	
Dissolved Oxygen	1.99	mg/L			Field	04/23/2015 930	
Dissolved Oxygen (pct)	18.1	%			Field	04/23/2015 930	
Turbidity	0.54	NTU			Field	04/23/2015 930	
Temperature	11.8	℃			Field	04/23/2015 930	
Oxygen Reduction Potential (ORP)	+165	mV			Field	04/23/2015 930	
Anions/Cations							
Alkalinity, Total (As CaCO3)	547	mg/L		5	SM 2320B	04/28/2015 1526	BT
Alkalinity, Bicarbonate as HCO3	602	mg/L		5	SM 2320B	04/28/2015 1526	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	04/28/2015 1526	BT
Chloride	4	mg/L		1	EPA 300.0	04/27/2015 1641	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/28/2015 1526	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/27/2015 1528	AMB
Sulfate	438	mg/L		1	EPA 300.0	04/27/2015 1641	AB
Calcium	5	mg/L		1	EPA 200.7	04/27/2015 1847	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1847	DG
Potassium	7	mg/L		1	EPA 200.7	04/27/2015 1847	DG
Sodium	455	mg/L		1	EPA 200.7	04/27/2015 1847	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	04/28/2015 1559	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/28/2015 1526	BT
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	04/28/2015 1526	BT
Total Dissolved Solids (180)	1600	mg/L		10	SM 2540	04/27/2015 1427	IR
Data Quality							
Cation Sum	20.43	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	20.21	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.55	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1240	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-003
ClientSample ID: OZ 22 dup
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 9:30:00 AM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1847	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1659	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1659	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/27/2015 1847	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1659	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1847	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1659	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1847	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1659	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1122	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1659	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1847	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1659	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1659	MS
Uranium	0.0775	mg/L		0.0003	EPA 200.8	04/27/2015 1659	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1659	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1847	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2244	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 503	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 503	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-003
ClientSample ID: OZ 22 dup
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 9:30:00 AM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	249	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	12.1	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	94.6	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	5.5	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	15.5	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	13.4	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	1.2	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	47.7	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.8	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 006	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 006	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 2200	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 2200	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1311	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1311	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1604	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1604	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	129000	pCi/L		100	ASTM D5072-09	04/25/2015 742	MB
Radon-222 Precision (±)	362	pCi/L			ASTM D5072-09	04/25/2015 742	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-003
ClientSample ID: MU1-OZ-23
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 1:44:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.50	s.u.			Field	04/29/2015 1344	
Conductivity	2003	µmhos/cm			Field	04/29/2015 1344	
Dissolved Oxygen	0.11	mg/L			Field	04/29/2015 1344	
Turbidity	2.98	NTU			Field	04/29/2015 1344	
Depth to Water	79.19	ft			Field	04/29/2015 1344	
Temperature	11.9	℃			Field	04/29/2015 1344	
Oxygen Reduction Potential (ORP)	-206.5	mV			Field	04/29/2015 1344	
Anions/Cations							
Alkalinity, Total (As CaCO3)	562	mg/L		5	SM 2320B	05/01/2015 2332	BT
Alkalinity, Bicarbonate as HCO3	587	mg/L		5	SM 2320B	05/01/2015 2332	BT
Alkalinity, Carbonate as CO3	49	mg/L		5	SM 2320B	05/01/2015 2332	BT
Chloride	6	mg/L		1	EPA 300.0	05/01/2015 2002	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/01/2015 2332	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1431	AMB
Sulfate	617	mg/L		1	EPA 300.0	05/01/2015 2002	AB
Calcium	9	mg/L		1	EPA 200.7	04/30/2015 1951	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 1951	DG
Potassium	10	mg/L		1	EPA 200.7	04/30/2015 1951	DG
Sodium	569	mg/L		1	EPA 200.7	04/30/2015 1951	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/06/2015 1146	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/01/2015 2332	BT
Electrical Conductivity	2370	µmhos/cm		5	SM 2510B	05/01/2015 2332	BT
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	04/30/2015 1032	IR
Data Quality							
Cation Sum	25.75	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	24.24	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	3.02	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1550	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-003
ClientSample ID: MU1-OZ-23
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 1:44:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1951	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 1842	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1842	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/30/2015 1951	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1842	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1951	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 1842	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1951	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1842	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1055	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1842	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1951	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1842	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1842	MS
Uranium	0.0010	mg/L		0.0003	EPA 200.8	04/30/2015 1842	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1842	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1951	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 454	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 943	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 943	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-003
ClientSample ID: MU1-OZ-23
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 1:44:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	4.7	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	2.0	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	6.5	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	2.9	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1741	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1741	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1045	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1045	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1716	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/11/2015 1716	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/22/2015 546	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/22/2015 546	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 815	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 815	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	05/20/2015 216	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/20/2015 216	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1756	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1756	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1701	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1701	MB
Radionuclides - Total							
Radon 222	1480	pCi/L		100	ASTM D5072-09	05/01/2015 1925	MB
Radon-222 Precision (±)	38.1	pCi/L			ASTM D5072-09	05/01/2015 1925	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-007
ClientSample ID: OZ-24
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 10:45:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.62	s.u.			Field	04/23/2015 1045	
Conductivity	2740	µmhos/cm			Field	04/23/2015 1045	
Dissolved Oxygen	1.39	mg/L			Field	04/23/2015 1045	
Dissolved Oxygen (pct)	13.3	%			Field	04/23/2015 1045	
Turbidity	0.21	NTU			Field	04/23/2015 1045	
Temperature	12.6	℃			Field	04/23/2015 1045	
Oxygen Reduction Potential (ORP)	+156	mV			Field	04/23/2015 1045	
Anions/Cations							
Alkalinity, Total (As CaCO3)	560	mg/L		5	SM 2320B	04/28/2015 1619	BT
Alkalinity, Bicarbonate as HCO3	622	mg/L		5	SM 2320B	04/28/2015 1619	BT
Alkalinity, Carbonate as CO3	30	mg/L		5	SM 2320B	04/28/2015 1619	BT
Chloride	7	mg/L		1	EPA 300.0	04/27/2015 1843	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	04/28/2015 1619	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1416	AMB
Sulfate	706	mg/L		1	EPA 300.0	04/27/2015 1843	AB
Calcium	7	mg/L		1	EPA 200.7	04/27/2015 1907	DG
Magnesium	3	mg/L		1	EPA 200.7	04/27/2015 1907	DG
Potassium	7	mg/L		1	EPA 200.7	04/27/2015 1907	DG
Sodium	573	mg/L		1	EPA 200.7	04/27/2015 1907	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	04/28/2015 1604	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/28/2015 1619	BT
Electrical Conductivity	2530	µmhos/cm		5	SM 2510B	04/28/2015 1619	BT
Total Dissolved Solids (180)	2060	mg/L		10	SM 2540	04/27/2015 1431	IR
Data Quality							
Cation Sum	25.72	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	26.12	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.75	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1640	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-007
ClientSample ID: OZ-24
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 10:45:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1907	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1759	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1759	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/27/2015 1907	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1759	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1907	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1759	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1907	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1759	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1130	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1759	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1907	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1759	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1759	MS
Uranium	0.0384	mg/L		0.0003	EPA 200.8	04/27/2015 1759	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1759	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1907	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2333	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 519	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 519	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-007
ClientSample ID: OZ-24
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 10:45:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	86.3	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	9.6	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	40.2	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	6.9	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	4.3	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	12.1	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	1.3	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	22.5	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 1209	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 1209	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 802	MB
Radionuclides - Suspended							
Lead 210	2.3	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 921	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 921	MB
Radionuclides - Total							
Radon 222	35600	pCi/L		100	ASTM D5072-09	04/25/2015 1226	MB
Radon-222 Precision (±)	192	pCi/L			ASTM D5072-09	04/25/2015 1226	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-008
ClientSample ID: OZ-25
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 11:10:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.70	s.u.			Field	04/23/2015 1110	
Conductivity	2830	µmhos/cm			Field	04/23/2015 1110	
Dissolved Oxygen	2.17	mg/L			Field	04/23/2015 1110	
Dissolved Oxygen (pct)	18.8	%			Field	04/23/2015 1110	
Turbidity	0.31	NTU			Field	04/23/2015 1110	
Temperature	12.1	℃			Field	04/23/2015 1110	
Oxygen Reduction Potential (ORP)	+142	mV			Field	04/23/2015 1110	
Anions/Cations							
Alkalinity, Total (As CaCO3)	530	mg/L		5	SM 2320B	04/28/2015 1655	BT
Alkalinity, Bicarbonate as HCO3	582	mg/L		5	SM 2320B	04/28/2015 1655	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	04/28/2015 1655	BT
Chloride	8	mg/L		1	EPA 300.0	04/27/2015 1857	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/28/2015 1655	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1417	AMB
Sulfate	750	mg/L		1	EPA 300.0	04/27/2015 1857	AB
Calcium	8	mg/L		1	EPA 200.7	04/27/2015 1909	DG
Magnesium	3	mg/L		1	EPA 200.7	04/27/2015 1909	DG
Potassium	10	mg/L		1	EPA 200.7	04/27/2015 1909	DG
Sodium	602	mg/L		1	EPA 200.7	04/27/2015 1909	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/01/2015 1614	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/28/2015 1655	BT
Electrical Conductivity	2640	µmhos/cm		5	SM 2510B	04/28/2015 1655	BT
Total Dissolved Solids (180)	1580	mg/L		10	SM 2540	04/27/2015 1432	IR
Data Quality							
Cation Sum	27.09	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	26.46	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	1.17	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1700	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-008
ClientSample ID: OZ-25
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 11:10:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1909	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1804	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1804	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/27/2015 1909	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1804	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1909	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1804	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1909	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1804	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1132	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1804	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1909	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1804	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1804	MS
Uranium	0.0433	mg/L		0.0003	EPA 200.8	04/27/2015 1804	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1804	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1909	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2338	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 521	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 521	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-008
ClientSample ID: OZ-25
COC: 152851

WorkOrder: S1504374
CollectionDate: 4/23/2015 11:10:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	46.4	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	5.9	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	13.3	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	3.3	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	1.2	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	2.7	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 1510	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 1510	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1214	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1214	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 921	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 921	MB
Radionuclides - Total							
Radon 222	4510	pCi/L		100	ASTM D5072-09	04/25/2015 1337	MB
Radon-222 Precision (±)	67.2	pCi/L			ASTM D5072-09	04/25/2015 1337	MB

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-004
ClientSample ID: MUI-OZ26
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:20:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	04/20/2015 1320	
Conductivity	2470	µmhos/cm			Field	04/20/2015 1320	
Dissolved Oxygen	1.92	mg/L			Field	04/20/2015 1320	
Dissolved Oxygen (pct)	18.1	%			Field	04/20/2015 1320	
Turbidity	0.80	NTU			Field	04/20/2015 1320	
Temperature	11.1	℃			Field	04/20/2015 1320	
Oxygen Reduction Potential (ORP)	-35	mV			Field	04/20/2015 1320	
Anions/Cations							
Alkalinity, Total (As CaCO3)	545	mg/L		5	SM 2320B	04/23/2015 1432	BT
Alkalinity, Bicarbonate as HCO3	610	mg/L		5	SM 2320B	04/23/2015 1432	BT
Alkalinity, Carbonate as CO3	27	mg/L		5	SM 2320B	04/23/2015 1432	BT
Chloride	6	mg/L		1	EPA 300.0	04/23/2015 2323	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/23/2015 1432	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/24/2015 1503	AMB
Sulfate	697	mg/L		1	EPA 300.0	04/27/2015 2221	AB
Calcium	6	mg/L		1	EPA 200.7	04/23/2015 2120	DG
Magnesium	3	mg/L		1	EPA 200.7	04/23/2015 2120	DG
Potassium	8	mg/L		1	EPA 200.7	04/23/2015 2120	DG
Sodium	583	mg/L		1	EPA 200.7	04/23/2015 2120	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	04/24/2015 1618	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/23/2015 1432	BT
Electrical Conductivity	2400	µmhos/cm		5	SM 2510B	04/23/2015 1432	BT
Total Dissolved Solids (180)	1610	mg/L		10	SM 2540	04/22/2015 1452	IR
Data Quality							
Cation Sum	26.14	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Anion Sum	25.60	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Cation-Anion Balance (± 5%)	1.03	%		0.01	SM 1030E	04/29/2015 1125	JJ
Solids, Total Dissolved (Calc)	1630	mg/L		10	SM 1030E	04/29/2015 1125	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-004
ClientSample ID: MUI-OZ26
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:20:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/23/2015 2120	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/23/2015 1752	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/23/2015 1752	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/23/2015 2120	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/23/2015 1752	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/23/2015 2120	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/23/2015 1752	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/23/2015 2120	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/23/2015 1752	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1144	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/23/2015 1752	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/23/2015 2120	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/23/2015 1752	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/23/2015 1752	MS
Uranium	0.0553	mg/L		0.0003	EPA 200.8	04/23/2015 1752	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/23/2015 1752	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/23/2015 2120	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/24/2015 2251	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 215	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/24/2015 215	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-004
ClientSample ID: MUI-OZ26
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:20:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	87.5	pCi/L		2	SM 7110B	04/30/2015 1733	MB
Gross Alpha Precision (±)	9.3	pCi/L			SM 7110B	04/30/2015 1733	MB
Gross Beta	49.8	pCi/L		3	SM 7110B	04/30/2015 1733	MB
Gross Beta Precision (±)	7.2	pCi/L			SM 7110B	04/30/2015 1733	MB
Lead 210	4.4	pCi/L		1	OTW01	05/04/2015 912	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/04/2015 912	MB
Polonium 210	1.6	pCi/L		1	OTW01	04/29/2015 1036	MB
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	04/29/2015 1036	MB
Radium 226	15.0	pCi/L		0.2	SM 7500 Ra-B	04/29/2015 1214	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	04/29/2015 1214	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/02/2015 741	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/02/2015 741	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 813	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1730	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1730	MB
Radionuclides - Total							
Radon 222	20600	pCi/L		100	ASTM D5072-09	04/22/2015 2233	MB
Radon-222 Precision (±)	148	pCi/L			ASTM D5072-09	04/22/2015 2233	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-010
ClientSample ID: MU1-PM1
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:19:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.7	s.u.			Field	04/28/2015 1119	
Conductivity	1901	µmhos/cm			Field	04/28/2015 1119	
Dissolved Oxygen	1.1	mg/L			Field	04/28/2015 1119	
Turbidity	9.49	NTU			Field	04/28/2015 1119	
Depth to Water	106.4	ft			Field	04/28/2015 1119	
Temperature	11.5	℃			Field	04/28/2015 1119	
Oxygen Reduction Potential (ORP)	-200.8	mV			Field	04/28/2015 1119	
Anions/Cations							
Alkalinity, Total (As CaCO3)	603	mg/L		5	SM 2320B	04/29/2015 1715	BT
Alkalinity, Bicarbonate as HCO3	640	mg/L		5	SM 2320B	04/29/2015 1715	BT
Alkalinity, Carbonate as CO3	48	mg/L		5	SM 2320B	04/29/2015 1715	BT
Chloride	7	mg/L		1	EPA 300.0	04/29/2015 2125	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	04/29/2015 1715	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1325	AMB
Sulfate	608	mg/L		1	EPA 300.0	04/29/2015 2125	AB
Calcium	7	mg/L		1	EPA 200.7	04/29/2015 1611	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1611	DG
Potassium	9	mg/L		1	EPA 200.7	04/29/2015 1611	DG
Sodium	564	mg/L		1	EPA 200.7	04/29/2015 1611	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1119	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/29/2015 1715	BT
Electrical Conductivity	2280	µmhos/cm		5	SM 2510B	04/29/2015 1715	BT
Total Dissolved Solids (180)	1600	mg/L		10	SM 2540	04/29/2015 1419	IR
Data Quality							
Cation Sum	25.38	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	24.98	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.80	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1560	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-010
ClientSample ID: MU1-PM1
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:19:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1611	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1613	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1613	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/29/2015 1611	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1613	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1611	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1613	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1611	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1613	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 936	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1613	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1611	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1613	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1613	MS
Uranium	0.0073	mg/L		0.0003	EPA 200.8	04/29/2015 1613	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1613	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1611	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 052	MS
Metals - Total							
Iron	0.19	mg/L		0.05	EPA 200.7	05/01/2015 658	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 658	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-010
ClientSample ID: MU1-PM1
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:19:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	14.6	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	4.2	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	9.8	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	1.1	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	1.0	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	1.2	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/18/2015 534	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/18/2015 534	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/12/2015 832	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/12/2015 832	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1239	MB
Radionuclides - Total							
Radon 222	3360	pCi/L		100	ASTM D5072-09	04/29/2015 2221	MB
Radon-222 Precision (±)	54.8	pCi/L			ASTM D5072-09	04/29/2015 2221	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-014
ClientSample ID: MU1-PM1-DUP
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:24:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	605	mg/L		5	SM 2320B	04/29/2015 1807	BT
Alkalinity, Bicarbonate as HCO3	641	mg/L		5	SM 2320B	04/29/2015 1807	BT
Alkalinity, Carbonate as CO3	48	mg/L		5	SM 2320B	04/29/2015 1807	BT
Chloride	7	mg/L		1	EPA 300.0	04/29/2015 2227	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/29/2015 1807	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1340	AMB
Sulfate	612	mg/L		1	EPA 300.0	04/29/2015 2227	AB
Calcium	8	mg/L		1	EPA 200.7	04/29/2015 1631	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1631	DG
Potassium	9	mg/L		1	EPA 200.7	04/29/2015 1631	DG
Sodium	567	mg/L		1	EPA 200.7	04/29/2015 1631	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1133	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/29/2015 1807	BT
Electrical Conductivity	2310	µmhos/cm		5	SM 2510B	04/29/2015 1807	BT
Total Dissolved Solids (180)	1580	mg/L		10	SM 2540	04/29/2015 1423	IR
Data Quality							
Cation Sum	25.52	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	25.11	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.80	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1570	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-014
ClientSample ID: MU1-PM1-DUP
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:24:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1631	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1635	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1635	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/29/2015 1631	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1635	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1631	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1635	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1631	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1635	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 944	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1635	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1631	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1635	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1635	MS
Uranium	0.0075	mg/L		0.0003	EPA 200.8	04/29/2015 1635	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1635	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1631	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 142	MS
Metals - Total							
Iron	0.20	mg/L		0.05	EPA 200.7	05/01/2015 715	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 715	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-014
ClientSample ID: MU1-PM1-DUP
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:24:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	19.8	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	3.5	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	21.8	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	3.3	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	1.0	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	1.5	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/18/2015 1737	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/18/2015 1737	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 842	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 842	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1645	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1645	MB
Radionuclides - Total							
Radon 222	3280	pCi/L		100	ASTM D5072-09	04/30/2015 043	MB
Radon-222 Precision (±)	54.5	pCi/L			ASTM D5072-09	04/30/2015 043	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504406001

ProjectName: ROSS MU1
Lab ID: S1504406-001
ClientSample ID: PM2
COC: 152899

WorkOrder: S1504406
CollectionDate: 4/27/2015 3:50:00 PM
DateReceived: 4/28/2015 10:04:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.58	s.u.			Field	04/27/2015 1550	
Conductivity	2570	µmhos/cm			Field	04/27/2015 1550	
Dissolved Oxygen	1.74	mg/L			Field	04/27/2015 1550	
Dissolved Oxygen (pct)	16.3	%			Field	04/27/2015 1550	
Turbidity	3.66	NTU			Field	04/27/2015 1550	
Temperature	12.1	℃			Field	04/27/2015 1550	
Oxygen Reduction Potential (ORP)	143	mV			Field	04/27/2015 1550	
Anions/Cations							
Alkalinity, Total (As CaCO3)	548	mg/L		5	SM 2320B	04/30/2015 025	BT
Alkalinity, Bicarbonate as HCO3	595	mg/L		5	SM 2320B	04/30/2015 025	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	04/30/2015 025	BT
Chloride	7	mg/L		1	EPA 300.0	05/01/2015 1908	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	04/30/2015 025	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1424	AMB
Sulfate	652	mg/L		1	EPA 300.0	05/01/2015 1908	AB
Calcium	8	mg/L		1	EPA 200.7	04/30/2015 1632	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 1632	DG
Potassium	5	mg/L		1	EPA 200.7	04/30/2015 1632	DG
Sodium	592	mg/L		1	EPA 200.7	04/30/2015 1632	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/06/2015 1139	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/30/2015 025	BT
Electrical Conductivity	2470	µmhos/cm		5	SM 2510B	04/30/2015 025	BT
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	04/30/2015 837	IR
Data Quality							
Cation Sum	26.52	meq/L		0.01	SM 1030E	05/07/2015 940	JJ
Anion Sum	24.74	meq/L		0.01	SM 1030E	05/07/2015 940	JJ
Cation-Anion Balance (± 5%)	3.47	%		0.01	SM 1030E	05/07/2015 940	JJ
Solids, Total Dissolved (Calc)	1590	mg/L		10	SM 1030E	05/07/2015 940	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504406001

ProjectName: ROSS MU1
Lab ID: S1504406-001
ClientSample ID: PM2
COC: 152899

WorkOrder: S1504406
CollectionDate: 4/27/2015 3:50:00 PM
DateReceived: 4/28/2015 10:04:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1632	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 2339	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 2339	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/30/2015 1632	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 2339	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1632	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 2339	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1632	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 2339	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1102	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 2339	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1632	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 2339	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 2339	MS
Uranium	0.0263	mg/L		0.0003	EPA 200.8	04/29/2015 2339	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 2339	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1632	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 404	MS
Metals - Total							
Iron	0.16	mg/L		0.05	EPA 200.7	05/01/2015 1930	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 1930	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504406001

ProjectName: ROSS MU1
Lab ID: S1504406-001
ClientSample ID: PM2
COC: 152899

WorkOrder: S1504406
CollectionDate: 4/27/2015 3:50:00 PM
DateReceived: 4/28/2015 10:04:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	38.2	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	5.1	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	13.0	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	3.4	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1741	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1741	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1045	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1045	MB
Radium 226	1.8	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1508	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/11/2015 1508	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 1742	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 1742	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/20/2015 216	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/20/2015 216	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1756	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1756	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	2630	pCi/L		100	ASTM D5072-09	04/30/2015 1123	MB
Radon-222 Precision (±)	54.1	pCi/L			ASTM D5072-09	04/30/2015 1123	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-002
ClientSample ID: PM3
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 3:00:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.79	s.u.			Field	04/27/2015 1500	
Conductivity	2430	µmhos/cm			Field	04/27/2015 1500	
Dissolved Oxygen	1.76	mg/L			Field	04/27/2015 1500	
Dissolved Oxygen (pct)	15.5	%			Field	04/27/2015 1500	
Turbidity	1.34	NTU			Field	04/27/2015 1500	
Temperature	11.4	℃			Field	04/27/2015 1500	
Oxygen Reduction Potential (ORP)	90	mV			Field	04/27/2015 1500	
Anions/Cations							
Alkalinity, Total (As CaCO3)	560	mg/L		5	SM 2320B	04/29/2015 2359	BT
Alkalinity, Bicarbonate as HCO3	597	mg/L		5	SM 2320B	04/29/2015 2359	BT
Alkalinity, Carbonate as CO3	43	mg/L		5	SM 2320B	04/29/2015 2359	BT
Chloride	6	mg/L		1	EPA 300.0	05/01/2015 643	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	04/29/2015 2359	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1412	AMB
Sulfate	548	mg/L		1	EPA 300.0	05/04/2015 2003	AB
Calcium	4	mg/L		1	EPA 200.7	04/30/2015 1627	DG
Magnesium	2	mg/L		1	EPA 200.7	04/30/2015 1627	DG
Potassium	9	mg/L		1	EPA 200.7	04/30/2015 1627	DG
Sodium	555	mg/L		1	EPA 200.7	04/30/2015 1627	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1201	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/29/2015 2359	BT
Electrical Conductivity	2310	µmhos/cm		5	SM 2510B	04/29/2015 2359	BT
Total Dissolved Solids (180)	1550	mg/L		10	SM 2540	04/30/2015 835	IR
Data Quality							
Cation Sum	24.77	meq/L		0.01	SM 1030E	05/07/2015 933	JJ
Anion Sum	22.81	meq/L		0.01	SM 1030E	05/07/2015 933	JJ
Cation-Anion Balance (± 5%)	4.11	%		0.01	SM 1030E	05/07/2015 933	JJ
Solids, Total Dissolved (Calc)	1460	mg/L		10	SM 1030E	05/07/2015 933	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-002
ClientSample ID: PM3
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 3:00:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1627	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 2328	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 2328	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/30/2015 1627	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 2328	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1627	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 2328	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1627	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 2328	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1052	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 2328	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1627	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 2328	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 2328	MS
Uranium	0.0234	mg/L		0.0003	EPA 200.8	04/29/2015 2328	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 2328	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1627	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 353	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/01/2015 1914	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 1914	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-002
ClientSample ID: PM3
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 3:00:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	36.1	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	5.2	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	12.0	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	3.3	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1508	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1508	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 1141	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 1141	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	1770	pCi/L		100	ASTM D5072-09	04/30/2015 1012	MB
Radon-222 Precision (±)	43.8	pCi/L			ASTM D5072-09	04/30/2015 1012	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-003
ClientSample ID: PM4
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 9:20:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.56	s.u.			Field	04/28/2015 920	
Conductivity	2310	µmhos/cm			Field	04/28/2015 920	
Dissolved Oxygen	2.68	mg/L			Field	04/28/2015 920	
Dissolved Oxygen (pct)	23.2	%			Field	04/28/2015 920	
Turbidity	0.78	NTU			Field	04/28/2015 920	
Temperature	11.1	℃			Field	04/28/2015 920	
Oxygen Reduction Potential (ORP)	-205	mV			Field	04/28/2015 920	
Anions/Cations							
Alkalinity, Total (As CaCO3)	613	mg/L		5	SM 2320B	04/29/2015 1504	BT
Alkalinity, Bicarbonate as HCO3	683	mg/L		5	SM 2320B	04/29/2015 1504	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	04/29/2015 1504	BT
Chloride	7	mg/L		1	EPA 300.0	04/29/2015 1806	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/29/2015 1504	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1107	AMB
Sulfate	519	mg/L		1	EPA 300.0	04/29/2015 1806	AB
Calcium	6	mg/L		1	EPA 200.7	04/29/2015 1542	DG
Magnesium	2	mg/L		1	EPA 200.7	04/29/2015 1542	DG
Potassium	5	mg/L		1	EPA 200.7	04/29/2015 1542	DG
Sodium	542	mg/L		1	EPA 200.7	04/29/2015 1542	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1110	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 1504	BT
Electrical Conductivity	2220	µmhos/cm		5	SM 2510B	04/29/2015 1504	BT
Total Dissolved Solids (180)	1500	mg/L		10	SM 2540	04/29/2015 1411	IR
Data Quality							
Cation Sum	24.23	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	23.31	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	1.92	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1450	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-003
ClientSample ID: PM4
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 9:20:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1542	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1504	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1504	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/29/2015 1542	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1504	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1542	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1504	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1542	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1504	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 913	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1504	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1542	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1504	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1504	MS
Uranium	0.0031	mg/L		0.0003	EPA 200.8	04/29/2015 1504	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1504	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1542	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 003	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 625	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 625	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-003
ClientSample ID: PM4
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 9:20:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	6.0	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	3.3	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	5.7	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 1517	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 1517	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/12/2015 832	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/12/2015 832	MB
Radionuclides - Suspended							
Lead 210	1.8	pCi/L		1	OTW01	05/14/2015 1309	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/14/2015 1309	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 817	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 817	MB
Radionuclides - Total							
Radon 222	1980	pCi/L		100	ASTM D5072-09	04/29/2015 1812	MB
Radon-222 Precision (±)	41.2	pCi/L			ASTM D5072-09	04/29/2015 1812	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-002
ClientSample ID: PM5
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 9:45:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.74	s.u.			Field	04/28/2015 945	
Conductivity	2040	µmhos/cm			Field	04/28/2015 945	
Dissolved Oxygen	1.87	mg/L			Field	04/28/2015 945	
Dissolved Oxygen (pct)	16.9	%			Field	04/28/2015 945	
Turbidity	0	NTU			Field	04/28/2015 945	
Temperature	11.0	℃			Field	04/28/2015 945	
Oxygen Reduction Potential (ORP)	-258	mV			Field	04/28/2015 945	
Anions/Cations							
Alkalinity, Total (As CaCO3)	634	mg/L		5	SM 2320B	04/29/2015 1451	BT
Alkalinity, Bicarbonate as HCO3	690	mg/L		5	SM 2320B	04/29/2015 1451	BT
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	04/29/2015 1451	BT
Chloride	6	mg/L		1	EPA 300.0	04/29/2015 1750	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	04/29/2015 1451	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1106	AMB
Sulfate	372	mg/L		1	EPA 300.0	04/29/2015 1750	AB
Calcium	5	mg/L		1	EPA 200.7	04/29/2015 1537	DG
Magnesium	2	mg/L		1	EPA 200.7	04/29/2015 1537	DG
Potassium	7	mg/L		1	EPA 200.7	04/29/2015 1537	DG
Sodium	479	mg/L		1	EPA 200.7	04/29/2015 1537	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/05/2015 1109	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/29/2015 1451	BT
Electrical Conductivity	1950	µmhos/cm		5	SM 2510B	04/29/2015 1451	BT
Total Dissolved Solids (180)	1300	mg/L		10	SM 2540	04/29/2015 1410	IR
Data Quality							
Cation Sum	21.43	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	20.65	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	1.85	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1250	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-002
ClientSample ID: PM5
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 9:45:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1537	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	04/29/2015 1458	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1458	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/29/2015 1537	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1458	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1537	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1458	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1537	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1458	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 911	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1458	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1537	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1458	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1458	MS
Uranium	0.0028	mg/L		0.0003	EPA 200.8	04/29/2015 1458	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1458	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1537	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/05/2015 2357	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 611	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 611	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-002
ClientSample ID: PM5
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 9:45:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.5	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	1.8	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	8.2	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	2.8	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 1216	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 1216	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 1324	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 1324	MB
Radionuclides - Suspended							
Lead 210	3.2	pCi/L		1	OTW01	05/14/2015 1309	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/14/2015 1309	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 817	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 817	MB
Radionuclides - Total							
Radon 222	973	pCi/L		100	ASTM D5072-09	04/29/2015 1737	MB
Radon-222 Precision (±)	28.1	pCi/L			ASTM D5072-09	04/29/2015 1737	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-010
ClientSample ID: PM 6
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 10:40:00 AM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.61	s.u.			Field	04/24/2015 1040	
Conductivity	2540	µmhos/cm			Field	04/24/2015 1040	
Dissolved Oxygen	1.85	mg/L			Field	04/24/2015 1040	
Dissolved Oxygen (pct)	19.2	%			Field	04/24/2015 1040	
Turbidity	7.49	NTU			Field	04/24/2015 1040	
Temperature	11.4	℃			Field	04/24/2015 1040	
Oxygen Reduction Potential (ORP)	+147	mV			Field	04/24/2015 1040	
Anions/Cations							
Alkalinity, Total (As CaCO3)	552	mg/L		5	SM 2320B	04/28/2015 1719	BT
Alkalinity, Bicarbonate as HCO3	608	mg/L		5	SM 2320B	04/28/2015 1719	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	04/28/2015 1719	BT
Chloride	6	mg/L		1	EPA 300.0	04/27/2015 1924	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	04/28/2015 1719	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1420	AMB
Sulfate	625	mg/L		1	EPA 300.0	04/27/2015 1924	AB
Calcium	5	mg/L		1	EPA 200.7	04/27/2015 1916	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1916	DG
Potassium	6	mg/L		1	EPA 200.7	04/27/2015 1916	DG
Sodium	548	mg/L		1	EPA 200.7	04/27/2015 1916	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/01/2015 1617	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/28/2015 1719	BT
Electrical Conductivity	2360	µmhos/cm		5	SM 2510B	04/28/2015 1719	BT
Total Dissolved Solids (180)	1720	mg/L		10	SM 2540	04/27/2015 1435	IR
Data Quality							
Cation Sum	24.44	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	24.24	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.42	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1520	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-010
ClientSample ID: PM 6
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 10:40:00 AM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1916	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1815	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1815	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/27/2015 1916	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1815	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1916	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1815	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1916	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1815	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1150	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1815	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1916	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1815	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1815	MS
Uranium	0.0547	mg/L		0.0003	EPA 200.8	04/27/2015 1815	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1815	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1916	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	04/27/2015 2349	MS
Metals - Total							
Iron	0.09	mg/L		0.05	EPA 200.7	05/01/2015 526	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 526	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-010
ClientSample ID: PM 6
COC: 152897

WorkOrder: S1504374
CollectionDate: 4/24/2015 10:40:00 AM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	59.4	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	6.3	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	15.9	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	3.5	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 2112	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 2112	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1214	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1214	MB
Radionuclides - Suspended							
Lead 210	2.3	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 1324	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 1324	MB
Radionuclides - Total							
Radon 222	2680	pCi/L		100	ASTM D5072-09	04/25/2015 1600	MB
Radon-222 Precision (±)	47.7	pCi/L			ASTM D5072-09	04/25/2015 1600	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-001
ClientSample ID: PM7
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 5:05:00 PM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.84	s.u.			Field	04/23/2015 1705	
Conductivity	2180	µmhos/cm			Field	04/23/2015 1705	
Dissolved Oxygen	1.58	mg/L			Field	04/23/2015 1705	
Dissolved Oxygen (pct)	14.7	%			Field	04/23/2015 1705	
Turbidity	1.45	NTU			Field	04/23/2015 1705	
Temperature	11.6	℃			Field	04/23/2015 1705	
Oxygen Reduction Potential (ORP)	+34	mV			Field	04/23/2015 1705	
Anions/Cations							
Alkalinity, Total (As CaCO3)	659	mg/L		5	SM 2320B	04/28/2015 1502	BT
Alkalinity, Bicarbonate as HCO3	705	mg/L		5	SM 2320B	04/28/2015 1502	BT
Alkalinity, Carbonate as CO3	49	mg/L		5	SM 2320B	04/28/2015 1502	BT
Chloride	6	mg/L		1	EPA 300.0	04/27/2015 1614	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/28/2015 1502	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/27/2015 1525	AMB
Sulfate	383	mg/L		1	EPA 300.0	04/27/2015 1614	AB
Calcium	5	mg/L		1	EPA 200.7	04/27/2015 1840	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1840	DG
Potassium	8	mg/L		1	EPA 200.7	04/27/2015 1840	DG
Sodium	463	mg/L		1	EPA 200.7	04/27/2015 1840	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	04/28/2015 1556	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/28/2015 1502	BT
Electrical Conductivity	2020	µmhos/cm		5	SM 2510B	04/28/2015 1502	BT
Total Dissolved Solids (180)	1570	mg/L		10	SM 2540	04/27/2015 1425	IR
Data Quality							
Cation Sum	20.77	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	21.38	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	1.44	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1260	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-001
ClientSample ID: PM7
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 5:05:00 PM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1840	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1648	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1648	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/27/2015 1840	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1648	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1840	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1648	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1840	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1648	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1118	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1648	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1840	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1648	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1648	MS
Uranium	0.0115	mg/L		0.0003	EPA 200.8	04/27/2015 1648	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1648	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1840	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2233	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 451	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 451	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-001
ClientSample ID: PM7
COC: 152918

WorkOrder: S1504374
CollectionDate: 4/23/2015 5:05:00 PM
DateReceived: 4/24/2015 2:47:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	22.1	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	3.6	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	38.0	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	3.7	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	14.1	pCi/L		1	OTW01	05/05/2015 1515	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	05/05/2015 1515	MB
Polonium 210	ND	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/11/2015 1804	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/11/2015 1804	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 802	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1311	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1311	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1604	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1604	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	2160	pCi/L		100	ASTM D5072-09	04/25/2015 519	MB
Radon-222 Precision (±)	43.7	pCi/L			ASTM D5072-09	04/25/2015 519	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-003
ClientSample ID: PM8
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 2:35:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.67	s.u.			Field	04/27/2015 1435	
Conductivity	2590	µmhos/cm			Field	04/27/2015 1435	
Dissolved Oxygen	1.62	mg/L			Field	04/27/2015 1435	
Dissolved Oxygen (pct)	14.9	%			Field	04/27/2015 1435	
Turbidity	0.28	NTU			Field	04/27/2015 1435	
Temperature	11.4	℃			Field	04/27/2015 1435	
Oxygen Reduction Potential (ORP)	124	mV			Field	04/27/2015 1435	
Anions/Cations							
Alkalinity, Total (As CaCO3)	601	mg/L		5	SM 2320B	04/30/2015 012	BT
Alkalinity, Bicarbonate as HCO3	644	mg/L		5	SM 2320B	04/30/2015 012	BT
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	04/30/2015 012	BT
Chloride	6	mg/L		1	EPA 300.0	05/01/2015 658	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	04/30/2015 012	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1413	AMB
Sulfate	571	mg/L		1	EPA 300.0	05/04/2015 2018	AB
Calcium	6	mg/L		1	EPA 200.7	04/30/2015 1630	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 1630	DG
Potassium	6	mg/L		1	EPA 200.7	04/30/2015 1630	DG
Sodium	589	mg/L		1	EPA 200.7	04/30/2015 1630	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/05/2015 1202	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/30/2015 012	BT
Electrical Conductivity	2460	µmhos/cm		5	SM 2510B	04/30/2015 012	BT
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	04/30/2015 836	IR
Data Quality							
Cation Sum	26.34	meq/L		0.01	SM 1030E	05/07/2015 933	JJ
Anion Sum	24.10	meq/L		0.01	SM 1030E	05/07/2015 933	JJ
Cation-Anion Balance (± 5%)	4.45	%		0.01	SM 1030E	05/07/2015 933	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	05/07/2015 933	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-003
ClientSample ID: PM8
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 2:35:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1630	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 2334	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 2334	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/30/2015 1630	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 2334	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1630	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 2334	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1630	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 2334	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1100	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 2334	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1630	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 2334	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 2334	MS
Uranium	0.0588	mg/L		0.0003	EPA 200.8	04/29/2015 2334	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 2334	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1630	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 359	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 1928	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 1928	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-003
ClientSample ID: PM8
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 2:35:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	66.8	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	6.7	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	24.3	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	3.7	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	1.0	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1508	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/11/2015 1508	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 1441	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 1441	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	2570	pCi/L		100	ASTM D5072-09	04/30/2015 1048	MB
Radon-222 Precision (±)	53.8	pCi/L			ASTM D5072-09	04/30/2015 1048	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-013
ClientSample ID: PM 9
COC: 152898

WorkOrder: S1504374
CollectionDate: 4/24/2015 12:45:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.82	s.u.			Field	04/24/2015 1245	
Conductivity	2570	µmhos/cm			Field	04/24/2015 1245	
Dissolved Oxygen	1.46	mg/L			Field	04/24/2015 1245	
Dissolved Oxygen (pct)	13.8	%			Field	04/24/2015 1245	
Turbidity	7.5	NTU			Field	04/24/2015 1245	
Temperature	11.3	℃			Field	04/24/2015 1245	
Oxygen Reduction Potential (ORP)	+99	mV			Field	04/24/2015 1245	
Anions/Cations							
Alkalinity, Total (As CaCO3)	623	mg/L		5	SM 2320B	04/28/2015 1811	BT
Alkalinity, Bicarbonate as HCO3	665	mg/L		5	SM 2320B	04/28/2015 1811	BT
Alkalinity, Carbonate as CO3	47	mg/L		5	SM 2320B	04/28/2015 1811	BT
Chloride	7	mg/L		1	EPA 300.0	04/27/2015 2005	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	04/28/2015 1811	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1425	AMB
Sulfate	604	mg/L		1	EPA 300.0	04/27/2015 2005	AB
Calcium	4	mg/L		1	EPA 200.7	04/27/2015 1934	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1934	DG
Potassium	9	mg/L		1	EPA 200.7	04/27/2015 1934	DG
Sodium	556	mg/L		1	EPA 200.7	04/27/2015 1934	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/01/2015 1621	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/28/2015 1811	BT
Electrical Conductivity	2410	µmhos/cm		5	SM 2510B	04/28/2015 1811	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	04/27/2015 1438	IR
Data Quality							
Cation Sum	24.78	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	25.23	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.91	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1550	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-013
ClientSample ID: PM 9
COC: 152898

WorkOrder: S1504374
CollectionDate: 4/24/2015 12:45:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1934	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1832	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1832	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/27/2015 1934	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1832	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1934	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1832	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1934	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1832	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1155	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1832	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1934	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1832	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1832	MS
Uranium	0.0473	mg/L		0.0003	EPA 200.8	04/27/2015 1832	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1832	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1934	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/28/2015 017	MS
Metals - Total							
Iron	0.09	mg/L		0.05	EPA 200.7	05/01/2015 540	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 540	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-013
ClientSample ID: PM 9
COC: 152898

WorkOrder: S1504374
CollectionDate: 4/24/2015 12:45:00 PM
DateReceived: 4/24/2015 2:48:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	47.8	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	5.5	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	13.8	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	1.1	pCi/L		1	OTW01	05/11/2015 1311	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/11/2015 1311	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1604	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1604	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 615	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 615	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1214	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1214	MB
Radionuclides - Suspended							
Lead 210	2.2	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 1324	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 1324	MB
Radionuclides - Total							
Radon 222	2350	pCi/L		100	ASTM D5072-09	04/25/2015 1933	MB
Radon-222 Precision (±)	44.8	pCi/L			ASTM D5072-09	04/25/2015 1933	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-001
ClientSample ID: PM10
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 2:06:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.66	s.u.			Field	04/27/2015 1406	
Conductivity	2740	µmhos/cm			Field	04/27/2015 1406	
Dissolved Oxygen	2.42	mg/L			Field	04/27/2015 1406	
Dissolved Oxygen (pct)	22.2	%			Field	04/27/2015 1406	
Turbidity	2.78	NTU			Field	04/27/2015 1406	
Temperature	10.9	℃			Field	04/27/2015 1406	
Oxygen Reduction Potential (ORP)	-41	mV			Field	04/27/2015 1406	
Anions/Cations							
Alkalinity, Total (As CaCO3)	617	mg/L		5	SM 2320B	04/29/2015 2344	BT
Alkalinity, Bicarbonate as HCO3	662	mg/L		5	SM 2320B	04/29/2015 2344	BT
Alkalinity, Carbonate as CO3	45	mg/L		5	SM 2320B	04/29/2015 2344	BT
Chloride	8	mg/L		1	EPA 300.0	04/30/2015 318	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	04/29/2015 2344	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1410	AMB
Sulfate	719	mg/L		1	EPA 300.0	04/30/2015 318	AB
Calcium	7	mg/L		1	EPA 200.7	04/30/2015 1625	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 1625	DG
Potassium	8	mg/L		1	EPA 200.7	04/30/2015 1625	DG
Sodium	625	mg/L		1	EPA 200.7	04/30/2015 1625	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/05/2015 1159	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/29/2015 2344	BT
Electrical Conductivity	2580	µmhos/cm		5	SM 2510B	04/29/2015 2344	BT
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	04/30/2015 834	IR
Data Quality							
Cation Sum	27.99	meq/L		0.01	SM 1030E	05/07/2015 933	JJ
Anion Sum	27.55	meq/L		0.01	SM 1030E	05/07/2015 933	JJ
Cation-Anion Balance (± 5%)	0.78	%		0.01	SM 1030E	05/07/2015 933	JJ
Solids, Total Dissolved (Calc)	1740	mg/L		10	SM 1030E	05/07/2015 933	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-001
ClientSample ID: PM10
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 2:06:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1625	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	04/29/2015 2255	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 2255	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/30/2015 1625	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 2255	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1625	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 2255	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1625	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 2255	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1043	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 2255	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1625	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 2255	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 2255	MS
Uranium	0.0375	mg/L		0.0003	EPA 200.8	04/29/2015 2255	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 2255	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1625	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 348	MS
Metals - Total							
Iron	0.10	mg/L		0.05	EPA 200.7	05/01/2015 1910	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 1910	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504404001

ProjectName: Ross MU1 ISR
Lab ID: S1504404-001
ClientSample ID: PM10
COC: 152896

WorkOrder: S1504404
CollectionDate: 4/27/2015 2:06:00 PM
DateReceived: 4/28/2015 10:20:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	42.1	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	6.4	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	13.0	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	5.6	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	1.9	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1508	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/11/2015 1508	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 840	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 840	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	2120	pCi/L		100	ASTM D5072-09	04/30/2015 937	MB
Radon-222 Precision (±)	48.4	pCi/L			ASTM D5072-09	04/30/2015 937	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-027
ClientSample ID: PM11
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:25:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.79	s.u.			Field	04/28/2015 1125	
Conductivity	2340	µmhos/cm			Field	04/28/2015 1125	
Dissolved Oxygen	2.28	mg/L			Field	04/28/2015 1125	
Dissolved Oxygen (pct)	21.5	%			Field	04/28/2015 1125	
Turbidity	2.05	NTU			Field	04/28/2015 1125	
Temperature	11.3	℃			Field	04/28/2015 1125	
Oxygen Reduction Potential (ORP)	59	mV			Field	04/28/2015 1125	
Anions/Cations							
Alkalinity, Total (As CaCO3)	579	mg/L		5	SM 2320B	04/29/2015 2239	BT
Alkalinity, Bicarbonate as HCO3	609	mg/L		5	SM 2320B	04/29/2015 2239	BT
Alkalinity, Carbonate as CO3	48	mg/L		5	SM 2320B	04/29/2015 2239	BT
Chloride	7	mg/L		1	EPA 300.0	04/30/2015 303	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	04/29/2015 2239	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1409	AMB
Sulfate	580	mg/L		1	EPA 300.0	04/30/2015 303	AB
Calcium	5	mg/L		1	EPA 200.7	04/29/2015 1727	DG
Magnesium	2	mg/L		1	EPA 200.7	04/29/2015 1727	DG
Potassium	8	mg/L		1	EPA 200.7	04/29/2015 1727	DG
Sodium	536	mg/L		1	EPA 200.7	04/29/2015 1727	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1158	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/29/2015 2239	BT
Electrical Conductivity	2190	µmhos/cm		5	SM 2510B	04/29/2015 2239	BT
Total Dissolved Solids (180)	1520	mg/L		10	SM 2540	04/29/2015 1438	IR
Data Quality							
Cation Sum	23.95	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	23.87	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.15	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1480	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-027
ClientSample ID: PM11
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:25:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1727	DG
Arsenic	0.008	mg/L		0.005	EPA 200.8	04/29/2015 1837	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1837	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/29/2015 1727	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1837	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1727	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1837	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1727	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1837	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1033	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1837	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1727	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1837	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1837	MS
Uranium	0.0110	mg/L		0.0003	EPA 200.8	04/29/2015 1837	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1837	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1727	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 331	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/01/2015 814	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 814	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-027
ClientSample ID: PM11
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:25:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	17.3	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	3.5	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	9.8	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 539	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	2550	pCi/L		100	ASTM D5072-09	04/30/2015 901	MB
Radon-222 Precision (±)	49.3	pCi/L			ASTM D5072-09	04/30/2015 901	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-012
ClientSample ID: MU1-PM12
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:18:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.4	s.u.			Field	04/28/2015 1518	
Conductivity	1564	µmhos/cm			Field	04/28/2015 1518	
Dissolved Oxygen	0.24	mg/L			Field	04/28/2015 1518	
Turbidity	8.35	NTU			Field	04/28/2015 1518	
Depth to Water	37.65	ft			Field	04/28/2015 1518	
Temperature	10.7	℃			Field	04/28/2015 1518	
Oxygen Reduction Potential (ORP)	-197.5	mV			Field	04/28/2015 1518	
Anions/Cations							
Alkalinity, Total (As CaCO3)	640	mg/L		5	SM 2320B	04/29/2015 1741	BT
Alkalinity, Bicarbonate as HCO3	709	mg/L		5	SM 2320B	04/29/2015 1741	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/29/2015 1741	BT
Chloride	5	mg/L		1	EPA 300.0	04/29/2015 2156	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	04/29/2015 1741	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1337	AMB
Sulfate	376	mg/L		1	EPA 300.0	04/29/2015 2156	AB
Calcium	6	mg/L		1	EPA 200.7	04/29/2015 1626	DG
Magnesium	2	mg/L		1	EPA 200.7	04/29/2015 1626	DG
Potassium	6	mg/L		1	EPA 200.7	04/29/2015 1626	DG
Sodium	483	mg/L		1	EPA 200.7	04/29/2015 1626	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/05/2015 1130	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 1741	BT
Electrical Conductivity	1940	µmhos/cm		5	SM 2510B	04/29/2015 1741	BT
Total Dissolved Solids (180)	1300	mg/L		10	SM 2540	04/29/2015 1421	IR
Data Quality							
Cation Sum	21.67	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	20.79	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	2.05	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1260	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-012
ClientSample ID: MU1-PM12
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:18:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1626	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	04/29/2015 1624	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1624	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/29/2015 1626	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1624	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1626	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1624	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1626	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1624	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 940	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1624	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1626	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1624	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1624	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	04/29/2015 1624	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1624	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1626	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 120	MS
Metals - Total							
Iron	0.12	mg/L		0.05	EPA 200.7	05/01/2015 710	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 710	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-012
ClientSample ID: MU1-PM12
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:18:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.3	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	1.8	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	7.0	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	2.3	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/18/2015 1136	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/18/2015 1136	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 842	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 842	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1239	MB
Radionuclides - Total							
Radon 222	561	pCi/L		100	ASTM D5072-09	04/29/2015 2332	MB
Radon-222 Precision (±)	20.6	pCi/L			ASTM D5072-09	04/29/2015 2332	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-015
ClientSample ID: PM13
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:20:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.50	s.u.			Field	04/29/2015 1520	
Conductivity	1927	µmhos/cm			Field	04/29/2015 1520	
Dissolved Oxygen	1.70	mg/L			Field	04/29/2015 1520	
Dissolved Oxygen (pct)	16.2	%			Field	04/29/2015 1520	
Turbidity	1.60	NTU			Field	04/29/2015 1520	
Temperature	11.5	℃			Field	04/29/2015 1520	
Oxygen Reduction Potential (ORP)	-70	mV			Field	04/29/2015 1520	
Anions/Cations							
Alkalinity, Total (As CaCO3)	692	mg/L		5	SM 2320B	05/02/2015 236	BT
Alkalinity, Bicarbonate as HCO3	714	mg/L		5	SM 2320B	05/02/2015 236	BT
Alkalinity, Carbonate as CO3	64	mg/L		5	SM 2320B	05/02/2015 236	BT
Chloride	4	mg/L		1	EPA 300.0	05/06/2015 006	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	05/02/2015 236	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1458	AMB
Sulfate	315	mg/L		1	EPA 300.0	05/06/2015 1120	AB
Calcium	6	mg/L		1	EPA 200.7	04/30/2015 2035	DG
Magnesium	2	mg/L		1	EPA 200.7	04/30/2015 2035	DG
Potassium	5	mg/L		1	EPA 200.7	04/30/2015 2035	DG
Sodium	461	mg/L		1	EPA 200.7	04/30/2015 2035	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/06/2015 1211	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/02/2015 236	BT
Electrical Conductivity	1930	µmhos/cm		5	SM 2510B	05/02/2015 236	BT
Total Dissolved Solids (180)	1270	mg/L		10	SM 2540	04/30/2015 1045	IR
Data Quality							
Cation Sum	20.70	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	20.55	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	0.36	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1210	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-015
ClientSample ID: PM13
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:20:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2035	DG
Arsenic	0.013	mg/L		0.005	EPA 200.8	04/30/2015 2026	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2026	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/30/2015 2035	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2026	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2035	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2026	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2035	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2026	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1138	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2026	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2035	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2026	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2026	MS
Uranium	0.0034	mg/L		0.0003	EPA 200.8	04/30/2015 2026	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2026	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2035	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 115	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/05/2015 1041	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1041	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-015
ClientSample ID: PM13
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:20:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	4.6	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	2.1	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	5.9	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/25/2015 2247	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/25/2015 2247	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1802	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	05/27/2015 1241	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/27/2015 1241	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1555	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1555	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/24/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/24/2015 812	MB
Radionuclides - Total							
Radon 222	1640	pCi/L		100	ASTM D5072-09	05/02/2015 307	MB
Radon-222 Precision (±)	41.1	pCi/L			ASTM D5072-09	05/02/2015 307	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-021
ClientSample ID: MU1-PM14A
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 4:59:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.0	s.u.			Field	04/28/2015 1659	
Conductivity	2020	µmhos/cm			Field	04/28/2015 1659	
Dissolved Oxygen	0.07	mg/L			Field	04/28/2015 1659	
Turbidity	10.7	NTU			Field	04/28/2015 1659	
Depth to Water	78.05	ft			Field	04/28/2015 1659	
Temperature	11.8	℃			Field	04/28/2015 1659	
Oxygen Reduction Potential (ORP)	-207	mV			Field	04/28/2015 1659	
Anions/Cations							
Alkalinity, Total (As CaCO3)	450	mg/L		5	SM 2320B	04/29/2015 2021	BT
Alkalinity, Bicarbonate as HCO3	429	mg/L		5	SM 2320B	04/29/2015 2021	BT
Alkalinity, Carbonate as CO3	59	mg/L		5	SM 2320B	04/29/2015 2021	BT
Chloride	7	mg/L		1	EPA 300.0	04/30/2015 131	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	04/29/2015 2021	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1351	AMB
Sulfate	621	mg/L		1	EPA 300.0	04/30/2015 131	AB
Calcium	6	mg/L		1	EPA 200.7	04/29/2015 1700	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1700	DG
Potassium	10	mg/L		1	EPA 200.7	04/29/2015 1700	DG
Sodium	495	mg/L		1	EPA 200.7	04/29/2015 1700	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/05/2015 1150	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	04/29/2015 2021	BT
Electrical Conductivity	2070	µmhos/cm		5	SM 2510B	04/29/2015 2021	BT
Total Dissolved Solids (180)	1440	mg/L		10	SM 2540	04/29/2015 1431	IR
Data Quality							
Cation Sum	22.35	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	22.12	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.51	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-021
ClientSample ID: MU1-PM14A
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 4:59:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1700	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1804	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1804	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/29/2015 1700	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1804	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1700	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1804	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1700	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1804	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1012	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1804	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1700	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1804	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1804	MS
Uranium	0.0039	mg/L		0.0003	EPA 200.8	04/29/2015 1804	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1804	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1700	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 242	MS
Metals - Total							
Iron	0.21	mg/L		0.05	EPA 200.7	05/01/2015 738	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 738	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-021
ClientSample ID: MU1-PM14A
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 4:59:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	13.3	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	3.3	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	11.0	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	1.8	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/19/2015 1443	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/19/2015 1443	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1101	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1101	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1429	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1429	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 812	MB
Radionuclides - Total							
Radon 222	3100	pCi/L		100	ASTM D5072-09	04/30/2015 528	MB
Radon-222 Precision (±)	52.6	pCi/L			ASTM D5072-09	04/30/2015 528	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-020
ClientSample ID: MU1-PM15
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 2:49:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.3	s.u.			Field	04/28/2015 1449	
Conductivity	2100	µmhos/cm			Field	04/28/2015 1449	
Dissolved Oxygen	0.11	mg/L			Field	04/28/2015 1449	
Turbidity	3.77	NTU			Field	04/28/2015 1449	
Depth to Water	74.81	ft			Field	04/28/2015 1449	
Temperature	11.8	℃			Field	04/28/2015 1449	
Oxygen Reduction Potential (ORP)	-207	mV			Field	04/28/2015 1449	
Anions/Cations							
Alkalinity, Total (As CaCO3)	543	mg/L		5	SM 2320B	04/29/2015 2008	BT
Alkalinity, Bicarbonate as HCO3	582	mg/L		5	SM 2320B	04/29/2015 2008	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	04/29/2015 2008	BT
Chloride	8	mg/L		1	EPA 300.0	04/30/2015 115	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/29/2015 2008	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1349	AMB
Sulfate	623	mg/L		1	EPA 300.0	04/30/2015 115	AB
Calcium	18	mg/L		1	EPA 200.7	04/29/2015 1658	DG
Magnesium	11	mg/L		1	EPA 200.7	04/29/2015 1658	DG
Potassium	11	mg/L		1	EPA 200.7	04/29/2015 1658	DG
Sodium	503	mg/L		1	EPA 200.7	04/29/2015 1658	DG
Nitrogen, Ammonia (As N)	0.9	mg/L		0.1	EPA 350.1	05/05/2015 1141	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 2008	BT
Electrical Conductivity	2150	µmhos/cm		5	SM 2510B	04/29/2015 2008	BT
Total Dissolved Solids (180)	1500	mg/L		10	SM 2540	04/29/2015 1430	IR
Data Quality							
Cation Sum	23.97	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	24.06	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.19	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1500	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-020
ClientSample ID: MU1-PM15
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 2:49:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1658	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1758	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1758	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/29/2015 1658	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1758	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1658	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1758	MS
Iron	0.16	mg/L		0.05	EPA 200.7	04/29/2015 1658	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1758	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1010	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1758	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1658	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1758	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1758	MS
Uranium	0.0346	mg/L		0.0003	EPA 200.8	04/29/2015 1758	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1758	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1658	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 215	MS
Metals - Total							
Iron	0.20	mg/L		0.05	EPA 200.7	05/01/2015 736	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 736	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-020
ClientSample ID: MU1-PM15
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 2:49:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	51.2	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	7.2	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	27.7	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	6.4	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	2.4	pCi/L		1	OTW01	05/14/2015 1309	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/14/2015 1309	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1618	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1618	MB
Radium 226	4.7	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/19/2015 1143	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/19/2015 1143	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1101	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1101	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1429	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1429	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 812	MB
Radionuclides - Total							
Radon 222	13300	pCi/L		100	ASTM D5072-09	04/30/2015 452	MB
Radon-222 Precision (±)	112	pCi/L			ASTM D5072-09	04/30/2015 452	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-006
ClientSample ID: MU1-PM16
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:59:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.9	s.u.			Field	04/28/2015 1359	
Conductivity	2010	µmhos/cm			Field	04/28/2015 1359	
Dissolved Oxygen	1.33	mg/L			Field	04/28/2015 1359	
Turbidity	45.2	NTU			Field	04/28/2015 1359	
Depth to Water	78.79	ft			Field	04/28/2015 1359	
Temperature	10.8	℃			Field	04/28/2015 1359	
Oxygen Reduction Potential (ORP)	-201.8	mV			Field	04/28/2015 1359	
Anions/Cations							
Alkalinity, Total (As CaCO3)	563	mg/L		5	SM 2320B	04/29/2015 1620	BT
Alkalinity, Bicarbonate as HCO3	604	mg/L		5	SM 2320B	04/29/2015 1620	BT
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	04/29/2015 1620	BT
Chloride	6	mg/L		1	EPA 300.0	04/29/2015 1852	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	04/29/2015 1620	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1112	AMB
Sulfate	461	mg/L		1	EPA 300.0	04/29/2015 1852	AB
Calcium	4	mg/L		1	EPA 200.7	04/29/2015 1600	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1600	DG
Potassium	14	mg/L		1	EPA 200.7	04/29/2015 1600	DG
Sodium	483	mg/L		1	EPA 200.7	04/29/2015 1600	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1114	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/29/2015 1620	BT
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	04/29/2015 1620	BT
Total Dissolved Solids (180)	1340	mg/L		10	SM 2540	04/29/2015 1414	IR
Data Quality							
Cation Sum	21.82	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	21.06	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	1.76	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1310	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-006
ClientSample ID: MU1-PM16
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:59:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1600	DG
Arsenic	0.009	mg/L		0.005	EPA 200.8	04/29/2015 1524	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1524	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/29/2015 1600	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1524	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1600	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1524	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1600	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1524	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 929	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1524	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1600	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1524	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1524	MS
Uranium	0.0316	mg/L		0.0003	EPA 200.8	04/29/2015 1524	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1524	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1600	DG
Metals - Suspended							
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/06/2015 030	MS
Metals - Total							
Iron	0.20	mg/L		0.05	EPA 200.7	05/01/2015 641	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 641	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-006
ClientSample ID: MU1-PM16
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:59:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	37.8	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	4.8	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	18.4	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	3.5	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	1.1	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/17/2015 1730	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/17/2015 1730	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/12/2015 832	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/12/2015 832	MB
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	05/14/2015 1309	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/14/2015 1309	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1618	MB
Radium 226	3.5	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1239	MB
Radionuclides - Total							
Radon 222	4780	pCi/L		100	ASTM D5072-09	04/29/2015 1959	MB
Radon-222 Precision (±)	64.6	pCi/L			ASTM D5072-09	04/29/2015 1959	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-011
ClientSample ID: MU1-PM17
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:26:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.3	s.u.			Field	04/28/2015 1326	
Conductivity	1739	µmhos/cm			Field	04/28/2015 1326	
Dissolved Oxygen	0.09	mg/L			Field	04/28/2015 1326	
Turbidity	15.7	NTU			Field	04/28/2015 1326	
Depth to Water	65.96	ft			Field	04/28/2015 1326	
Temperature	10.9	℃			Field	04/28/2015 1326	
Oxygen Reduction Potential (ORP)	-198.6	mV			Field	04/28/2015 1326	
Anions/Cations							
Alkalinity, Total (As CaCO3)	722	mg/L		5	SM 2320B	04/29/2015 1729	BT
Alkalinity, Bicarbonate as HCO3	809	mg/L		5	SM 2320B	04/29/2015 1729	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/29/2015 1729	BT
Chloride	6	mg/L		1	EPA 300.0	04/29/2015 2141	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/29/2015 1729	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1327	AMB
Sulfate	455	mg/L		1	EPA 300.0	04/29/2015 2141	AB
Calcium	7	mg/L		1	EPA 200.7	04/29/2015 1624	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1624	DG
Potassium	7	mg/L		1	EPA 200.7	04/29/2015 1624	DG
Sodium	536	mg/L		1	EPA 200.7	04/29/2015 1624	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1129	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 1729	BT
Electrical Conductivity	2130	µmhos/cm		5	SM 2510B	04/29/2015 1729	BT
Total Dissolved Solids (180)	1470	mg/L		10	SM 2540	04/29/2015 1420	IR
Data Quality							
Cation Sum	24.11	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	24.12	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.02	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1450	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-011
ClientSample ID: MU1-PM17
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:26:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1624	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	04/29/2015 1619	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1619	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/29/2015 1624	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1619	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1624	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1619	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1624	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1619	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 938	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1619	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1624	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1619	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1619	MS
Uranium	0.0015	mg/L		0.0003	EPA 200.8	04/29/2015 1619	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1619	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1624	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 058	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/01/2015 700	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 700	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-011
ClientSample ID: MU1-PM17
COC: 156647

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:26:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.0	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	2.3	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	6.9	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	1.0	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/18/2015 835	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/18/2015 835	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 842	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 842	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1239	MB
Radionuclides - Total							
Radon 222	1170	pCi/L		100	ASTM D5072-09	04/29/2015 2257	MB
Radon-222 Precision (±)	31.3	pCi/L			ASTM D5072-09	04/29/2015 2257	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-018
ClientSample ID: MU1-PM18
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:13:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.4	s.u.			Field	04/28/2015 1213	
Conductivity	2060	µmhos/cm			Field	04/28/2015 1213	
Dissolved Oxygen	0.07	mg/L			Field	04/28/2015 1213	
Turbidity	7.84	NTU			Field	04/28/2015 1213	
Depth to Water	69.34	ft			Field	04/28/2015 1213	
Temperature	11.8	℃			Field	04/28/2015 1213	
Oxygen Reduction Potential (ORP)	-182	mV			Field	04/28/2015 1213	
Anions/Cations							
Alkalinity, Total (As CaCO3)	674	mg/L		5	SM 2320B	04/29/2015 1943	BT
Alkalinity, Bicarbonate as HCO3	738	mg/L		5	SM 2320B	04/29/2015 1943	BT
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	04/29/2015 1943	BT
Chloride	6	mg/L		1	EPA 300.0	04/29/2015 2328	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	04/29/2015 1943	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1346	AMB
Sulfate	455	mg/L		1	EPA 300.0	04/29/2015 2328	AB
Calcium	6	mg/L		1	EPA 200.7	04/29/2015 1653	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1653	DG
Potassium	6	mg/L		1	EPA 200.7	04/29/2015 1653	DG
Sodium	529	mg/L		1	EPA 200.7	04/29/2015 1653	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/05/2015 1138	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/29/2015 1943	BT
Electrical Conductivity	2090	µmhos/cm		5	SM 2510B	04/29/2015 1943	BT
Total Dissolved Solids (180)	1440	mg/L		10	SM 2540	04/29/2015 1428	IR
Data Quality							
Cation Sum	23.70	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	23.15	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	1.18	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-018
ClientSample ID: MU1-PM18
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:13:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1653	DG
Arsenic	0.008	mg/L		0.005	EPA 200.8	04/29/2015 1720	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1720	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/29/2015 1653	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1720	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1653	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1720	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1653	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1720	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1006	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1720	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1653	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1720	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1720	MS
Uranium	0.0009	mg/L		0.0003	EPA 200.8	04/29/2015 1720	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1720	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1653	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 204	MS
Metals - Total							
Iron	0.15	mg/L		0.05	EPA 200.7	05/01/2015 731	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 731	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-018
ClientSample ID: MU1-PM18
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:13:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.6	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	2.0	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	6.5	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	1.2	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/19/2015 541	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/19/2015 541	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1101	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1101	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1429	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1429	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1645	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1645	MB
Radionuclides - Total							
Radon 222	505	pCi/L		100	ASTM D5072-09	04/30/2015 341	MB
Radon-222 Precision (±)	19.9	pCi/L			ASTM D5072-09	04/30/2015 341	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-019
ClientSample ID: MU1-PM18 Dup
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:18:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	666	mg/L		5	SM 2320B	04/29/2015 1955	BT
Alkalinity, Bicarbonate as HCO3	734	mg/L		5	SM 2320B	04/29/2015 1955	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	04/29/2015 1955	BT
Chloride	5	mg/L		1	EPA 300.0	04/30/2015 100	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	04/29/2015 1955	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1348	AMB
Sulfate	456	mg/L		1	EPA 300.0	04/30/2015 100	AB
Calcium	6	mg/L		1	EPA 200.7	04/29/2015 1655	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1655	DG
Potassium	6	mg/L		1	EPA 200.7	04/29/2015 1655	DG
Sodium	529	mg/L		1	EPA 200.7	04/29/2015 1655	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/05/2015 1139	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 1955	BT
Electrical Conductivity	2100	µmhos/cm		5	SM 2510B	04/29/2015 1955	BT
Total Dissolved Solids (180)	1440	mg/L		10	SM 2540	04/29/2015 1429	IR
Data Quality							
Cation Sum	23.70	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	23.01	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	1.47	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1400	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-019
ClientSample ID: MU1-PM18 Dup
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:18:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1655	DG
Arsenic	0.008	mg/L		0.005	EPA 200.8	04/29/2015 1742	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1742	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/29/2015 1655	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1742	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1655	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1742	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1655	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1742	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1008	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1742	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1655	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1742	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1742	MS
Uranium	0.0010	mg/L		0.0003	EPA 200.8	04/29/2015 1742	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1742	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1655	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 209	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	05/01/2015 734	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 734	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-019
ClientSample ID: MU1-PM18 Dup
COC: 160014

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:18:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	7.8	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/19/2015 842	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/19/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1101	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1101	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1429	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1429	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1645	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1645	MB
Radionuclides - Total							
Radon 222	526	pCi/L		100	ASTM D5072-09	04/30/2015 417	MB
Radon-222 Precision (±)	20.4	pCi/L			ASTM D5072-09	04/30/2015 417	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-004
ClientSample ID: MU1-PM19
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:54:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.5	s.u.			Field	04/28/2015 1154	
Conductivity	2247	µmhos/cm			Field	04/28/2015 1154	
Dissolved Oxygen	0.75	mg/L			Field	04/28/2015 1154	
Turbidity	0.62	NTU			Field	04/28/2015 1154	
Depth to Water	62.79	ft			Field	04/28/2015 1154	
Temperature	10.9	℃			Field	04/28/2015 1154	
Oxygen Reduction Potential (ORP)	-177.1	mV			Field	04/28/2015 1154	
Anions/Cations							
Alkalinity, Total (As CaCO3)	637	mg/L		5	SM 2320B	04/29/2015 1517	BT
Alkalinity, Bicarbonate as HCO3	709	mg/L		5	SM 2320B	04/29/2015 1517	BT
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	04/29/2015 1517	BT
Chloride	7	mg/L		1	EPA 300.0	04/29/2015 1821	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/29/2015 1517	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1109	AMB
Sulfate	530	mg/L		1	EPA 300.0	04/29/2015 1821	AB
Calcium	7	mg/L		1	EPA 200.7	04/29/2015 1555	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1555	DG
Potassium	6	mg/L		1	EPA 200.7	04/29/2015 1555	DG
Sodium	558	mg/L		1	EPA 200.7	04/29/2015 1555	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1111	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 1517	BT
Electrical Conductivity	2270	µmhos/cm		5	SM 2510B	04/29/2015 1517	BT
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	04/29/2015 1412	IR
Data Quality							
Cation Sum	25.01	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	24.00	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	2.07	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1490	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-004
ClientSample ID: MU1-PM19
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:54:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1555	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	04/29/2015 1510	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1510	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/29/2015 1555	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1510	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1555	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1510	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1555	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1510	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 915	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1510	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1555	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1510	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1510	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	04/29/2015 1510	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1510	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1555	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 008	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	05/01/2015 637	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 637	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-004
ClientSample ID: MU1-PM19
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 11:54:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 1818	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 1818	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/12/2015 832	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/12/2015 832	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/14/2015 1309	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1309	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 817	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 817	MB
Radionuclides - Total							
Radon 222	697	pCi/L		100	ASTM D5072-09	04/29/2015 1848	MB
Radon-222 Precision (±)	23.3	pCi/L			ASTM D5072-09	04/29/2015 1848	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-005
ClientSample ID: MU1-PM19 DUP
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:00:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	644	mg/L		5	SM 2320B	04/29/2015 1544	BT
Alkalinity, Bicarbonate as HCO3	710	mg/L		5	SM 2320B	04/29/2015 1544	BT
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	04/29/2015 1544	BT
Chloride	6	mg/L		1	EPA 300.0	04/29/2015 1836	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/29/2015 1544	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1110	AMB
Sulfate	532	mg/L		1	EPA 300.0	04/29/2015 1836	AB
Calcium	7	mg/L		1	EPA 200.7	04/29/2015 1557	DG
Magnesium	3	mg/L		1	EPA 200.7	04/29/2015 1557	DG
Potassium	6	mg/L		1	EPA 200.7	04/29/2015 1557	DG
Sodium	558	mg/L		1	EPA 200.7	04/29/2015 1557	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/05/2015 1113	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/29/2015 1544	BT
Electrical Conductivity	2240	µmhos/cm		5	SM 2510B	04/29/2015 1544	BT
Total Dissolved Solids (180)	1530	mg/L		10	SM 2540	04/29/2015 1413	IR
Data Quality							
Cation Sum	25.04	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	24.18	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	1.75	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1500	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-005
ClientSample ID: MU1-PM19 DUP
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:00:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1557	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	04/29/2015 1515	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1515	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/29/2015 1557	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1515	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1557	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1515	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1557	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1515	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 921	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1515	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1557	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1515	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1515	MS
Uranium	0.0006	mg/L		0.0003	EPA 200.8	04/29/2015 1515	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1515	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1557	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 014	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/01/2015 639	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 639	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-005
ClientSample ID: MU1-PM19 DUP
COC: 159833

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:00:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.6	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	3.0	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	3.3	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 2119	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 2119	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/12/2015 832	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/12/2015 832	MB
Radionuclides - Suspended							
Lead 210	2.0	pCi/L		1	OTW01	05/14/2015 1309	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/14/2015 1309	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 817	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 817	MB
Radionuclides - Total							
Radon 222	692	pCi/L		100	ASTM D5072-09	04/29/2015 1923	MB
Radon-222 Precision (±)	23.2	pCi/L			ASTM D5072-09	04/29/2015 1923	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-001
ClientSample ID: SM1
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 3:22:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.84	s.u.			Field	04/22/2015 1522	
Conductivity	1398	µmhos/cm			Field	04/22/2015 1522	
Dissolved Oxygen	1.91	mg/L			Field	04/22/2015 1522	
Dissolved Oxygen (pct)	17.4	%			Field	04/22/2015 1522	
Turbidity	0.89	NTU			Field	04/22/2015 1522	
Temperature	12.3	℃			Field	04/22/2015 1522	
Oxygen Reduction Potential (ORP)	-156	mV			Field	04/22/2015 1522	
Anions/Cations							
Alkalinity, Total (As CaCO3)	508	mg/L		5	SM 2320B	04/25/2015 1609	BT
Alkalinity, Bicarbonate as HCO3	550	mg/L		5	SM 2320B	04/25/2015 1609	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/25/2015 1609	BT
Chloride	4	mg/L		1	EPA 300.0	04/25/2015 1351	AB
Fluoride	1.7	mg/L		0.1	SM 4500FC	04/25/2015 1609	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1028	AMB
Sulfate	171	mg/L		1	EPA 300.0	04/25/2015 1351	AB
Calcium	3	mg/L		1	EPA 200.7	04/24/2015 1844	DG
Magnesium	1	mg/L		1	EPA 200.7	04/24/2015 1844	DG
Potassium	4	mg/L		1	EPA 200.7	04/24/2015 1844	DG
Sodium	320	mg/L		1	EPA 200.7	04/24/2015 1844	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/04/2015 1502	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/25/2015 1609	BT
Electrical Conductivity	1440	µmhos/cm		5	SM 2510B	04/25/2015 1609	BT
Total Dissolved Solids (180)	850	mg/L		10	SM 2540	04/24/2015 1457	IR
Data Quality							
Cation Sum	14.32	meq/L		0.01	SM 1030E	05/08/2015 1108	JJ
Anion Sum	13.91	meq/L		0.01	SM 1030E	05/08/2015 1108	JJ
Cation-Anion Balance (± 5%)	1.43	%		0.01	SM 1030E	05/08/2015 1108	JJ
Solids, Total Dissolved (Calc)	810	mg/L		10	SM 1030E	05/08/2015 1108	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-001
ClientSample ID: SM1
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 3:22:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	04/24/2015 1844	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	04/27/2015 1637	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1637	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/24/2015 1844	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1637	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 1844	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1637	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 1421	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1637	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/28/2015 1324	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1637	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 1844	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1637	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1637	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	04/27/2015 1637	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1637	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 1844	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2132	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1324	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/30/2015 1324	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/19/2015
Report ID S1504353001

ProjectName: Strata Ross ISR
Lab ID: S1504353-001
ClientSample ID: SM1
COC: 152919

WorkOrder: S1504353
CollectionDate: 4/22/2015 3:22:00 PM
DateReceived: 4/23/2015 8:14:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.5	pCi/L		2	SM 7110B	05/01/2015 1817	MB
Gross Alpha Precision (±)	2.4	pCi/L			SM 7110B	05/01/2015 1817	MB
Gross Beta	8.7	pCi/L		3	SM 7110B	05/01/2015 1817	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/01/2015 1817	MB
Lead 210	ND	pCi/L		1	OTW01	05/05/2015 1514	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/05/2015 1514	MB
Polonium 210	ND	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 952	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 952	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/06/2015 710	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/06/2015 710	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 1223	MB
Radionuclides - Suspended							
Lead 210	3.1	pCi/L		1	OTW01	05/06/2015 1349	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/06/2015 1349	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1703	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1703	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	464	pCi/L		100	ASTM D5072-09	04/24/2015 2212	MB
Radon-222 Precision (±)	19.8	pCi/L			ASTM D5072-09	04/24/2015 2212	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-004
ClientSample ID: MU1 SM2
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 11:45:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.82	s.u.			Field	04/23/2015 1145	
Conductivity	1742	µmhos/cm			Field	04/23/2015 1145	
Dissolved Oxygen	2.55	mg/L			Field	04/23/2015 1145	
Dissolved Oxygen (pct)	23.5	%			Field	04/23/2015 1145	
Turbidity	2.46	NTU			Field	04/23/2015 1145	
Temperature	11.4	℃			Field	04/23/2015 1145	
Oxygen Reduction Potential (ORP)	-274	mV			Field	04/23/2015 1145	
Anions/Cations							
Alkalinity, Total (As CaCO3)	622	mg/L		5	SM 2320B	04/28/2015 1541	BT
Alkalinity, Bicarbonate as HCO3	679	mg/L		5	SM 2320B	04/28/2015 1541	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	04/28/2015 1541	BT
Chloride	4	mg/L		1	EPA 300.0	04/27/2015 1655	AB
Fluoride	1.4	mg/L		0.1	SM 4500FC	04/28/2015 1541	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1411	AMB
Sulfate	261	mg/L		1	EPA 300.0	04/27/2015 1655	AB
Calcium	3	mg/L		1	EPA 200.7	04/27/2015 1900	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1900	DG
Potassium	10	mg/L		1	EPA 200.7	04/27/2015 1900	DG
Sodium	381	mg/L		1	EPA 200.7	04/27/2015 1900	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	04/28/2015 1600	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/28/2015 1541	BT
Electrical Conductivity	1670	µmhos/cm		5	SM 2510B	04/28/2015 1541	BT
Total Dissolved Solids (180)	1220	mg/L		10	SM 2540	04/27/2015 1428	IR
Data Quality							
Cation Sum	17.08	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	18.05	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	2.75	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	1030	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-004
ClientSample ID: MU1 SM2
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 11:45:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1900	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1715	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1715	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/27/2015 1900	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1715	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1900	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1715	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1900	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1715	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1124	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1715	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1900	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1715	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1715	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	04/27/2015 1715	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1715	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1900	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2249	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/01/2015 505	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 505	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-004
ClientSample ID: MU1 SM2
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 11:45:00 AM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.6	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	2.0	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	7.1	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 307	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 307	MB
Thorium 230	0.2	pCi/L		0.2	ACW10	05/06/2015 802	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	05/06/2015 802	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1311	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1311	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1604	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1604	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 921	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 921	MB
Radionuclides - Total							
Radon 222	439	pCi/L		100	ASTM D5072-09	04/25/2015 853	MB
Radon-222 Precision (±)	18.6	pCi/L			ASTM D5072-09	04/25/2015 853	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-004
ClientSample ID: MU1-SM-03
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:04:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.30	s.u.			Field	04/29/2015 1504	
Conductivity	1565	µmhos/cm			Field	04/29/2015 1504	
Dissolved Oxygen	0.06	mg/L			Field	04/29/2015 1504	
Turbidity	226.0	NTU			Field	04/29/2015 1504	
Depth to Water	59.9	ft			Field	04/29/2015 1504	
Temperature	11.1	℃			Field	04/29/2015 1504	
Oxygen Reduction Potential (ORP)	-219.0	mV			Field	04/29/2015 1504	
Anions/Cations							
Alkalinity, Total (As CaCO3)	642	mg/L		5	SM 2320B	05/01/2015 2344	BT
Alkalinity, Bicarbonate as HCO3	684	mg/L		5	SM 2320B	05/01/2015 2344	BT
Alkalinity, Carbonate as CO3	49	mg/L		5	SM 2320B	05/01/2015 2344	BT
Chloride	3	mg/L		1	EPA 300.0	05/01/2015 2137	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/01/2015 2344	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1433	AMB
Sulfate	337	mg/L		1	EPA 300.0	05/01/2015 2137	AB
Calcium	6	mg/L		1	EPA 200.7	04/30/2015 1953	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 1953	DG
Potassium	6	mg/L		1	EPA 200.7	04/30/2015 1953	DG
Sodium	462	mg/L		1	EPA 200.7	04/30/2015 1953	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/06/2015 1147	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/01/2015 2344	BT
Electrical Conductivity	1910	µmhos/cm		5	SM 2510B	05/01/2015 2344	BT
Total Dissolved Solids (180)	1290	mg/L		10	SM 2540	04/30/2015 1033	IR
Data Quality							
Cation Sum	20.74	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	19.99	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	1.82	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-004
ClientSample ID: MU1-SM-03
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:04:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.3	mg/L		0.1	EPA 200.7	04/30/2015 1953	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 1848	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1848	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/30/2015 1953	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1848	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1953	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 1848	MS
Iron	0.16	mg/L		0.05	EPA 200.7	04/30/2015 1953	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1848	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1103	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1848	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1953	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1848	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1848	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/30/2015 1848	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1848	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1953	DG
Metals - Suspended							
Uranium	0.0006	mg/L		0.0003	EPA 200.8	05/06/2015 459	MS
Metals - Total							
Iron	5.45	mg/L		0.05	EPA 200.7	05/05/2015 945	DG
Manganese	0.07	mg/L		0.02	EPA 200.7	05/05/2015 945	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-004
ClientSample ID: MU1-SM-03
COC: 156648

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:04:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.1	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	1.9	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	5.1	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	12.8	pCi/L		1	OTW01	05/18/2015 1741	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	05/18/2015 1741	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1045	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1045	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1716	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 1716	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/22/2015 847	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/22/2015 847	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 815	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 815	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/20/2015 216	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/20/2015 216	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1756	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1756	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1701	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1701	MB
Radionuclides - Total							
Radon 222	465	pCi/L		100	ASTM D5072-09	05/01/2015 2001	MB
Radon-222 Precision (±)	19.8	pCi/L			ASTM D5072-09	05/01/2015 2001	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-016
ClientSample ID: SM4
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:40:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.44	s.u.			Field	04/29/2015 1540	
Conductivity	1910	µmhos/cm			Field	04/29/2015 1540	
Dissolved Oxygen	1.57	mg/L			Field	04/29/2015 1540	
Dissolved Oxygen (pct)	14.5	%			Field	04/29/2015 1540	
Turbidity	20.5	NTU			Field	04/29/2015 1540	
Temperature	11.7	℃			Field	04/29/2015 1540	
Oxygen Reduction Potential (ORP)	-81	mV			Field	04/29/2015 1540	
Anions/Cations							
Alkalinity, Total (As CaCO3)	690	mg/L		5	SM 2320B	05/02/2015 249	BT
Alkalinity, Bicarbonate as HCO3	707	mg/L		5	SM 2320B	05/02/2015 249	BT
Alkalinity, Carbonate as CO3	66	mg/L		5	SM 2320B	05/02/2015 249	BT
Chloride	3	mg/L		1	EPA 300.0	05/02/2015 128	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/02/2015 249	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1500	AMB
Sulfate	289	mg/L		1	EPA 300.0	05/02/2015 128	AB
Calcium	5	mg/L		1	EPA 200.7	04/30/2015 2048	DG
Magnesium	3	mg/L		1	EPA 200.7	04/30/2015 2048	DG
Potassium	6	mg/L		1	EPA 200.7	04/30/2015 2048	DG
Sodium	451	mg/L		1	EPA 200.7	04/30/2015 2048	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/06/2015 1212	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/02/2015 249	BT
Electrical Conductivity	1890	µmhos/cm		5	SM 2510B	05/02/2015 249	BT
Total Dissolved Solids (180)	1220	mg/L		10	SM 2540	04/30/2015 1046	IR
Data Quality							
Cation Sum	20.26	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	19.96	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	0.74	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1170	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-016
ClientSample ID: SM4
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:40:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2048	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 2032	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2032	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/30/2015 2048	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2032	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2048	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2032	MS
Iron	0.06	mg/L		0.05	EPA 200.7	04/30/2015 2048	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2032	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1140	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2032	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2048	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2032	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2032	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/30/2015 2032	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2032	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2048	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 121	MS
Metals - Total							
Iron	0.72	mg/L		0.05	EPA 200.7	05/05/2015 1043	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1043	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-016
ClientSample ID: SM4
COC: 152894

WorkOrder: S1504426
CollectionDate: 4/29/2015 3:40:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.5	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	1.8	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	4.4	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/26/2015 148	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/26/2015 148	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1802	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/27/2015 1241	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1241	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1555	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1555	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1231	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1231	MB
Radionuclides - Total							
Radon 222	510	pCi/L		100	ASTM D5072-09	05/02/2015 343	MB
Radon-222 Precision (±)	21.3	pCi/L			ASTM D5072-09	05/02/2015 343	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-001
ClientSample ID: MUI-SM5
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 11:55:00 AM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.56	s.u.			Field	04/20/2015 1155	
Conductivity	1910	µmhos/cm			Field	04/20/2015 1155	
Dissolved Oxygen	3.08	mg/L			Field	04/20/2015 1155	
Dissolved Oxygen (pct)	28.2	%			Field	04/20/2015 1155	
Turbidity	42.4	NTU			Field	04/20/2015 1155	
Temperature	10.8	℃			Field	04/20/2015 1155	
Oxygen Reduction Potential (ORP)	-148	mV			Field	04/20/2015 1155	
Anions/Cations							
Alkalinity, Total (As CaCO3)	634	mg/L		5	SM 2320B	04/23/2015 1353	BT
Alkalinity, Bicarbonate as HCO3	702	mg/L		5	SM 2320B	04/23/2015 1353	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/23/2015 1353	BT
Chloride	5	mg/L		1	EPA 300.0	04/23/2015 2237	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	04/23/2015 1353	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/24/2015 1448	AMB
Sulfate	338	mg/L		1	EPA 300.0	04/24/2015 1512	AB
Calcium	5	mg/L		1	EPA 200.7	04/23/2015 2114	DG
Magnesium	3	mg/L		1	EPA 200.7	04/23/2015 2114	DG
Potassium	5	mg/L		1	EPA 200.7	04/23/2015 2114	DG
Sodium	478	mg/L		1	EPA 200.7	04/23/2015 2114	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	04/24/2015 1614	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/23/2015 1353	BT
Electrical Conductivity	1900	µmhos/cm		5	SM 2510B	04/23/2015 1353	BT
Total Dissolved Solids (180)	1220	mg/L		10	SM 2540	04/22/2015 1449	IR
Data Quality							
Cation Sum	21.40	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Anion Sum	19.89	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Cation-Anion Balance (± 5%)	3.65	%		0.01	SM 1030E	04/29/2015 1125	JJ
Solids, Total Dissolved (Calc)	1210	mg/L		10	SM 1030E	04/29/2015 1125	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-001
ClientSample ID: MUI-SM5
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 11:55:00 AM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	04/23/2015 2114	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	04/23/2015 1719	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/23/2015 1719	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/23/2015 2114	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/23/2015 1719	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/23/2015 2114	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/23/2015 1719	MS
Iron	0.07	mg/L		0.05	EPA 200.7	04/23/2015 2114	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/23/2015 1719	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1133	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/23/2015 1719	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/23/2015 2114	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/23/2015 1719	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/23/2015 1719	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	04/23/2015 1719	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/23/2015 1719	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/23/2015 2114	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/24/2015 2219	MS
Metals - Total							
Iron	0.59	mg/L		0.05	EPA 200.7	04/24/2015 201	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/24/2015 201	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-001
ClientSample ID: MUI-SM5
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 11:55:00 AM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.3	pCi/L		2	SM 7110B	04/30/2015 1733	MB
Gross Alpha Precision (±)	1.8	pCi/L			SM 7110B	04/30/2015 1733	MB
Gross Beta	5.2	pCi/L		3	SM 7110B	04/30/2015 1733	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	04/30/2015 1733	MB
Lead 210	1.5	pCi/L		1	OTW01	05/04/2015 912	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/04/2015 912	MB
Polonium 210	ND	pCi/L		1	OTW01	04/29/2015 1036	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	04/29/2015 1036	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	04/29/2015 1214	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	04/29/2015 1214	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/01/2015 2239	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/01/2015 2239	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/04/2015 1315	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/04/2015 1315	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1730	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1730	MB
Radionuclides - Total							
Radon 222	453	pCi/L		100	ASTM D5072-09	04/22/2015 1900	MB
Radon-222 Precision (±)	19.5	pCi/L			ASTM D5072-09	04/22/2015 1900	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-005
ClientSample ID: SM6
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 2:20:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.80	s.u.			Field	04/21/2015 1420	
Conductivity	2150	µmhos/cm			Field	04/21/2015 1420	
Dissolved Oxygen	1.76	mg/L			Field	04/21/2015 1420	
Dissolved Oxygen (pct)	16.3	%			Field	04/21/2015 1420	
Turbidity	5.66	NTU			Field	04/21/2015 1420	
Temperature	12.3	℃			Field	04/21/2015 1420	
Oxygen Reduction Potential (ORP)	-249	mV			Field	04/21/2015 1420	
Anions/Cations							
Alkalinity, Total (As CaCO3)	669	mg/L		5	SM 2320B	04/23/2015 2358	BT
Alkalinity, Bicarbonate as HCO3	705	mg/L		5	SM 2320B	04/23/2015 2358	BT
Alkalinity, Carbonate as CO3	55	mg/L		5	SM 2320B	04/23/2015 2358	BT
Chloride	5	mg/L		1	EPA 300.0	04/24/2015 531	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	04/23/2015 2358	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/30/2015 1452	AMB
Sulfate	341	mg/L		1	EPA 300.0	04/24/2015 531	AB
Calcium	3	mg/L		1	EPA 200.7	04/24/2015 037	DG
Magnesium	2	mg/L		1	EPA 200.7	04/24/2015 037	DG
Potassium	11	mg/L		1	EPA 200.7	04/24/2015 037	DG
Sodium	476	mg/L		1	EPA 200.7	04/24/2015 037	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/04/2015 1351	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	04/23/2015 2358	BT
Electrical Conductivity	2020	µmhos/cm		5	SM 2510B	04/23/2015 2358	BT
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	04/23/2015 1218	IR
Data Quality							
Cation Sum	21.28	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Anion Sum	20.64	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Cation-Anion Balance (± 5%)	1.52	%		0.01	SM 1030E	05/12/2015 1148	WN
Solids, Total Dissolved (Calc)	1240	mg/L		10	SM 1030E	05/12/2015 1148	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-005
ClientSample ID: SM6
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 2:20:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 037	DG
Arsenic	0.011	mg/L		0.005	EPA 200.8	04/24/2015 115	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 115	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/24/2015 037	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 115	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 037	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 115	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 037	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 115	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1338	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 115	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 037	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 115	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 115	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	04/24/2015 115	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 115	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 037	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/24/2015 2341	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 2042	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/27/2015 2042	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-005
ClientSample ID: SM6
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 2:20:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.1	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	1.7	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	8.0	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	1.0	pCi/L		1	OTW01	05/05/2015 1301	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/05/2015 1301	MB
Polonium 210	ND	pCi/L		1	OTW01	05/04/2015 1730	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 1730	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/05/2015 2207	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/05/2015 2207	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 813	MB
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	05/06/2015 1349	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/06/2015 1349	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1703	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1703	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/07/2015 810	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/07/2015 810	MB
Radionuclides - Total							
Radon 222	491	pCi/L		100	ASTM D5072-09	04/23/2015 2350	MB
Radon-222 Precision (±)	20.6	pCi/L			ASTM D5072-09	04/23/2015 2350	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-001
ClientSample ID: SM7
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 8:42:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	04/22/2015 842	
Conductivity	1940	µmhos/cm			Field	04/22/2015 842	
Dissolved Oxygen	2.21	mg/L			Field	04/22/2015 842	
Dissolved Oxygen (pct)	19.7	%			Field	04/22/2015 842	
Turbidity	1.74	NTU			Field	04/22/2015 842	
Temperature	10.4	℃			Field	04/22/2015 842	
Oxygen Reduction Potential (ORP)	+146	mV			Field	04/22/2015 842	
Anions/Cations							
Alkalinity, Total (As CaCO3)	629	mg/L		5	SM 2320B	04/25/2015 1647	BT
Alkalinity, Bicarbonate as HCO3	696	mg/L		5	SM 2320B	04/25/2015 1647	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	04/25/2015 1647	BT
Chloride	5	mg/L		1	EPA 300.0	04/25/2015 1432	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	04/25/2015 1647	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1042	AMB
Sulfate	339	mg/L		1	EPA 300.0	04/25/2015 1432	AB
Calcium	6	mg/L		1	EPA 200.7	04/24/2015 1902	DG
Magnesium	3	mg/L		1	EPA 200.7	04/24/2015 1902	DG
Potassium	7	mg/L		1	EPA 200.7	04/24/2015 1902	DG
Sodium	463	mg/L		1	EPA 200.7	04/24/2015 1902	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/04/2015 1514	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/25/2015 1647	BT
Electrical Conductivity	1960	µmhos/cm		5	SM 2510B	04/25/2015 1647	BT
Total Dissolved Solids (180)	1250	mg/L		10	SM 2540	04/24/2015 1500	IR
Data Quality							
Cation Sum	20.93	meq/L		0.01	SM 1030E	05/06/2015 751	JJ
Anion Sum	19.82	meq/L		0.01	SM 1030E	05/06/2015 751	JJ
Cation-Anion Balance (± 5%)	2.72	%		0.01	SM 1030E	05/06/2015 751	JJ
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	05/06/2015 751	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-001
ClientSample ID: SM7
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 8:42:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 1902	DG
Arsenic	0.012	mg/L		0.005	EPA 200.8	04/24/2015 1809	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 1809	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/24/2015 1902	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 1809	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 1902	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 1809	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 1902	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 1809	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/28/2015 1345	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 1809	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 1902	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 1809	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 1809	MS
Uranium	0.0015	mg/L		0.0003	EPA 200.8	04/24/2015 1809	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 1809	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 1902	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2216	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1343	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/30/2015 1343	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504354001

ProjectName: Strata Ross ISR
Lab ID: S1504354-001
ClientSample ID: SM7
COC: 152852

WorkOrder: S1504354
CollectionDate: 4/22/2015 8:42:00 AM
DateReceived: 4/23/2015 8:15:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.8	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	2.2	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	4.7	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	4.5	pCi/L		1	OTW01	05/05/2015 1515	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/05/2015 1515	MB
Polonium 210	ND	pCi/L		1	OTW01	05/04/2015 1834	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 1834	MB
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/06/2015 1613	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/06/2015 1613	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 1223	MB
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	05/06/2015 1349	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/06/2015 1349	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1703	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1703	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 930	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/12/2015 930	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 000	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 000	MB
Radionuclides - Total							
Radon 222	394	pCi/L		100	ASTM D5072-09	04/25/2015 146	MB
Radon-222 Precision (±)	18.4	pCi/L			ASTM D5072-09	04/25/2015 146	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-003
ClientSample ID: MUI-SM8
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:05:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.69	s.u.			Field	04/20/2015 1305	
Conductivity	1764	µmhos/cm			Field	04/20/2015 1305	
Dissolved Oxygen	1.40	mg/L			Field	04/20/2015 1305	
Dissolved Oxygen (pct)	12.5	%			Field	04/20/2015 1305	
Turbidity	7.97	NTU			Field	04/20/2015 1305	
Temperature	10.4	℃			Field	04/20/2015 1305	
Oxygen Reduction Potential (ORP)	-124	mV			Field	04/20/2015 1305	
Anions/Cations							
Alkalinity, Total (As CaCO3)	627	mg/L		5	SM 2320B	04/23/2015 1420	BT
Alkalinity, Bicarbonate as HCO3	692	mg/L		5	SM 2320B	04/23/2015 1420	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	04/23/2015 1420	BT
Chloride	4	mg/L		1	EPA 300.0	04/23/2015 2308	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/23/2015 1420	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/24/2015 1501	AMB
Sulfate	245	mg/L		1	EPA 300.0	04/23/2015 2308	AB
Calcium	4	mg/L		1	EPA 200.7	04/23/2015 2118	DG
Magnesium	2	mg/L		1	EPA 200.7	04/23/2015 2118	DG
Potassium	6	mg/L		1	EPA 200.7	04/23/2015 2118	DG
Sodium	427	mg/L		1	EPA 200.7	04/23/2015 2118	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	04/24/2015 1617	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/23/2015 1420	BT
Electrical Conductivity	1740	µmhos/cm		5	SM 2510B	04/23/2015 1420	BT
Total Dissolved Solids (180)	1120	mg/L		10	SM 2540	04/22/2015 1451	IR
Data Quality							
Cation Sum	19.13	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Anion Sum	17.80	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Cation-Anion Balance (± 5%)	3.59	%		0.01	SM 1030E	04/29/2015 1125	JJ
Solids, Total Dissolved (Calc)	1060	mg/L		10	SM 1030E	04/29/2015 1125	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-003
ClientSample ID: MUI-SM8
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:05:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/23/2015 2118	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	04/23/2015 1746	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/23/2015 1746	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/23/2015 2118	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/23/2015 1746	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/23/2015 2118	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/23/2015 1746	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/23/2015 2118	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/23/2015 1746	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1143	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/23/2015 1746	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/23/2015 2118	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/23/2015 1746	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/23/2015 1746	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/23/2015 1746	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/23/2015 1746	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/23/2015 2118	DG
Metals - Suspended							
Uranium	0.0007	mg/L		0.0003	EPA 200.8	04/24/2015 2246	MS
Metals - Total							
Iron	0.31	mg/L		0.05	EPA 200.7	04/24/2015 205	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/24/2015 205	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-003
ClientSample ID: MUI-SM8
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 1:05:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	13.0	pCi/L		2	SM 7110B	04/30/2015 1733	MB
Gross Alpha Precision (±)	3.2	pCi/L			SM 7110B	04/30/2015 1733	MB
Gross Beta	13.1	pCi/L		3	SM 7110B	04/30/2015 1733	MB
Gross Beta Precision (±)	3.3	pCi/L			SM 7110B	04/30/2015 1733	MB
Lead 210	ND	pCi/L		1	OTW01	05/04/2015 912	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 912	MB
Polonium 210	ND	pCi/L		1	OTW01	04/29/2015 1036	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	04/29/2015 1036	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	04/29/2015 1214	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	04/29/2015 1214	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/02/2015 441	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/02/2015 441	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/21/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/21/2015 830	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1730	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1730	MB
Radionuclides - Total							
Radon 222	319	pCi/L		100	ASTM D5072-09	04/22/2015 2122	MB
Radon-222 Precision (±)	15.8	pCi/L			ASTM D5072-09	04/22/2015 2122	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-002
ClientSample ID: MUI-SM9
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 12:30:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	04/20/2015 1230	
Conductivity	2150	µmhos/cm			Field	04/20/2015 1230	
Dissolved Oxygen	5.76	mg/L			Field	04/20/2015 1230	
Dissolved Oxygen (pct)	52	%			Field	04/20/2015 1230	
Turbidity	5.11	NTU			Field	04/20/2015 1230	
Temperature	11.1	℃			Field	04/20/2015 1230	
Oxygen Reduction Potential (ORP)	-167	mV			Field	04/20/2015 1230	
Anions/Cations							
Alkalinity, Total (As CaCO3)	675	mg/L		5	SM 2320B	04/23/2015 1407	BT
Alkalinity, Bicarbonate as HCO3	757	mg/L		5	SM 2320B	04/23/2015 1407	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	04/23/2015 1407	BT
Chloride	4	mg/L		1	EPA 300.0	04/23/2015 2252	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	04/23/2015 1407	BT
Nitrogen, Nitrate+Nitrite (as N)	0.2	mg/L		0.1	EPA 353.2	04/24/2015 1500	AMB
Sulfate	401	mg/L		1	EPA 300.0	04/23/2015 2252	AB
Calcium	7	mg/L		1	EPA 200.7	04/23/2015 2116	DG
Magnesium	3	mg/L		1	EPA 200.7	04/23/2015 2116	DG
Potassium	6	mg/L		1	EPA 200.7	04/23/2015 2116	DG
Sodium	524	mg/L		1	EPA 200.7	04/23/2015 2116	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	04/24/2015 1616	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/23/2015 1407	BT
Electrical Conductivity	2170	µmhos/cm		5	SM 2510B	04/23/2015 1407	BT
Total Dissolved Solids (180)	1410	mg/L		10	SM 2540	04/22/2015 1450	IR
Data Quality							
Cation Sum	23.56	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Anion Sum	22.02	meq/L		0.01	SM 1030E	04/29/2015 1125	JJ
Cation-Anion Balance (± 5%)	3.36	%		0.01	SM 1030E	04/29/2015 1125	JJ
Solids, Total Dissolved (Calc)	1350	mg/L		10	SM 1030E	04/29/2015 1125	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-002
ClientSample ID: MUI-SM9
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 12:30:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/23/2015 2116	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	04/23/2015 1741	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/23/2015 1741	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/23/2015 2116	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/23/2015 1741	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/23/2015 2116	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/23/2015 1741	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/23/2015 2116	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/23/2015 1741	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1141	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/23/2015 1741	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/23/2015 2116	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/23/2015 1741	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/23/2015 1741	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/23/2015 1741	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/23/2015 1741	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/23/2015 2116	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/24/2015 2240	MS
Metals - Total							
Iron	0.14	mg/L		0.05	EPA 200.7	04/24/2015 203	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/24/2015 203	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/12/2015
Report ID S1504306001

ProjectName: Ross MUI ISR
Lab ID: S1504306-002
ClientSample ID: MUI-SM9
COC: 152895

WorkOrder: S1504306
CollectionDate: 4/20/2015 12:30:00 PM
DateReceived: 4/21/2015 8:00:00 AM
FieldSampler: DL
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.0	pCi/L		2	SM 7110B	04/30/2015 1733	MB
Gross Alpha Precision (±)	3.5	pCi/L			SM 7110B	04/30/2015 1733	MB
Gross Beta	10.7	pCi/L		3	SM 7110B	04/30/2015 1733	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	04/30/2015 1733	MB
Lead 210	ND	pCi/L		1	OTW01	05/04/2015 912	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 912	MB
Polonium 210	ND	pCi/L		1	OTW01	04/29/2015 1036	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	04/29/2015 1036	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	04/29/2015 1214	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	04/29/2015 1214	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/02/2015 140	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/02/2015 140	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/04/2015 1315	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/04/2015 1315	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 1730	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 1730	MB
Radionuclides - Total							
Radon 222	400	pCi/L		100	ASTM D5072-09	04/22/2015 2011	MB
Radon-222 Precision (±)	18.1	pCi/L			ASTM D5072-09	04/22/2015 2011	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-006
ClientSample ID: MU1 SM10
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 4:00:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.70	s.u.			Field	04/23/2015 1600	
Conductivity	1654	µmhos/cm			Field	04/23/2015 1600	
Dissolved Oxygen	1.41	mg/L			Field	04/23/2015 1600	
Dissolved Oxygen (pct)	13.0	%			Field	04/23/2015 1600	
Turbidity	0.58	NTU			Field	04/23/2015 1600	
Temperature	10.9	℃			Field	04/23/2015 1600	
Oxygen Reduction Potential (ORP)	+128	mV			Field	04/23/2015 1600	
Anions/Cations							
Alkalinity, Total (As CaCO3)	552	mg/L		5	SM 2320B	04/28/2015 1606	BT
Alkalinity, Bicarbonate as HCO3	613	mg/L		5	SM 2320B	04/28/2015 1606	BT
Alkalinity, Carbonate as CO3	30	mg/L		5	SM 2320B	04/28/2015 1606	BT
Chloride	5	mg/L		1	EPA 300.0	04/27/2015 1830	AB
Fluoride	1.7	mg/L		0.1	SM 4500FC	04/28/2015 1606	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1414	AMB
Sulfate	249	mg/L		1	EPA 300.0	04/27/2015 1830	AB
Calcium	4	mg/L		1	EPA 200.7	04/27/2015 1905	DG
Magnesium	2	mg/L		1	EPA 200.7	04/27/2015 1905	DG
Potassium	4	mg/L		1	EPA 200.7	04/27/2015 1905	DG
Sodium	364	mg/L		1	EPA 200.7	04/27/2015 1905	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	04/28/2015 1603	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	04/28/2015 1606	BT
Electrical Conductivity	1600	µmhos/cm		5	SM 2510B	04/28/2015 1606	BT
Total Dissolved Solids (180)	1170	mg/L		10	SM 2540	04/27/2015 1430	IR
Data Quality							
Cation Sum	16.28	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Anion Sum	16.45	meq/L		0.01	SM 1030E	05/04/2015 1216	JJ
Cation-Anion Balance (± 5%)	0.53	%		0.01	SM 1030E	05/04/2015 1216	JJ
Solids, Total Dissolved (Calc)	960	mg/L		10	SM 1030E	05/04/2015 1216	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-006
ClientSample ID: MU1 SM10
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 4:00:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/27/2015 1905	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/27/2015 1753	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/27/2015 1753	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/27/2015 1905	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/27/2015 1753	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/27/2015 1905	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/27/2015 1753	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/27/2015 1905	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/27/2015 1753	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/30/2015 1128	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/27/2015 1753	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/27/2015 1905	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/27/2015 1753	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/27/2015 1753	MS
Uranium	0.0007	mg/L		0.0003	EPA 200.8	04/27/2015 1753	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/27/2015 1753	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/27/2015 1905	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	04/27/2015 2327	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 510	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 510	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504374001

ProjectName: Ross MU1 ISR
Lab ID: S1504374-006
ClientSample ID: MU1 SM10
COC: 152850

WorkOrder: S1504374
CollectionDate: 4/23/2015 4:00:00 PM
DateReceived: 4/24/2015 8:12:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/05/2015 1818	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/05/2015 1818	MB
Gross Beta	6.0	pCi/L		3	SM 7110B	05/05/2015 1818	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/05/2015 1818	MB
Lead 210	ND	pCi/L		1	OTW01	05/11/2015 1104	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/11/2015 1104	MB
Polonium 210	ND	pCi/L		1	OTW01	05/08/2015 1500	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/08/2015 1500	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 951	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/11/2015 951	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/12/2015 908	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/12/2015 908	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/06/2015 802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/06/2015 802	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1345	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1345	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1447	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/12/2015 1256	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/12/2015 1256	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 921	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 921	MB
Radionuclides - Total							
Radon 222	462	pCi/L		100	ASTM D5072-09	04/25/2015 1115	MB
Radon-222 Precision (±)	19.1	pCi/L			ASTM D5072-09	04/25/2015 1115	MB

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-011
ClientSample ID: SM11
COC: 152908

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:55:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.71	s.u.			Field	04/29/2015 1255	
Conductivity	1562	µmhos/cm			Field	04/29/2015 1255	
Dissolved Oxygen	1.51	mg/L			Field	04/29/2015 1255	
Dissolved Oxygen (pct)	13.9	%			Field	04/29/2015 1255	
Turbidity	1.10	NTU			Field	04/29/2015 1255	
Temperature	11.5	℃			Field	04/29/2015 1255	
Oxygen Reduction Potential (ORP)	+86	mV			Field	04/29/2015 1255	
Anions/Cations							
Alkalinity, Total (As CaCO3)	588	mg/L		5	SM 2320B	05/02/2015 148	BT
Alkalinity, Bicarbonate as HCO3	609	mg/L		5	SM 2320B	05/02/2015 148	BT
Alkalinity, Carbonate as CO3	54	mg/L		5	SM 2320B	05/02/2015 148	BT
Chloride	5	mg/L		1	EPA 300.0	05/01/2015 2312	AB
Fluoride	2.1	mg/L		0.1	SM 4500FC	05/02/2015 148	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1452	AMB
Sulfate	209	mg/L		1	EPA 300.0	05/01/2015 2312	AB
Calcium	4	mg/L		1	EPA 200.7	04/30/2015 2023	DG
Magnesium	2	mg/L		1	EPA 200.7	04/30/2015 2023	DG
Potassium	5	mg/L		1	EPA 200.7	04/30/2015 2023	DG
Sodium	373	mg/L		1	EPA 200.7	04/30/2015 2023	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/06/2015 1206	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/02/2015 148	BT
Electrical Conductivity	1570	µmhos/cm		5	SM 2510B	05/02/2015 148	BT
Total Dissolved Solids (180)	1010	mg/L		10	SM 2540	04/30/2015 1041	IR
Data Quality							
Cation Sum	16.68	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	16.37	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	0.92	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	950	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-011
ClientSample ID: SM11
COC: 152908

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:55:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2023	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 2004	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2004	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/30/2015 2023	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2004	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2023	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2004	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2023	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2004	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1116	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2004	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2023	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2004	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2004	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/30/2015 2004	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2004	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2023	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 053	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 1021	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1021	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-011
ClientSample ID: SM11
COC: 152908

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:55:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	5.1	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/25/2015 1044	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/25/2015 1044	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1239	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/24/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/24/2015 812	MB
Radionuclides - Total							
Radon 222	374	pCi/L		100	ASTM D5072-09	05/02/2015 045	MB
Radon-222 Precision (±)	17.6	pCi/L			ASTM D5072-09	05/02/2015 045	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-012
ClientSample ID: SM12
COC: 152905

WorkOrder: S1504426
CollectionDate: 4/29/2015 4:05:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	04/29/2015 1605	
Conductivity	1830	µmhos/cm			Field	04/29/2015 1605	
Dissolved Oxygen	1.50	mg/L			Field	04/29/2015 1605	
Dissolved Oxygen (pct)	14.0	%			Field	04/29/2015 1605	
Turbidity	1.49	NTU			Field	04/29/2015 1605	
Temperature	11.7	℃			Field	04/29/2015 1605	
Oxygen Reduction Potential (ORP)	-127	mV			Field	04/29/2015 1605	
Anions/Cations							
Alkalinity, Total (As CaCO3)	659	mg/L		5	SM 2320B	05/02/2015 200	BT
Alkalinity, Bicarbonate as HCO3	690	mg/L		5	SM 2320B	05/02/2015 200	BT
Alkalinity, Carbonate as CO3	56	mg/L		5	SM 2320B	05/02/2015 200	BT
Chloride	4	mg/L		1	EPA 300.0	05/01/2015 2326	AB
Fluoride	1.4	mg/L		0.1	SM 4500FC	05/02/2015 200	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1454	AMB
Sulfate	274	mg/L		1	EPA 300.0	05/01/2015 2326	AB
Calcium	5	mg/L		1	EPA 200.7	04/30/2015 2025	DG
Magnesium	2	mg/L		1	EPA 200.7	04/30/2015 2025	DG
Potassium	5	mg/L		1	EPA 200.7	04/30/2015 2025	DG
Sodium	432	mg/L		1	EPA 200.7	04/30/2015 2025	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/06/2015 1207	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/02/2015 200	BT
Electrical Conductivity	1830	µmhos/cm		5	SM 2510B	05/02/2015 200	BT
Total Dissolved Solids (180)	1190	mg/L		10	SM 2540	04/30/2015 1042	IR
Data Quality							
Cation Sum	19.37	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	19.05	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	0.81	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1120	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-012
ClientSample ID: SM12
COC: 152905

WorkOrder: S1504426
CollectionDate: 4/29/2015 4:05:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2025	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 2010	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2010	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/30/2015 2025	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2010	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2025	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2010	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2025	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2010	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1118	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2010	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2025	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2010	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2010	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/30/2015 2010	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2010	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2025	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 059	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/05/2015 1027	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1027	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-012
ClientSample ID: SM12
COC: 152905

WorkOrder: S1504426
CollectionDate: 4/29/2015 4:05:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	3.9	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/25/2015 1345	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/25/2015 1345	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1239	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/24/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/24/2015 812	MB
Radionuclides - Total							
Radon 222	389	pCi/L		100	ASTM D5072-09	05/02/2015 121	MB
Radon-222 Precision (±)	17.9	pCi/L			ASTM D5072-09	05/02/2015 121	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-013
ClientSample ID: SM13
COC: 152905

WorkOrder: S1504426
CollectionDate: 4/29/2015 4:20:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.21	s.u.			Field	04/29/2015 1620	
Conductivity	1566	µmhos/cm			Field	04/29/2015 1620	
Dissolved Oxygen	1.40	mg/L			Field	04/29/2015 1620	
Dissolved Oxygen (pct)	13.3	%			Field	04/29/2015 1620	
Turbidity	0.42	NTU			Field	04/29/2015 1620	
Temperature	12.5	℃			Field	04/29/2015 1620	
Oxygen Reduction Potential (ORP)	-85	mV			Field	04/29/2015 1620	
Anions/Cations							
Alkalinity, Total (As CaCO3)	612	mg/L		5	SM 2320B	05/02/2015 213	BT
Alkalinity, Bicarbonate as HCO3	571	mg/L		5	SM 2320B	05/02/2015 213	BT
Alkalinity, Carbonate as CO3	87	mg/L		5	SM 2320B	05/02/2015 213	BT
Chloride	4	mg/L		1	EPA 300.0	05/01/2015 2339	AB
Fluoride	1.8	mg/L		0.1	SM 4500FC	05/02/2015 213	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1455	AMB
Sulfate	197	mg/L		1	EPA 300.0	05/01/2015 2339	AB
Calcium	3	mg/L		1	EPA 200.7	04/30/2015 2028	DG
Magnesium	1	mg/L		1	EPA 200.7	04/30/2015 2028	DG
Potassium	8	mg/L		1	EPA 200.7	04/30/2015 2028	DG
Sodium	398	mg/L		1	EPA 200.7	04/30/2015 2028	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/06/2015 1208	AMB
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	05/02/2015 213	BT
Electrical Conductivity	1570	µmhos/cm		5	SM 2510B	05/02/2015 213	BT
Total Dissolved Solids (180)	1000	mg/L		10	SM 2540	04/30/2015 1043	IR
Data Quality							
Cation Sum	17.77	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	16.54	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	3.56	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	980	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-013
ClientSample ID: SM13
COC: 152905

WorkOrder: S1504426
CollectionDate: 4/29/2015 4:20:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2028	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	04/30/2015 2015	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 2015	MS
Boron	0.5	mg/L		0.1	EPA 200.7	04/30/2015 2028	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 2015	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2028	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 2015	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2028	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 2015	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1128	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 2015	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2028	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 2015	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 2015	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	04/30/2015 2015	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 2015	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2028	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 104	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/05/2015 1036	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1036	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-013
ClientSample ID: SM13
COC: 152905

WorkOrder: S1504426
CollectionDate: 4/29/2015 4:20:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	7.1	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	2.2	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 1049	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 1049	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/25/2015 1646	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/25/2015 1646	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1802	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1802	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/24/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/24/2015 812	MB
Radionuclides - Total							
Radon 222	449	pCi/L		100	ASTM D5072-09	05/02/2015 156	MB
Radon-222 Precision (±)	19.6	pCi/L			ASTM D5072-09	05/02/2015 156	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-001
ClientSample ID: SM14
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 2:40:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.49	s.u.			Field	04/21/2015 1440	
Conductivity	1949	µmhos/cm			Field	04/21/2015 1440	
Dissolved Oxygen	1.66	mg/L			Field	04/21/2015 1440	
Dissolved Oxygen (pct)	15.3	%			Field	04/21/2015 1440	
Turbidity	4.42	NTU			Field	04/21/2015 1440	
Temperature	11.9	℃			Field	04/21/2015 1440	
Oxygen Reduction Potential (ORP)	-221	mV			Field	04/21/2015 1440	
Anions/Cations							
Alkalinity, Total (As CaCO3)	694	mg/L		5	SM 2320B	04/23/2015 2309	BT
Alkalinity, Bicarbonate as HCO3	769	mg/L		5	SM 2320B	04/23/2015 2309	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	04/23/2015 2309	BT
Chloride	5	mg/L		1	EPA 300.0	04/24/2015 258	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	04/23/2015 2309	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/28/2015 1532	AMB
Sulfate	318	mg/L		1	EPA 300.0	04/24/2015 258	AB
Calcium	5	mg/L		1	EPA 200.7	04/24/2015 015	DG
Magnesium	3	mg/L		1	EPA 200.7	04/24/2015 015	DG
Potassium	5	mg/L		1	EPA 200.7	04/24/2015 015	DG
Sodium	498	mg/L		1	EPA 200.7	04/24/2015 015	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/04/2015 1339	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	04/23/2015 2309	BT
Electrical Conductivity	1950	µmhos/cm		5	SM 2510B	04/23/2015 2309	BT
Total Dissolved Solids (180)	1360	mg/L		10	SM 2540	04/23/2015 1213	IR
Data Quality							
Cation Sum	22.27	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Anion Sum	20.66	meq/L		0.01	SM 1030E	05/12/2015 1148	WN
Cation-Anion Balance (± 5%)	3.75	%		0.01	SM 1030E	05/12/2015 1148	WN
Solids, Total Dissolved (Calc)	1250	mg/L		10	SM 1030E	05/12/2015 1148	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-001
ClientSample ID: SM14
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 2:40:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/24/2015 015	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/24/2015 015	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/24/2015 015	MS
Boron	0.4	mg/L		0.1	EPA 200.7	04/24/2015 015	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/24/2015 015	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/24/2015 015	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/24/2015 015	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/24/2015 015	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/24/2015 015	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/24/2015 1317	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/24/2015 015	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/24/2015 015	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/24/2015 015	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/24/2015 015	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/24/2015 015	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/24/2015 015	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/24/2015 015	DG
Metals - Suspended							
Uranium	0.0003	mg/L		0.0003	EPA 200.8	04/24/2015 2308	MS
Metals - Total							
Iron	0.09	mg/L		0.05	EPA 200.7	04/27/2015 2020	DG
Manganese	ND	mg/L		0.02	EPA 200.7	04/27/2015 2020	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/20/2015
Report ID S1504324001

ProjectName: Strata Ross ISR
Lab ID: S1504324-001
ClientSample ID: SM14
COC: 152903

WorkOrder: S1504324
CollectionDate: 4/21/2015 2:40:00 PM
DateReceived: 4/22/2015 8:00:00 AM
FieldSampler: CM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.2	pCi/L		2	SM 7110B	05/06/2015 2217	MB
Gross Alpha Precision (±)	1.9	pCi/L			SM 7110B	05/06/2015 2217	MB
Gross Beta	3.6	pCi/L		3	SM 7110B	05/06/2015 2217	MB
Gross Beta Precision (±)	2.8	pCi/L			SM 7110B	05/06/2015 2217	MB
Lead 210	ND	pCi/L		1	OTW01	05/05/2015 1301	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/05/2015 1301	MB
Polonium 210	ND	pCi/L		1	OTW01	05/04/2015 1730	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/04/2015 1730	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1200	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/04/2015 1200	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/05/2015 1004	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/05/2015 1004	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/05/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/05/2015 813	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/06/2015 1044	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1044	MB
Polonium 210	ND	pCi/L		1	OTW01	05/06/2015 1601	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/06/2015 1601	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/04/2015 1418	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/04/2015 1418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/07/2015 810	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/07/2015 810	MB
Radionuclides - Total							
Radon 222	382	pCi/L		100	ASTM D5072-09	04/23/2015 1904	MB
Radon-222 Precision (±)	17.4	pCi/L			ASTM D5072-09	04/23/2015 1904	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-008
ClientSample ID: DM1
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 10:25:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.8	s.u.			Field	04/29/2015 1025	
Conductivity	1474	µmhos/cm			Field	04/29/2015 1025	
Dissolved Oxygen	4.95	mg/L			Field	04/29/2015 1025	
Dissolved Oxygen (pct)	46.3	%			Field	04/29/2015 1025	
Turbidity	79.4	NTU			Field	04/29/2015 1025	
Temperature	12.0	℃			Field	04/29/2015 1025	
Oxygen Reduction Potential (ORP)	+70	mV			Field	04/29/2015 1025	
Anions/Cations							
Alkalinity, Total (As CaCO3)	329	mg/L		5	SM 2320B	05/02/2015 109	BT
Alkalinity, Bicarbonate as HCO3	247	mg/L		5	SM 2320B	05/02/2015 109	BT
Alkalinity, Carbonate as CO3	76	mg/L		5	SM 2320B	05/02/2015 109	BT
Chloride	123	mg/L		1	EPA 300.0	05/01/2015 2231	AB
Fluoride	1.3	mg/L		0.1	SM 4500FC	05/02/2015 109	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1448	AMB
Sulfate	182	mg/L		1	EPA 300.0	05/01/2015 2231	AB
Calcium	4	mg/L		1	EPA 200.7	04/30/2015 2005	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/30/2015 2005	DG
Potassium	5	mg/L		1	EPA 200.7	04/30/2015 2005	DG
Sodium	339	mg/L		1	EPA 200.7	04/30/2015 2005	DG
Nitrogen, Ammonia (As N)	1.1	mg/L		0.1	EPA 350.1	05/06/2015 1202	AMB
General Parameters							
pH	9.6	s.u.		0.1	SM 4500 H B	05/02/2015 109	BT
Electrical Conductivity	1450	µmhos/cm		5	SM 2510B	05/02/2015 109	BT
Total Dissolved Solids (180)	910	mg/L		10	SM 2540	04/30/2015 1037	IR
Data Quality							
Cation Sum	15.16	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	13.92	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	4.26	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	850	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-008
ClientSample ID: DM1
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 10:25:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2005	DG
Arsenic	0.010	mg/L		0.005	EPA 200.8	04/30/2015 1910	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1910	MS
Boron	0.7	mg/L		0.1	EPA 200.7	04/30/2015 2005	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1910	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2005	DG
Copper	0.05	mg/L		0.01	EPA 200.8	04/30/2015 1910	MS
Iron	0.16	mg/L		0.05	EPA 200.7	04/30/2015 2005	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1910	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1111	AW
Molybdenum	0.03	mg/L		0.02	EPA 200.8	04/30/2015 1910	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2005	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1910	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1910	MS
Uranium	0.0027	mg/L		0.0003	EPA 200.8	04/30/2015 1910	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1910	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	04/30/2015 2005	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 521	MS
Metals - Total							
Iron	2.32	mg/L		0.05	EPA 200.7	05/05/2015 1012	DG
Manganese	0.05	mg/L		0.02	EPA 200.7	05/05/2015 1012	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-008
ClientSample ID: DM1
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 10:25:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.0	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	1.8	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	7.2	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 840	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/19/2015 840	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/22/2015 2050	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/22/2015 2050	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1239	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 1136	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1136	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1450	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1450	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	2.2	pCi/L		0.2	ACW10	05/18/2015 1701	MB
Thorium 230 Precision (±)	0.4	pCi/L			ACW10	05/18/2015 1701	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/01/2015 2223	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/01/2015 2223	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-007
ClientSample ID: DM2
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:15:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.18	s.u.			Field	04/29/2015 1115	
Conductivity	2220	µmhos/cm			Field	04/29/2015 1115	
Dissolved Oxygen	2.55	mg/L			Field	04/29/2015 1115	
Dissolved Oxygen (pct)	24.9	%			Field	04/29/2015 1115	
Turbidity	42.6	NTU			Field	04/29/2015 1115	
Temperature	14.7	℃			Field	04/29/2015 1115	
Oxygen Reduction Potential (ORP)	-7	mV			Field	04/29/2015 1115	
Anions/Cations							
Alkalinity, Total (As CaCO3)	338	mg/L		5	SM 2320B	05/02/2015 045	BT
Alkalinity, Bicarbonate as HCO3	329	mg/L		5	SM 2320B	05/02/2015 045	BT
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	05/02/2015 045	BT
Chloride	228	mg/L		1	EPA 300.0	05/01/2015 2218	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/02/2015 045	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1437	AMB
Sulfate	344	mg/L		1	EPA 300.0	05/01/2015 2218	AB
Calcium	7	mg/L		1	EPA 200.7	04/30/2015 2000	DG
Magnesium	2	mg/L		1	EPA 200.7	04/30/2015 2000	DG
Potassium	8	mg/L		1	EPA 200.7	04/30/2015 2000	DG
Sodium	462	mg/L		1	EPA 200.7	04/30/2015 2000	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/06/2015 1151	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	05/02/2015 045	BT
Electrical Conductivity	2130	µmhos/cm		5	SM 2510B	05/02/2015 045	BT
Total Dissolved Solids (180)	1280	mg/L		10	SM 2540	04/30/2015 1036	IR
Data Quality							
Cation Sum	20.89	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	20.41	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	1.13	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1250	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-007
ClientSample ID: DM2
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:15:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 2000	DG
Arsenic	0.009	mg/L		0.005	EPA 200.8	04/30/2015 1904	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1904	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/30/2015 2000	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1904	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2000	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 1904	MS
Iron	0.09	mg/L		0.05	EPA 200.7	04/30/2015 2000	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1904	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1109	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1904	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2000	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1904	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1904	MS
Uranium	0.0026	mg/L		0.0003	EPA 200.8	04/30/2015 1904	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1904	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2000	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 516	MS
Metals - Total							
Iron	0.89	mg/L		0.05	EPA 200.7	05/05/2015 958	DG
Manganese	0.04	mg/L		0.02	EPA 200.7	05/05/2015 958	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-007
ClientSample ID: DM2
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:15:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	7.5	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 840	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 840	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/22/2015 1750	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/22/2015 1750	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1239	MB
Radionuclides - Suspended							
Lead 210	4.4	pCi/L		1	OTW01	05/25/2015 1136	MB
Lead 210 (Suspended) Precision (±)	1.1	pCi/L			OTW01	05/25/2015 1136	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1450	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1450	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1701	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1701	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/01/2015 2147	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/01/2015 2147	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-016
ClientSample ID: DM3A
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:05:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.27	s.u.			Field	04/28/2015 1505	
Conductivity	3300	µmhos/cm			Field	04/28/2015 1505	
Dissolved Oxygen	3.76	mg/L			Field	04/28/2015 1505	
Dissolved Oxygen (pct)	38.4	%			Field	04/28/2015 1505	
Turbidity	28.8	NTU			Field	04/28/2015 1505	
Temperature	16.9	℃			Field	04/28/2015 1505	
Oxygen Reduction Potential (ORP)	-65	mV			Field	04/28/2015 1505	
Anions/Cations							
Alkalinity, Total (As CaCO3)	368	mg/L		5	SM 2320B	04/29/2015 1848	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	04/29/2015 1848	BT
Alkalinity, Carbonate as CO3	194	mg/L		5	SM 2320B	04/29/2015 1848	BT
Chloride	277	mg/L		1	EPA 300.0	04/29/2015 2257	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	04/29/2015 1848	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1343	AMB
Sulfate	775	mg/L		1	EPA 300.0	04/29/2015 2257	AB
Calcium	10	mg/L		1	EPA 200.7	04/29/2015 1635	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1635	DG
Potassium	21	mg/L		1	EPA 200.7	04/29/2015 1635	DG
Sodium	691	mg/L		1	EPA 200.7	04/29/2015 1635	DG
Nitrogen, Ammonia (As N)	5.0	mg/L		0.1	EPA 350.1	05/05/2015 1135	AMB
General Parameters							
pH	10.9	s.u.		0.1	SM 4500 H B	04/29/2015 1848	BT
Electrical Conductivity	3130	µmhos/cm		5	SM 2510B	04/29/2015 1848	BT
Total Dissolved Solids (180)	2040	mg/L		10	SM 2540	04/29/2015 1426	IR
Data Quality							
Cation Sum	31.41	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	31.34	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.11	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1990	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-016
ClientSample ID: DM3A
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:05:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	04/29/2015 1635	DG
Arsenic	0.010	mg/L		0.005	EPA 200.8	04/29/2015 1658	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1658	MS
Boron	0.7	mg/L		0.1	EPA 200.7	04/29/2015 1635	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1658	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1635	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1658	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1635	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1658	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1002	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1658	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1635	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1658	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1658	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 1658	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1658	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1635	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 153	MS
Metals - Total							
Iron	0.58	mg/L		0.05	EPA 200.7	05/01/2015 727	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 727	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-016
ClientSample ID: DM3A
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:05:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.9	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	3.2	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	12.8	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	6.1	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/18/2015 2339	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/18/2015 2339	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1645	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1645	MB
Radionuclides - Total							
Radon 222	139	pCi/L		100	ASTM D5072-09	04/30/2015 230	MB
Radon-222 Precision (±)	8.5	pCi/L			ASTM D5072-09	04/30/2015 230	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-006
ClientSample ID: DM4
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:45:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.65	s.u.			Field	04/29/2015 1145	
Conductivity	2760	µmhos/cm			Field	04/29/2015 1145	
Dissolved Oxygen	3.4	mg/L			Field	04/29/2015 1145	
Dissolved Oxygen (pct)	35	%			Field	04/29/2015 1145	
Turbidity	28.3	NTU			Field	04/29/2015 1145	
Temperature	15.6	℃			Field	04/29/2015 1145	
Oxygen Reduction Potential (ORP)	-15	mV			Field	04/29/2015 1145	
Anions/Cations							
Alkalinity, Total (As CaCO3)	410	mg/L		5	SM 2320B	05/02/2015 009	BT
Alkalinity, Bicarbonate as HCO3	442	mg/L		5	SM 2320B	05/02/2015 009	BT
Alkalinity, Carbonate as CO3	29	mg/L		5	SM 2320B	05/02/2015 009	BT
Chloride	565	mg/L		1	EPA 300.0	05/05/2015 242	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	05/02/2015 009	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1436	AMB
Sulfate	47	mg/L		1	EPA 300.0	05/01/2015 2204	AB
Calcium	7	mg/L		1	EPA 200.7	04/30/2015 1958	DG
Magnesium	2	mg/L		1	EPA 200.7	04/30/2015 1958	DG
Potassium	6	mg/L		1	EPA 200.7	04/30/2015 1958	DG
Sodium	579	mg/L		1	EPA 200.7	04/30/2015 1958	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/06/2015 1150	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/02/2015 009	BT
Electrical Conductivity	2630	µmhos/cm		5	SM 2510B	05/02/2015 009	BT
Total Dissolved Solids (180)	1510	mg/L		10	SM 2540	04/30/2015 1035	IR
Data Quality							
Cation Sum	25.85	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	25.16	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	1.36	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1450	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-006
ClientSample ID: DM4
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:45:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1958	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 1859	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1859	MS
Boron	0.8	mg/L		0.1	EPA 200.7	04/30/2015 1958	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1859	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1958	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 1859	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1958	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1859	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1107	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1859	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1958	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1859	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1859	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	04/30/2015 1859	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1859	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1958	DG
Metals - Suspended							
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/06/2015 510	MS
Metals - Total							
Iron	0.89	mg/L		0.05	EPA 200.7	05/05/2015 956	DG
Manganese	0.03	mg/L		0.02	EPA 200.7	05/05/2015 956	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-006
ClientSample ID: DM4
COC: 152901

WorkOrder: S1504426
CollectionDate: 4/29/2015 11:45:00 AM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.7	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	2.8	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	8.1	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1741	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1741	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1045	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1045	MB
Radium 226	1.7	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 840	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/19/2015 840	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/22/2015 1449	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/22/2015 1449	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1239	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/20/2015 216	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/20/2015 216	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1756	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1756	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1701	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1701	MB
Radionuclides - Total							
Radon 222	103	pCi/L		100	ASTM D5072-09	05/01/2015 2112	MB
Radon-222 Precision (±)	7.2	pCi/L			ASTM D5072-09	05/01/2015 2112	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-009
ClientSample ID: DM5
COC: 152908

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:10:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.26	s.u.			Field	04/29/2015 1210	
Conductivity	3040	µmhos/cm			Field	04/29/2015 1210	
Dissolved Oxygen	4.11	mg/L			Field	04/29/2015 1210	
Dissolved Oxygen (pct)	42.6	%			Field	04/29/2015 1210	
Turbidity	47.8	NTU			Field	04/29/2015 1210	
Temperature	16.6	℃			Field	04/29/2015 1210	
Oxygen Reduction Potential (ORP)	+33	mV			Field	04/29/2015 1210	
Anions/Cations							
Alkalinity, Total (As CaCO3)	263	mg/L		5	SM 2320B	05/02/2015 124	BT
Alkalinity, Bicarbonate as HCO3	49	mg/L		5	SM 2320B	05/02/2015 124	BT
Alkalinity, Carbonate as CO3	134	mg/L		5	SM 2320B	05/02/2015 124	BT
Chloride	329	mg/L		1	EPA 300.0	05/01/2015 2245	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	05/02/2015 124	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1449	AMB
Sulfate	560	mg/L		1	EPA 300.0	05/01/2015 2245	AB
Calcium	4	mg/L		1	EPA 200.7	04/30/2015 2019	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/30/2015 2019	DG
Potassium	14	mg/L		1	EPA 200.7	04/30/2015 2019	DG
Sodium	609	mg/L		1	EPA 200.7	04/30/2015 2019	DG
Nitrogen, Ammonia (As N)	2.9	mg/L		0.1	EPA 350.1	05/06/2015 1203	AMB
General Parameters							
pH	10.4	s.u.		0.1	SM 4500 H B	05/02/2015 124	BT
Electrical Conductivity	2830	µmhos/cm		5	SM 2510B	05/02/2015 124	BT
Total Dissolved Solids (180)	1780	mg/L		10	SM 2540	04/30/2015 1039	IR
Data Quality							
Cation Sum	27.27	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Anion Sum	26.26	meq/L		0.01	SM 1030E	05/07/2015 919	BC
Cation-Anion Balance (± 5%)	1.89	%		0.01	SM 1030E	05/07/2015 919	BC
Solids, Total Dissolved (Calc)	1670	mg/L		10	SM 1030E	05/07/2015 919	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-009
ClientSample ID: DM5
COC: 152908

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:10:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.6	mg/L		0.1	EPA 200.7	04/30/2015 2019	DG
Arsenic	0.011	mg/L		0.005	EPA 200.8	04/30/2015 1926	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1926	MS
Boron	0.7	mg/L		0.1	EPA 200.7	04/30/2015 2019	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1926	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 2019	DG
Copper	0.02	mg/L		0.01	EPA 200.8	04/30/2015 1926	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 2019	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1926	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/07/2015 1113	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1926	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 2019	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1926	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1926	MS
Uranium	0.0007	mg/L		0.0003	EPA 200.8	04/30/2015 1926	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1926	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 2019	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 016	MS
Metals - Total							
Iron	1.33	mg/L		0.05	EPA 200.7	05/05/2015 1014	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/05/2015 1014	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-009
ClientSample ID: DM5
COC: 152908

WorkOrder: S1504426
CollectionDate: 4/29/2015 12:10:00 PM
DateReceived: 4/29/2015 8:00:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	8.2	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 919	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 919	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/19/2015 840	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/19/2015 840	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/25/2015 442	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/25/2015 442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 1239	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1432	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1432	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1652	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1652	MB

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504426001

ProjectName: ROSS MU1 ISR
Lab ID: S1504426-020
ClientSample ID: MU1-DM5
COC: 152908

WorkOrder: S1504426
CollectionDate: 4/30/2015 10:15:00 AM
DateReceived: 4/30/2015 10:20:00 AM
FieldSampler: JF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/02/2015 605	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/02/2015 605	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-022
ClientSample ID: DM6
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:20:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.35	s.u.			Field	04/28/2015 1320	
Conductivity	3060	µmhos/cm			Field	04/28/2015 1320	
Dissolved Oxygen	3.11	mg/L			Field	04/28/2015 1320	
Dissolved Oxygen (pct)	30.5	%			Field	04/28/2015 1320	
Turbidity	30.4	NTU			Field	04/28/2015 1320	
Temperature	13.4	℃			Field	04/28/2015 1320	
Oxygen Reduction Potential (ORP)	-55	mV			Field	04/28/2015 1320	
Anions/Cations							
Alkalinity, Total (As CaCO3)	347	mg/L		5	SM 2320B	04/29/2015 2034	BT
Alkalinity, Bicarbonate as HCO3	106	mg/L		5	SM 2320B	04/29/2015 2034	BT
Alkalinity, Carbonate as CO3	156	mg/L		5	SM 2320B	04/29/2015 2034	BT
Chloride	727	mg/L		1	EPA 300.0	04/30/2015 1350	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	04/29/2015 2034	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1401	AMB
Sulfate	11	mg/L		1	EPA 300.0	04/30/2015 146	AB
Calcium	2	mg/L		1	EPA 200.7	04/29/2015 1702	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1702	DG
Potassium	34	mg/L		1	EPA 200.7	04/29/2015 1702	DG
Sodium	606	mg/L		1	EPA 200.7	04/29/2015 1702	DG
Nitrogen, Ammonia (As N)	1.1	mg/L		0.1	EPA 350.1	05/05/2015 1151	AMB
General Parameters							
pH	10.2	s.u.		0.1	SM 4500 H B	04/29/2015 2034	BT
Electrical Conductivity	2840	µmhos/cm		5	SM 2510B	04/29/2015 2034	BT
Total Dissolved Solids (180)	1580	mg/L		10	SM 2540	04/29/2015 1432	IR
Data Quality							
Cation Sum	27.43	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	27.71	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.50	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1590	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-022
ClientSample ID: DM6
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:20:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1702	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1809	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1809	MS
Boron	0.9	mg/L		0.1	EPA 200.7	04/29/2015 1702	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1809	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1702	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1809	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1702	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1809	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1013	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1809	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1702	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1809	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1809	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 1809	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1809	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1702	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 304	MS
Metals - Total							
Iron	0.64	mg/L		0.05	EPA 200.7	05/01/2015 743	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 743	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-022
ClientSample ID: DM6
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:20:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.9	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	3.1	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	27.3	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	6.4	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/19/2015 1744	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/19/2015 1744	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1101	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1101	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1429	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1429	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 812	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	04/30/2015 603	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	04/30/2015 603	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-023
ClientSample ID: DM7
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:00:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.49	s.u.			Field	04/28/2015 1300	
Conductivity	3360	µmhos/cm			Field	04/28/2015 1300	
Dissolved Oxygen	4.15	mg/L			Field	04/28/2015 1300	
Dissolved Oxygen (pct)	39.6	%			Field	04/28/2015 1300	
Turbidity	84.0	NTU			Field	04/28/2015 1300	
Temperature	12.7	℃			Field	04/28/2015 1300	
Oxygen Reduction Potential (ORP)	53	mV			Field	04/28/2015 1300	
Anions/Cations							
Alkalinity, Total (As CaCO3)	401	mg/L		5	SM 2320B	04/29/2015 2049	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	04/29/2015 2049	BT
Alkalinity, Carbonate as CO3	217	mg/L		5	SM 2320B	04/29/2015 2049	BT
Chloride	709	mg/L		1	EPA 300.0	04/30/2015 1405	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	04/29/2015 2049	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1403	AMB
Sulfate	50	mg/L		1	EPA 300.0	04/30/2015 201	AB
Calcium	3	mg/L		1	EPA 200.7	04/29/2015 1704	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1704	DG
Potassium	37	mg/L		1	EPA 200.7	04/29/2015 1704	DG
Sodium	614	mg/L		1	EPA 200.7	04/29/2015 1704	DG
Nitrogen, Ammonia (As N)	2.0	mg/L		0.1	EPA 350.1	05/05/2015 1153	AMB
General Parameters							
pH	11.0	s.u.		0.1	SM 4500 H B	04/29/2015 2049	BT
Electrical Conductivity	3050	µmhos/cm		5	SM 2510B	04/29/2015 2049	BT
Total Dissolved Solids (180)	1680	mg/L		10	SM 2540	04/29/2015 1433	IR
Data Quality							
Cation Sum	27.95	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	29.12	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	2.06	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1650	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-023
ClientSample ID: DM7
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:00:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.9	mg/L		0.1	EPA 200.7	04/29/2015 1704	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1815	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1815	MS
Boron	0.9	mg/L		0.1	EPA 200.7	04/29/2015 1704	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1815	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1704	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1815	MS
Iron	0.06	mg/L		0.05	EPA 200.7	04/29/2015 1704	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1815	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1019	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1815	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1704	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1815	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1815	MS
Uranium	0.0011	mg/L		0.0003	EPA 200.8	04/29/2015 1815	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1815	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1704	DG
Metals - Suspended							
Uranium	0.0007	mg/L		0.0003	EPA 200.8	05/06/2015 309	MS
Metals - Total							
Iron	1.45	mg/L		0.05	EPA 200.7	05/01/2015 757	DG
Manganese	0.02	mg/L		0.02	EPA 200.7	05/01/2015 757	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-023
ClientSample ID: DM7
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:00:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.6	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	3.3	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	32.7	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	6.9	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/19/2015 2045	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/19/2015 2045	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	13.8	pCi/L		1	OTW01	05/18/2015 1101	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	05/18/2015 1101	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1429	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1429	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 812	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	04/30/2015 639	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	04/30/2015 639	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-025
ClientSample ID: DM8
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.24	s.u.			Field	04/28/2015 1230	
Conductivity	3360	µmhos/cm			Field	04/28/2015 1230	
Dissolved Oxygen	2.64	mg/L			Field	04/28/2015 1230	
Dissolved Oxygen (pct)	24.3	%			Field	04/28/2015 1230	
Turbidity	46.8	NTU			Field	04/28/2015 1230	
Temperature	10.9	℃			Field	04/28/2015 1230	
Oxygen Reduction Potential (ORP)	6	mV			Field	04/28/2015 1230	
Anions/Cations							
Alkalinity, Total (As CaCO3)	458	mg/L		5	SM 2320B	04/29/2015 2120	BT
Alkalinity, Bicarbonate as HCO3	172	mg/L		5	SM 2320B	04/29/2015 2120	BT
Alkalinity, Carbonate as CO3	190	mg/L		5	SM 2320B	04/29/2015 2120	BT
Chloride	753	mg/L		1	EPA 300.0	04/30/2015 1421	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	04/29/2015 2120	BT
Nitrogen, Nitrate+Nitrite (as N)	0.2	mg/L		0.1	EPA 353.2	05/04/2015 1406	AMB
Sulfate	27	mg/L		1	EPA 300.0	04/30/2015 232	AB
Calcium	3	mg/L		1	EPA 200.7	04/29/2015 1722	DG
Magnesium	1	mg/L		1	EPA 200.7	04/29/2015 1722	DG
Potassium	27	mg/L		1	EPA 200.7	04/29/2015 1722	DG
Sodium	637	mg/L		1	EPA 200.7	04/29/2015 1722	DG
Nitrogen, Ammonia (As N)	2.1	mg/L		0.1	EPA 350.1	05/05/2015 1155	AMB
General Parameters							
pH	10.1	s.u.		0.1	SM 4500 H B	04/29/2015 2120	BT
Electrical Conductivity	3100	µmhos/cm		5	SM 2510B	04/29/2015 2120	BT
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	04/29/2015 1436	IR
Data Quality							
Cation Sum	28.80	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	31.02	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	3.71	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1720	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-025
ClientSample ID: DM8
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1722	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	04/29/2015 1826	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1826	MS
Boron	1.0	mg/L		0.1	EPA 200.7	04/29/2015 1722	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1826	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1722	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1826	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1722	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1826	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1029	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1826	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1722	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1826	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1826	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	04/29/2015 1826	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1826	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1722	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 320	MS
Metals - Total							
Iron	1.79	mg/L		0.05	EPA 200.7	05/01/2015 809	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 809	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-025
ClientSample ID: DM8
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	24.6	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/20/2015 2337	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/20/2015 2337	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	151	pCi/L		100	ASTM D5072-09	04/30/2015 750	MB
Radon-222 Precision (±)	9.2	pCi/L			ASTM D5072-09	04/30/2015 750	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-026
ClientSample ID: DM9
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:42:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	12.42	s.u.			Field	04/28/2015 1242	
Conductivity	5290	µmhos/cm			Field	04/28/2015 1242	
Dissolved Oxygen	3.55	mg/L			Field	04/28/2015 1242	
Dissolved Oxygen (pct)	32.9	%			Field	04/28/2015 1242	
Turbidity	30.7	NTU			Field	04/28/2015 1242	
Temperature	11.5	℃			Field	04/28/2015 1242	
Oxygen Reduction Potential (ORP)	-39	mV			Field	04/28/2015 1242	
Anions/Cations							
Alkalinity, Total (As CaCO3)	653	mg/L		5	SM 2320B	05/05/2015 002	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/05/2015 002	BT
Alkalinity, Carbonate as CO3	88	mg/L		5	SM 2320B	05/05/2015 002	BT
Chloride	496	mg/L		1	EPA 300.0	05/06/2015 1233	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	04/29/2015 2152	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1407	AMB
Sulfate	67	mg/L		1	EPA 300.0	05/06/2015 1233	AB
Calcium	31	mg/L		1	EPA 200.7	05/06/2015 1919	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1725	DG
Potassium	65	mg/L		1	EPA 200.7	05/05/2015 914	DG
Sodium	535	mg/L		1	EPA 200.7	05/06/2015 1919	DG
Nitrogen, Ammonia (As N)	2.3	mg/L		0.1	EPA 350.1	05/05/2015 1157	AMB
General Parameters							
pH	12.2	s.u.		0.1	SM 4500 H B	05/05/2015 002	BT
Electrical Conductivity	4410	µmhos/cm		5	SM 2510B	04/29/2015 2152	BT
Total Dissolved Solids (180)	3690	mg/L		10	SM 2540	04/29/2015 1437	IR
Data Quality							
Cation Sum	26.64	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	28.49	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	3.35	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1590	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-026
ClientSample ID: DM9
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:42:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	1.0	mg/L		0.1	EPA 200.7	04/29/2015 1725	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1832	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1832	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/29/2015 1725	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1832	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1725	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1832	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1725	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1832	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1031	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1832	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1725	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1832	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1832	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 1832	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1832	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1725	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 326	MS
Metals - Total							
Iron	0.93	mg/L		0.05	EPA 200.7	05/01/2015 812	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 812	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-026
ClientSample ID: DM9
COC: 152914

WorkOrder: S1504396
CollectionDate: 4/28/2015 12:42:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.5	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	3.3	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	57.3	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	7.6	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 238	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 238	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	162	pCi/L		100	ASTM D5072-09	04/30/2015 826	MB
Radon-222 Precision (±)	9.7	pCi/L			ASTM D5072-09	04/30/2015 826	MB

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-009
ClientSample ID: DM10
COC: 152900

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:50:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.24	s.u.			Field	04/28/2015 1550	
Conductivity	3160	µmhos/cm			Field	04/28/2015 1550	
Dissolved Oxygen	3.87	mg/L			Field	04/28/2015 1550	
Dissolved Oxygen (pct)	38.6	%			Field	04/28/2015 1550	
Turbidity	599	NTU			Field	04/28/2015 1550	
Temperature	14.6	℃			Field	04/28/2015 1550	
Oxygen Reduction Potential (ORP)	11	mV			Field	04/28/2015 1550	
Anions/Cations							
Alkalinity, Total (As CaCO3)	393	mg/L		5	SM 2320B	04/29/2015 1702	BT
Alkalinity, Bicarbonate as HCO3	133	mg/L		5	SM 2320B	04/29/2015 1702	BT
Alkalinity, Carbonate as CO3	170	mg/L		5	SM 2320B	04/29/2015 1702	BT
Chloride	673	mg/L		1	EPA 300.0	04/30/2015 1319	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	04/29/2015 1702	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1324	AMB
Sulfate	126	mg/L		1	EPA 300.0	04/29/2015 2110	AB
Calcium	2	mg/L		1	EPA 200.7	04/29/2015 1606	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1606	DG
Potassium	33	mg/L		1	EPA 200.7	04/29/2015 1606	DG
Sodium	624	mg/L		1	EPA 200.7	04/29/2015 1606	DG
Nitrogen, Ammonia (As N)	1.0	mg/L		0.1	EPA 350.1	05/05/2015 1118	AMB
General Parameters							
pH	10.2	s.u.		0.1	SM 4500 H B	04/29/2015 1702	BT
Electrical Conductivity	2990	µmhos/cm		5	SM 2510B	04/29/2015 1702	BT
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	04/29/2015 1418	IR
Data Quality							
Cation Sum	28.17	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	29.52	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	2.34	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1690	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-009
ClientSample ID: DM10
COC: 152900

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:50:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.5	mg/L		0.1	EPA 200.7	04/29/2015 1606	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	04/29/2015 1608	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1608	MS
Boron	1.0	mg/L		0.1	EPA 200.7	04/29/2015 1606	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1608	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1606	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1608	MS
Iron	0.19	mg/L		0.05	EPA 200.7	04/29/2015 1606	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1608	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 934	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1608	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1606	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1608	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1608	MS
Uranium	0.0012	mg/L		0.0003	EPA 200.8	04/29/2015 1608	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1608	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1606	DG
Metals - Suspended							
Uranium	0.0031	mg/L		0.0003	EPA 200.8	05/06/2015 047	MS
Metals - Total							
Iron	10.5	mg/L		0.05	EPA 200.7	05/01/2015 656	DG
Manganese	0.14	mg/L		0.02	EPA 200.7	05/01/2015 656	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-009
ClientSample ID: DM10
COC: 152900

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:50:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	6.6	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	3.4	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	20.7	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/18/2015 233	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/18/2015 233	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/12/2015 832	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/12/2015 832	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	04/29/2015 2146	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	04/29/2015 2146	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-008
ClientSample ID: DM11
COC: 152900

WorkOrder: S1504396
CollectionDate: 4/28/2015 4:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.59	s.u.			Field	04/28/2015 1630	
Conductivity	2710	µmhos/cm			Field	04/28/2015 1630	
Dissolved Oxygen	3.28	mg/L			Field	04/28/2015 1630	
Dissolved Oxygen (pct)	32.5	%			Field	04/28/2015 1630	
Turbidity	34.1	NTU			Field	04/28/2015 1630	
Temperature	14.2	℃			Field	04/28/2015 1630	
Oxygen Reduction Potential (ORP)	26	mV			Field	04/28/2015 1630	
Anions/Cations							
Alkalinity, Total (As CaCO3)	497	mg/L		5	SM 2320B	04/29/2015 1647	BT
Alkalinity, Bicarbonate as HCO3	391	mg/L		5	SM 2320B	04/29/2015 1647	BT
Alkalinity, Carbonate as CO3	106	mg/L		5	SM 2320B	04/29/2015 1647	BT
Chloride	553	mg/L		1	EPA 300.0	04/30/2015 1304	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	04/29/2015 1647	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1322	AMB
Sulfate	5	mg/L		1	EPA 300.0	04/29/2015 1922	AB
Calcium	4	mg/L		1	EPA 200.7	04/29/2015 1604	DG
Magnesium	1	mg/L		1	EPA 200.7	04/29/2015 1604	DG
Potassium	38	mg/L		1	EPA 200.7	04/29/2015 1604	DG
Sodium	553	mg/L		1	EPA 200.7	04/29/2015 1604	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/05/2015 1117	AMB
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	04/29/2015 1647	BT
Electrical Conductivity	2560	µmhos/cm		5	SM 2510B	04/29/2015 1647	BT
Total Dissolved Solids (180)	1450	mg/L		10	SM 2540	04/29/2015 1417	IR
Data Quality							
Cation Sum	25.31	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	25.71	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.77	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1450	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-008
ClientSample ID: DM11
COC: 152900

WorkOrder: S1504396
CollectionDate: 4/28/2015 4:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	04/29/2015 1604	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1602	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1602	MS
Boron	0.9	mg/L		0.1	EPA 200.7	04/29/2015 1604	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1602	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1604	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1602	MS
Iron	0.11	mg/L		0.05	EPA 200.7	04/29/2015 1604	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1602	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 932	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1602	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1604	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1602	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1602	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 1602	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1602	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1604	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 041	MS
Metals - Total							
Iron	0.85	mg/L		0.05	EPA 200.7	05/01/2015 653	DG
Manganese	0.02	mg/L		0.02	EPA 200.7	05/01/2015 653	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-008
ClientSample ID: DM11
COC: 152900

WorkOrder: S1504396
CollectionDate: 4/28/2015 4:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	25.4	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/17/2015 2332	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/17/2015 2332	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/12/2015 832	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/12/2015 832	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1239	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1239	MB
Radionuclides - Total							
Radon 222	151	pCi/L		100	ASTM D5072-09	04/29/2015 2110	MB
Radon-222 Precision (±)	8.9	pCi/L			ASTM D5072-09	04/29/2015 2110	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-017
ClientSample ID: DM12
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 2:40:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	12.3	s.u.			Field	04/28/2015 1440	
Conductivity	5940	µmhos/cm			Field	04/28/2015 1440	
Dissolved Oxygen	3.83	mg/L			Field	04/28/2015 1440	
Dissolved Oxygen (pct)	38.4	%			Field	04/28/2015 1440	
Turbidity	19.34	NTU			Field	04/28/2015 1440	
Temperature	14.4	℃			Field	04/28/2015 1440	
Oxygen Reduction Potential (ORP)	-7	mV			Field	04/28/2015 1440	
Anions/Cations							
Alkalinity, Total (As CaCO3)	607	mg/L		5	SM 2320B	05/06/2015 1608	BT
Alkalinity, Bicarbonate as HCO3	658	mg/L		5	SM 2320B	05/06/2015 1608	BT
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	05/06/2015 1608	BT
Chloride	260	mg/L		1	EPA 300.0	05/05/2015 257	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	04/29/2015 1930	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1345	AMB
Sulfate	932	mg/L		1	EPA 300.0	05/06/2015 1218	AB
Calcium	9	mg/L		1	EPA 200.7	04/29/2015 1640	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1640	DG
Potassium	60	mg/L		1	EPA 200.7	05/05/2015 910	DG
Sodium	788	mg/L		1	EPA 200.7	05/05/2015 910	DG
Nitrogen, Ammonia (As N)	3.4	mg/L		0.1	EPA 350.1	05/05/2015 1137	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/06/2015 1608	BT
Electrical Conductivity	5320	µmhos/cm		5	SM 2510B	04/29/2015 1930	BT
Total Dissolved Solids (180)	3070	mg/L		10	SM 2540	04/29/2015 1427	IR
Data Quality							
Cation Sum	36.49	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	38.93	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	3.22	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	2410	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-017
ClientSample ID: DM12
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 2:40:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	04/29/2015 1640	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1715	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1715	MS
Boron	0.6	mg/L		0.1	EPA 200.7	04/29/2015 1640	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1715	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1640	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1715	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1640	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1715	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1004	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1715	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1640	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1715	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1715	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 1715	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1715	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1640	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 158	MS
Metals - Total							
Iron	0.94	mg/L		0.05	EPA 200.7	05/01/2015 729	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 729	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-017
ClientSample ID: DM12
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 2:40:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	42.0	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	11.0	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/19/2015 240	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/19/2015 240	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1307	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1101	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1101	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1429	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1429	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1645	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1645	MB
Radionuclides - Total							
Radon 222	107	pCi/L		100	ASTM D5072-09	04/30/2015 306	MB
Radon-222 Precision (±)	7.1	pCi/L			ASTM D5072-09	04/30/2015 306	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-015
ClientSample ID: DM13
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.25	s.u.			Field	04/28/2015 1530	
Conductivity	3140	µmhos/cm			Field	04/28/2015 1530	
Dissolved Oxygen	4.01	mg/L			Field	04/28/2015 1530	
Dissolved Oxygen (pct)	37.8	%			Field	04/28/2015 1530	
Turbidity	31.1	NTU			Field	04/28/2015 1530	
Temperature	12.4	℃			Field	04/28/2015 1530	
Oxygen Reduction Potential (ORP)	-23	mV			Field	04/28/2015 1530	
Anions/Cations							
Alkalinity, Total (As CaCO3)	569	mg/L		5	SM 2320B	04/29/2015 1820	BT
Alkalinity, Bicarbonate as HCO3	206	mg/L		5	SM 2320B	04/29/2015 1820	BT
Alkalinity, Carbonate as CO3	240	mg/L		5	SM 2320B	04/29/2015 1820	BT
Chloride	538	mg/L		1	EPA 300.0	04/30/2015 1335	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	04/29/2015 1820	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1342	AMB
Sulfate	100	mg/L		1	EPA 300.0	04/29/2015 2242	AB
Calcium	3	mg/L		1	EPA 200.7	04/29/2015 1633	DG
Magnesium	1	mg/L		1	EPA 200.7	04/29/2015 1633	DG
Potassium	75	mg/L		1	EPA 200.7	04/29/2015 1633	DG
Sodium	586	mg/L		1	EPA 200.7	04/29/2015 1633	DG
Nitrogen, Ammonia (As N)	1.2	mg/L		0.1	EPA 350.1	05/05/2015 1134	AMB
General Parameters							
pH	10.2	s.u.		0.1	SM 4500 H B	04/29/2015 1820	BT
Electrical Conductivity	2920	µmhos/cm		5	SM 2510B	04/29/2015 1820	BT
Total Dissolved Solids (180)	1700	mg/L		10	SM 2540	04/29/2015 1424	IR
Data Quality							
Cation Sum	27.68	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	28.71	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	1.81	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	1640	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-015
ClientSample ID: DM13
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1633	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	04/29/2015 1652	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1652	MS
Boron	0.8	mg/L		0.1	EPA 200.7	04/29/2015 1633	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1652	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1633	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1652	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1633	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1652	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 954	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1652	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1633	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1652	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1652	MS
Uranium	0.0011	mg/L		0.0003	EPA 200.8	04/29/2015 1652	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1652	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1633	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 147	MS
Metals - Total							
Iron	0.43	mg/L		0.05	EPA 200.7	05/01/2015 724	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 724	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-015
ClientSample ID: DM13
COC: 152917

WorkOrder: S1504396
CollectionDate: 4/28/2015 3:30:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.3	pCi/L		2	SM 7110B	05/13/2015 1554	MB
Gross Alpha Precision (±)	2.6	pCi/L			SM 7110B	05/13/2015 1554	MB
Gross Beta	56.6	pCi/L		3	SM 7110B	05/13/2015 1554	MB
Gross Beta Precision (±)	6.8	pCi/L			SM 7110B	05/13/2015 1554	MB
Lead 210	ND	pCi/L		1	OTW01	05/14/2015 1107	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1107	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1515	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1515	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1039	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1039	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/18/2015 2038	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/18/2015 2038	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 842	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 842	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 841	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 841	MB
Polonium 210	ND	pCi/L		1	OTW01	05/18/2015 1324	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1324	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1509	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1509	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 1645	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 1645	MB
Radionuclides - Total							
Radon 222	155	pCi/L		100	ASTM D5072-09	04/30/2015 119	MB
Radon-222 Precision (±)	9.2	pCi/L			ASTM D5072-09	04/30/2015 119	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-024
ClientSample ID: DM14
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:40:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	12.11	s.u.			Field	04/28/2015 1340	
Conductivity	4750	µmhos/cm			Field	04/28/2015 1340	
Dissolved Oxygen	4.25	mg/L			Field	04/28/2015 1340	
Dissolved Oxygen (pct)	41.4	%			Field	04/28/2015 1340	
Turbidity	32.0	NTU			Field	04/28/2015 1340	
Temperature	13.3	℃			Field	04/28/2015 1340	
Oxygen Reduction Potential (ORP)	-49	mV			Field	04/28/2015 1340	
Anions/Cations							
Alkalinity, Total (As CaCO3)	930	mg/L		5	SM 2320B	04/29/2015 2105	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	04/29/2015 2105	BT
Alkalinity, Carbonate as CO3	416	mg/L		5	SM 2320B	04/29/2015 2105	BT
Chloride	399	mg/L		1	EPA 300.0	05/05/2015 313	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	04/29/2015 2105	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1404	AMB
Sulfate	264	mg/L		1	EPA 300.0	05/05/2015 313	AB
Calcium	4	mg/L		1	EPA 200.7	04/29/2015 1709	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1709	DG
Potassium	192	mg/L		1	EPA 200.7	05/05/2015 912	DG
Sodium	708	mg/L		1	EPA 200.7	05/05/2015 912	DG
Nitrogen, Ammonia (As N)	2.0	mg/L		0.1	EPA 350.1	05/05/2015 1154	AMB
General Parameters							
pH	11.7	s.u.		0.1	SM 4500 H B	04/29/2015 2105	BT
Electrical Conductivity	4210	µmhos/cm		5	SM 2510B	04/29/2015 2105	BT
Total Dissolved Solids (180)	2340	mg/L		10	SM 2540	04/29/2015 1434	IR
Data Quality							
Cation Sum	36.03	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	35.38	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Cation-Anion Balance (± 5%)	0.90	%		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	2120	mg/L		10	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-024
ClientSample ID: DM14
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:40:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1709	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1821	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1821	MS
Boron	0.7	mg/L		0.1	EPA 200.7	04/29/2015 1709	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1821	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1709	DG
Copper	0.01	mg/L		0.01	EPA 200.8	04/29/2015 1821	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1709	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1821	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1027	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1821	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1709	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1821	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1821	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 1821	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1821	MS
Zinc	0.07	mg/L		0.01	EPA 200.7	04/29/2015 1709	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 315	MS
Metals - Total							
Iron	0.50	mg/L		0.05	EPA 200.7	05/01/2015 807	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 807	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-024
ClientSample ID: DM14
COC: 152916

WorkOrder: S1504396
CollectionDate: 4/28/2015 1:40:00 PM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/15/2015 1043	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/15/2015 1043	MB
Gross Beta	165	pCi/L		3	SM 7110B	05/15/2015 1043	MB
Gross Beta Precision (±)	9.8	pCi/L			SM 7110B	05/15/2015 1043	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1538	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1538	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 940	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 940	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/13/2015 1256	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/13/2015 1256	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/20/2015 2036	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/20/2015 2036	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/14/2015 1710	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/14/2015 1710	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/19/2015 1914	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1914	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1651	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1651	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 842	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/26/2015 842	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 812	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	04/30/2015 714	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	04/30/2015 714	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/12/2015
Report ID S1505225001

ProjectName: ROSS MU1 ISR
Lab ID: S1505225-001
ClientSample ID: MU1 OZ1
COC: 152910

WorkOrder: S1505225
CollectionDate: 5/14/2015 10:13:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	05/14/2015 1013	
Conductivity	2083	µmhos/cm			Field	05/14/2015 1013	
Dissolved Oxygen	3.89	mg/L			Field	05/14/2015 1013	
Turbidity	1.15	NTU			Field	05/14/2015 1013	
Temperature	12.6	℃			Field	05/14/2015 1013	
Oxygen Reduction Potential (ORP)	-277	mV			Field	05/14/2015 1013	
Anions/Cations							
Alkalinity, Total (As CaCO3)	535	mg/L		5	SM 2320B	05/15/2015 1951	BT
Alkalinity, Bicarbonate as HCO3	583	mg/L		5	SM 2320B	05/15/2015 1951	BT
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	05/15/2015 1951	BT
Chloride	7	mg/L		1	EPA 300.0	05/16/2015 136	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/15/2015 1951	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1329	AMB
Sulfate	704	mg/L		1	EPA 300.0	05/16/2015 136	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1158	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1158	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1158	DG
Sodium	621	mg/L		1	EPA 200.7	05/16/2015 1158	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 850	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 1951	BT
Electrical Conductivity	2570	µmhos/cm		5	SM 2510B	05/15/2015 1951	BT
Total Dissolved Solids (180)	1690	mg/L		10	SM 2540	05/15/2015 1423	BT
Data Quality							
Cation Sum	27.77	meq/L		0.01	SM 1030E	05/26/2015 1537	JJ
Anion Sum	25.56	meq/L		0.01	SM 1030E	05/26/2015 1537	JJ
Cation-Anion Balance (± 5%)	4.12	%		0.01	SM 1030E	05/26/2015 1537	JJ
Solids, Total Dissolved (Calc)	1670	mg/L		10	SM 1030E	05/26/2015 1537	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/12/2015
Report ID S1505225001

ProjectName: ROSS MU1 ISR
Lab ID: S1505225-001
ClientSample ID: MU1 OZ1
COC: 152910

WorkOrder: S1505225
CollectionDate: 5/14/2015 10:13:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1158	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1727	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1727	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1158	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1727	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1158	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1727	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1158	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1727	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1002	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1727	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1158	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1727	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1727	MS
Uranium	0.0838	mg/L		0.0003	EPA 200.8	05/15/2015 1727	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1727	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1158	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1930	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/19/2015 355	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 355	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/12/2015
Report ID S1505225001

ProjectName: ROSS MU1 ISR
Lab ID: S1505225-001
ClientSample ID: MU1 OZ1
COC: 152910

WorkOrder: S1505225
CollectionDate: 5/14/2015 10:13:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	190	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	13.5	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	95.1	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	8.7	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	20.2	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	1.3	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	7.8	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	45.3	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	0.8	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/06/2015 409	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/06/2015 409	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	4.8	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	28.9	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	2.1	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1256	MB
Radionuclides - Total							
Radon 222	84900	pCi/L		100	ASTM D5072-09	05/16/2015 2227	WN
Radon-222 Precision (±)	1690	pCi/L			ASTM D5072-09	05/16/2015 2227	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/12/2015
Report ID S1505225001

ProjectName: ROSS MU1 ISR
Lab ID: S1505225-002
ClientSample ID: MU1 OZ1 Dup
COC: 152910

WorkOrder: S1505225
CollectionDate: 5/14/2015 10:13:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	05/14/2015 1013	
Conductivity	2083	µmhos/cm			Field	05/14/2015 1013	
Dissolved Oxygen	3.89	mg/L			Field	05/14/2015 1013	
Turbidity	1.15	NTU			Field	05/14/2015 1013	
Temperature	12.6	℃			Field	05/14/2015 1013	
Oxygen Reduction Potential (ORP)	-277	mV			Field	05/14/2015 1013	
Anions/Cations							
Alkalinity, Total (As CaCO3)	534	mg/L		5	SM 2320B	05/15/2015 2004	BT
Alkalinity, Bicarbonate as HCO3	585	mg/L		5	SM 2320B	05/15/2015 2004	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	05/15/2015 2004	BT
Chloride	7	mg/L		1	EPA 300.0	05/16/2015 150	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/15/2015 2004	BT
Nitrogen, Nitrate+Nitrite (as N)	0.3	mg/L		0.1	EPA 353.2	05/20/2015 1330	AMB
Sulfate	698	mg/L		1	EPA 300.0	05/16/2015 150	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1200	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1200	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1200	DG
Sodium	622	mg/L		1	EPA 200.7	05/16/2015 1200	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 859	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 2004	BT
Electrical Conductivity	2580	µmhos/cm		5	SM 2510B	05/15/2015 2004	BT
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	05/15/2015 1424	BT
Data Quality							
Cation Sum	27.81	meq/L		0.01	SM 1030E	05/26/2015 1537	JJ
Anion Sum	25.44	meq/L		0.01	SM 1030E	05/26/2015 1537	JJ
Cation-Anion Balance (± 5%)	4.43	%		0.01	SM 1030E	05/26/2015 1537	JJ
Solids, Total Dissolved (Calc)	1660	mg/L		10	SM 1030E	05/26/2015 1537	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/12/2015
Report ID S1505225001

ProjectName: ROSS MU1 ISR
Lab ID: S1505225-002
ClientSample ID: MU1 OZ1 Dup
COC: 152910

WorkOrder: S1505225
CollectionDate: 5/14/2015 10:13:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1200	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1732	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1732	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1200	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1732	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1200	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1732	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1200	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1732	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 834	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1732	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1200	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1732	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1732	MS
Uranium	0.0869	mg/L		0.0003	EPA 200.8	05/15/2015 1732	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1732	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1200	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1936	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/19/2015 400	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 400	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/12/2015
Report ID S1505225001

ProjectName: ROSS MU1 ISR
Lab ID: S1505225-002
ClientSample ID: MU1 OZ1 Dup
COC: 152910

WorkOrder: S1505225
CollectionDate: 5/14/2015 10:13:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	230	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	14.0	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	94.4	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	7.6	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	20.1	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	1.3	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	20.3	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	41.2	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	0.8	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/08/2015 1105	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/08/2015 1105	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	5.1	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	35.8	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	2.4	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1256	MB
Radionuclides - Total							
Radon 222	84000	pCi/L		100	ASTM D5072-09	05/16/2015 2228	WN
Radon-222 Precision (±)	1660	pCi/L			ASTM D5072-09	05/16/2015 2228	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-005
ClientSample ID: MU1 OZ02
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 2:42:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.45	s.u.			Field	05/13/2015 1442	
Conductivity	1786	µmhos/cm			Field	05/13/2015 1442	
Dissolved Oxygen	3.00	mg/L			Field	05/13/2015 1442	
Turbidity	.19	NTU			Field	05/13/2015 1442	
Temperature	11.5	℃			Field	05/13/2015 1442	
Oxygen Reduction Potential (ORP)	+111	mV			Field	05/13/2015 1442	
Anions/Cations							
Alkalinity, Total (As CaCO3)	536	mg/L		5	SM 2320B	05/15/2015 1939	BT
Alkalinity, Bicarbonate as HCO3	599	mg/L		5	SM 2320B	05/15/2015 1939	BT
Alkalinity, Carbonate as CO3	27	mg/L		5	SM 2320B	05/15/2015 1939	BT
Chloride	6	mg/L		1	EPA 300.0	05/16/2015 055	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/15/2015 1939	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1327	AMB
Sulfate	560	mg/L		1	EPA 300.0	05/16/2015 055	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1145	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1145	DG
Potassium	5	mg/L		1	EPA 200.7	05/16/2015 1145	DG
Sodium	548	mg/L		1	EPA 200.7	05/16/2015 1145	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 849	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 1939	BT
Electrical Conductivity	2320	µmhos/cm		5	SM 2510B	05/15/2015 1939	BT
Total Dissolved Solids (180)	1470	mg/L		10	SM 2540	05/15/2015 1422	BT
Data Quality							
Cation Sum	24.49	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Anion Sum	22.56	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Cation-Anion Balance (± 5%)	4.11	%		0.01	SM 1030E	05/26/2015 1535	JJ
Solids, Total Dissolved (Calc)	1450	mg/L		10	SM 1030E	05/26/2015 1535	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-005
ClientSample ID: MU1 OZ02
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 2:42:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1145	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1721	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1721	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/16/2015 1145	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1721	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1145	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1721	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1145	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1721	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1000	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1721	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1145	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1721	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1721	MS
Uranium	0.0613	mg/L		0.0003	EPA 200.8	05/15/2015 1721	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1721	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1145	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1925	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 353	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 353	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-005
ClientSample ID: MU1 OZ02
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 2:42:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	124	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	8.9	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	33.9	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	3.9	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	2.0	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	10.5	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/06/2015 2015	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/06/2015 2015	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1243	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1243	MB
Radionuclides - Suspended							
Lead 210	2.0	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1256	MB
Radionuclides - Total							
Radon 222	12700	pCi/L		100	ASTM D5072-09	05/15/2015 1930	WN
Radon-222 Precision (±)	254	pCi/L			ASTM D5072-09	05/15/2015 1930	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-001
ClientSample ID: MU1-OZ3
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 10:33:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.91	s.u.			Field	05/14/2015 1033	
Conductivity	3145	µmhos/cm			Field	05/14/2015 1033	
Dissolved Oxygen	0.59	mg/L			Field	05/14/2015 1033	
Turbidity	3.38	NTU			Field	05/14/2015 1033	
Depth to Water	106.76	ft			Field	05/14/2015 1033	
Temperature	11.6	℃			Field	05/14/2015 1033	
Oxygen Reduction Potential (ORP)	-104.2	mV			Field	05/14/2015 1033	
Anions/Cations							
Alkalinity, Total (As CaCO3)	477	mg/L		5	SM 2320B	05/15/2015 1712	BT
Alkalinity, Bicarbonate as HCO3	526	mg/L		5	SM 2320B	05/15/2015 1712	BT
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	05/15/2015 1712	BT
Chloride	12	mg/L		1	EPA 300.0	05/15/2015 2055	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/15/2015 1712	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1413	AMB
Sulfate	1090	mg/L		1	EPA 300.0	05/15/2015 2055	AB
Calcium	9	mg/L		1	EPA 200.7	05/16/2015 1109	DG
Magnesium	5	mg/L		1	EPA 200.7	05/16/2015 1109	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1109	DG
Sodium	768	mg/L		1	EPA 200.7	05/16/2015 1109	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/21/2015 1305	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 1712	BT
Electrical Conductivity	3320	µmhos/cm		5	SM 2510B	05/15/2015 1712	BT
Total Dissolved Solids (180)	2270	mg/L		10	SM 2540	05/15/2015 1412	BT
Data Quality							
Cation Sum	34.51	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Anion Sum	32.53	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Cation-Anion Balance (± 5%)	2.95	%		0.01	SM 1030E	05/26/2015 1530	JJ
Solids, Total Dissolved (Calc)	2180	mg/L		10	SM 1030E	05/26/2015 1530	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-001
ClientSample ID: MU1-OZ3
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 10:33:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1109	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1555	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1555	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/16/2015 1109	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1555	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1109	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1555	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1109	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1555	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 929	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1555	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1109	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1555	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1555	MS
Uranium	0.0579	mg/L		0.0003	EPA 200.8	05/15/2015 1555	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1555	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1109	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1922	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/19/2015 319	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 319	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-001
ClientSample ID: MU1-OZ3
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 10:33:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	79.2	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	8.7	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	51.9	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	6.7	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	3.2	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/31/2015 1251	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/31/2015 1251	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1652	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1652	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	1.1	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1334	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1334	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	6040	pCi/L		100	ASTM D5072-09	05/16/2015 324	WN
Radon-222 Precision (±)	121	pCi/L			ASTM D5072-09	05/16/2015 324	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-001
ClientSample ID: MU1-OZ4
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 11:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	05/13/2015 1136	
Conductivity	1807	µmhos/cm			Field	05/13/2015 1136	
Dissolved Oxygen	0.20	mg/L			Field	05/13/2015 1136	
Turbidity	5.99	NTU			Field	05/13/2015 1136	
Depth to Water	95.04	ft			Field	05/13/2015 1136	
Temperature	11.3	℃			Field	05/13/2015 1136	
Oxygen Reduction Potential (ORP)	-219.2	mV			Field	05/13/2015 1136	
Anions/Cations							
Alkalinity, Total (As CaCO3)	540	mg/L		5	SM 2320B	05/16/2015 244	BT
Alkalinity, Bicarbonate as HCO3	582	mg/L		5	SM 2320B	05/16/2015 244	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/16/2015 244	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 1348	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 244	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1420	AMB
Sulfate	607	mg/L		1	EPA 300.0	05/15/2015 1348	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1332	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1332	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1332	DG
Sodium	567	mg/L		1	EPA 200.7	05/16/2015 1332	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 943	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 244	BT
Electrical Conductivity	2390	µmhos/cm		5	SM 2510B	05/16/2015 244	BT
Total Dissolved Solids (180)	1500	mg/L		10	SM 2540	05/15/2015 1450	BT
Data Quality							
Cation Sum	25.43	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	23.60	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	3.74	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1520	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-001
ClientSample ID: MU1-OZ4
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 11:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1332	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2103	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2103	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/16/2015 1332	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2103	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1332	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2103	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1332	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2103	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1121	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2103	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1332	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2103	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2103	MS
Uranium	0.109	mg/L		0.0003	EPA 200.8	05/15/2015 2103	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2103	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1332	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1821	MS
Metals - Total							
Iron	0.12	mg/L		0.05	EPA 200.7	05/19/2015 559	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 559	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-001
ClientSample ID: MU1-OZ4
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 11:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	114	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	10.5	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	23.6	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	6.4	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	1.3	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	2.0	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 2201	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 2201	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	3.4	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	3.0	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1522	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1522	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	22200	pCi/L		100	ASTM D5072-09	05/15/2015 1542	WN
Radon-222 Precision (±)	445	pCi/L			ASTM D5072-09	05/15/2015 1542	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-002
ClientSample ID: MU1-OZ4 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 11:41:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	541	mg/L		5	SM 2320B	05/16/2015 255	BT
Alkalinity, Bicarbonate as HCO3	583	mg/L		5	SM 2320B	05/16/2015 255	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/16/2015 255	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 1401	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 255	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1421	AMB
Sulfate	603	mg/L		1	EPA 300.0	05/15/2015 1401	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1334	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1334	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1334	DG
Sodium	569	mg/L		1	EPA 200.7	05/16/2015 1334	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 945	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 255	BT
Electrical Conductivity	2410	µmhos/cm		5	SM 2510B	05/16/2015 255	BT
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	05/20/2015 1040	AB
Data Quality							
Cation Sum	25.52	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	23.54	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	4.02	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1520	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-002
ClientSample ID: MU1-OZ4 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 11:41:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1334	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2109	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2109	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/16/2015 1334	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2109	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1334	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2109	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1334	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2109	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1123	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2109	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1334	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2109	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2109	MS
Uranium	0.106	mg/L		0.0003	EPA 200.8	05/15/2015 2109	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2109	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1334	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1826	MS
Metals - Total							
Iron	0.10	mg/L		0.05	EPA 200.7	05/19/2015 601	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 601	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-002
ClientSample ID: MU1-OZ4 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 11:41:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	143	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	11.4	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	34.0	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	6.6	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	1.4	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	1.1	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	2.0	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/02/2015 102	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/02/2015 102	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	3.5	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	2.5	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1522	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1522	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	21800	pCi/L		100	ASTM D5072-09	05/15/2015 1546	WN
Radon-222 Precision (±)	435	pCi/L			ASTM D5072-09	05/15/2015 1546	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-009
ClientSample ID: OZ-6
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 10:47:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.96	s.u.			Field	05/14/2015 2247	
Conductivity	3331	µmhos/cm			Field	05/14/2015 2247	
Dissolved Oxygen	0.34	mg/L			Field	05/14/2015 2247	
Turbidity	2.46	NTU			Field	05/14/2015 2247	
Depth to Water	96.51	ft			Field	05/14/2015 2247	
Temperature	11.5	℃			Field	05/14/2015 2247	
Oxygen Reduction Potential (ORP)	-215.6	mV			Field	05/14/2015 2247	
Anions/Cations							
Alkalinity, Total (As CaCO3)	421	mg/L		5	SM 2320B	05/16/2015 104	BT
Alkalinity, Bicarbonate as HCO3	412	mg/L		5	SM 2320B	05/16/2015 104	BT
Alkalinity, Carbonate as CO3	50	mg/L		5	SM 2320B	05/16/2015 104	BT
Chloride	15	mg/L		1	EPA 300.0	05/16/2015 804	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/16/2015 104	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1412	AMB
Sulfate	1240	mg/L		1	EPA 300.0	05/16/2015 804	AB
Calcium	6	mg/L		1	EPA 200.7	05/16/2015 1308	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1308	DG
Potassium	12	mg/L		1	EPA 200.7	05/16/2015 1308	DG
Sodium	824	mg/L		1	EPA 200.7	05/16/2015 1308	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/22/2015 929	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	05/16/2015 104	BT
Electrical Conductivity	3630	µmhos/cm		5	SM 2510B	05/16/2015 104	BT
Total Dissolved Solids (180)	2430	mg/L		10	SM 2540	05/15/2015 1444	BT
Data Quality							
Cation Sum	36.76	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	34.76	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	2.79	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	2360	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-009
ClientSample ID: OZ-6
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 10:47:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1308	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2025	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2025	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1308	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2025	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1308	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2025	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1308	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2025	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1102	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2025	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1308	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2025	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2025	MS
Uranium	0.221	mg/L		0.0003	EPA 200.8	05/15/2015 2025	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2025	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1308	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2052	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 537	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 537	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-009
ClientSample ID: OZ-6
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 10:47:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	206	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	15.5	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	87.7	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	8.4	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	9.5	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	7.7	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	40.7	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.8	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	1.7	pCi/L		1	Ga-Tech	06/07/2015 1423	MB
Radium 228 Precision (±)	1.3	pCi/L			Ga-Tech	06/07/2015 1423	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1647	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1647	MB
Radionuclides - Suspended							
Lead 210	5.2	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	1.2	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	13.6	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	1.4	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	86200	pCi/L		100	ASTM D5072-09	05/15/2015 2219	WN
Radon-222 Precision (±)	1720	pCi/L			ASTM D5072-09	05/15/2015 2219	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-002
ClientSample ID: OZ-7
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 11:49:00 AM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.39	s.u.			Field	05/15/2015 1149	
Conductivity	2943	µmhos/cm			Field	05/15/2015 1149	
Dissolved Oxygen	0.17	mg/L			Field	05/15/2015 1149	
Turbidity	3.00	NTU			Field	05/15/2015 1149	
Depth to Water	105.21	ft			Field	05/15/2015 1149	
Temperature	11.3	℃			Field	05/15/2015 1149	
Oxygen Reduction Potential (ORP)	-129.5	mV			Field	05/15/2015 1149	
Anions/Cations							
Alkalinity, Total (As CaCO3)	642	mg/L		5	SM 2320B	05/19/2015 2017	BT
Alkalinity, Bicarbonate as HCO3	677	mg/L		5	SM 2320B	05/19/2015 2017	BT
Alkalinity, Carbonate as CO3	52	mg/L		5	SM 2320B	05/19/2015 2017	BT
Chloride	12	mg/L		1	EPA 300.0	05/22/2015 1342	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	05/19/2015 2017	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1245	AMB
Sulfate	883	mg/L		1	EPA 300.0	05/22/2015 1342	AB
Calcium	11	mg/L		1	EPA 200.7	05/21/2015 1442	DG
Magnesium	4	mg/L		1	EPA 200.7	05/21/2015 1442	DG
Potassium	7	mg/L		1	EPA 200.7	05/18/2015 2108	DG
Sodium	697	mg/L		1	EPA 200.7	05/18/2015 2108	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/22/2015 826	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/19/2015 2017	BT
Electrical Conductivity	2790	µmhos/cm		5	SM 2510B	05/22/2015 255	BT
Total Dissolved Solids (180)	1970	mg/L		10	SM 2540	05/18/2015 1703	BT
Data Quality							
Cation Sum	31.44	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Anion Sum	31.61	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Cation-Anion Balance (± 5%)	0.27	%		0.01	SM 1030E	05/26/2015 1243	JJ
Solids, Total Dissolved (Calc)	2000	mg/L		10	SM 1030E	05/26/2015 1243	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-002
ClientSample ID: OZ-7
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 11:49:00 AM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2108	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/19/2015 041	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 041	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/18/2015 2108	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 041	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2108	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 041	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2108	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 041	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 925	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 041	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2108	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 041	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 041	MS
Uranium	0.159	mg/L		0.0003	EPA 200.8	05/19/2015 041	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 041	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2108	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 2033	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2325	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2325	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-002
ClientSample ID: OZ-7
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 11:49:00 AM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	388	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	18.9	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	141	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	9.3	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	8.5	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	10.4	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	1.2	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	88.4	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	1.3	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 1258	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 1258	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	12.5	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	4.1	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 851	MB
Radionuclides - Total							
Radon 222	117000	pCi/L		100	ASTM D5072-09	05/18/2015 2028	WN
Radon-222 Precision (±)	2250	pCi/L			ASTM D5072-09	05/18/2015 2028	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-002
ClientSample ID: MU1-OZ8
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 12:15:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.51	s.u.			Field	05/15/2015 1215	
Conductivity	2085	µmhos/cm			Field	05/15/2015 1215	
Dissolved Oxygen	0.37	mg/L			Field	05/15/2015 1215	
Turbidity	20.3	NTU			Field	05/15/2015 1215	
Depth to Water	112.71	ft			Field	05/15/2015 1215	
Temperature	11.3	℃			Field	05/15/2015 1215	
Oxygen Reduction Potential (ORP)	-208.5	mV			Field	05/15/2015 1215	
Anions/Cations							
Alkalinity, Total (As CaCO3)	552	mg/L		5	SM 2320B	05/19/2015 1740	BT
Alkalinity, Bicarbonate as HCO3	603	mg/L		5	SM 2320B	05/19/2015 1740	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	05/19/2015 1740	BT
Chloride	5	mg/L		1	EPA 300.0	05/19/2015 1701	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/19/2015 1740	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1222	AMB
Sulfate	531	mg/L		1	EPA 300.0	05/19/2015 1701	AB
Calcium	5	mg/L		1	EPA 200.7	05/18/2015 2031	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 2031	DG
Potassium	5	mg/L		1	EPA 200.7	05/18/2015 2031	DG
Sodium	535	mg/L		1	EPA 200.7	05/18/2015 2031	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/21/2015 1521	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/19/2015 1740	BT
Electrical Conductivity	2160	µmhos/cm		5	SM 2510B	05/19/2015 1740	BT
Total Dissolved Solids (180)	1440	mg/L		10	SM 2540	05/18/2015 1652	BT
Data Quality							
Cation Sum	23.87	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Anion Sum	22.24	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Cation-Anion Balance (± 5%)	3.53	%		0.01	SM 1030E	05/26/2015 1622	JJ
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	05/26/2015 1622	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-002
ClientSample ID: MU1-OZ8
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 12:15:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2031	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2309	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2309	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/18/2015 2031	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2309	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2031	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2309	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2031	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2309	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 848	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2309	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2031	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2309	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2309	MS
Uranium	0.163	mg/L		0.0003	EPA 200.8	05/18/2015 2309	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2309	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2031	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2042	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2242	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2242	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-002
ClientSample ID: MU1-OZ8
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 12:15:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	182	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	12.8	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	50.9	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	7.4	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	6.6	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	3.5	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	11.9	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/10/2015 2200	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/10/2015 2200	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	6.3	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	26.1	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	2.4	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 813	MB
Radionuclides - Total							
Radon 222	45900	pCi/L		100	ASTM D5072-09	05/17/2015 1604	WN
Radon-222 Precision (±)	917	pCi/L			ASTM D5072-09	05/17/2015 1604	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-003
ClientSample ID: MU1-OZ9
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 1:41:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.86	s.u.			Field	05/13/2015 1341	
Conductivity	1787	µmhos/cm			Field	05/13/2015 1341	
Dissolved Oxygen	0.33	mg/L			Field	05/13/2015 1341	
Turbidity	11.0	NTU			Field	05/13/2015 1341	
Depth to Water	95.75	ft			Field	05/13/2015 1341	
Temperature	11.3	℃			Field	05/13/2015 1341	
Oxygen Reduction Potential (ORP)	-222.4	mV			Field	05/13/2015 1341	
Anions/Cations							
Alkalinity, Total (As CaCO3)	554	mg/L		5	SM 2320B	05/16/2015 307	BT
Alkalinity, Bicarbonate as HCO3	547	mg/L		5	SM 2320B	05/16/2015 307	BT
Alkalinity, Carbonate as CO3	63	mg/L		5	SM 2320B	05/16/2015 307	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 1415	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 307	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1423	AMB
Sulfate	575	mg/L		1	EPA 300.0	05/15/2015 1415	AB
Calcium	4	mg/L		1	EPA 200.7	05/16/2015 1337	DG
Magnesium	1	mg/L		1	EPA 200.7	05/16/2015 1337	DG
Potassium	11	mg/L		1	EPA 200.7	05/16/2015 1337	DG
Sodium	556	mg/L		1	EPA 200.7	05/16/2015 1337	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 946	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	05/16/2015 307	BT
Electrical Conductivity	2380	µmhos/cm		5	SM 2510B	05/16/2015 307	BT
Total Dissolved Solids (180)	1460	mg/L		10	SM 2540	05/15/2015 1452	BT
Data Quality							
Cation Sum	24.80	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	23.19	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	3.36	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1480	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-003
ClientSample ID: MU1-OZ9
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 1:41:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1337	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2114	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2114	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1337	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2114	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1337	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2114	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1337	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2114	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1125	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2114	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1337	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2114	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2114	MS
Uranium	0.0797	mg/L		0.0003	EPA 200.8	05/15/2015 2114	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2114	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1337	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1832	MS
Metals - Total							
Iron	0.16	mg/L		0.05	EPA 200.7	05/19/2015 604	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 604	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-003
ClientSample ID: MU1-OZ9
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 1:41:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	145	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	11.4	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	61.7	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	7.7	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	9.4	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	16.0	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	1.5	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	20.4	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/02/2015 403	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/02/2015 403	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	10.1	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	23.3	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	1.8	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1522	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1522	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	95200	pCi/L		100	ASTM D5072-09	05/15/2015 1547	WN
Radon-222 Precision (±)	1890	pCi/L			ASTM D5072-09	05/15/2015 1547	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-004
ClientSample ID: MU1-OZ9 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 1:45:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	545	mg/L		5	SM 2320B	05/16/2015 319	BT
Alkalinity, Bicarbonate as HCO3	534	mg/L		5	SM 2320B	05/16/2015 319	BT
Alkalinity, Carbonate as CO3	64	mg/L		5	SM 2320B	05/16/2015 319	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 1429	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 319	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1424	AMB
Sulfate	587	mg/L		1	EPA 300.0	05/15/2015 1429	AB
Calcium	4	mg/L		1	EPA 200.7	05/16/2015 1341	DG
Magnesium	1	mg/L		1	EPA 200.7	05/16/2015 1341	DG
Potassium	11	mg/L		1	EPA 200.7	05/16/2015 1341	DG
Sodium	550	mg/L		1	EPA 200.7	05/16/2015 1341	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 947	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	05/16/2015 319	BT
Electrical Conductivity	2390	µmhos/cm		5	SM 2510B	05/16/2015 319	BT
Total Dissolved Solids (180)	1460	mg/L		10	SM 2540	05/15/2015 1453	BT
Data Quality							
Cation Sum	24.55	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	23.26	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	2.70	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1480	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-004
ClientSample ID: MU1-OZ9 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 1:45:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1341	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2120	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2120	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1341	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2120	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1341	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2120	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1341	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2120	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1127	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2120	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1341	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2120	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2120	MS
Uranium	0.0823	mg/L		0.0003	EPA 200.8	05/15/2015 2120	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2120	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1341	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1904	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 606	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 606	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-004
ClientSample ID: MU1-OZ9 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 1:45:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	145	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	10.9	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	59.9	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	6.7	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	10.8	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	10.8	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	1.2	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	21.0	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/02/2015 704	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/02/2015 704	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	8.8	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	24.2	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	1.9	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	93800	pCi/L		100	ASTM D5072-09	05/15/2015 1549	WN
Radon-222 Precision (±)	1870	pCi/L			ASTM D5072-09	05/15/2015 1549	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-001
ClientSample ID: MU1-OZ10
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 10:39:00 AM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.86	s.u.			Field	05/14/2015 1039	
Conductivity	2553	µmhos/cm			Field	05/14/2015 1039	
Dissolved Oxygen	0.78	mg/L			Field	05/14/2015 1039	
Turbidity	0.79	NTU			Field	05/14/2015 1039	
Depth to Water	96.73	ft			Field	05/14/2015 1039	
Temperature	11.69	℃			Field	05/14/2015 1039	
Oxygen Reduction Potential (ORP)	-217.8	mV			Field	05/14/2015 1039	
Anions/Cations							
Alkalinity, Total (As CaCO3)	527	mg/L		5	SM 2320B	05/19/2015 1351	BT
Alkalinity, Bicarbonate as HCO3	568	mg/L		5	SM 2320B	05/19/2015 1351	BT
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	05/19/2015 1351	BT
Chloride	8	mg/L		1	EPA 300.0	05/19/2015 1257	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/19/2015 1351	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1453	AMB
Sulfate	740	mg/L		1	EPA 300.0	05/19/2015 1257	AB
Calcium	6	mg/L		1	EPA 200.7	05/18/2015 1917	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 1917	DG
Potassium	9	mg/L		1	EPA 200.7	05/18/2015 1917	DG
Sodium	634	mg/L		1	EPA 200.7	05/18/2015 1917	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/21/2015 1323	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/19/2015 1351	BT
Electrical Conductivity	2640	µmhos/cm		5	SM 2510B	05/19/2015 1351	BT
Total Dissolved Solids (180)	1840	mg/L		10	SM 2540	05/18/2015 1635	BT
Data Quality							
Cation Sum	28.30	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Anion Sum	26.18	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Cation-Anion Balance (± 5%)	3.88	%		0.01	SM 1030E	05/26/2015 1556	JJ
Solids, Total Dissolved (Calc)	1710	mg/L		10	SM 1030E	05/26/2015 1556	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-001
ClientSample ID: MU1-OZ10
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 10:39:00 AM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1917	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2043	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2043	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/18/2015 1917	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2043	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1917	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2043	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1917	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2043	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1342	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2043	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1917	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2043	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2043	MS
Uranium	0.0303	mg/L		0.0003	EPA 200.8	05/18/2015 2043	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2043	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1917	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1536	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2148	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2148	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-001
ClientSample ID: MU1-OZ10
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 10:39:00 AM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	45.9	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	6.5	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	41.0	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 1115	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 1115	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1354	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1354	MB
Radionuclides - Suspended							
Lead 210	1.7	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/06/2015 1325	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/06/2015 1325	MB
Radionuclides - Total							
Radon 222	3350	pCi/L		100	ASTM D5072-09	05/17/2015 758	WN
Radon-222 Precision (±)	67.1	pCi/L			ASTM D5072-09	05/17/2015 758	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505227001

ProjectName: Ross MU1 ISR
Lab ID: S1505227-001
ClientSample ID: MU1 OZ11
COC: 152921

WorkOrder: S1505227
CollectionDate: 5/13/2015 10:20:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.51	s.u.			Field	05/13/2015 1020	
Conductivity	2139	µmhos/cm			Field	05/13/2015 1020	
Dissolved Oxygen	7.52	mg/L			Field	05/13/2015 1020	
Turbidity	0.27	NTU			Field	05/13/2015 1020	
Temperature	12.1	℃			Field	05/13/2015 1020	
Oxygen Reduction Potential (ORP)	+61	mV			Field	05/13/2015 1020	
Anions/Cations							
Alkalinity, Total (As CaCO3)	566	mg/L		5	SM 2320B	05/15/2015 2222	BT
Alkalinity, Bicarbonate as HCO3	626	mg/L		5	SM 2320B	05/15/2015 2222	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/15/2015 2222	BT
Chloride	10	mg/L		1	EPA 300.0	05/16/2015 109	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/15/2015 2222	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1429	AMB
Sulfate	773	mg/L		1	EPA 300.0	05/16/2015 109	AB
Calcium	9	mg/L		1	EPA 200.7	05/16/2015 1232	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1232	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1232	DG
Sodium	659	mg/L		1	EPA 200.7	05/16/2015 1232	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/21/2015 1320	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 2222	BT
Electrical Conductivity	2810	µmhos/cm		5	SM 2510B	05/15/2015 2222	BT
Total Dissolved Solids (180)	1820	mg/L		10	SM 2540	05/15/2015 1433	BT
Data Quality							
Cation Sum	29.50	meq/L		0.01	SM 1030E	05/26/2015 1551	JJ
Anion Sum	27.72	meq/L		0.01	SM 1030E	05/26/2015 1551	JJ
Cation-Anion Balance (± 5%)	3.11	%		0.01	SM 1030E	05/26/2015 1551	JJ
Solids, Total Dissolved (Calc)	1800	mg/L		10	SM 1030E	05/26/2015 1551	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505227001

ProjectName: Ross MU1 ISR
Lab ID: S1505227-001
ClientSample ID: MU1 OZ11
COC: 152921

WorkOrder: S1505227
CollectionDate: 5/13/2015 10:20:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1232	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1853	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1853	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1232	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1853	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1232	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1853	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1232	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1853	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1029	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1853	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1232	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1853	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1853	MS
Uranium	0.0753	mg/L		0.0003	EPA 200.8	05/15/2015 1853	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1853	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1232	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1950	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 459	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 459	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505227001

ProjectName: Ross MU1 ISR
Lab ID: S1505227-001
ClientSample ID: MU1 OZ11
COC: 152921

WorkOrder: S1505227
CollectionDate: 5/13/2015 10:20:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	112	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	10.3	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	34.1	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	6.8	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	3.0	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	9.2	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	7.3	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 355	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 355	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	5.3	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	16700	pCi/L		100	ASTM D5072-09	05/15/2015 1520	WN
Radon-222 Precision (±)	334	pCi/L			ASTM D5072-09	05/15/2015 1520	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-002
ClientSample ID: MU1-OZ12
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 1:06:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	05/14/2015 1306	
Conductivity	2496	µmhos/cm			Field	05/14/2015 1306	
Dissolved Oxygen	0.52	mg/L			Field	05/14/2015 1306	
Turbidity	0.41	NTU			Field	05/14/2015 1306	
Depth to Water	88.79	ft			Field	05/14/2015 1306	
Temperature	11.79	℃			Field	05/14/2015 1306	
Oxygen Reduction Potential (ORP)	-190.7	mV			Field	05/14/2015 1306	
Anions/Cations							
Alkalinity, Total (As CaCO3)	513	mg/L		5	SM 2320B	05/19/2015 1403	BT
Alkalinity, Bicarbonate as HCO3	563	mg/L		5	SM 2320B	05/19/2015 1403	BT
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	05/19/2015 1403	BT
Chloride	10	mg/L		1	EPA 300.0	05/19/2015 1310	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/19/2015 1403	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1455	AMB
Sulfate	808	mg/L		1	EPA 300.0	05/19/2015 1310	AB
Calcium	9	mg/L		1	EPA 200.7	05/18/2015 1931	DG
Magnesium	3	mg/L		1	EPA 200.7	05/18/2015 1931	DG
Potassium	7	mg/L		1	EPA 200.7	05/18/2015 1931	DG
Sodium	665	mg/L		1	EPA 200.7	05/18/2015 1931	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/21/2015 1324	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/19/2015 1403	BT
Electrical Conductivity	2740	µmhos/cm		5	SM 2510B	05/19/2015 1403	BT
Total Dissolved Solids (180)	1930	mg/L		10	SM 2540	05/18/2015 1636	BT
Data Quality							
Cation Sum	29.86	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Anion Sum	27.39	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Cation-Anion Balance (± 5%)	4.31	%		0.01	SM 1030E	05/26/2015 1556	JJ
Solids, Total Dissolved (Calc)	1810	mg/L		10	SM 1030E	05/26/2015 1556	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-002
ClientSample ID: MU1-OZ12
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 1:06:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1931	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2104	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2104	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/18/2015 1931	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2104	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1931	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2104	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1931	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2104	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1350	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2104	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1931	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2104	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2104	MS
Uranium	0.0016	mg/L		0.0003	EPA 200.8	05/18/2015 2104	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2104	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1931	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1541	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2150	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2150	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-002
ClientSample ID: MU1-OZ12
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 1:06:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.6	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	2.4	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 1316	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 1316	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1354	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1354	MB
Radionuclides - Suspended							
Lead 210	1.3	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/06/2015 1325	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/06/2015 1325	MB
Radionuclides - Total							
Radon 222	2460	pCi/L		100	ASTM D5072-09	05/17/2015 834	WN
Radon-222 Precision (±)	49.2	pCi/L			ASTM D5072-09	05/17/2015 834	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-003
ClientSample ID: MU1-OZ13
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 2:48:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.24	s.u.			Field	05/14/2015 1448	
Conductivity	3142	µmhos/cm			Field	05/14/2015 1448	
Dissolved Oxygen	0.77	mg/L			Field	05/14/2015 1448	
Turbidity	1.01	NTU			Field	05/14/2015 1448	
Depth to Water	85.86	ft			Field	05/14/2015 1448	
Temperature	11.59	℃			Field	05/14/2015 1448	
Oxygen Reduction Potential (ORP)	-32.4	mV			Field	05/14/2015 1448	
Anions/Cations							
Alkalinity, Total (As CaCO3)	494	mg/L		5	SM 2320B	05/19/2015 1414	BT
Alkalinity, Bicarbonate as HCO3	479	mg/L		5	SM 2320B	05/19/2015 1414	BT
Alkalinity, Carbonate as CO3	61	mg/L		5	SM 2320B	05/19/2015 1414	BT
Chloride	12	mg/L		1	EPA 300.0	05/19/2015 1324	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/19/2015 1414	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1456	AMB
Sulfate	1080	mg/L		1	EPA 300.0	05/19/2015 1324	AB
Calcium	6	mg/L		1	EPA 200.7	05/18/2015 1933	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 1933	DG
Potassium	16	mg/L		1	EPA 200.7	05/18/2015 1933	DG
Sodium	781	mg/L		1	EPA 200.7	05/18/2015 1933	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/21/2015 1325	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	05/19/2015 1414	BT
Electrical Conductivity	3290	µmhos/cm		5	SM 2510B	05/19/2015 1414	BT
Total Dissolved Solids (180)	2320	mg/L		10	SM 2540	05/18/2015 1637	BT
Data Quality							
Cation Sum	34.88	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Anion Sum	32.76	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Cation-Anion Balance (± 5%)	3.13	%		0.01	SM 1030E	05/26/2015 1556	JJ
Solids, Total Dissolved (Calc)	2200	mg/L		10	SM 1030E	05/26/2015 1556	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-003
ClientSample ID: MU1-OZ13
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 2:48:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1933	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2120	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2120	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/18/2015 1933	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2120	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1933	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2120	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1933	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2120	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1352	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2120	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1933	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2120	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2120	MS
Uranium	0.0747	mg/L		0.0003	EPA 200.8	05/18/2015 2120	MS
Vanadium	0.03	mg/L		0.02	EPA 200.8	05/18/2015 2120	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1933	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1547	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2152	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2152	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-003
ClientSample ID: MU1-OZ13
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 2:48:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	135	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	12.1	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	52.6	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	7.5	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	5.2	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	26.0	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 1517	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 1517	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1354	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1354	MB
Radionuclides - Suspended							
Lead 210	7.5	pCi/L		1	OTW01	06/10/2015 1811	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/10/2015 1811	MB
Polonium 210	2.8	pCi/L		1	OTW01	06/12/2015 1613	MB
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/12/2015 1613	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/06/2015 1325	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/06/2015 1325	MB
Radionuclides - Total							
Radon 222	51300	pCi/L		100	ASTM D5072-09	05/17/2015 836	WN
Radon-222 Precision (±)	1020	pCi/L			ASTM D5072-09	05/17/2015 836	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505266001

ProjectName: Ross MU1 ISR
Lab ID: S1505266-002
ClientSample ID: MU1 OZ14
COC: 152883

WorkOrder: S1505266
CollectionDate: 5/15/2015 3:42:00 PM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.66	s.u.			Field	05/15/2015 1542	
Conductivity	1833	µmhos/cm			Field	05/15/2015 1542	
Dissolved Oxygen	2.45	mg/L			Field	05/15/2015 1542	
Turbidity	3.31	NTU			Field	05/15/2015 1542	
Temperature	12.0	℃			Field	05/15/2015 1542	
Oxygen Reduction Potential (ORP)	+202	mV			Field	05/15/2015 1542	
Anions/Cations							
Alkalinity, Total (As CaCO3)	603	mg/L		5	SM 2320B	05/19/2015 1855	BT
Alkalinity, Bicarbonate as HCO3	430	mg/L		5	SM 2320B	05/19/2015 1855	BT
Alkalinity, Carbonate as CO3	150	mg/L		5	SM 2320B	05/19/2015 1855	BT
Chloride	5	mg/L		1	EPA 300.0	05/19/2015 1522	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/19/2015 1855	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1237	AMB
Sulfate	544	mg/L		1	EPA 300.0	05/19/2015 1522	AB
Calcium	6	mg/L		1	EPA 200.7	05/18/2015 2042	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 2042	DG
Potassium	6	mg/L		1	EPA 200.7	05/18/2015 2042	DG
Sodium	550	mg/L		1	EPA 200.7	05/18/2015 2042	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 819	AMB
General Parameters							
pH	9.7	s.u.		0.1	SM 4500 H B	05/19/2015 1855	BT
Electrical Conductivity	2120	µmhos/cm		5	SM 2510B	05/19/2015 1855	BT
Total Dissolved Solids (180)	1500	mg/L		10	SM 2540	05/18/2015 1657	BT
Data Quality							
Cation Sum	24.58	meq/L		0.01	SM 1030E	06/18/2015 1647	JJ
Anion Sum	23.55	meq/L		0.01	SM 1030E	06/18/2015 1647	JJ
Cation-Anion Balance (± 5%)	2.13	%		0.01	SM 1030E	06/18/2015 1647	JJ
Solids, Total Dissolved (Calc)	1480	mg/L		10	SM 1030E	06/18/2015 1647	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505266001

ProjectName: Ross MU1 ISR
Lab ID: S1505266-002
ClientSample ID: MU1 OZ14
COC: 152883

WorkOrder: S1505266
CollectionDate: 5/15/2015 3:42:00 PM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2042	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/19/2015 002	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 002	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/18/2015 2042	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 002	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2042	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 002	MS
Iron	0.06	mg/L		0.05	EPA 200.7	05/18/2015 2042	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 002	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 914	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 002	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2042	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 002	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 002	MS
Uranium	0.0657	mg/L		0.0003	EPA 200.8	05/19/2015 002	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 002	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2042	DG
Metals - Suspended							
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/27/2015 2103	MS
Metals - Total							
Iron	0.36	mg/L		0.05	EPA 200.7	05/19/2015 2312	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2312	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505266001

ProjectName: Ross MU1 ISR
Lab ID: S1505266-002
ClientSample ID: MU1 OZ14
COC: 152883

WorkOrder: S1505266
CollectionDate: 5/15/2015 3:42:00 PM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	84.2	pCi/L		2	SM 7110B	05/28/2015 1604	MB
Gross Alpha Precision (±)	7.6	pCi/L			SM 7110B	05/28/2015 1604	MB
Gross Beta	16.3	pCi/L		3	SM 7110B	05/28/2015 1604	MB
Gross Beta Precision (±)	3.4	pCi/L			SM 7110B	05/28/2015 1604	MB
Lead 210	1.9	pCi/L		1	OTW01	06/10/2015 1811	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/10/2015 1811	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1613	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1613	MB
Radium 226	4.1	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/05/2015 1704	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/05/2015 1704	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 2216	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 2216	MB
Radionuclides - Suspended							
Lead 210	3.6	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	0.4	pCi/L		0.2	ACW10	06/09/2015 1310	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	06/09/2015 1310	MB
Radionuclides - Total							
Radon 222	12300	pCi/L		100	ASTM D5072-09	05/18/2015 1741	WN
Radon-222 Precision (±)	245	pCi/L			ASTM D5072-09	05/18/2015 1741	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-011
ClientSample ID: MU1-OZ15
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 10:37:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.78	s.u.			Field	05/14/2015 1037	
Conductivity	2469	µmhos/cm			Field	05/14/2015 1037	
Dissolved Oxygen	0.16	mg/L			Field	05/14/2015 1037	
Turbidity	0.40	NTU			Field	05/14/2015 1037	
Depth to Water	125.20	ft			Field	05/14/2015 1037	
Temperature	11.7	℃			Field	05/14/2015 1037	
Oxygen Reduction Potential (ORP)	-46	mV			Field	05/14/2015 1037	
Anions/Cations							
Alkalinity, Total (As CaCO3)	518	mg/L		5	SM 2320B	05/16/2015 522	BT
Alkalinity, Bicarbonate as HCO3	543	mg/L		5	SM 2320B	05/16/2015 522	BT
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	05/16/2015 522	BT
Chloride	7	mg/L		1	EPA 300.0	05/15/2015 1741	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 522	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1444	AMB
Sulfate	750	mg/L		1	EPA 300.0	05/15/2015 1741	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1410	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1410	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1410	DG
Sodium	635	mg/L		1	EPA 200.7	05/16/2015 1410	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 1059	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/16/2015 522	BT
Electrical Conductivity	2740	µmhos/cm		5	SM 2510B	05/16/2015 522	BT
Total Dissolved Solids (180)	1720	mg/L		10	SM 2540	05/15/2015 1501	BT
Data Quality							
Cation Sum	28.40	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	26.17	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	4.08	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1720	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-011
ClientSample ID: MU1-OZ15
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 10:37:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1410	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2224	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2224	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1410	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2224	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1410	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2224	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1410	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2224	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1154	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2224	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1410	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2224	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2224	MS
Uranium	0.164	mg/L		0.0003	EPA 200.8	05/15/2015 2224	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2224	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1410	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1953	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 658	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 658	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-011
ClientSample ID: MU1-OZ15
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 10:37:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	717	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	25.6	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	385	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	14.4	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	35.5	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	14.2	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	1.4	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	194	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	1.7	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 152	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 152	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 2200	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 2200	MB
Radionuclides - Suspended							
Lead 210	11.4	pCi/L		1	OTW01	06/03/2015 1540	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/03/2015 1540	MB
Polonium 210	21.6	pCi/L		1	OTW01	06/02/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	1.7	pCi/L			OTW01	06/02/2015 1618	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1748	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1748	MB
Radionuclides - Total							
Radon 222	203000	pCi/L		100	ASTM D5072-09	05/17/2015 304	WN
Radon-222 Precision (±)	4040	pCi/L			ASTM D5072-09	05/17/2015 304	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-001
ClientSample ID: MU1-OZ16
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 11:38:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.2	s.u.			Field	05/13/2015 1138	
Conductivity	1889	µmhos/cm			Field	05/13/2015 1138	
Dissolved Oxygen	0.61	mg/L			Field	05/13/2015 1138	
Turbidity	0.36	NTU			Field	05/13/2015 1138	
Depth to Water	124.19	ft			Field	05/13/2015 1138	
Temperature	11.4	℃			Field	05/13/2015 1138	
Oxygen Reduction Potential (ORP)	-158.5	mV			Field	05/13/2015 1138	
Anions/Cations							
Alkalinity, Total (As CaCO3)	485	mg/L		5	SM 2320B	05/20/2015 1907	BT
Alkalinity, Bicarbonate as HCO3	425	mg/L		5	SM 2320B	05/20/2015 1907	BT
Alkalinity, Carbonate as CO3	82	mg/L		5	SM 2320B	05/20/2015 1907	BT
Chloride	6	mg/L		1	EPA 300.0	05/24/2015 440	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/18/2015 1202	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1508	AMB
Sulfate	661	mg/L		1	EPA 300.0	05/26/2015 1219	AB
Calcium	4	mg/L		1	EPA 200.7	05/27/2015 1228	DG
Magnesium	1	mg/L		1	EPA 200.7	05/27/2015 1228	DG
Potassium	7	mg/L		1	EPA 200.7	05/27/2015 1228	DG
Sodium	545	mg/L		1	EPA 200.7	05/27/2015 1228	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 1121	AMB
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	05/20/2015 1907	BT
Electrical Conductivity	2240	µmhos/cm		5	SM 2510B	05/18/2015 1202	BT
Total Dissolved Solids (180)	1460	mg/L		10	SM 2540	05/15/2015 1512	BT
Data Quality							
Cation Sum	24.21	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Anion Sum	23.65	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Cation-Anion Balance (± 5%)	1.15	%		0.01	SM 1030E	05/28/2015 1457	JJ
Solids, Total Dissolved (Calc)	1520	mg/L		10	SM 1030E	05/28/2015 1457	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-001
ClientSample ID: MU1-OZ16
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 11:38:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1312	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2356	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2356	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/18/2015 1312	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2356	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1312	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2356	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1312	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2356	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1223	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2356	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1312	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2356	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2356	MS
Uranium	0.136	mg/L		0.0003	EPA 200.8	05/15/2015 2356	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2356	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1312	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1436	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2031	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2031	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-001
ClientSample ID: MU1-OZ16
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 11:38:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	171	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	10.4	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	36.7	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	4.1	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	7.7	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	3.4	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	6.4	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/08/2015 1306	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/08/2015 1306	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	2.2	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	5.8	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	33000	pCi/L		100	ASTM D5072-09	05/16/2015 045	WN
Radon-222 Precision (±)	660	pCi/L			ASTM D5072-09	05/16/2015 045	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-002
ClientSample ID: MU1-OZ16 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 11:43:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	487	mg/L		5	SM 2320B	05/20/2015 1924	BT
Alkalinity, Bicarbonate as HCO3	426	mg/L		5	SM 2320B	05/20/2015 1924	BT
Alkalinity, Carbonate as CO3	83	mg/L		5	SM 2320B	05/20/2015 1924	BT
Chloride	6	mg/L		1	EPA 300.0	05/24/2015 508	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/18/2015 1213	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1509	AMB
Sulfate	651	mg/L		1	EPA 300.0	05/26/2015 1233	AB
Calcium	4	mg/L		1	EPA 200.7	05/21/2015 1453	DG
Magnesium	1	mg/L		1	EPA 200.7	05/21/2015 1453	DG
Potassium	7	mg/L		1	EPA 200.7	05/18/2015 1314	DG
Sodium	551	mg/L		1	EPA 200.7	05/21/2015 1453	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 1122	AMB
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	05/20/2015 1924	BT
Electrical Conductivity	2250	µmhos/cm		5	SM 2510B	05/18/2015 1213	BT
Total Dissolved Solids (180)	1450	mg/L		10	SM 2540	05/15/2015 1513	BT
Data Quality							
Cation Sum	24.45	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Anion Sum	23.48	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Cation-Anion Balance (± 5%)	2.02	%		0.01	SM 1030E	05/28/2015 1457	JJ
Solids, Total Dissolved (Calc)	1510	mg/L		10	SM 1030E	05/28/2015 1457	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-002
ClientSample ID: MU1-OZ16 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 11:43:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1314	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/16/2015 001	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/16/2015 001	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/18/2015 1314	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/16/2015 001	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1314	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/16/2015 001	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1314	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/16/2015 001	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1225	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/16/2015 001	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1314	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/16/2015 001	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/16/2015 001	MS
Uranium	0.137	mg/L		0.0003	EPA 200.8	05/16/2015 001	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/16/2015 001	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1314	DG
Metals - Suspended							
Uranium	0.0009	mg/L		0.0003	EPA 200.8	05/26/2015 1442	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2034	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2034	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-002
ClientSample ID: MU1-OZ16 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 11:43:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	145	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	11.0	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	42.9	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	7.8	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	3.8	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	6.2	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/08/2015 1507	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/08/2015 1507	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	2.4	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	5.7	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	34300	pCi/L		100	ASTM D5072-09	05/16/2015 048	WN
Radon-222 Precision (±)	685	pCi/L			ASTM D5072-09	05/16/2015 048	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-003
ClientSample ID: OZ-17
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 2:18:00 PM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.51	s.u.			Field	05/15/2015 1418	
Conductivity	2455	µmhos/cm			Field	05/15/2015 1418	
Dissolved Oxygen	0.19	mg/L			Field	05/15/2015 1418	
Turbidity	0.66	NTU			Field	05/15/2015 1418	
Depth to Water	116.51	ft			Field	05/15/2015 1418	
Temperature	11.1	℃			Field	05/15/2015 1418	
Oxygen Reduction Potential (ORP)	-201.0	mV			Field	05/15/2015 1418	
Anions/Cations							
Alkalinity, Total (As CaCO3)	571	mg/L		5	SM 2320B	05/22/2015 306	BT
Alkalinity, Bicarbonate as HCO3	610	mg/L		5	SM 2320B	05/22/2015 306	BT
Alkalinity, Carbonate as CO3	43	mg/L		5	SM 2320B	05/22/2015 306	BT
Chloride	6	mg/L		1	EPA 300.0	05/22/2015 1356	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/19/2015 2030	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1247	AMB
Sulfate	626	mg/L		1	EPA 300.0	05/22/2015 1356	AB
Calcium	6	mg/L		1	EPA 200.7	05/21/2015 1444	DG
Magnesium	2	mg/L		1	EPA 200.7	05/21/2015 1444	DG
Potassium	6	mg/L		1	EPA 200.7	05/18/2015 2110	DG
Sodium	583	mg/L		1	EPA 200.7	05/21/2015 1444	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/22/2015 827	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/22/2015 306	BT
Electrical Conductivity	2350	µmhos/cm		5	SM 2510B	05/22/2015 306	BT
Total Dissolved Solids (180)	1580	mg/L		10	SM 2540	05/18/2015 1704	BT
Data Quality							
Cation Sum	26.04	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Anion Sum	24.61	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Cation-Anion Balance (± 5%)	2.83	%		0.01	SM 1030E	05/26/2015 1243	JJ
Solids, Total Dissolved (Calc)	1570	mg/L		10	SM 1030E	05/26/2015 1243	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-003
ClientSample ID: OZ-17
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 2:18:00 PM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2110	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/19/2015 046	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 046	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/18/2015 2110	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 046	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2110	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 046	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2110	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 046	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 927	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 046	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2110	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 046	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 046	MS
Uranium	0.220	mg/L		0.0003	EPA 200.8	05/19/2015 046	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 046	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2110	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 2038	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2332	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2332	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-003
ClientSample ID: OZ-17
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 2:18:00 PM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	420	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	18.5	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	157	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	9.5	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	18.3	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	1.2	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	37.2	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	2.4	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	60.3	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	1.1	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 1559	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 1559	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	4.4	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	5.8	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 851	MB
Radionuclides - Total							
Radon 222	113000	pCi/L		100	ASTM D5072-09	05/18/2015 2030	WN
Radon-222 Precision (±)	2220	pCi/L			ASTM D5072-09	05/18/2015 2030	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-002
ClientSample ID: MU1-OZ18
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 12:36:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	05/14/2015 1236	
Conductivity	2357	µmhos/cm			Field	05/14/2015 1236	
Dissolved Oxygen	0.43	mg/L			Field	05/14/2015 1236	
Turbidity	0.77	NTU			Field	05/14/2015 1236	
Depth to Water	94.30	ft			Field	05/14/2015 1236	
Temperature	11.1	℃			Field	05/14/2015 1236	
Oxygen Reduction Potential (ORP)	-205.4	mV			Field	05/14/2015 1236	
Anions/Cations							
Alkalinity, Total (As CaCO3)	568	mg/L		5	SM 2320B	05/15/2015 1724	BT
Alkalinity, Bicarbonate as HCO3	621	mg/L		5	SM 2320B	05/15/2015 1724	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	05/15/2015 1724	BT
Chloride	6	mg/L		1	EPA 300.0	05/15/2015 2109	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/15/2015 1724	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1414	AMB
Sulfate	640	mg/L		1	EPA 300.0	05/15/2015 2109	AB
Calcium	6	mg/L		1	EPA 200.7	05/16/2015 1112	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1112	DG
Potassium	10	mg/L		1	EPA 200.7	05/16/2015 1112	DG
Sodium	592	mg/L		1	EPA 200.7	05/16/2015 1112	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/21/2015 1307	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 1724	BT
Electrical Conductivity	2500	µmhos/cm		5	SM 2510B	05/15/2015 1724	BT
Total Dissolved Solids (180)	1630	mg/L		10	SM 2540	05/15/2015 1413	BT
Data Quality							
Cation Sum	26.53	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Anion Sum	24.85	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Cation-Anion Balance (± 5%)	3.26	%		0.01	SM 1030E	05/26/2015 1530	JJ
Solids, Total Dissolved (Calc)	1600	mg/L		10	SM 1030E	05/26/2015 1530	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-002
ClientSample ID: MU1-OZ18
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 12:36:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1112	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1601	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1601	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/16/2015 1112	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1601	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1112	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1601	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1112	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1601	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 931	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1601	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1112	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1601	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1601	MS
Uranium	0.150	mg/L		0.0003	EPA 200.8	05/15/2015 1601	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1601	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1112	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1928	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 324	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 324	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-002
ClientSample ID: MU1-OZ18
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 12:36:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	200	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	12.7	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	44.1	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	1.1	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	4.0	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/31/2015 1552	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/31/2015 1552	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1652	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1652	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	8310	pCi/L		100	ASTM D5072-09	05/16/2015 334	WN
Radon-222 Precision (±)	166	pCi/L			ASTM D5072-09	05/16/2015 334	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-004
ClientSample ID: MU1-OZ-19
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 3:38:00 PM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.31	s.u.			Field	05/15/2015 1538	
Conductivity	2099	µmhos/cm			Field	05/15/2015 1538	
Dissolved Oxygen	4.28	mg/L			Field	05/15/2015 1538	
Turbidity	7.87	NTU			Field	05/15/2015 1538	
Depth to Water	91.46	ft			Field	05/15/2015 1538	
Temperature	11.85	℃			Field	05/15/2015 1538	
Oxygen Reduction Potential (ORP)	-125.4	mV			Field	05/15/2015 1538	
Anions/Cations							
Alkalinity, Total (As CaCO3)	606	mg/L		5	SM 2320B	05/19/2015 1543	BT
Alkalinity, Bicarbonate as HCO3	610	mg/L		5	SM 2320B	05/19/2015 1543	BT
Alkalinity, Carbonate as CO3	64	mg/L		5	SM 2320B	05/19/2015 1543	BT
Chloride	10	mg/L		1	EPA 300.0	05/19/2015 1554	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/19/2015 1543	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1504	AMB
Sulfate	769	mg/L		1	EPA 300.0	05/19/2015 1554	AB
Calcium	6	mg/L		1	EPA 200.7	05/18/2015 1947	DG
Magnesium	1	mg/L		1	EPA 200.7	05/18/2015 1947	DG
Potassium	20	mg/L		1	EPA 200.7	05/18/2015 1947	DG
Sodium	685	mg/L		1	EPA 200.7	05/18/2015 1947	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/21/2015 1510	AMB
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	05/19/2015 1543	BT
Electrical Conductivity	2650	µmhos/cm		5	SM 2510B	05/19/2015 1543	BT
Total Dissolved Solids (180)	1850	mg/L		10	SM 2540	05/18/2015 1643	BT
Data Quality							
Cation Sum	30.77	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Anion Sum	28.42	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Cation-Anion Balance (± 5%)	3.97	%		0.01	SM 1030E	05/26/2015 1558	JJ
Solids, Total Dissolved (Calc)	1860	mg/L		10	SM 1030E	05/26/2015 1558	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-004
ClientSample ID: MU1-OZ-19
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 3:38:00 PM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1947	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2148	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2148	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/18/2015 1947	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2148	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1947	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2148	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1947	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2148	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1402	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2148	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1947	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2148	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2148	MS
Uranium	0.0026	mg/L		0.0003	EPA 200.8	05/18/2015 2148	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2148	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1947	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 1947	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2217	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2217	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-004
ClientSample ID: MU1-OZ-19
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 3:38:00 PM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.7	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	3.4	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	15.2	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	6.1	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	1.1	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/10/2015 1156	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/10/2015 1156	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	1.2	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1324	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1324	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/08/2015 1529	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/08/2015 1529	MB
Radionuclides - Total							
Radon 222	3070	pCi/L		100	ASTM D5072-09	05/17/2015 1153	WN
Radon-222 Precision (±)	61.4	pCi/L			ASTM D5072-09	05/17/2015 1153	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-002
ClientSample ID: MU1 OZ 20
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 1:07:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.59	s.u.			Field	05/13/2015 1307	
Conductivity	1895	µmhos/cm			Field	05/13/2015 1307	
Dissolved Oxygen	2.53	mg/L			Field	05/13/2015 1307	
Turbidity	.30	NTU			Field	05/13/2015 1307	
Temperature	12.3	℃			Field	05/13/2015 1307	
Oxygen Reduction Potential (ORP)	+167	mV			Field	05/13/2015 1307	
Anions/Cations							
Alkalinity, Total (As CaCO3)	543	mg/L		5	SM 2320B	05/15/2015 1902	BT
Alkalinity, Bicarbonate as HCO3	598	mg/L		5	SM 2320B	05/15/2015 1902	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/15/2015 1902	BT
Chloride	6	mg/L		1	EPA 300.0	05/16/2015 013	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/15/2015 1902	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1314	AMB
Sulfate	619	mg/L		1	EPA 300.0	05/16/2015 013	AB
Calcium	6	mg/L		1	EPA 200.7	05/16/2015 1136	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1136	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1136	DG
Sodium	587	mg/L		1	EPA 200.7	05/16/2015 1136	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 845	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 1902	BT
Electrical Conductivity	2440	µmhos/cm		5	SM 2510B	05/15/2015 1902	BT
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	05/15/2015 1418	BT
Data Quality							
Cation Sum	26.29	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Anion Sum	23.94	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Cation-Anion Balance (± 5%)	4.67	%		0.01	SM 1030E	05/26/2015 1535	JJ
Solids, Total Dissolved (Calc)	1550	mg/L		10	SM 1030E	05/26/2015 1535	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-002
ClientSample ID: MU1 OZ 20
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 1:07:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1136	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1628	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1628	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1136	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1628	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1136	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1628	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1136	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1628	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 954	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1628	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1136	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1628	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1628	MS
Uranium	0.0294	mg/L		0.0003	EPA 200.8	05/15/2015 1628	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1628	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1136	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1908	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 346	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 346	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-002
ClientSample ID: MU1 OZ 20
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 1:07:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	38.0	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	6.1	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	14.5	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	1.9	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	1.5	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	1.6	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/06/2015 1413	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/06/2015 1413	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	3.0	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	1.8	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1256	MB
Radionuclides - Total							
Radon 222	14400	pCi/L		100	ASTM D5072-09	05/15/2015 1437	WN
Radon-222 Precision (±)	287	pCi/L			ASTM D5072-09	05/15/2015 1437	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-003
ClientSample ID: MU1-OZ21
COC: 158903

WorkOrder: S1505230
CollectionDate: 5/14/2015 4:10:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.79	s.u.			Field	05/14/2015 1610	
Conductivity	2394	µmhos/cm			Field	05/14/2015 1610	
Dissolved Oxygen	0.14	mg/L			Field	05/14/2015 1610	
Turbidity	9.09	NTU			Field	05/14/2015 1610	
Depth to Water	115.56	ft			Field	05/14/2015 1610	
Temperature	12.0	℃			Field	05/14/2015 1610	
Oxygen Reduction Potential (ORP)	-195.4	mV			Field	05/14/2015 1610	
Anions/Cations							
Alkalinity, Total (As CaCO3)	574	mg/L		5	SM 2320B	05/20/2015 1859	BT
Alkalinity, Bicarbonate as HCO3	590	mg/L		5	SM 2320B	05/20/2015 1859	BT
Alkalinity, Carbonate as CO3	54	mg/L		5	SM 2320B	05/20/2015 1859	BT
Chloride	7	mg/L		1	EPA 300.0	05/21/2015 2308	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/18/2015 1138	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1505	AMB
Sulfate	773	mg/L		1	EPA 300.0	05/22/2015 2148	AB
Calcium	6	mg/L		1	EPA 200.7	05/21/2015 1449	DG
Magnesium	3	mg/L		1	EPA 200.7	05/21/2015 1449	DG
Potassium	11	mg/L		1	EPA 200.7	05/18/2015 1301	DG
Sodium	613	mg/L		1	EPA 200.7	05/21/2015 1449	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/27/2015 1457	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/20/2015 1859	BT
Electrical Conductivity	2520	µmhos/cm		5	SM 2510B	05/18/2015 1138	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	05/15/2015 1510	BT
Data Quality							
Cation Sum	27.54	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Anion Sum	27.77	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Cation-Anion Balance (± 5%)	0.41	%		0.01	SM 1030E	05/26/2015 1554	JJ
Solids, Total Dissolved (Calc)	1760	mg/L		10	SM 1030E	05/26/2015 1554	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-003
ClientSample ID: MU1-OZ21
COC: 158903

WorkOrder: S1505230
CollectionDate: 5/14/2015 4:10:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1301	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2345	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2345	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/18/2015 1301	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2345	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1301	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2345	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1301	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2345	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1219	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2345	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1301	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2345	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2345	MS
Uranium	0.0692	mg/L		0.0003	EPA 200.8	05/15/2015 2345	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2345	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1301	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1425	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2027	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2027	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-003
ClientSample ID: MU1-OZ21
COC: 158903

WorkOrder: S1505230
CollectionDate: 5/14/2015 4:10:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	103	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	9.6	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	46.9	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	15.0	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	33.0	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	2.3	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	23.6	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 713	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 713	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	24.2	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	1.3	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	19.9	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	1.8	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	157000	pCi/L		100	ASTM D5072-09	05/17/2015 654	WN
Radon-222 Precision (±)	3090	pCi/L			ASTM D5072-09	05/17/2015 654	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505317001

ProjectName: Ross MU1 ISR
Lab ID: S1505317-001
ClientSample ID: MU1 OZ22
COC: 152884

WorkOrder: S1505317
CollectionDate: 5/18/2015 3:50:00 PM
DateReceived: 5/19/2015 8:13:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.43	s.u.			Field	05/18/2015 1550	
Conductivity	1722	µmhos/cm			Field	05/18/2015 1550	
Dissolved Oxygen	4.0	mg/L			Field	05/18/2015 1550	
Turbidity	3.31	NTU			Field	05/18/2015 1550	
Temperature	14.0	℃			Field	05/18/2015 1550	
Oxygen Reduction Potential (ORP)	+175	mV			Field	05/18/2015 1550	
Anions/Cations							
Alkalinity, Total (As CaCO3)	550	mg/L		5	SM 2320B	05/20/2015 1722	BT
Alkalinity, Bicarbonate as HCO3	605	mg/L		5	SM 2320B	05/20/2015 1722	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/20/2015 1722	BT
Chloride	5	mg/L		1	EPA 300.0	05/22/2015 719	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/20/2015 1722	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/22/2015 1338	AMB
Sulfate	437	mg/L		1	EPA 300.0	05/22/2015 719	AB
Calcium	5	mg/L		1	EPA 200.7	05/20/2015 1613	DG
Magnesium	2	mg/L		1	EPA 200.7	05/20/2015 1613	DG
Potassium	7	mg/L		1	EPA 200.7	05/20/2015 1613	DG
Sodium	495	mg/L		1	EPA 200.7	05/20/2015 1613	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 1129	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/20/2015 1722	BT
Electrical Conductivity	2030	µmhos/cm		5	SM 2510B	05/20/2015 1722	BT
Total Dissolved Solids (180)	1350	mg/L		10	SM 2540	05/21/2015 1032	BT
Data Quality							
Cation Sum	22.15	meq/L		0.01	SM 1030E	05/28/2015 1511	JJ
Anion Sum	20.25	meq/L		0.01	SM 1030E	05/28/2015 1511	JJ
Cation-Anion Balance (± 5%)	4.49	%		0.01	SM 1030E	05/28/2015 1511	JJ
Solids, Total Dissolved (Calc)	1280	mg/L		10	SM 1030E	05/28/2015 1511	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505317001

ProjectName: Ross MU1 ISR
Lab ID: S1505317-001
ClientSample ID: MU1 OZ22
COC: 152884

WorkOrder: S1505317
CollectionDate: 5/18/2015 3:50:00 PM
DateReceived: 5/19/2015 8:13:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/20/2015 1613	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/21/2015 2335	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/21/2015 2335	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/20/2015 1613	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/21/2015 2335	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/20/2015 1613	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/21/2015 2335	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/20/2015 1613	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/21/2015 2335	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 1013	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/21/2015 2335	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/20/2015 1613	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/21/2015 2335	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/21/2015 2335	MS
Uranium	0.0692	mg/L		0.0003	EPA 200.8	05/21/2015 2335	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/21/2015 2335	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/20/2015 1613	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1558	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	05/21/2015 2138	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/21/2015 2138	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505317001

ProjectName: Ross MU1 ISR
Lab ID: S1505317-001
ClientSample ID: MU1 OZ22
COC: 152884

WorkOrder: S1505317
CollectionDate: 5/18/2015 3:50:00 PM
DateReceived: 5/19/2015 8:13:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	159	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	17.1	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	93.5	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	16.9	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	20.6	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	1.3	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	11.8	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	1.3	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	48.0	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	1.0	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/12/2015 1900	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/12/2015 1900	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	4.5	pCi/L		1	OTW01	06/10/2015 1811	MB
Lead 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/10/2015 1811	MB
Polonium 210	3.9	pCi/L		1	OTW01	06/12/2015 1613	MB
Polonium 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/12/2015 1613	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/06/2015 1325	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/06/2015 1325	MB
Radionuclides - Total							
Radon 222	92600	pCi/L		100	ASTM D5072-09	05/20/2015 1736	WN
Radon-222 Precision (±)	1810	pCi/L			ASTM D5072-09	05/20/2015 1736	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-006
ClientSample ID: MU1 OZ23
COC: 152907

WorkOrder: S1505226
CollectionDate: 5/14/2015 12:30:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	05/14/2015 1230	
Conductivity	1910	µmhos/cm			Field	05/14/2015 1230	
Dissolved Oxygen	2.80	mg/L			Field	05/14/2015 1230	
Turbidity	2.44	NTU			Field	05/14/2015 1230	
Temperature	11.6	℃			Field	05/14/2015 1230	
Oxygen Reduction Potential (ORP)	+218	mV			Field	05/14/2015 1230	
Anions/Cations							
Alkalinity, Total (As CaCO3)	563	mg/L		5	SM 2320B	05/15/2015 2156	BT
Alkalinity, Bicarbonate as HCO3	610	mg/L		5	SM 2320B	05/15/2015 2156	BT
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	05/15/2015 2156	BT
Chloride	6	mg/L		1	EPA 300.0	05/16/2015 422	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/15/2015 2156	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1348	AMB
Sulfate	619	mg/L		1	EPA 300.0	05/16/2015 422	AB
Calcium	8	mg/L		1	EPA 200.7	05/16/2015 1227	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1227	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1227	DG
Sodium	580	mg/L		1	EPA 200.7	05/16/2015 1227	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/22/2015 907	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 2156	BT
Electrical Conductivity	2460	µmhos/cm		5	SM 2510B	05/15/2015 2156	BT
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	05/15/2015 1431	BT
Data Quality							
Cation Sum	26.14	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Anion Sum	24.33	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Cation-Anion Balance (± 5%)	3.57	%		0.01	SM 1030E	05/26/2015 1543	JJ
Solids, Total Dissolved (Calc)	1560	mg/L		10	SM 1030E	05/26/2015 1543	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-006
ClientSample ID: MU1 OZ23
COC: 152907

WorkOrder: S1505226
CollectionDate: 5/14/2015 12:30:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1227	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1816	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1816	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/16/2015 1227	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1816	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1227	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1816	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1227	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1816	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1025	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1816	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1227	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1816	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1816	MS
Uranium	0.0017	mg/L		0.0003	EPA 200.8	05/15/2015 1816	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1816	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1227	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1804	MS
Metals - Total							
Iron	0.11	mg/L		0.05	EPA 200.7	05/19/2015 433	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 433	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-006
ClientSample ID: MU1 OZ23
COC: 152907

WorkOrder: S1505226
CollectionDate: 5/14/2015 12:30:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/28/2015 2207	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/28/2015 2207	MB
Gross Beta	5.4	pCi/L		3	SM 7110B	05/28/2015 2207	MB
Gross Beta Precision (±)	2.8	pCi/L			SM 7110B	05/28/2015 2207	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/29/2015 1500	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/29/2015 1500	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1521	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1521	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	1200	pCi/L		100	ASTM D5072-09	05/17/2015 228	WN
Radon-222 Precision (±)	34.0	pCi/L			ASTM D5072-09	05/17/2015 228	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-007
ClientSample ID: MU1 OZ23 Dup
COC: 152907

WorkOrder: S1505226
CollectionDate: 5/14/2015 12:30:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	05/14/2015 1230	
Conductivity	1910	µmhos/cm			Field	05/14/2015 1230	
Dissolved Oxygen	2.80	mg/L			Field	05/14/2015 1230	
Turbidity	2.44	NTU			Field	05/14/2015 1230	
Temperature	11.6	℃			Field	05/14/2015 1230	
Oxygen Reduction Potential (ORP)	+218	mV			Field	05/14/2015 1230	
Anions/Cations							
Alkalinity, Total (As CaCO3)	565	mg/L		5	SM 2320B	05/15/2015 2209	BT
Alkalinity, Bicarbonate as HCO3	618	mg/L		5	SM 2320B	05/15/2015 2209	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	05/15/2015 2209	BT
Chloride	7	mg/L		1	EPA 300.0	05/16/2015 436	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/15/2015 2209	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1350	AMB
Sulfate	609	mg/L		1	EPA 300.0	05/16/2015 436	AB
Calcium	8	mg/L		1	EPA 200.7	05/16/2015 1229	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1229	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1229	DG
Sodium	579	mg/L		1	EPA 200.7	05/16/2015 1229	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 909	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 2209	BT
Electrical Conductivity	2460	µmhos/cm		5	SM 2510B	05/15/2015 2209	BT
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	05/15/2015 1432	BT
Data Quality							
Cation Sum	26.08	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Anion Sum	24.18	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Cation-Anion Balance (± 5%)	3.77	%		0.01	SM 1030E	05/26/2015 1543	JJ
Solids, Total Dissolved (Calc)	1550	mg/L		10	SM 1030E	05/26/2015 1543	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-007
ClientSample ID: MU1 OZ23 Dup
COC: 152907

WorkOrder: S1505226
CollectionDate: 5/14/2015 12:30:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1229	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1822	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1822	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/16/2015 1229	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1822	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1229	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1822	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1229	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1822	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1027	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1822	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1229	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1822	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1822	MS
Uranium	0.0016	mg/L		0.0003	EPA 200.8	05/15/2015 1822	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1822	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1229	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1810	MS
Metals - Total							
Iron	0.12	mg/L		0.05	EPA 200.7	05/19/2015 435	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 435	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-007
ClientSample ID: MU1 OZ23 Dup
COC: 152907

WorkOrder: S1505226
CollectionDate: 5/14/2015 12:30:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.6	pCi/L		2	SM 7110B	05/28/2015 2207	MB
Gross Alpha Precision (±)	1.7	pCi/L			SM 7110B	05/28/2015 2207	MB
Gross Beta	6.3	pCi/L		3	SM 7110B	05/28/2015 2207	MB
Gross Beta Precision (±)	2.9	pCi/L			SM 7110B	05/28/2015 2207	MB
Lead 210	2.3	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/29/2015 1801	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/29/2015 1801	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1652	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1652	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1522	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1522	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	1150	pCi/L		100	ASTM D5072-09	05/17/2015 303	WN
Radon-222 Precision (±)	33.2	pCi/L			ASTM D5072-09	05/17/2015 303	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-003
ClientSample ID: MU1-OZ24
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 2:21:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.63	s.u.			Field	05/14/2015 1421	
Conductivity	2471	µmhos/cm			Field	05/14/2015 1421	
Dissolved Oxygen	0.31	mg/L			Field	05/14/2015 1421	
Turbidity	0.95	NTU			Field	05/14/2015 1421	
Depth to Water	95.99	ft			Field	05/14/2015 1421	
Temperature	11.6	℃			Field	05/14/2015 1421	
Oxygen Reduction Potential (ORP)	-97.3	mV			Field	05/14/2015 1421	
Anions/Cations							
Alkalinity, Total (As CaCO3)	536	mg/L		5	SM 2320B	05/15/2015 1748	BT
Alkalinity, Bicarbonate as HCO3	598	mg/L		5	SM 2320B	05/15/2015 1748	BT
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	05/15/2015 1748	BT
Chloride	7	mg/L		1	EPA 300.0	05/15/2015 2123	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/15/2015 1748	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1416	AMB
Sulfate	726	mg/L		1	EPA 300.0	05/15/2015 2123	AB
Calcium	8	mg/L		1	EPA 200.7	05/16/2015 1116	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1116	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1116	DG
Sodium	635	mg/L		1	EPA 200.7	05/16/2015 1116	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/21/2015 1308	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 1748	BT
Electrical Conductivity	2630	µmhos/cm		5	SM 2510B	05/15/2015 1748	BT
Total Dissolved Solids (180)	1720	mg/L		10	SM 2540	05/15/2015 1414	BT
Data Quality							
Cation Sum	28.45	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Anion Sum	26.05	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Cation-Anion Balance (± 5%)	4.40	%		0.01	SM 1030E	05/26/2015 1530	JJ
Solids, Total Dissolved (Calc)	1710	mg/L		10	SM 1030E	05/26/2015 1530	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-003
ClientSample ID: MU1-OZ24
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 2:21:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1116	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1606	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1606	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1116	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1606	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1116	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1606	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1116	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1606	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 933	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1606	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1116	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1606	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1606	MS
Uranium	0.0364	mg/L		0.0003	EPA 200.8	05/15/2015 1606	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1606	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1116	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1933	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 331	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 331	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-003
ClientSample ID: MU1-OZ24
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 2:21:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	123	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	10.9	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	44.0	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	7.1	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	3.5	pCi/L		1	OTW01	05/30/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/30/2015 1520	MB
Polonium 210	10.2	pCi/L		1	OTW01	05/28/2015 1255	MB
Polonium 210 (Dissolved) Precision (±)	1.3	pCi/L			OTW01	05/28/2015 1255	MB
Radium 226	24.1	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/31/2015 1853	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/31/2015 1853	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1652	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1652	MB
Radionuclides - Suspended							
Lead 210	7.3	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	9.4	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	1.1	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	41700	pCi/L		100	ASTM D5072-09	05/16/2015 336	WN
Radon-222 Precision (±)	834	pCi/L			ASTM D5072-09	05/16/2015 336	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-012
ClientSample ID: MU1-OZ25
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 12:28:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	05/14/2015 1228	
Conductivity	2518	µmhos/cm			Field	05/14/2015 1228	
Dissolved Oxygen	1.71	mg/L			Field	05/14/2015 1228	
Turbidity	5.11	NTU			Field	05/14/2015 1228	
Depth to Water	114.19	ft			Field	05/14/2015 1228	
Temperature	11.9	℃			Field	05/14/2015 1228	
Oxygen Reduction Potential (ORP)	-43.9	mV			Field	05/14/2015 1228	
Anions/Cations							
Alkalinity, Total (As CaCO3)	541	mg/L		5	SM 2320B	05/16/2015 534	BT
Alkalinity, Bicarbonate as HCO3	582	mg/L		5	SM 2320B	05/16/2015 534	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/16/2015 534	BT
Chloride	8	mg/L		1	EPA 300.0	05/15/2015 1755	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/16/2015 534	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1445	AMB
Sulfate	774	mg/L		1	EPA 300.0	05/15/2015 1755	AB
Calcium	8	mg/L		1	EPA 200.7	05/16/2015 1424	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1424	DG
Potassium	9	mg/L		1	EPA 200.7	05/16/2015 1424	DG
Sodium	660	mg/L		1	EPA 200.7	05/16/2015 1424	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 1101	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 534	BT
Electrical Conductivity	2800	µmhos/cm		5	SM 2510B	05/16/2015 534	BT
Total Dissolved Solids (180)	1770	mg/L		10	SM 2540	05/15/2015 1502	BT
Data Quality							
Cation Sum	29.59	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	27.19	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	4.22	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1790	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-012
ClientSample ID: MU1-OZ25
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 12:28:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1424	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2230	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2230	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1424	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2230	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1424	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2230	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1424	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2230	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1156	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2230	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1424	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2230	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2230	MS
Uranium	0.0389	mg/L		0.0003	EPA 200.8	05/15/2015 2230	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2230	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1424	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1958	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 700	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 700	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-012
ClientSample ID: MU1-OZ25
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 12:28:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	59.7	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	7.7	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	19.8	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	4.6	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 453	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 453	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 2200	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 2200	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1540	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1540	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1748	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1748	MB
Radionuclides - Total							
Radon 222	6000	pCi/L		100	ASTM D5072-09	05/17/2015 320	WN
Radon-222 Precision (±)	120	pCi/L			ASTM D5072-09	05/17/2015 320	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-003
ClientSample ID: OZ-26
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 1:18:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.33	s.u.			Field	05/13/2015 1318	
Conductivity	2355	µmhos/cm			Field	05/13/2015 1318	
Dissolved Oxygen	0.45	mg/L			Field	05/13/2015 1318	
Turbidity	1.90	NTU			Field	05/13/2015 1318	
Depth to Water	94.97	ft			Field	05/13/2015 1318	
Temperature	11.3	℃			Field	05/13/2015 1318	
Oxygen Reduction Potential (ORP)	-164.1	mV			Field	05/13/2015 1318	
Anions/Cations							
Alkalinity, Total (As CaCO3)	546	mg/L		5	SM 2320B	05/15/2015 2350	BT
Alkalinity, Bicarbonate as HCO3	598	mg/L		5	SM 2320B	05/15/2015 2350	BT
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	05/15/2015 2350	BT
Chloride	7	mg/L		1	EPA 300.0	05/16/2015 518	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/15/2015 2350	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1354	AMB
Sulfate	610	mg/L		1	EPA 300.0	05/16/2015 518	AB
Calcium	6	mg/L		1	EPA 200.7	05/16/2015 1243	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1243	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1243	DG
Sodium	580	mg/L		1	EPA 200.7	05/16/2015 1243	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 921	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 2350	BT
Electrical Conductivity	2470	µmhos/cm		5	SM 2510B	05/15/2015 2350	BT
Total Dissolved Solids (180)	1550	mg/L		10	SM 2540	05/15/2015 1437	BT
Data Quality							
Cation Sum	25.93	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	23.82	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	4.23	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-003
ClientSample ID: OZ-26
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 1:18:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1243	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1915	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1915	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1243	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1915	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1243	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1915	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1243	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1915	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1044	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1915	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1243	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1915	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1915	MS
Uranium	0.0497	mg/L		0.0003	EPA 200.8	05/15/2015 1915	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1915	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1243	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2003	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 523	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 523	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-003
ClientSample ID: OZ-26
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 1:18:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	69.1	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	7.8	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	30.4	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	7.4	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	11.5	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	2.0	pCi/L		1	Ga-Tech	06/07/2015 217	MB
Radium 228 Precision (±)	1.3	pCi/L			Ga-Tech	06/07/2015 217	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1243	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1243	MB
Radionuclides - Suspended							
Lead 210	2.7	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 958	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 958	MB
Radionuclides - Total							
Radon 222	23900	pCi/L		100	ASTM D5072-09	05/15/2015 2045	WN
Radon-222 Precision (±)	476	pCi/L			ASTM D5072-09	05/15/2015 2045	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-004
ClientSample ID: OZ-26 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 1:18:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	565	mg/L		5	SM 2320B	05/16/2015 003	BT
Alkalinity, Bicarbonate as HCO3	621	mg/L		5	SM 2320B	05/16/2015 003	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	05/16/2015 003	BT
Chloride	6	mg/L		1	EPA 300.0	05/16/2015 532	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 003	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1356	AMB
Sulfate	602	mg/L		1	EPA 300.0	05/16/2015 532	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1256	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1256	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1256	DG
Sodium	577	mg/L		1	EPA 200.7	05/16/2015 1256	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 922	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 003	BT
Electrical Conductivity	2470	µmhos/cm		5	SM 2510B	05/16/2015 003	BT
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	05/15/2015 1438	BT
Data Quality							
Cation Sum	25.82	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	23.99	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	3.65	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-004
ClientSample ID: OZ-26 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 1:18:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1256	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1921	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1921	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1256	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1921	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1256	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1921	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1256	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1921	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1052	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1921	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1256	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1921	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1921	MS
Uranium	0.0579	mg/L		0.0003	EPA 200.8	05/15/2015 1921	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1921	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1256	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2009	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 526	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 526	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-004
ClientSample ID: OZ-26 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 1:18:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	76.4	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	8.1	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	29.5	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	5.2	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	10.5	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 419	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 419	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1243	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1243	MB
Radionuclides - Suspended							
Lead 210	2.7	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 958	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 958	MB
Radionuclides - Total							
Radon 222	24500	pCi/L		100	ASTM D5072-09	05/15/2015 2049	WN
Radon-222 Precision (±)	488	pCi/L			ASTM D5072-09	05/15/2015 2049	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505227001

ProjectName: Ross MU1 ISR
Lab ID: S1505227-002
ClientSample ID: MU1 PM1
COC: 152921

WorkOrder: S1505227
CollectionDate: 5/13/2015 11:35:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.56	s.u.			Field	05/13/2015 1135	
Conductivity	1985	µmhos/cm			Field	05/13/2015 1135	
Dissolved Oxygen	4.03	mg/L			Field	05/13/2015 1135	
Turbidity	1.03	NTU			Field	05/13/2015 1135	
Temperature	12.5	℃			Field	05/13/2015 1135	
Oxygen Reduction Potential (ORP)	-84	mV			Field	05/13/2015 1135	
Anions/Cations							
Alkalinity, Total (As CaCO3)	574	mg/L		5	SM 2320B	05/15/2015 2235	BT
Alkalinity, Bicarbonate as HCO3	621	mg/L		5	SM 2320B	05/15/2015 2235	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/15/2015 2235	BT
Chloride	7	mg/L		1	EPA 300.0	05/16/2015 122	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	05/15/2015 2235	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1431	AMB
Sulfate	609	mg/L		1	EPA 300.0	05/16/2015 122	AB
Calcium	8	mg/L		1	EPA 200.7	05/16/2015 1234	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1234	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1234	DG
Sodium	587	mg/L		1	EPA 200.7	05/16/2015 1234	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/21/2015 1321	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 2235	BT
Electrical Conductivity	2480	µmhos/cm		5	SM 2510B	05/15/2015 2235	BT
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	05/15/2015 1434	BT
Data Quality							
Cation Sum	26.35	meq/L		0.01	SM 1030E	05/26/2015 1551	JJ
Anion Sum	24.39	meq/L		0.01	SM 1030E	05/26/2015 1551	JJ
Cation-Anion Balance (± 5%)	3.87	%		0.01	SM 1030E	05/26/2015 1551	JJ
Solids, Total Dissolved (Calc)	1560	mg/L		10	SM 1030E	05/26/2015 1551	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505227001

ProjectName: Ross MU1 ISR
Lab ID: S1505227-002
ClientSample ID: MU1 PM1
COC: 152921

WorkOrder: S1505227
CollectionDate: 5/13/2015 11:35:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1234	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1859	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1859	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1234	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1859	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1234	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1859	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1234	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1859	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1031	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1859	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1234	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1859	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1859	MS
Uranium	0.0110	mg/L		0.0003	EPA 200.8	05/15/2015 1859	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1859	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1234	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 2022	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	05/19/2015 504	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 504	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505227001

ProjectName: Ross MU1 ISR
Lab ID: S1505227-002
ClientSample ID: MU1 PM1
COC: 152921

WorkOrder: S1505227
CollectionDate: 5/13/2015 11:35:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	28.8	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	5.9	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	11.4	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	2.3	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	2.1	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 656	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 656	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	2.5	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 851	MB
Radionuclides - Total							
Radon 222	5250	pCi/L		100	ASTM D5072-09	05/15/2015 1537	WN
Radon-222 Precision (±)	105	pCi/L			ASTM D5072-09	05/15/2015 1537	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-004
ClientSample ID: MU1-PM2
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 4:15:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.63	s.u.			Field	05/14/2015 1615	
Conductivity	2278	µmhos/cm			Field	05/14/2015 1615	
Dissolved Oxygen	0.74	mg/L			Field	05/14/2015 1615	
Turbidity	11.0	NTU			Field	05/14/2015 1615	
Depth to Water	118.18	ft			Field	05/14/2015 1615	
Temperature	11.71	℃			Field	05/14/2015 1615	
Oxygen Reduction Potential (ORP)	-198.3	mV			Field	05/14/2015 1615	
Anions/Cations							
Alkalinity, Total (As CaCO3)	549	mg/L		5	SM 2320B	05/19/2015 1427	BT
Alkalinity, Bicarbonate as HCO3	612	mg/L		5	SM 2320B	05/19/2015 1427	BT
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	05/19/2015 1427	BT
Chloride	6	mg/L		1	EPA 300.0	05/19/2015 1338	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	05/19/2015 1427	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1458	AMB
Sulfate	617	mg/L		1	EPA 300.0	05/19/2015 1338	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 1935	DG
Magnesium	3	mg/L		1	EPA 200.7	05/18/2015 1935	DG
Potassium	5	mg/L		1	EPA 200.7	05/18/2015 1935	DG
Sodium	570	mg/L		1	EPA 200.7	05/18/2015 1935	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/21/2015 1327	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/19/2015 1427	BT
Electrical Conductivity	2390	µmhos/cm		5	SM 2510B	05/19/2015 1427	BT
Total Dissolved Solids (180)	1610	mg/L		10	SM 2540	05/18/2015 1638	BT
Data Quality							
Cation Sum	25.54	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Anion Sum	24.02	meq/L		0.01	SM 1030E	05/26/2015 1556	JJ
Cation-Anion Balance (± 5%)	3.07	%		0.01	SM 1030E	05/26/2015 1556	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	05/26/2015 1556	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-004
ClientSample ID: MU1-PM2
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 4:15:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1935	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2126	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2126	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 1935	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2126	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1935	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2126	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1935	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2126	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1354	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2126	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1935	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2126	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2126	MS
Uranium	0.0165	mg/L		0.0003	EPA 200.8	05/18/2015 2126	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2126	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1935	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1552	MS
Metals - Total							
Iron	0.16	mg/L		0.05	EPA 200.7	05/19/2015 2155	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2155	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505261001

ProjectName: Ross MU1 ISR
Lab ID: S1505261-004
ClientSample ID: MU1-PM2
COC: 159798

WorkOrder: S1505261
CollectionDate: 5/14/2015 4:15:00 PM
DateReceived: 5/16/2015 9:00:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	21.0	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	5.2	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	1.4	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 1718	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 1718	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1354	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1354	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1811	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1811	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1613	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1613	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/06/2015 1325	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/06/2015 1325	MB
Radionuclides - Total							
Radon 222	2060	pCi/L		100	ASTM D5072-09	05/17/2015 912	WN
Radon-222 Precision (±)	46.1	pCi/L			ASTM D5072-09	05/17/2015 912	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-004
ClientSample ID: MU1-PM3
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 3:30:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.69	s.u.			Field	05/14/2015 1530	
Conductivity	2033	µmhos/cm			Field	05/14/2015 1530	
Dissolved Oxygen	0.40	mg/L			Field	05/14/2015 1530	
Turbidity	4.47	NTU			Field	05/14/2015 1530	
Depth to Water	96.90	ft			Field	05/14/2015 1530	
Temperature	11.4	℃			Field	05/14/2015 1530	
Oxygen Reduction Potential (ORP)	-187.5	mV			Field	05/14/2015 1530	
Anions/Cations							
Alkalinity, Total (As CaCO3)	637	mg/L		5	SM 2320B	05/15/2015 1824	BT
Alkalinity, Bicarbonate as HCO3	686	mg/L		5	SM 2320B	05/15/2015 1824	BT
Alkalinity, Carbonate as CO3	45	mg/L		5	SM 2320B	05/15/2015 1824	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 2137	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/15/2015 1824	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1426	AMB
Sulfate	418	mg/L		1	EPA 300.0	05/15/2015 2137	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1129	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1129	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1129	DG
Sodium	523	mg/L		1	EPA 200.7	05/16/2015 1129	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/21/2015 1309	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 1824	BT
Electrical Conductivity	2170	µmhos/cm		5	SM 2510B	05/15/2015 1824	BT
Total Dissolved Solids (180)	1370	mg/L		10	SM 2540	05/15/2015 1415	BT
Data Quality							
Cation Sum	23.36	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Anion Sum	21.64	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Cation-Anion Balance (± 5%)	3.82	%		0.01	SM 1030E	05/26/2015 1530	JJ
Solids, Total Dissolved (Calc)	1340	mg/L		10	SM 1030E	05/26/2015 1530	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-004
ClientSample ID: MU1-PM3
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 3:30:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1129	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1612	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1612	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1129	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1612	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1129	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1612	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1129	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1612	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 935	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1612	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1129	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1612	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1612	MS
Uranium	0.0050	mg/L		0.0003	EPA 200.8	05/15/2015 1612	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1612	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1129	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1939	MS
Metals - Total							
Iron	0.18	mg/L		0.05	EPA 200.7	05/19/2015 334	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 334	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-004
ClientSample ID: MU1-PM3
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 3:30:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	12.9	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	4.3	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	7.8	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1255	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1255	MB
Radium 226	2.2	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/31/2015 2153	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/31/2015 2153	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1652	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1652	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	1630	pCi/L		100	ASTM D5072-09	05/16/2015 2150	WN
Radon-222 Precision (±)	39.0	pCi/L			ASTM D5072-09	05/16/2015 2150	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-015
ClientSample ID: MU1 PM4
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 9:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.37	s.u.			Field	05/14/2015 936	
Conductivity	1837	µmhos/cm			Field	05/14/2015 936	
Dissolved Oxygen	4.62	mg/L			Field	05/14/2015 936	
Turbidity	2.07	NTU			Field	05/14/2015 936	
Temperature	12.1	℃			Field	05/14/2015 936	
Oxygen Reduction Potential (ORP)	-229	mV			Field	05/14/2015 936	
Anions/Cations							
Alkalinity, Total (As CaCO3)	634	mg/L		5	SM 2320B	05/16/2015 615	BT
Alkalinity, Bicarbonate as HCO3	692	mg/L		5	SM 2320B	05/16/2015 615	BT
Alkalinity, Carbonate as CO3	40	mg/L		5	SM 2320B	05/16/2015 615	BT
Chloride	6	mg/L		1	EPA 300.0	05/15/2015 1836	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/16/2015 615	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1459	AMB
Sulfate	527	mg/L		1	EPA 300.0	05/15/2015 1836	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1431	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1431	DG
Potassium	5	mg/L		1	EPA 200.7	05/16/2015 1431	DG
Sodium	563	mg/L		1	EPA 200.7	05/16/2015 1431	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 1105	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 615	BT
Electrical Conductivity	2380	µmhos/cm		5	SM 2510B	05/16/2015 615	BT
Total Dissolved Solids (180)	1450	mg/L		10	SM 2540	05/15/2015 1505	BT
Data Quality							
Cation Sum	25.15	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	23.88	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	2.59	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1490	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-015
ClientSample ID: MU1 PM4
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 9:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1431	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2257	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2257	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1431	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2257	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1431	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2257	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1431	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2257	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1202	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2257	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1431	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2257	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2257	MS
Uranium	0.0040	mg/L		0.0003	EPA 200.8	05/15/2015 2257	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2257	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1431	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1403	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/19/2015 714	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 714	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-015
ClientSample ID: MU1 PM4
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 9:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	6.4	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	3.2	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	12.0	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 1356	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 1356	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1722	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1722	MB
Radionuclides - Total							
Radon 222	1180	pCi/L		100	ASTM D5072-09	05/17/2015 506	WN
Radon-222 Precision (±)	34.2	pCi/L			ASTM D5072-09	05/17/2015 506	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-016
ClientSample ID: MU1 PM4 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 9:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.37	s.u.			Field	05/14/2015 936	
Conductivity	1837	µmhos/cm			Field	05/14/2015 936	
Dissolved Oxygen	4.62	mg/L			Field	05/14/2015 936	
Turbidity	2.07	NTU			Field	05/14/2015 936	
Temperature	12.1	℃			Field	05/14/2015 936	
Oxygen Reduction Potential (ORP)	-229	mV			Field	05/14/2015 936	
Anions/Cations							
Alkalinity, Total (As CaCO3)	611	mg/L		5	SM 2320B	05/16/2015 627	BT
Alkalinity, Bicarbonate as HCO3	664	mg/L		5	SM 2320B	05/16/2015 627	BT
Alkalinity, Carbonate as CO3	40	mg/L		5	SM 2320B	05/16/2015 627	BT
Chloride	6	mg/L		1	EPA 300.0	05/15/2015 1849	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/16/2015 627	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1500	AMB
Sulfate	521	mg/L		1	EPA 300.0	05/15/2015 1849	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1433	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1433	DG
Potassium	5	mg/L		1	EPA 200.7	05/16/2015 1433	DG
Sodium	561	mg/L		1	EPA 200.7	05/16/2015 1433	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 1106	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 627	BT
Electrical Conductivity	2370	µmhos/cm		5	SM 2510B	05/16/2015 627	BT
Total Dissolved Solids (180)	1450	mg/L		10	SM 2540	05/15/2015 1506	BT
Data Quality							
Cation Sum	25.06	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	23.29	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	3.66	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1470	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-016
ClientSample ID: MU1 PM4 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 9:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1433	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2328	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2328	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1433	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2328	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1433	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2328	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1433	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2328	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1208	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2328	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1433	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2328	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2328	MS
Uranium	0.0037	mg/L		0.0003	EPA 200.8	05/15/2015 2328	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2328	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1433	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1409	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/19/2015 2020	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2020	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-016
ClientSample ID: MU1 PM4 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 9:36:00 AM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	4.0	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	2.9	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 1657	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 1657	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1722	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1722	MB
Radionuclides - Total							
Radon 222	1060	pCi/L		100	ASTM D5072-09	05/17/2015 542	WN
Radon-222 Precision (±)	32.3	pCi/L			ASTM D5072-09	05/17/2015 542	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-014
ClientSample ID: MU1-PM5
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 2:23:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.59	s.u.			Field	05/14/2015 1423	
Conductivity	1798	µmhos/cm			Field	05/14/2015 1423	
Dissolved Oxygen	0.15	mg/L			Field	05/14/2015 1423	
Turbidity	2.52	NTU			Field	05/14/2015 1423	
Depth to Water	128.28	ft			Field	05/14/2015 1423	
Temperature	11.5	℃			Field	05/14/2015 1423	
Oxygen Reduction Potential (ORP)	-220.3	mV			Field	05/14/2015 1423	
Anions/Cations							
Alkalinity, Total (As CaCO3)	624	mg/L		5	SM 2320B	05/16/2015 600	BT
Alkalinity, Bicarbonate as HCO3	672	mg/L		5	SM 2320B	05/16/2015 600	BT
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	05/16/2015 600	BT
Chloride	4	mg/L		1	EPA 300.0	05/15/2015 1822	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	05/16/2015 600	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1448	AMB
Sulfate	346	mg/L		1	EPA 300.0	05/15/2015 1822	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1429	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1429	DG
Potassium	5	mg/L		1	EPA 200.7	05/16/2015 1429	DG
Sodium	487	mg/L		1	EPA 200.7	05/16/2015 1429	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 1103	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 600	BT
Electrical Conductivity	2010	µmhos/cm		5	SM 2510B	05/16/2015 600	BT
Total Dissolved Solids (180)	1170	mg/L		10	SM 2540	05/15/2015 1504	BT
Data Quality							
Cation Sum	21.74	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	19.87	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	4.48	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1220	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-014
ClientSample ID: MU1-PM5
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 2:23:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1429	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	05/15/2015 2241	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2241	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1429	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2241	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1429	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2241	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1429	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2241	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1200	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2241	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1429	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2241	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2241	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/15/2015 2241	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2241	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1429	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1347	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	05/19/2015 712	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 712	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-014
ClientSample ID: MU1-PM5
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 2:23:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	3.5	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	5.6	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 1055	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 1055	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1722	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1722	MB
Radionuclides - Total							
Radon 222	742	pCi/L		100	ASTM D5072-09	05/17/2015 431	WN
Radon-222 Precision (±)	26.0	pCi/L			ASTM D5072-09	05/17/2015 431	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-011
ClientSample ID: PM-6
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 1:40:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.70	s.u.			Field	05/14/2015 1340	
Conductivity	2042	µmhos/cm			Field	05/14/2015 1340	
Dissolved Oxygen	0.32	mg/L			Field	05/14/2015 1340	
Turbidity	2.38	NTU			Field	05/14/2015 1340	
Depth to Water	124.32	ft			Field	05/14/2015 1340	
Temperature	11.5	℃			Field	05/14/2015 1340	
Oxygen Reduction Potential (ORP)	-212.5	mV			Field	05/14/2015 1340	
Anions/Cations							
Alkalinity, Total (As CaCO3)	602	mg/L		5	SM 2320B	05/16/2015 130	BT
Alkalinity, Bicarbonate as HCO3	630	mg/L		5	SM 2320B	05/16/2015 130	BT
Alkalinity, Carbonate as CO3	51	mg/L		5	SM 2320B	05/16/2015 130	BT
Chloride	6	mg/L		1	EPA 300.0	05/16/2015 832	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/16/2015 130	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1415	AMB
Sulfate	457	mg/L		1	EPA 300.0	05/16/2015 832	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1325	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1325	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1325	DG
Sodium	537	mg/L		1	EPA 200.7	05/16/2015 1325	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 931	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/16/2015 130	BT
Electrical Conductivity	2230	µmhos/cm		5	SM 2510B	05/16/2015 130	BT
Total Dissolved Solids (180)	1360	mg/L		10	SM 2540	05/15/2015 1446	BT
Data Quality							
Cation Sum	23.94	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	21.78	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	4.73	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1370	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-011
ClientSample ID: PM-6
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 1:40:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1325	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2036	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2036	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1325	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2036	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1325	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2036	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1325	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2036	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1110	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2036	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1325	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2036	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2036	MS
Uranium	0.0216	mg/L		0.0003	EPA 200.8	05/15/2015 2036	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2036	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1325	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2114	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 552	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 552	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-011
ClientSample ID: PM-6
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 1:40:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	20.2	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	4.8	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	9.7	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 1825	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 1825	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	484	pCi/L		100	ASTM D5072-09	05/15/2015 2330	WN
Radon-222 Precision (±)	18.4	pCi/L			ASTM D5072-09	05/15/2015 2330	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-012
ClientSample ID: PM-7
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 3:22:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	05/14/2015 1522	
Conductivity	1984	µmhos/cm			Field	05/14/2015 1522	
Dissolved Oxygen	0.28	mg/L			Field	05/14/2015 1522	
Turbidity	0.98	NTU			Field	05/14/2015 1522	
Depth to Water	104.23	ft			Field	05/14/2015 1522	
Temperature	11.4	℃			Field	05/14/2015 1522	
Oxygen Reduction Potential (ORP)	-145.9	mV			Field	05/14/2015 1522	
Anions/Cations							
Alkalinity, Total (As CaCO3)	664	mg/L		5	SM 2320B	05/16/2015 153	BT
Alkalinity, Bicarbonate as HCO3	718	mg/L		5	SM 2320B	05/16/2015 153	BT
Alkalinity, Carbonate as CO3	45	mg/L		5	SM 2320B	05/16/2015 153	BT
Chloride	5	mg/L		1	EPA 300.0	05/16/2015 845	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/16/2015 153	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1417	AMB
Sulfate	369	mg/L		1	EPA 300.0	05/16/2015 845	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1328	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1328	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1328	DG
Sodium	515	mg/L		1	EPA 200.7	05/16/2015 1328	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 933	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 153	BT
Electrical Conductivity	2140	µmhos/cm		5	SM 2510B	05/16/2015 153	BT
Total Dissolved Solids (180)	1310	mg/L		10	SM 2540	05/15/2015 1447	BT
Data Quality							
Cation Sum	23.03	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	21.15	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	4.23	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1300	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-012
ClientSample ID: PM-7
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 3:22:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1328	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2041	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2041	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1328	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2041	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1328	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2041	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1328	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2041	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1117	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2041	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1328	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2041	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2041	MS
Uranium	0.0037	mg/L		0.0003	EPA 200.8	05/15/2015 2041	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2041	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1328	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2119	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 554	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 554	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-012
ClientSample ID: PM-7
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 3:22:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.9	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	2.8	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	3.9	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 2026	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 2026	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	1190	pCi/L		100	ASTM D5072-09	05/16/2015 006	WN
Radon-222 Precision (±)	30.6	pCi/L			ASTM D5072-09	05/16/2015 006	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-001
ClientSample ID: MU1 PM 8
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 3:05:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.51	s.u.			Field	05/13/2015 1505	
Conductivity	2026	µmhos/cm			Field	05/13/2015 1505	
Dissolved Oxygen	3.89	mg/L			Field	05/13/2015 1505	
Turbidity	.64	NTU			Field	05/13/2015 1505	
Temperature	11.18	℃			Field	05/13/2015 1505	
Oxygen Reduction Potential (ORP)	+111	mV			Field	05/13/2015 1505	
Anions/Cations							
Alkalinity, Total (As CaCO3)	602	mg/L		5	SM 2320B	05/15/2015 1851	BT
Alkalinity, Bicarbonate as HCO3	672	mg/L		5	SM 2320B	05/15/2015 1851	BT
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	05/15/2015 1851	BT
Chloride	7	mg/L		1	EPA 300.0	05/15/2015 2359	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/15/2015 1851	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1312	AMB
Sulfate	654	mg/L		1	EPA 300.0	05/15/2015 2359	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1134	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1134	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1134	DG
Sodium	615	mg/L		1	EPA 200.7	05/16/2015 1134	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/22/2015 843	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 1851	BT
Electrical Conductivity	2570	µmhos/cm		5	SM 2510B	05/15/2015 1851	BT
Total Dissolved Solids (180)	1650	mg/L		10	SM 2540	05/15/2015 1417	BT
Data Quality							
Cation Sum	27.50	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Anion Sum	25.87	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Cation-Anion Balance (± 5%)	3.05	%		0.01	SM 1030E	05/26/2015 1535	JJ
Solids, Total Dissolved (Calc)	1650	mg/L		10	SM 1030E	05/26/2015 1535	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-001
ClientSample ID: MU1 PM 8
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 3:05:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1134	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1623	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1623	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1134	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1623	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1134	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1623	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1134	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1623	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 946	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1623	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1134	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1623	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1623	MS
Uranium	0.0554	mg/L		0.0003	EPA 200.8	05/15/2015 1623	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1623	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1134	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1836	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 343	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 343	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-001
ClientSample ID: MU1 PM 8
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 3:05:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	64.1	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	8.1	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	13.0	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	6.1	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	1.1	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/06/2015 1212	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/06/2015 1212	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	1.7	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1256	MB
Radionuclides - Total							
Radon 222	2910	pCi/L		100	ASTM D5072-09	05/15/2015 1403	WN
Radon-222 Precision (±)	58.2	pCi/L			ASTM D5072-09	05/15/2015 1403	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-005
ClientSample ID: MU1-PM9
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 5:10:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.8	s.u.			Field	05/13/2015 1710	
Conductivity	2602	µmhos/cm			Field	05/13/2015 1710	
Dissolved Oxygen	0.67	mg/L			Field	05/13/2015 1710	
Turbidity	2.50	NTU			Field	05/13/2015 1710	
Depth to Water	86.90	ft			Field	05/13/2015 1710	
Temperature	11.2	℃			Field	05/13/2015 1710	
Oxygen Reduction Potential (ORP)	-179.7	mV			Field	05/13/2015 1710	
Anions/Cations							
Alkalinity, Total (As CaCO3)	484	mg/L		5	SM 2320B	05/18/2015 1253	BT
Alkalinity, Bicarbonate as HCO3	519	mg/L		5	SM 2320B	05/18/2015 1253	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	05/18/2015 1253	BT
Chloride	11	mg/L		1	EPA 300.0	05/15/2015 2213	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/18/2015 1253	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1523	AMB
Sulfate	1070	mg/L		1	EPA 300.0	05/15/2015 2213	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 1321	DG
Magnesium	4	mg/L		1	EPA 200.7	05/18/2015 1321	DG
Potassium	10	mg/L		1	EPA 200.7	05/18/2015 1321	DG
Sodium	785	mg/L		1	EPA 200.7	05/18/2015 1321	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/22/2015 1126	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/18/2015 1253	BT
Electrical Conductivity	3130	µmhos/cm		5	SM 2510B	05/18/2015 1253	BT
Total Dissolved Solids (180)	2140	mg/L		10	SM 2540	05/15/2015 1516	BT
Data Quality							
Cation Sum	35.13	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Anion Sum	32.18	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Cation-Anion Balance (± 5%)	4.38	%		0.01	SM 1030E	05/28/2015 1457	JJ
Solids, Total Dissolved (Calc)	2170	mg/L		10	SM 1030E	05/28/2015 1457	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-005
ClientSample ID: MU1-PM9
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 5:10:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1321	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/16/2015 028	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/16/2015 028	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/18/2015 1321	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/16/2015 028	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1321	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/16/2015 028	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1321	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/16/2015 028	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1231	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/16/2015 028	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1321	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/16/2015 028	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/16/2015 028	MS
Uranium	0.0194	mg/L		0.0003	EPA 200.8	05/16/2015 028	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/16/2015 028	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1321	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1525	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2047	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2047	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-005
ClientSample ID: MU1-PM9
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 5:10:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	22.1	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	5.8	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	11.7	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1559	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1559	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1310	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1310	MB
Radium 226	1.1	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/08/2015 2109	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/08/2015 2109	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	1.8	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	2060	pCi/L		100	ASTM D5072-09	05/16/2015 235	WN
Radon-222 Precision (±)	44.7	pCi/L			ASTM D5072-09	05/16/2015 235	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-006
ClientSample ID: MU1-PM9 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 5:15:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	493	mg/L		5	SM 2320B	05/18/2015 1317	BT
Alkalinity, Bicarbonate as HCO3	519	mg/L		5	SM 2320B	05/18/2015 1317	BT
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	05/18/2015 1317	BT
Chloride	11	mg/L		1	EPA 300.0	05/15/2015 2227	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/18/2015 1317	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1536	AMB
Sulfate	1070	mg/L		1	EPA 300.0	05/15/2015 2227	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 1323	DG
Magnesium	4	mg/L		1	EPA 200.7	05/18/2015 1323	DG
Potassium	10	mg/L		1	EPA 200.7	05/18/2015 1323	DG
Sodium	802	mg/L		1	EPA 200.7	05/18/2015 1323	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/22/2015 1127	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/18/2015 1317	BT
Electrical Conductivity	3100	µmhos/cm		5	SM 2510B	05/18/2015 1317	BT
Total Dissolved Solids (180)	2130	mg/L		10	SM 2540	05/15/2015 1517	BT
Data Quality							
Cation Sum	35.88	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Anion Sum	32.52	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Cation-Anion Balance (± 5%)	4.90	%		0.01	SM 1030E	05/28/2015 1457	JJ
Solids, Total Dissolved (Calc)	2200	mg/L		10	SM 1030E	05/28/2015 1457	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-006
ClientSample ID: MU1-PM9 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 5:15:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1323	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/16/2015 049	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/16/2015 049	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/18/2015 1323	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/16/2015 049	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1323	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/16/2015 049	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1323	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/16/2015 049	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1241	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/16/2015 049	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1323	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/16/2015 049	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/16/2015 049	MS
Uranium	0.0196	mg/L		0.0003	EPA 200.8	05/16/2015 049	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/16/2015 049	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1323	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1530	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2049	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2049	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-006
ClientSample ID: MU1-PM9 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 5:15:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	19.6	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	5.3	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	13.6	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1559	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1559	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1310	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1310	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/08/2015 2310	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/08/2015 2310	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/06/2015 1325	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/06/2015 1325	MB
Radionuclides - Total							
Radon 222	2170	pCi/L		100	ASTM D5072-09	05/16/2015 310	WN
Radon-222 Precision (±)	46.0	pCi/L			ASTM D5072-09	05/16/2015 310	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-007
ClientSample ID: MU1-PM10
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 3:52:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.73	s.u.			Field	05/13/2015 1552	
Conductivity	1702	µmhos/cm			Field	05/13/2015 1552	
Dissolved Oxygen	0.10	mg/L			Field	05/13/2015 1552	
Turbidity	8.22	NTU			Field	05/13/2015 1552	
Depth to Water	76.78	ft			Field	05/13/2015 1552	
Temperature	11.1	℃			Field	05/13/2015 1552	
Oxygen Reduction Potential (ORP)	-231.0	mV			Field	05/13/2015 1552	
Anions/Cations							
Alkalinity, Total (As CaCO3)	655	mg/L		5	SM 2320B	05/16/2015 356	BT
Alkalinity, Bicarbonate as HCO3	670	mg/L		5	SM 2320B	05/16/2015 356	BT
Alkalinity, Carbonate as CO3	64	mg/L		5	SM 2320B	05/16/2015 356	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 1509	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	05/16/2015 356	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1438	AMB
Sulfate	472	mg/L		1	EPA 300.0	05/15/2015 1509	AB
Calcium	4	mg/L		1	EPA 200.7	05/16/2015 1359	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1359	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1359	DG
Sodium	529	mg/L		1	EPA 200.7	05/16/2015 1359	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 951	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/16/2015 356	BT
Electrical Conductivity	2280	µmhos/cm		5	SM 2510B	05/16/2015 356	BT
Total Dissolved Solids (180)	1390	mg/L		10	SM 2540	05/15/2015 1456	BT
Data Quality							
Cation Sum	23.62	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	23.10	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	1.13	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-007
ClientSample ID: MU1-PM10
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 3:52:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1359	DG
Arsenic	0.013	mg/L		0.005	EPA 200.8	05/15/2015 2151	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2151	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1359	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2151	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1359	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2151	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1359	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2151	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1133	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2151	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1359	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2151	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2151	MS
Uranium	0.0060	mg/L		0.0003	EPA 200.8	05/15/2015 2151	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2151	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1359	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1920	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 636	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 636	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-007
ClientSample ID: MU1-PM10
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 3:52:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.0	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	3.1	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	8.8	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	5.1	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/02/2015 1607	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/02/2015 1607	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1540	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1540	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1748	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1748	MB
Radionuclides - Total							
Radon 222	1860	pCi/L		100	ASTM D5072-09	05/15/2015 1735	WN
Radon-222 Precision (±)	41.4	pCi/L			ASTM D5072-09	05/15/2015 1735	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-008
ClientSample ID: MU1-PM10 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 3:57:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	633	mg/L		5	SM 2320B	05/16/2015 408	BT
Alkalinity, Bicarbonate as HCO3	642	mg/L		5	SM 2320B	05/16/2015 408	BT
Alkalinity, Carbonate as CO3	64	mg/L		5	SM 2320B	05/16/2015 408	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 1523	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	05/16/2015 408	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1439	AMB
Sulfate	473	mg/L		1	EPA 300.0	05/15/2015 1523	AB
Calcium	4	mg/L		1	EPA 200.7	05/16/2015 1401	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1401	DG
Potassium	7	mg/L		1	EPA 200.7	05/16/2015 1401	DG
Sodium	534	mg/L		1	EPA 200.7	05/16/2015 1401	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 953	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/16/2015 408	BT
Electrical Conductivity	2290	µmhos/cm		5	SM 2510B	05/16/2015 408	BT
Total Dissolved Solids (180)	1380	mg/L		10	SM 2540	05/15/2015 1457	BT
Data Quality							
Cation Sum	23.83	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	22.69	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	2.45	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-008
ClientSample ID: MU1-PM10 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 3:57:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1401	DG
Arsenic	0.013	mg/L		0.005	EPA 200.8	05/15/2015 2208	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2208	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1401	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2208	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1401	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2208	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1401	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2208	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1143	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2208	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1401	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2208	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2208	MS
Uranium	0.0061	mg/L		0.0003	EPA 200.8	05/15/2015 2208	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2208	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1401	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1926	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 643	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 643	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-008
ClientSample ID: MU1-PM10 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 3:57:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.0	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	2.8	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	7.5	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	5.4	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	1.4	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/03/2015 1649	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/03/2015 1649	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1540	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1540	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1748	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1748	MB
Radionuclides - Total							
Radon 222	1930	pCi/L		100	ASTM D5072-09	05/15/2015 1811	WN
Radon-222 Precision (±)	42.1	pCi/L			ASTM D5072-09	05/15/2015 1811	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-002
ClientSample ID: MU1-PM-11
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 11:19:00 AM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.80	s.u.			Field	05/15/2015 1119	
Conductivity	1581	µmhos/cm			Field	05/15/2015 1119	
Dissolved Oxygen	0.99	mg/L			Field	05/15/2015 1119	
Turbidity	3.42	NTU			Field	05/15/2015 1119	
Depth to Water	68.10	ft			Field	05/15/2015 1119	
Temperature	10.58	℃			Field	05/15/2015 1119	
Oxygen Reduction Potential (ORP)	-206.3	mV			Field	05/15/2015 1119	
Anions/Cations							
Alkalinity, Total (As CaCO3)	645	mg/L		5	SM 2320B	05/19/2015 1454	BT
Alkalinity, Bicarbonate as HCO3	702	mg/L		5	SM 2320B	05/19/2015 1454	BT
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	05/19/2015 1454	BT
Chloride	4	mg/L		1	EPA 300.0	05/19/2015 1405	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	05/19/2015 1454	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1501	AMB
Sulfate	402	mg/L		1	EPA 300.0	05/19/2015 1405	AB
Calcium	5	mg/L		1	EPA 200.7	05/18/2015 1940	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 1940	DG
Potassium	7	mg/L		1	EPA 200.7	05/18/2015 1940	DG
Sodium	511	mg/L		1	EPA 200.7	05/18/2015 1940	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/21/2015 1329	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/19/2015 1454	BT
Electrical Conductivity	2100	µmhos/cm		5	SM 2510B	05/19/2015 1454	BT
Total Dissolved Solids (180)	1480	mg/L		10	SM 2540	05/18/2015 1641	BT
Data Quality							
Cation Sum	22.87	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Anion Sum	21.42	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Cation-Anion Balance (± 5%)	3.28	%		0.01	SM 1030E	05/26/2015 1558	JJ
Solids, Total Dissolved (Calc)	1320	mg/L		10	SM 1030E	05/26/2015 1558	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-002
ClientSample ID: MU1-PM-11
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 11:19:00 AM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1940	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	05/18/2015 2137	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2137	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 1940	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2137	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1940	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2137	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1940	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2137	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1358	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2137	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1940	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2137	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2137	MS
Uranium	0.0041	mg/L		0.0003	EPA 200.8	05/18/2015 2137	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2137	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1940	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 1936	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/19/2015 2159	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2159	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-002
ClientSample ID: MU1-PM-11
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 11:19:00 AM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	6.3	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	3.0	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	6.7	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	1.5	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 2119	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 2119	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1324	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1324	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 829	MB
Radionuclides - Total							
Radon 222	2900	pCi/L		100	ASTM D5072-09	05/17/2015 1051	WN
Radon-222 Precision (±)	58.0	pCi/L			ASTM D5072-09	05/17/2015 1051	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-009
ClientSample ID: MU1-PM12
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 5:10:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.23	s.u.			Field	05/13/2015 1710	
Conductivity	1501	µmhos/cm			Field	05/13/2015 1710	
Dissolved Oxygen	0.06	mg/L			Field	05/13/2015 1710	
Turbidity	10.9	NTU			Field	05/13/2015 1710	
Depth to Water	36.80	ft			Field	05/13/2015 1710	
Temperature	10.6	℃			Field	05/13/2015 1710	
Oxygen Reduction Potential (ORP)	-192.5	mV			Field	05/13/2015 1710	
Anions/Cations							
Alkalinity, Total (As CaCO3)	682	mg/L		5	SM 2320B	05/16/2015 434	BT
Alkalinity, Bicarbonate as HCO3	753	mg/L		5	SM 2320B	05/16/2015 434	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/16/2015 434	BT
Chloride	4	mg/L		1	EPA 300.0	05/15/2015 1606	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	05/16/2015 434	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1441	AMB
Sulfate	360	mg/L		1	EPA 300.0	05/15/2015 1606	AB
Calcium	6	mg/L		1	EPA 200.7	05/16/2015 1404	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1404	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1404	DG
Sodium	480	mg/L		1	EPA 200.7	05/16/2015 1404	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 954	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 434	BT
Electrical Conductivity	2040	µmhos/cm		5	SM 2510B	05/16/2015 434	BT
Total Dissolved Solids (180)	1220	mg/L		10	SM 2540	05/15/2015 1458	BT
Data Quality							
Cation Sum	21.53	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	21.27	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	0.60	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1270	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-009
ClientSample ID: MU1-PM12
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 5:10:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1404	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	05/15/2015 2213	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2213	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1404	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2213	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1404	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2213	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1404	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2213	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1150	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2213	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1404	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2213	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2213	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/15/2015 2213	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2213	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1404	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1931	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/19/2015 646	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 646	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-009
ClientSample ID: MU1-PM12
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 5:10:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/03/2015 1950	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/03/2015 1950	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1540	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1540	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1748	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1748	MB
Radionuclides - Total							
Radon 222	679	pCi/L		100	ASTM D5072-09	05/15/2015 1847	WN
Radon-222 Precision (±)	23.6	pCi/L			ASTM D5072-09	05/15/2015 1847	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-010
ClientSample ID: MU1-PM12 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 5:15:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	652	mg/L		5	SM 2320B	05/16/2015 511	BT
Alkalinity, Bicarbonate as HCO3	708	mg/L		5	SM 2320B	05/16/2015 511	BT
Alkalinity, Carbonate as CO3	43	mg/L		5	SM 2320B	05/16/2015 511	BT
Chloride	4	mg/L		1	EPA 300.0	05/15/2015 1620	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	05/16/2015 511	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1442	AMB
Sulfate	351	mg/L		1	EPA 300.0	05/15/2015 1620	AB
Calcium	6	mg/L		1	EPA 200.7	05/16/2015 1406	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1406	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1406	DG
Sodium	485	mg/L		1	EPA 200.7	05/16/2015 1406	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/22/2015 1058	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 511	BT
Electrical Conductivity	2050	µmhos/cm		5	SM 2510B	05/16/2015 511	BT
Total Dissolved Solids (180)	1210	mg/L		10	SM 2540	05/15/2015 1500	BT
Data Quality							
Cation Sum	21.71	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	20.50	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	2.86	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1250	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-010
ClientSample ID: MU1-PM12 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 5:15:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1406	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	05/15/2015 2219	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2219	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1406	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2219	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1406	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2219	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1406	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2219	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1152	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2219	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1406	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2219	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2219	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/15/2015 2219	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2219	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1406	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1937	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/19/2015 655	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 655	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-010
ClientSample ID: MU1-PM12 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 5:15:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/03/2015 2251	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/03/2015 2251	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 2200	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 2200	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1540	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1540	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1748	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1748	MB
Radionuclides - Total							
Radon 222	662	pCi/L		100	ASTM D5072-09	05/15/2015 1922	WN
Radon-222 Precision (±)	23.2	pCi/L			ASTM D5072-09	05/15/2015 1922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-005
ClientSample ID: PM-13
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 2:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.35	s.u.			Field	05/13/2015 1455	
Conductivity	1936	µmhos/cm			Field	05/13/2015 1455	
Dissolved Oxygen	0.22	mg/L			Field	05/13/2015 1455	
Turbidity	6.53	NTU			Field	05/13/2015 1455	
Depth to Water	67.13	ft			Field	05/13/2015 1455	
Temperature	10.7	℃			Field	05/13/2015 1455	
Oxygen Reduction Potential (ORP)	-200.6	mV			Field	05/13/2015 1455	
Anions/Cations							
Alkalinity, Total (As CaCO3)	681	mg/L		5	SM 2320B	05/16/2015 015	BT
Alkalinity, Bicarbonate as HCO3	750	mg/L		5	SM 2320B	05/16/2015 015	BT
Alkalinity, Carbonate as CO3	40	mg/L		5	SM 2320B	05/16/2015 015	BT
Chloride	4	mg/L		1	EPA 300.0	05/16/2015 545	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	05/16/2015 015	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1357	AMB
Sulfate	281	mg/L		1	EPA 300.0	05/16/2015 545	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1259	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1259	DG
Potassium	4	mg/L		1	EPA 200.7	05/16/2015 1259	DG
Sodium	474	mg/L		1	EPA 200.7	05/16/2015 1259	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 923	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/16/2015 015	BT
Electrical Conductivity	1960	µmhos/cm		5	SM 2510B	05/16/2015 015	BT
Total Dissolved Solids (180)	1180	mg/L		10	SM 2540	05/15/2015 1440	BT
Data Quality							
Cation Sum	21.19	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	19.62	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	3.84	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1180	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-005
ClientSample ID: PM-13
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 2:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1259	DG
Arsenic	0.017	mg/L		0.005	EPA 200.8	05/15/2015 1926	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1926	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1259	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1926	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1259	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1926	MS
Iron	0.05	mg/L		0.05	EPA 200.7	05/16/2015 1259	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1926	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1054	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1926	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1259	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1926	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1926	MS
Uranium	0.0023	mg/L		0.0003	EPA 200.8	05/15/2015 1926	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1926	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1259	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2014	MS
Metals - Total							
Iron	0.11	mg/L		0.05	EPA 200.7	05/19/2015 528	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 528	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-005
ClientSample ID: PM-13
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 2:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.4	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	2.4	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	1.0	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 620	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 620	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1243	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1243	MB
Radionuclides - Suspended							
Lead 210	2.3	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 958	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 958	MB
Radionuclides - Total							
Radon 222	1520	pCi/L		100	ASTM D5072-09	05/15/2015 2129	WN
Radon-222 Precision (±)	37.6	pCi/L			ASTM D5072-09	05/15/2015 2129	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-006
ClientSample ID: PM-13 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 2:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	681	mg/L		5	SM 2320B	05/16/2015 027	BT
Alkalinity, Bicarbonate as HCO3	752	mg/L		5	SM 2320B	05/16/2015 027	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/16/2015 027	BT
Chloride	4	mg/L		1	EPA 300.0	05/16/2015 722	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	05/16/2015 027	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1359	AMB
Sulfate	280	mg/L		1	EPA 300.0	05/16/2015 722	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1301	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1301	DG
Potassium	4	mg/L		1	EPA 200.7	05/16/2015 1301	DG
Sodium	473	mg/L		1	EPA 200.7	05/16/2015 1301	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 925	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/16/2015 027	BT
Electrical Conductivity	1950	µmhos/cm		5	SM 2510B	05/16/2015 027	BT
Total Dissolved Solids (180)	1180	mg/L		10	SM 2540	05/15/2015 1441	BT
Data Quality							
Cation Sum	21.16	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	19.60	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	3.83	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1180	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-006
ClientSample ID: PM-13 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 2:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1301	DG
Arsenic	0.018	mg/L		0.005	EPA 200.8	05/15/2015 1932	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1932	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1301	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1932	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1301	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1932	MS
Iron	0.06	mg/L		0.05	EPA 200.7	05/16/2015 1301	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1932	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1056	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1932	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1301	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1932	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1932	MS
Uranium	0.0024	mg/L		0.0003	EPA 200.8	05/15/2015 1932	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1932	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1301	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2035	MS
Metals - Total							
Iron	0.11	mg/L		0.05	EPA 200.7	05/19/2015 530	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 530	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-006
ClientSample ID: PM-13 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 2:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	4.1	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	2.4	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	2.0	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 821	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 821	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1647	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1647	MB
Radionuclides - Suspended							
Lead 210	2.2	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	1.2	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	1380	pCi/L		100	ASTM D5072-09	05/15/2015 2205	WN
Radon-222 Precision (±)	35.9	pCi/L			ASTM D5072-09	05/15/2015 2205	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-003
ClientSample ID: MU1 PM14A
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:50:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.44	s.u.			Field	05/14/2015 1450	
Conductivity	1916	µmhos/cm			Field	05/14/2015 1450	
Dissolved Oxygen	2.49	mg/L			Field	05/14/2015 1450	
Turbidity	3.72	NTU			Field	05/14/2015 1450	
Temperature	12.7	℃			Field	05/14/2015 1450	
Oxygen Reduction Potential (ORP)	+109	mV			Field	05/14/2015 1450	
Anions/Cations							
Alkalinity, Total (As CaCO3)	580	mg/L		5	SM 2320B	05/15/2015 2118	BT
Alkalinity, Bicarbonate as HCO3	637	mg/L		5	SM 2320B	05/15/2015 2118	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	05/15/2015 2118	BT
Chloride	6	mg/L		1	EPA 300.0	05/16/2015 341	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/15/2015 2118	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1335	AMB
Sulfate	561	mg/L		1	EPA 300.0	05/16/2015 341	AB
Calcium	12	mg/L		1	EPA 200.7	05/16/2015 1207	DG
Magnesium	7	mg/L		1	EPA 200.7	05/16/2015 1207	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1207	DG
Sodium	561	mg/L		1	EPA 200.7	05/16/2015 1207	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/22/2015 903	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 2118	BT
Electrical Conductivity	2370	µmhos/cm		5	SM 2510B	05/15/2015 2118	BT
Total Dissolved Solids (180)	1510	mg/L		10	SM 2540	05/15/2015 1427	BT
Data Quality							
Cation Sum	25.79	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Anion Sum	23.46	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Cation-Anion Balance (± 5%)	4.74	%		0.01	SM 1030E	05/26/2015 1543	JJ
Solids, Total Dissolved (Calc)	1500	mg/L		10	SM 1030E	05/26/2015 1543	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-003
ClientSample ID: MU1 PM14A
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:50:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1207	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1800	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1800	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1207	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1800	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1207	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1800	MS
Iron	0.08	mg/L		0.05	EPA 200.7	05/16/2015 1207	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1800	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1019	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1800	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1207	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1800	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1800	MS
Uranium	0.0045	mg/L		0.0003	EPA 200.8	05/15/2015 1800	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1800	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1207	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1748	MS
Metals - Total							
Iron	0.14	mg/L		0.05	EPA 200.7	05/19/2015 426	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 426	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-003
ClientSample ID: MU1 PM14A
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:50:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	16.8	pCi/L		2	SM 7110B	05/28/2015 2207	MB
Gross Alpha Precision (±)	3.3	pCi/L			SM 7110B	05/28/2015 2207	MB
Gross Beta	9.9	pCi/L		3	SM 7110B	05/28/2015 2207	MB
Gross Beta Precision (±)	2.8	pCi/L			SM 7110B	05/28/2015 2207	MB
Lead 210	1.1	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	2.9	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/29/2015 557	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/29/2015 557	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1521	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1521	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 803	MB
Radionuclides - Total							
Radon 222	3430	pCi/L		100	ASTM D5072-09	05/17/2015 041	WN
Radon-222 Precision (±)	68.5	pCi/L			ASTM D5072-09	05/17/2015 041	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-007
ClientSample ID: PM-15
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 4:24:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.13	s.u.			Field	05/13/2015 1624	
Conductivity	2243	µmhos/cm			Field	05/13/2015 1624	
Dissolved Oxygen	0.10	mg/L			Field	05/13/2015 1624	
Turbidity	2.06	NTU			Field	05/13/2015 1624	
Depth to Water	73.58	ft			Field	05/13/2015 1624	
Temperature	10.8	℃			Field	05/13/2015 1624	
Oxygen Reduction Potential (ORP)	-196.1	mV			Field	05/13/2015 1624	
Anions/Cations							
Alkalinity, Total (As CaCO3)	621	mg/L		5	SM 2320B	05/16/2015 041	BT
Alkalinity, Bicarbonate as HCO3	704	mg/L		5	SM 2320B	05/16/2015 041	BT
Alkalinity, Carbonate as CO3	26	mg/L		5	SM 2320B	05/16/2015 041	BT
Chloride	7	mg/L		1	EPA 300.0	05/16/2015 736	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 041	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1400	AMB
Sulfate	549	mg/L		1	EPA 300.0	05/16/2015 736	AB
Calcium	21	mg/L		1	EPA 200.7	05/16/2015 1303	DG
Magnesium	12	mg/L		1	EPA 200.7	05/16/2015 1303	DG
Potassium	9	mg/L		1	EPA 200.7	05/16/2015 1303	DG
Sodium	517	mg/L		1	EPA 200.7	05/16/2015 1303	DG
Nitrogen, Ammonia (As N)	0.9	mg/L		0.1	EPA 350.1	05/22/2015 926	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/16/2015 041	BT
Electrical Conductivity	2300	µmhos/cm		5	SM 2510B	05/16/2015 041	BT
Total Dissolved Solids (180)	1460	mg/L		10	SM 2540	05/15/2015 1442	BT
Data Quality							
Cation Sum	24.77	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	24.05	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	1.48	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1490	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-007
ClientSample ID: PM-15
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 4:24:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1303	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1937	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1937	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1303	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1937	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1303	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1937	MS
Iron	0.20	mg/L		0.05	EPA 200.7	05/16/2015 1303	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1937	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1058	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1937	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1303	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1937	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1937	MS
Uranium	0.0350	mg/L		0.0003	EPA 200.8	05/15/2015 1937	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1937	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1303	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2041	MS
Metals - Total							
Iron	0.24	mg/L		0.05	EPA 200.7	05/19/2015 533	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 533	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-007
ClientSample ID: PM-15
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 4:24:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	61.7	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	7.7	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	17.2	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	1.9	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	5.2	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 1022	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 1022	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1647	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1647	MB
Radionuclides - Suspended							
Lead 210	3.6	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	1.2	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	14400	pCi/L		100	ASTM D5072-09	05/15/2015 2211	WN
Radon-222 Precision (±)	288	pCi/L			ASTM D5072-09	05/15/2015 2211	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-008
ClientSample ID: PM-15 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 4:24:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	550	mg/L		5	SM 2320B	05/16/2015 053	BT
Alkalinity, Bicarbonate as HCO3	621	mg/L		5	SM 2320B	05/16/2015 053	BT
Alkalinity, Carbonate as CO3	25	mg/L		5	SM 2320B	05/16/2015 053	BT
Chloride	7	mg/L		1	EPA 300.0	05/16/2015 750	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/16/2015 053	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1411	AMB
Sulfate	552	mg/L		1	EPA 300.0	05/16/2015 750	AB
Calcium	21	mg/L		1	EPA 200.7	05/16/2015 1305	DG
Magnesium	12	mg/L		1	EPA 200.7	05/16/2015 1305	DG
Potassium	9	mg/L		1	EPA 200.7	05/16/2015 1305	DG
Sodium	518	mg/L		1	EPA 200.7	05/16/2015 1305	DG
Nitrogen, Ammonia (As N)	0.8	mg/L		0.1	EPA 350.1	05/22/2015 927	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/16/2015 053	BT
Electrical Conductivity	2300	µmhos/cm		5	SM 2510B	05/16/2015 053	BT
Total Dissolved Solids (180)	1460	mg/L		10	SM 2540	05/15/2015 1443	BT
Data Quality							
Cation Sum	24.83	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	22.71	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	4.45	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1450	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-008
ClientSample ID: PM-15 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 4:24:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1305	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2004	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2004	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/16/2015 1305	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2004	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1305	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2004	MS
Iron	0.20	mg/L		0.05	EPA 200.7	05/16/2015 1305	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2004	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1100	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2004	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1305	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2004	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2004	MS
Uranium	0.0374	mg/L		0.0003	EPA 200.8	05/15/2015 2004	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2004	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1305	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2046	MS
Metals - Total							
Iron	0.24	mg/L		0.05	EPA 200.7	05/19/2015 535	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 535	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-008
ClientSample ID: PM-15 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 4:24:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	55.9	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	7.2	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	24.1	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	6.4	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	2.0	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	4.8	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 1222	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 1222	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1647	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1647	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	1.3	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	14500	pCi/L		100	ASTM D5072-09	05/15/2015 2218	WN
Radon-222 Precision (±)	290	pCi/L			ASTM D5072-09	05/15/2015 2218	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-001
ClientSample ID: PM-16
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 9:38:00 AM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	05/15/2015 938	
Conductivity	2424	µmhos/cm			Field	05/15/2015 938	
Dissolved Oxygen	0.12	mg/L			Field	05/15/2015 938	
Turbidity	3.49	NTU			Field	05/15/2015 938	
Depth to Water	77.68	ft			Field	05/15/2015 938	
Temperature	10.7	℃			Field	05/15/2015 938	
Oxygen Reduction Potential (ORP)	-203.8	mV			Field	05/15/2015 938	
Anions/Cations							
Alkalinity, Total (As CaCO3)	646	mg/L		5	SM 2320B	05/22/2015 246	BT
Alkalinity, Bicarbonate as HCO3	671	mg/L		5	SM 2320B	05/22/2015 246	BT
Alkalinity, Carbonate as CO3	58	mg/L		5	SM 2320B	05/22/2015 246	BT
Chloride	5	mg/L		1	EPA 300.0	05/22/2015 1329	AB
Fluoride	1.3	mg/L		0.1	SM 4500FC	05/19/2015 2005	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1244	AMB
Sulfate	427	mg/L		1	EPA 300.0	05/22/2015 1329	AB
Calcium	5	mg/L		1	EPA 200.7	05/21/2015 1440	DG
Magnesium	3	mg/L		1	EPA 200.7	05/21/2015 1440	DG
Potassium	12	mg/L		1	EPA 200.7	05/18/2015 2105	DG
Sodium	510	mg/L		1	EPA 200.7	05/21/2015 1440	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/22/2015 825	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/22/2015 246	BT
Electrical Conductivity	2040	µmhos/cm		5	SM 2510B	05/22/2015 246	BT
Total Dissolved Solids (180)	1360	mg/L		10	SM 2540	05/18/2015 1702	BT
Data Quality							
Cation Sum	23.00	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Anion Sum	22.02	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Cation-Anion Balance (± 5%)	2.16	%		0.01	SM 1030E	05/26/2015 1243	JJ
Solids, Total Dissolved (Calc)	1350	mg/L		10	SM 1030E	05/26/2015 1243	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-001
ClientSample ID: PM-16
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 9:38:00 AM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2105	DG
Arsenic	0.015	mg/L		0.005	EPA 200.8	05/19/2015 035	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 035	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/18/2015 2105	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 035	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2105	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 035	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2105	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 035	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 923	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 035	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2105	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 035	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 035	MS
Uranium	0.0138	mg/L		0.0003	EPA 200.8	05/19/2015 035	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 035	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2105	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 2027	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/19/2015 2321	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2321	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-001
ClientSample ID: PM-16
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 9:38:00 AM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	13.9	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	3.7	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	32.7	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 957	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 957	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 851	MB
Radionuclides - Total							
Radon 222	3650	pCi/L		100	ASTM D5072-09	05/18/2015 1957	WN
Radon-222 Precision (±)	73.1	pCi/L			ASTM D5072-09	05/18/2015 1957	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-001
ClientSample ID: PM-17
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 11:10:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.28	s.u.			Field	05/13/2015 1110	
Conductivity	2162	µmhos/cm			Field	05/13/2015 1110	
Dissolved Oxygen	0.15	mg/L			Field	05/13/2015 1110	
Turbidity	1.91	NTU			Field	05/13/2015 1110	
Depth to Water	65.87	ft			Field	05/13/2015 1110	
Temperature	10.7	℃			Field	05/13/2015 1110	
Oxygen Reduction Potential (ORP)	-158.3	mV			Field	05/13/2015 1110	
Anions/Cations							
Alkalinity, Total (As CaCO3)	684	mg/L		5	SM 2320B	05/15/2015 2247	BT
Alkalinity, Bicarbonate as HCO3	757	mg/L		5	SM 2320B	05/15/2015 2247	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/15/2015 2247	BT
Chloride	5	mg/L		1	EPA 300.0	05/16/2015 450	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/15/2015 2247	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1351	AMB
Sulfate	417	mg/L		1	EPA 300.0	05/16/2015 450	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1236	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1236	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1236	DG
Sodium	551	mg/L		1	EPA 200.7	05/16/2015 1236	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 910	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 2247	BT
Electrical Conductivity	2260	µmhos/cm		5	SM 2510B	05/15/2015 2247	BT
Total Dissolved Solids (180)	1410	mg/L		10	SM 2540	05/15/2015 1435	BT
Data Quality							
Cation Sum	24.75	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	22.54	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	4.66	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1400	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-001
ClientSample ID: PM-17
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 11:10:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1236	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1904	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1904	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1236	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1904	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1236	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1904	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1236	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1904	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1033	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1904	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1236	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1904	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1904	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/15/2015 1904	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1904	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1236	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1941	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/19/2015 518	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 518	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-001
ClientSample ID: PM-17
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 11:10:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.7	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	2.6	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	3.5	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	4.9	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/06/2015 2216	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/06/2015 2216	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1243	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1243	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 958	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 958	MB
Radionuclides - Total							
Radon 222	912	pCi/L		100	ASTM D5072-09	05/15/2015 2005	WN
Radon-222 Precision (±)	28.5	pCi/L			ASTM D5072-09	05/15/2015 2005	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-002
ClientSample ID: PM-17 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 11:10:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	676	mg/L		5	SM 2320B	05/15/2015 2314	BT
Alkalinity, Bicarbonate as HCO3	748	mg/L		5	SM 2320B	05/15/2015 2314	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/15/2015 2314	BT
Chloride	5	mg/L		1	EPA 300.0	05/16/2015 504	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/15/2015 2314	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1353	AMB
Sulfate	416	mg/L		1	EPA 300.0	05/16/2015 504	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1238	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1238	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1238	DG
Sodium	514	mg/L		1	EPA 200.7	05/16/2015 1238	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 911	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 2314	BT
Electrical Conductivity	2250	µmhos/cm		5	SM 2510B	05/15/2015 2314	BT
Total Dissolved Solids (180)	1400	mg/L		10	SM 2540	05/15/2015 1436	BT
Data Quality							
Cation Sum	23.14	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	22.39	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	1.63	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1360	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-002
ClientSample ID: PM-17 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 11:10:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1238	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1910	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1910	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1238	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1910	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1238	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1910	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1238	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1910	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1035	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1910	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1238	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1910	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1910	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/15/2015 1910	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1910	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1238	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1947	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/19/2015 521	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 521	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-002
ClientSample ID: PM-17 Dup
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/13/2015 11:10:00 AM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.1	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	2.8	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	4.8	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	5.3	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 017	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 017	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1243	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1243	MB
Radionuclides - Suspended							
Lead 210	2.4	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	1.1	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 958	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 958	MB
Radionuclides - Total							
Radon 222	817	pCi/L		100	ASTM D5072-09	05/15/2015 2041	WN
Radon-222 Precision (±)	26.9	pCi/L			ASTM D5072-09	05/15/2015 2041	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-003
ClientSample ID: MU1-PM18
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 12:44:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.4	s.u.			Field	05/13/2015 1244	
Conductivity	1739	µmhos/cm			Field	05/13/2015 1244	
Dissolved Oxygen	0.75	mg/L			Field	05/13/2015 1244	
Turbidity	1.76	NTU			Field	05/13/2015 1244	
Depth to Water	73.78	ft			Field	05/13/2015 1244	
Temperature	10.7	℃			Field	05/13/2015 1244	
Oxygen Reduction Potential (ORP)	-185.7	mV			Field	05/13/2015 1244	
Anions/Cations							
Alkalinity, Total (As CaCO3)	673	mg/L		5	SM 2320B	05/18/2015 1228	BT
Alkalinity, Bicarbonate as HCO3	753	mg/L		5	SM 2320B	05/18/2015 1228	BT
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	05/18/2015 1228	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 2146	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/18/2015 1228	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1511	AMB
Sulfate	421	mg/L		1	EPA 300.0	05/15/2015 2146	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 1317	DG
Magnesium	3	mg/L		1	EPA 200.7	05/18/2015 1317	DG
Potassium	5	mg/L		1	EPA 200.7	05/18/2015 1317	DG
Sodium	548	mg/L		1	EPA 200.7	05/18/2015 1317	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 1123	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/18/2015 1228	BT
Electrical Conductivity	2100	µmhos/cm		5	SM 2510B	05/18/2015 1228	BT
Total Dissolved Solids (180)	1340	mg/L		10	SM 2540	05/15/2015 1514	BT
Data Quality							
Cation Sum	24.56	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Anion Sum	22.41	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Cation-Anion Balance (± 5%)	4.57	%		0.01	SM 1030E	05/28/2015 1457	JJ
Solids, Total Dissolved (Calc)	1390	mg/L		10	SM 1030E	05/28/2015 1457	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-003
ClientSample ID: MU1-PM18
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 12:44:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1317	DG
Arsenic	0.008	mg/L		0.005	EPA 200.8	05/16/2015 018	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/16/2015 018	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/18/2015 1317	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/16/2015 018	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1317	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/16/2015 018	MS
Iron	0.05	mg/L		0.05	EPA 200.7	05/18/2015 1317	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/16/2015 018	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1227	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/16/2015 018	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1317	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/16/2015 018	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/16/2015 018	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/16/2015 018	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/16/2015 018	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1317	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1447	MS
Metals - Total							
Iron	0.09	mg/L		0.05	EPA 200.7	05/19/2015 2036	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2036	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-003
ClientSample ID: MU1-PM18
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 12:44:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.4	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	2.0	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	5.7	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/08/2015 1708	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/08/2015 1708	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	855	pCi/L		100	ASTM D5072-09	05/16/2015 123	WN
Radon-222 Precision (±)	27.9	pCi/L			ASTM D5072-09	05/16/2015 123	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-004
ClientSample ID: MU1-PM18 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 12:49:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	746	mg/L		5	SM 2320B	05/20/2015 1935	BT
Alkalinity, Bicarbonate as HCO3	811	mg/L		5	SM 2320B	05/20/2015 1935	BT
Alkalinity, Carbonate as CO3	49	mg/L		5	SM 2320B	05/20/2015 1935	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 2159	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	05/18/2015 1241	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1512	AMB
Sulfate	423	mg/L		1	EPA 300.0	05/15/2015 2159	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 1319	DG
Magnesium	3	mg/L		1	EPA 200.7	05/18/2015 1319	DG
Potassium	5	mg/L		1	EPA 200.7	05/18/2015 1319	DG
Sodium	516	mg/L		1	EPA 200.7	05/21/2015 1502	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 1125	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/20/2015 1935	BT
Electrical Conductivity	2110	µmhos/cm		5	SM 2510B	05/18/2015 1241	BT
Total Dissolved Solids (180)	1350	mg/L		10	SM 2540	05/15/2015 1515	BT
Data Quality							
Cation Sum	23.16	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Anion Sum	23.91	meq/L		0.01	SM 1030E	05/28/2015 1457	JJ
Cation-Anion Balance (± 5%)	1.59	%		0.01	SM 1030E	05/28/2015 1457	JJ
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	05/28/2015 1457	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-004
ClientSample ID: MU1-PM18 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 12:49:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1319	DG
Arsenic	0.008	mg/L		0.005	EPA 200.8	05/16/2015 023	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/16/2015 023	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/18/2015 1319	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/16/2015 023	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1319	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/16/2015 023	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1319	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/16/2015 023	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1229	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/16/2015 023	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1319	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/16/2015 023	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/16/2015 023	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/16/2015 023	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/16/2015 023	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1319	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1519	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	05/19/2015 2045	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2045	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505231001

ProjectName: Ross MU1 ISR
Lab ID: S1505231-004
ClientSample ID: MU1-PM18 DUP
COC: 159798

WorkOrder: S1505231
CollectionDate: 5/13/2015 12:49:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: JP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	4.7	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1559	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1559	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1310	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1310	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/08/2015 1908	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/08/2015 1908	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	06/10/2015 1132	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/10/2015 1132	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1459	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1459	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	527	pCi/L		100	ASTM D5072-09	05/16/2015 159	WN
Radon-222 Precision (±)	21.0	pCi/L			ASTM D5072-09	05/16/2015 159	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-001
ClientSample ID: MU1-PM19
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 10:08:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.28	s.u.			Field	05/15/2015 1008	
Conductivity	2142	µmhos/cm			Field	05/15/2015 1008	
Dissolved Oxygen	0.07	mg/L			Field	05/15/2015 1008	
Turbidity	1.48	NTU			Field	05/15/2015 1008	
Depth to Water	71.82	ft			Field	05/15/2015 1008	
Temperature	11.0	℃			Field	05/15/2015 1008	
Oxygen Reduction Potential (ORP)	-192.1	mV			Field	05/15/2015 1008	
Anions/Cations							
Alkalinity, Total (As CaCO3)	695	mg/L		5	SM 2320B	05/19/2015 1728	BT
Alkalinity, Bicarbonate as HCO3	775	mg/L		5	SM 2320B	05/19/2015 1728	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/19/2015 1728	BT
Chloride	5	mg/L		1	EPA 300.0	05/19/2015 1648	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/19/2015 1728	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1221	AMB
Sulfate	499	mg/L		1	EPA 300.0	05/19/2015 1648	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 2017	DG
Magnesium	3	mg/L		1	EPA 200.7	05/18/2015 2017	DG
Potassium	5	mg/L		1	EPA 200.7	05/18/2015 2017	DG
Sodium	591	mg/L		1	EPA 200.7	05/18/2015 2017	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/21/2015 1520	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/19/2015 1728	BT
Electrical Conductivity	2200	µmhos/cm		5	SM 2510B	05/19/2015 1728	BT
Total Dissolved Solids (180)	1500	mg/L		10	SM 2540	05/18/2015 1651	BT
Data Quality							
Cation Sum	26.48	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Anion Sum	24.48	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Cation-Anion Balance (± 5%)	3.92	%		0.01	SM 1030E	05/26/2015 1622	JJ
Solids, Total Dissolved (Calc)	1530	mg/L		10	SM 1030E	05/26/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-001
ClientSample ID: MU1-PM19
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 10:08:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2017	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	05/18/2015 2303	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2303	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/18/2015 2017	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2303	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2017	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2303	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2017	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2303	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 843	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2303	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2017	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2303	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2303	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/18/2015 2303	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2303	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2017	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2036	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	05/19/2015 2233	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2233	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-001
ClientSample ID: MU1-PM19
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 10:08:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	8.9	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/10/2015 2000	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/10/2015 2000	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1325	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1325	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 813	MB
Radionuclides - Total							
Radon 222	377	pCi/L		100	ASTM D5072-09	05/17/2015 1602	WN
Radon-222 Precision (±)	16.8	pCi/L			ASTM D5072-09	05/17/2015 1602	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-004
ClientSample ID: SM-1
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 3:41:00 PM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.62	s.u.			Field	05/15/2015 1541	
Conductivity	1406	µmhos/cm			Field	05/15/2015 1541	
Dissolved Oxygen	2.00	mg/L			Field	05/15/2015 1541	
Turbidity	5.74	NTU			Field	05/15/2015 1541	
Depth to Water	60.59	ft			Field	05/15/2015 1541	
Temperature	10.8	℃			Field	05/15/2015 1541	
Oxygen Reduction Potential (ORP)	+39.4	mV			Field	05/15/2015 1541	
Anions/Cations							
Alkalinity, Total (As CaCO3)	557	mg/L		5	SM 2320B	05/19/2015 2041	BT
Alkalinity, Bicarbonate as HCO3	602	mg/L		5	SM 2320B	05/19/2015 2041	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/19/2015 2041	BT
Chloride	5	mg/L		1	EPA 300.0	05/22/2015 1409	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/19/2015 2041	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1248	AMB
Sulfate	176	mg/L		1	EPA 300.0	05/22/2015 1409	AB
Calcium	3	mg/L		1	EPA 200.7	05/21/2015 1446	DG
Magnesium	1	mg/L		1	EPA 200.7	05/21/2015 1446	DG
Potassium	5	mg/L		1	EPA 200.7	05/21/2015 1446	DG
Sodium	329	mg/L		1	EPA 200.7	05/21/2015 1446	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 829	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/19/2015 2041	BT
Electrical Conductivity	1360	µmhos/cm		5	SM 2510B	05/22/2015 314	BT
Total Dissolved Solids (180)	860	mg/L		10	SM 2540	05/18/2015 1705	BT
Data Quality							
Cation Sum	14.71	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Anion Sum	14.94	meq/L		0.01	SM 1030E	05/26/2015 1243	JJ
Cation-Anion Balance (± 5%)	0.79	%		0.01	SM 1030E	05/26/2015 1243	JJ
Solids, Total Dissolved (Calc)	850	mg/L		10	SM 1030E	05/26/2015 1243	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-004
ClientSample ID: SM-1
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 3:41:00 PM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2112	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/19/2015 052	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 052	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 2112	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 052	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2112	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 052	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2112	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 052	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 929	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 052	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2112	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 052	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 052	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/19/2015 052	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 052	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2112	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1815	MS
Metals - Total							
Iron	0.16	mg/L		0.05	EPA 200.7	05/19/2015 2341	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2341	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505268001

ProjectName: Ross
Lab ID: S1505268-004
ClientSample ID: SM-1
COC: 160017

WorkOrder: S1505268
CollectionDate: 5/15/2015 3:41:00 PM
DateReceived: 5/16/2015 12:25:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	11.4	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	3.8	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	6.2	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	4.1	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 1900	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 1900	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1521	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1521	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 803	MB
Radionuclides - Total							
Radon 222	492	pCi/L		100	ASTM D5072-09	05/18/2015 2105	WN
Radon-222 Precision (±)	21.3	pCi/L			ASTM D5072-09	05/18/2015 2105	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-001
ClientSample ID: MU1-SM-2
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 9:51:00 AM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.94	s.u.			Field	05/15/2015 951	
Conductivity	1387	µmhos/cm			Field	05/15/2015 951	
Dissolved Oxygen	0.95	mg/L			Field	05/15/2015 951	
Turbidity	2.99	NTU			Field	05/15/2015 951	
Depth to Water	52.30	ft			Field	05/15/2015 951	
Temperature	10.57	℃			Field	05/15/2015 951	
Oxygen Reduction Potential (ORP)	-232.2	mV			Field	05/15/2015 951	
Anions/Cations							
Alkalinity, Total (As CaCO3)	671	mg/L		5	SM 2320B	05/19/2015 1441	BT
Alkalinity, Bicarbonate as HCO3	717	mg/L		5	SM 2320B	05/19/2015 1441	BT
Alkalinity, Carbonate as CO3	50	mg/L		5	SM 2320B	05/19/2015 1441	BT
Chloride	4	mg/L		1	EPA 300.0	05/19/2015 1351	AB
Fluoride	1.3	mg/L		0.1	SM 4500FC	05/19/2015 1441	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1500	AMB
Sulfate	297	mg/L		1	EPA 300.0	05/19/2015 1351	AB
Calcium	3	mg/L		1	EPA 200.7	05/18/2015 1938	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 1938	DG
Potassium	11	mg/L		1	EPA 200.7	05/18/2015 1938	DG
Sodium	475	mg/L		1	EPA 200.7	05/18/2015 1938	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/21/2015 1328	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/19/2015 1441	BT
Electrical Conductivity	1830	µmhos/cm		5	SM 2510B	05/19/2015 1441	BT
Total Dissolved Solids (180)	1220	mg/L		10	SM 2540	05/18/2015 1640	BT
Data Quality							
Cation Sum	21.31	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Anion Sum	19.79	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Cation-Anion Balance (± 5%)	3.67	%		0.01	SM 1030E	05/26/2015 1558	JJ
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	05/26/2015 1558	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-001
ClientSample ID: MU1-SM-2
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 9:51:00 AM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	05/18/2015 1938	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2131	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2131	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 1938	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2131	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1938	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2131	MS
Iron	0.08	mg/L		0.05	EPA 200.7	05/18/2015 1938	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2131	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1356	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2131	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1938	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2131	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2131	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/18/2015 2131	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2131	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1938	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 1904	MS
Metals - Total							
Iron	2.39	mg/L		0.05	EPA 200.7	05/19/2015 2157	DG
Manganese	0.03	mg/L		0.02	EPA 200.7	05/19/2015 2157	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-001
ClientSample ID: MU1-SM-2
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 9:51:00 AM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	8.4	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 1919	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 1919	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1354	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1354	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1324	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/11/2015 1324	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 829	MB
Radionuclides - Total							
Radon 222	451	pCi/L		100	ASTM D5072-09	05/17/2015 1023	WN
Radon-222 Precision (±)	18.5	pCi/L			ASTM D5072-09	05/17/2015 1023	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-010
ClientSample ID: SM-3
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 12:04:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.32	s.u.			Field	05/14/2015 1204	
Conductivity	1850	µmhos/cm			Field	05/14/2015 1204	
Dissolved Oxygen	0.13	mg/L			Field	05/14/2015 1204	
Turbidity	4.82	NTU			Field	05/14/2015 1204	
Depth to Water	62.67	ft			Field	05/14/2015 1204	
Temperature	10.9	℃			Field	05/14/2015 1204	
Oxygen Reduction Potential (ORP)	-187.3	mV			Field	05/14/2015 1204	
Anions/Cations							
Alkalinity, Total (As CaCO3)	641	mg/L		5	SM 2320B	05/16/2015 116	BT
Alkalinity, Bicarbonate as HCO3	707	mg/L		5	SM 2320B	05/16/2015 116	BT
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	05/16/2015 116	BT
Chloride	4	mg/L		1	EPA 300.0	05/16/2015 818	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/16/2015 116	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1414	AMB
Sulfate	325	mg/L		1	EPA 300.0	05/16/2015 818	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1312	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1312	DG
Potassium	5	mg/L		1	EPA 200.7	05/16/2015 1312	DG
Sodium	473	mg/L		1	EPA 200.7	05/16/2015 1312	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 930	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 116	BT
Electrical Conductivity	1990	µmhos/cm		5	SM 2510B	05/16/2015 116	BT
Total Dissolved Solids (180)	1280	mg/L		10	SM 2540	05/20/2015 1039	AB
Data Quality							
Cation Sum	21.18	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	19.75	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	3.50	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-010
ClientSample ID: SM-3
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 12:04:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1312	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2030	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2030	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1312	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2030	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1312	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2030	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1312	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2030	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1104	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2030	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1312	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2030	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2030	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/15/2015 2030	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2030	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1312	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2108	MS
Metals - Total							
Iron	0.10	mg/L		0.05	EPA 200.7	05/19/2015 549	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 549	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-010
ClientSample ID: SM-3
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 12:04:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.7	pCi/L		2	SM 7110B	05/26/2015 2122	MB
Gross Alpha Precision (±)	2.3	pCi/L			SM 7110B	05/26/2015 2122	MB
Gross Beta	5.0	pCi/L		3	SM 7110B	05/26/2015 2122	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/26/2015 2122	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	1.6	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 1624	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 1624	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	13.8	pCi/L		1	OTW01	06/09/2015 1703	MB
Lead 210 (Suspended) Precision (±)	1.5	pCi/L			OTW01	06/09/2015 1703	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 2022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	1950	pCi/L		100	ASTM D5072-09	05/15/2015 2254	WN
Radon-222 Precision (±)	40.3	pCi/L			ASTM D5072-09	05/15/2015 2254	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-004
ClientSample ID: MU1 SM 4
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 1:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.42	s.u.			Field	05/13/2015 1355	
Conductivity	1489	µmhos/cm			Field	05/13/2015 1355	
Dissolved Oxygen	2.36	mg/L			Field	05/13/2015 1355	
Turbidity	2.55	NTU			Field	05/13/2015 1355	
Temperature	11.4	℃			Field	05/13/2015 1355	
Oxygen Reduction Potential (ORP)	-200	mV			Field	05/13/2015 1355	
Anions/Cations							
Alkalinity, Total (As CaCO3)	710	mg/L		5	SM 2320B	05/15/2015 1927	BT
Alkalinity, Bicarbonate as HCO3	793	mg/L		5	SM 2320B	05/15/2015 1927	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/15/2015 1927	BT
Chloride	4	mg/L		1	EPA 300.0	05/16/2015 041	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	05/15/2015 1927	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1326	AMB
Sulfate	284	mg/L		1	EPA 300.0	05/16/2015 041	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1140	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1140	DG
Potassium	5	mg/L		1	EPA 200.7	05/16/2015 1140	DG
Sodium	459	mg/L		1	EPA 200.7	05/16/2015 1140	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/22/2015 847	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 1927	BT
Electrical Conductivity	1910	µmhos/cm		5	SM 2510B	05/15/2015 1927	BT
Total Dissolved Solids (180)	1180	mg/L		10	SM 2540	05/15/2015 1421	BT
Data Quality							
Cation Sum	20.56	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Anion Sum	20.25	meq/L		0.01	SM 1030E	05/26/2015 1535	JJ
Cation-Anion Balance (± 5%)	0.75	%		0.01	SM 1030E	05/26/2015 1535	JJ
Solids, Total Dissolved (Calc)	1180	mg/L		10	SM 1030E	05/26/2015 1535	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-004
ClientSample ID: MU1 SM 4
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 1:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1140	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1700	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1700	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1140	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1700	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1140	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1700	MS
Iron	0.05	mg/L		0.05	EPA 200.7	05/16/2015 1140	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1700	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 958	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1700	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1140	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1700	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1700	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/15/2015 1700	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1700	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1140	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 1919	MS
Metals - Total							
Iron	0.09	mg/L		0.05	EPA 200.7	05/19/2015 350	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 350	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505223001

ProjectName: ROSS MU1 ISR
Lab ID: S1505223-004
ClientSample ID: MU1 SM 4
COC: 158857 158859 15286

WorkOrder: S1505223
CollectionDate: 5/13/2015 1:55:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/26/2015 1517	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/26/2015 1517	MB
Gross Beta	5.6	pCi/L		3	SM 7110B	05/26/2015 1517	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	05/26/2015 1517	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1312	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1312	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1848	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1848	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 836	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 836	MB
Radium 228	1.0	pCi/L		1	Ga-Tech	06/06/2015 1814	MB
Radium 228 Precision (±)	1.2	pCi/L			Ga-Tech	06/06/2015 1814	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 1243	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 1243	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 1315	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/09/2015 1917	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1917	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1538	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1538	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1256	MB
Radionuclides - Total							
Radon 222	593	pCi/L		100	ASTM D5072-09	05/15/2015 1515	WN
Radon-222 Precision (±)	21.8	pCi/L			ASTM D5072-09	05/15/2015 1515	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-013
ClientSample ID: MU1-SM5
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 1:19:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	05/14/2015 1319	
Conductivity	1761	µmhos/cm			Field	05/14/2015 1319	
Dissolved Oxygen	0.27	mg/L			Field	05/14/2015 1319	
Turbidity	17.00	NTU			Field	05/14/2015 1319	
Depth to Water	71.01	ft			Field	05/14/2015 1319	
Temperature	10.9	℃			Field	05/14/2015 1319	
Oxygen Reduction Potential (ORP)	-208.0	mV			Field	05/14/2015 1319	
Anions/Cations							
Alkalinity, Total (As CaCO3)	628	mg/L		5	SM 2320B	05/16/2015 547	BT
Alkalinity, Bicarbonate as HCO3	680	mg/L		5	SM 2320B	05/16/2015 547	BT
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	05/16/2015 547	BT
Chloride	4	mg/L		1	EPA 300.0	05/15/2015 1808	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	05/16/2015 547	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1447	AMB
Sulfate	332	mg/L		1	EPA 300.0	05/15/2015 1808	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1426	DG
Magnesium	3	mg/L		1	EPA 200.7	05/16/2015 1426	DG
Potassium	5	mg/L		1	EPA 200.7	05/16/2015 1426	DG
Sodium	469	mg/L		1	EPA 200.7	05/16/2015 1426	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 1102	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 547	BT
Electrical Conductivity	1970	µmhos/cm		5	SM 2510B	05/16/2015 547	BT
Total Dissolved Solids (180)	1170	mg/L		10	SM 2540	05/15/2015 1503	BT
Data Quality							
Cation Sum	21.00	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	19.62	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	3.39	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	1190	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-013
ClientSample ID: MU1-SM5
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 1:19:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1426	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2235	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2235	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1426	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2235	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1426	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2235	MS
Iron	0.05	mg/L		0.05	EPA 200.7	05/16/2015 1426	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2235	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1158	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2235	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1426	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2235	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2235	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/15/2015 2235	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2235	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1426	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1326	MS
Metals - Total							
Iron	0.32	mg/L		0.05	EPA 200.7	05/19/2015 709	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 709	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-013
ClientSample ID: MU1-SM5
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/14/2015 1:19:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.1	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	2.7	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	6.0	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/02/2015 1050	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1050	MB
Polonium 210	ND	pCi/L		1	OTW01	06/01/2015 1745	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1745	MB
Radium 226	1.5	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 754	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 754	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 811	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1722	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1722	MB
Radionuclides - Total							
Radon 222	840	pCi/L		100	ASTM D5072-09	05/17/2015 355	WN
Radon-222 Precision (±)	27.9	pCi/L			ASTM D5072-09	05/17/2015 355	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-001
ClientSample ID: MU1 SM6
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 11:03:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.55	s.u.			Field	05/15/2015 1103	
Conductivity	1483	µmhos/cm			Field	05/15/2015 1103	
Dissolved Oxygen	2.13	mg/L			Field	05/15/2015 1103	
Turbidity	8.47	NTU			Field	05/15/2015 1103	
Temperature	10.7	℃			Field	05/15/2015 1103	
Oxygen Reduction Potential (ORP)	-163	mV			Field	05/15/2015 1103	
Anions/Cations							
Alkalinity, Total (As CaCO3)	658	mg/L		5	SM 2320B	05/19/2015 1608	BT
Alkalinity, Bicarbonate as HCO3	717	mg/L		5	SM 2320B	05/19/2015 1608	BT
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	05/19/2015 1608	BT
Chloride	5	mg/L		1	EPA 300.0	05/19/2015 500	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	05/19/2015 1608	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1201	AMB
Sulfate	352	mg/L		1	EPA 300.0	05/19/2015 500	AB
Calcium	3	mg/L		1	EPA 200.7	05/18/2015 2001	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 2001	DG
Potassium	9	mg/L		1	EPA 200.7	05/18/2015 2001	DG
Sodium	498	mg/L		1	EPA 200.7	05/18/2015 2001	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/21/2015 1512	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/19/2015 1608	BT
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	05/19/2015 1608	BT
Total Dissolved Solids (180)	1240	mg/L		10	SM 2540	05/18/2015 1644	BT
Data Quality							
Cation Sum	22.25	meq/L		0.01	SM 1030E	05/26/2015 1601	JJ
Anion Sum	20.66	meq/L		0.01	SM 1030E	05/26/2015 1601	JJ
Cation-Anion Balance (± 5%)	3.69	%		0.01	SM 1030E	05/26/2015 1601	JJ
Solids, Total Dissolved (Calc)	1260	mg/L		10	SM 1030E	05/26/2015 1601	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-001
ClientSample ID: MU1 SM6
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 11:03:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2001	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	05/18/2015 2204	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2204	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 2001	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2204	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2001	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2204	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2001	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2204	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1407	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2204	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2001	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2204	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2204	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/18/2015 2204	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2204	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2001	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 1953	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	05/19/2015 2220	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2220	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-001
ClientSample ID: MU1 SM6
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 11:03:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/28/2015 1604	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/28/2015 1604	MB
Gross Beta	16.3	pCi/L		3	SM 7110B	05/28/2015 1604	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/28/2015 1604	MB
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 1958	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 1958	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1324	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1324	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/08/2015 1529	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/08/2015 1529	MB
Radionuclides - Total							
Radon 222	317	pCi/L		100	ASTM D5072-09	05/17/2015 1229	WN
Radon-222 Precision (±)	14.9	pCi/L			ASTM D5072-09	05/17/2015 1229	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-003
ClientSample ID: MU1-SM-7
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 12:35:00 PM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	05/15/2015 1235	
Conductivity	1513	µmhos/cm			Field	05/15/2015 1235	
Dissolved Oxygen	0.87	mg/L			Field	05/15/2015 1235	
Turbidity	2.74	NTU			Field	05/15/2015 1235	
Depth to Water	69.90	ft			Field	05/15/2015 1235	
Temperature	10.66	℃			Field	05/15/2015 1235	
Oxygen Reduction Potential (ORP)	-186.8	mV			Field	05/15/2015 1235	
Anions/Cations							
Alkalinity, Total (As CaCO3)	647	mg/L		5	SM 2320B	05/19/2015 1507	BT
Alkalinity, Bicarbonate as HCO3	718	mg/L		5	SM 2320B	05/19/2015 1507	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	05/19/2015 1507	BT
Chloride	5	mg/L		1	EPA 300.0	05/19/2015 1540	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	05/19/2015 1507	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1503	AMB
Sulfate	359	mg/L		1	EPA 300.0	05/19/2015 1540	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 1942	DG
Magnesium	4	mg/L		1	EPA 200.7	05/18/2015 1942	DG
Potassium	6	mg/L		1	EPA 200.7	05/18/2015 1942	DG
Sodium	492	mg/L		1	EPA 200.7	05/18/2015 1942	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/21/2015 1331	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/19/2015 1507	BT
Electrical Conductivity	1990	µmhos/cm		5	SM 2510B	05/19/2015 1507	BT
Total Dissolved Solids (180)	1380	mg/L		10	SM 2540	05/18/2015 1642	BT
Data Quality							
Cation Sum	22.20	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Anion Sum	20.58	meq/L		0.01	SM 1030E	05/26/2015 1558	JJ
Cation-Anion Balance (± 5%)	3.79	%		0.01	SM 1030E	05/26/2015 1558	JJ
Solids, Total Dissolved (Calc)	1260	mg/L		10	SM 1030E	05/26/2015 1558	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-003
ClientSample ID: MU1-SM-7
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 12:35:00 PM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1942	DG
Arsenic	0.008	mg/L		0.005	EPA 200.8	05/18/2015 2142	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2142	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 1942	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2142	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1942	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2142	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1942	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2142	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1400	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2142	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1942	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2142	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2142	MS
Uranium	0.0007	mg/L		0.0003	EPA 200.8	05/18/2015 2142	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2142	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1942	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 1942	MS
Metals - Total							
Iron	0.12	mg/L		0.05	EPA 200.7	05/19/2015 2204	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2204	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505262001

ProjectName: Ross MU1 ISR
Lab ID: S1505262-003
ClientSample ID: MU1-SM-7
COC: 160007

WorkOrder: S1505262
CollectionDate: 5/15/2015 12:35:00 PM
DateReceived: 5/16/2015 8:52:00 AM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/27/2015 1658	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 1658	MB
Gross Beta	6.8	pCi/L		3	SM 7110B	05/27/2015 1658	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/27/2015 1658	MB
Lead 210	1.2	pCi/L		1	OTW01	06/08/2015 1804	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/08/2015 1804	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1447	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/10/2015 955	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/10/2015 955	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1324	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1324	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/08/2015 1529	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/08/2015 1529	MB
Radionuclides - Total							
Radon 222	323	pCi/L		100	ASTM D5072-09	05/17/2015 1127	WN
Radon-222 Precision (±)	15.0	pCi/L			ASTM D5072-09	05/17/2015 1127	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-004
ClientSample ID: MU1-SM8
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 1:55:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.42	s.u.			Field	05/15/2015 1355	
Conductivity	1570	µmhos/cm			Field	05/15/2015 1355	
Dissolved Oxygen	0.16	mg/L			Field	05/15/2015 1355	
Turbidity	286	NTU			Field	05/15/2015 1355	
Depth to Water	49.90	ft			Field	05/15/2015 1355	
Temperature	10.6	℃			Field	05/15/2015 1355	
Oxygen Reduction Potential (ORP)	-198.6	mV			Field	05/15/2015 1355	
Anions/Cations							
Alkalinity, Total (As CaCO3)	645	mg/L		5	SM 2320B	05/19/2015 1831	BT
Alkalinity, Bicarbonate as HCO3	711	mg/L		5	SM 2320B	05/19/2015 1831	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/19/2015 1831	BT
Chloride	4	mg/L		1	EPA 300.0	05/19/2015 1729	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	05/19/2015 1831	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1225	AMB
Sulfate	239	mg/L		1	EPA 300.0	05/19/2015 1729	AB
Calcium	5	mg/L		1	EPA 200.7	05/18/2015 2035	DG
Magnesium	3	mg/L		1	EPA 200.7	05/18/2015 2035	DG
Potassium	6	mg/L		1	EPA 200.7	05/18/2015 2035	DG
Sodium	440	mg/L		1	EPA 200.7	05/18/2015 2035	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 817	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/19/2015 1831	BT
Electrical Conductivity	1640	µmhos/cm		5	SM 2510B	05/19/2015 1831	BT
Total Dissolved Solids (180)	1070	mg/L		10	SM 2540	05/18/2015 1654	BT
Data Quality							
Cation Sum	19.77	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Anion Sum	18.02	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Cation-Anion Balance (± 5%)	4.62	%		0.01	SM 1030E	05/26/2015 1622	JJ
Solids, Total Dissolved (Calc)	1080	mg/L		10	SM 1030E	05/26/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-004
ClientSample ID: MU1-SM8
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 1:55:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.4	mg/L		0.1	EPA 200.7	05/18/2015 2035	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2330	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2330	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 2035	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2330	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2035	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2330	MS
Iron	0.25	mg/L		0.05	EPA 200.7	05/18/2015 2035	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2330	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 858	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2330	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2035	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2330	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2330	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/18/2015 2330	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2330	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2035	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2052	MS
Metals - Total							
Iron	6.26	mg/L		0.05	EPA 200.7	05/19/2015 2249	DG
Manganese	0.09	mg/L		0.02	EPA 200.7	05/19/2015 2249	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-004
ClientSample ID: MU1-SM8
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 1:55:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.3	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	1.7	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	7.6	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	1.6	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 202	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 202	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 1310	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 1310	MB
Radionuclides - Total							
Radon 222	355	pCi/L		100	ASTM D5072-09	05/17/2015 1715	WN
Radon-222 Precision (±)	16.1	pCi/L			ASTM D5072-09	05/17/2015 1715	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-003
ClientSample ID: MU1-SM9
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 12:54:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.30	s.u.			Field	05/15/2015 1254	
Conductivity	2066	µmhos/cm			Field	05/15/2015 1254	
Dissolved Oxygen	3.63	mg/L			Field	05/15/2015 1254	
Turbidity	10.1	NTU			Field	05/15/2015 1254	
Depth to Water	77.09	ft			Field	05/15/2015 1254	
Temperature	11.5	℃			Field	05/15/2015 1254	
Oxygen Reduction Potential (ORP)	-58.2	mV			Field	05/15/2015 1254	
Anions/Cations							
Alkalinity, Total (As CaCO3)	696	mg/L		5	SM 2320B	05/19/2015 1752	BT
Alkalinity, Bicarbonate as HCO3	770	mg/L		5	SM 2320B	05/19/2015 1752	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/19/2015 1752	BT
Chloride	4	mg/L		1	EPA 300.0	05/19/2015 1715	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	05/19/2015 1752	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1224	AMB
Sulfate	413	mg/L		1	EPA 300.0	05/19/2015 1715	AB
Calcium	7	mg/L		1	EPA 200.7	05/18/2015 2033	DG
Magnesium	4	mg/L		1	EPA 200.7	05/18/2015 2033	DG
Potassium	6	mg/L		1	EPA 200.7	05/18/2015 2033	DG
Sodium	533	mg/L		1	EPA 200.7	05/18/2015 2033	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/21/2015 1522	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/19/2015 1752	BT
Electrical Conductivity	2150	µmhos/cm		5	SM 2510B	05/19/2015 1752	BT
Total Dissolved Solids (180)	1440	mg/L		10	SM 2540	05/18/2015 1653	BT
Data Quality							
Cation Sum	23.99	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Anion Sum	22.66	meq/L		0.01	SM 1030E	05/26/2015 1622	JJ
Cation-Anion Balance (± 5%)	2.84	%		0.01	SM 1030E	05/26/2015 1622	JJ
Solids, Total Dissolved (Calc)	1380	mg/L		10	SM 1030E	05/26/2015 1622	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-003
ClientSample ID: MU1-SM9
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 12:54:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2033	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	05/18/2015 2314	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2314	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 2033	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2314	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2033	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2314	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2033	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2314	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 851	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2314	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2033	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2314	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2314	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/18/2015 2314	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2314	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2033	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2047	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	05/19/2015 2244	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2244	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505265001

ProjectName: Ross MU1 ISR
Lab ID: S1505265-003
ClientSample ID: MU1-SM9
COC: 156651

WorkOrder: S1505265
CollectionDate: 5/15/2015 12:54:00 PM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.7	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	5.5	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	4.8	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	2.1	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 001	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 001	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 1757	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 1757	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 813	MB
Radionuclides - Total							
Radon 222	590	pCi/L		100	ASTM D5072-09	05/17/2015 1640	WN
Radon-222 Precision (±)	21.9	pCi/L			ASTM D5072-09	05/17/2015 1640	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-013
ClientSample ID: SM-10
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 4:47:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.42	s.u.			Field	05/14/2015 1647	
Conductivity	1562	µmhos/cm			Field	05/14/2015 1647	
Dissolved Oxygen	0.43	mg/L			Field	05/14/2015 1647	
Turbidity	0.98	NTU			Field	05/14/2015 1647	
Depth to Water	45.43	ft			Field	05/14/2015 1647	
Temperature	10.6	℃			Field	05/14/2015 1647	
Oxygen Reduction Potential (ORP)	-173.8	mV			Field	05/14/2015 1647	
Anions/Cations							
Alkalinity, Total (As CaCO3)	606	mg/L		5	SM 2320B	05/16/2015 233	BT
Alkalinity, Bicarbonate as HCO3	666	mg/L		5	SM 2320B	05/16/2015 233	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/16/2015 233	BT
Chloride	6	mg/L		1	EPA 300.0	05/16/2015 859	AB
Fluoride	1.9	mg/L		0.1	SM 4500FC	05/16/2015 233	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1418	AMB
Sulfate	239	mg/L		1	EPA 300.0	05/16/2015 859	AB
Calcium	4	mg/L		1	EPA 200.7	05/16/2015 1330	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1330	DG
Potassium	4	mg/L		1	EPA 200.7	05/16/2015 1330	DG
Sodium	400	mg/L		1	EPA 200.7	05/16/2015 1330	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 942	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/16/2015 233	BT
Electrical Conductivity	1670	µmhos/cm		5	SM 2510B	05/16/2015 233	BT
Total Dissolved Solids (180)	1000	mg/L		10	SM 2540	05/15/2015 1448	BT
Data Quality							
Cation Sum	17.86	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Anion Sum	17.34	meq/L		0.01	SM 1030E	05/26/2015 1547	JJ
Cation-Anion Balance (± 5%)	1.48	%		0.01	SM 1030E	05/26/2015 1547	JJ
Solids, Total Dissolved (Calc)	1020	mg/L		10	SM 1030E	05/26/2015 1547	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-013
ClientSample ID: SM-10
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 4:47:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1330	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2047	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2047	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1330	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2047	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1330	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2047	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1330	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2047	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1119	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2047	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1330	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2047	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2047	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/15/2015 2047	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2047	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1330	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/22/2015 2125	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/19/2015 557	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 557	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505228001

ProjectName: Ross MU1 ISR
Lab ID: S1505228-013
ClientSample ID: SM-10
COC: 160016

WorkOrder: S1505228
CollectionDate: 5/14/2015 4:47:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	4.6	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/08/2015 1352	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/08/2015 1352	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1047	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1047	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1041	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1041	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/07/2015 2227	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/07/2015 2227	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/29/2015 2054	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/29/2015 2054	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1759	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 840	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 840	MB
Radionuclides - Total							
Radon 222	1340	pCi/L		100	ASTM D5072-09	05/16/2015 041	WN
Radon-222 Precision (±)	32.6	pCi/L			ASTM D5072-09	05/16/2015 041	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505266001

ProjectName: Ross MU1 ISR
Lab ID: S1505266-001
ClientSample ID: MU1 SM11
COC: 152883

WorkOrder: S1505266
CollectionDate: 5/15/2015 12:12:00 PM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.52	s.u.			Field	05/15/2015 1212	
Conductivity	1182	µmhos/cm			Field	05/15/2015 1212	
Dissolved Oxygen	1.56	mg/L			Field	05/15/2015 1212	
Turbidity	7.89	NTU			Field	05/15/2015 1212	
Temperature	11.5	℃			Field	05/15/2015 1212	
Oxygen Reduction Potential (ORP)	+47	mV			Field	05/15/2015 1212	
Anions/Cations							
Alkalinity, Total (As CaCO3)	605	mg/L		5	SM 2320B	05/19/2015 1910	BT
Alkalinity, Bicarbonate as HCO3	659	mg/L		5	SM 2320B	05/19/2015 1910	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/19/2015 1910	BT
Chloride	6	mg/L		1	EPA 300.0	05/19/2015 1509	AB
Fluoride	2.0	mg/L		0.1	SM 4500FC	05/19/2015 1910	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1236	AMB
Sulfate	194	mg/L		1	EPA 300.0	05/19/2015 1509	AB
Calcium	3	mg/L		1	EPA 200.7	05/18/2015 2040	DG
Magnesium	2	mg/L		1	EPA 200.7	05/18/2015 2040	DG
Potassium	4	mg/L		1	EPA 200.7	05/18/2015 2040	DG
Sodium	383	mg/L		1	EPA 200.7	05/18/2015 2040	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 818	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/19/2015 1910	BT
Electrical Conductivity	1520	µmhos/cm		5	SM 2510B	05/19/2015 1910	BT
Total Dissolved Solids (180)	990	mg/L		10	SM 2540	05/18/2015 1656	BT
Data Quality							
Cation Sum	17.08	meq/L		0.01	SM 1030E	06/18/2015 1647	JJ
Anion Sum	16.40	meq/L		0.01	SM 1030E	06/18/2015 1647	JJ
Cation-Anion Balance (± 5%)	2.04	%		0.01	SM 1030E	06/18/2015 1647	JJ
Solids, Total Dissolved (Calc)	960	mg/L		10	SM 1030E	06/18/2015 1647	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505266001

ProjectName: Ross MU1 ISR
Lab ID: S1505266-001
ClientSample ID: MU1 SM11
COC: 152883

WorkOrder: S1505266
CollectionDate: 5/15/2015 12:12:00 PM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 2040	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2357	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2357	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 2040	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2357	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2040	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2357	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 2040	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2357	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 909	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2357	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2040	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2357	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2357	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/18/2015 2357	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2357	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2040	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2058	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	05/19/2015 2256	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2256	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505266001

ProjectName: Ross MU1 ISR
Lab ID: S1505266-001
ClientSample ID: MU1 SM11
COC: 152883

WorkOrder: S1505266
CollectionDate: 5/15/2015 12:12:00 PM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/28/2015 1604	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/28/2015 1604	MB
Gross Beta	4.2	pCi/L		3	SM 7110B	05/28/2015 1604	MB
Gross Beta Precision (±)	2.0	pCi/L			SM 7110B	05/28/2015 1604	MB
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/05/2015 1403	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/05/2015 1403	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 2216	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 2216	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 1310	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 1310	MB
Radionuclides - Total							
Radon 222	417	pCi/L		100	ASTM D5072-09	05/18/2015 1732	WN
Radon-222 Precision (±)	19.2	pCi/L			ASTM D5072-09	05/18/2015 1732	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-005
ClientSample ID: MU1-SM12
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 4:35:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.72	s.u.			Field	05/14/2015 1635	
Conductivity	1728	µmhos/cm			Field	05/14/2015 1635	
Dissolved Oxygen	0.23	mg/L			Field	05/14/2015 1635	
Turbidity	9.38	NTU			Field	05/14/2015 1635	
Depth to Water	39.20	ft			Field	05/14/2015 1635	
Temperature	10.6	℃			Field	05/14/2015 1635	
Oxygen Reduction Potential (ORP)	-112.5	mV			Field	05/14/2015 1635	
Anions/Cations							
Alkalinity, Total (As CaCO3)	632	mg/L		5	SM 2320B	05/15/2015 1837	BT
Alkalinity, Bicarbonate as HCO3	704	mg/L		5	SM 2320B	05/15/2015 1837	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	05/15/2015 1837	BT
Chloride	5	mg/L		1	EPA 300.0	05/15/2015 2151	AB
Fluoride	1.4	mg/L		0.1	SM 4500FC	05/15/2015 1837	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/18/2015 1428	AMB
Sulfate	282	mg/L		1	EPA 300.0	05/15/2015 2151	AB
Calcium	5	mg/L		1	EPA 200.7	05/16/2015 1132	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1132	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1132	DG
Sodium	453	mg/L		1	EPA 200.7	05/16/2015 1132	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/21/2015 1319	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/15/2015 1837	BT
Electrical Conductivity	1860	µmhos/cm		5	SM 2510B	05/15/2015 1837	BT
Total Dissolved Solids (180)	1140	mg/L		10	SM 2540	05/15/2015 1416	BT
Data Quality							
Cation Sum	20.26	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Anion Sum	18.72	meq/L		0.01	SM 1030E	05/26/2015 1530	JJ
Cation-Anion Balance (± 5%)	3.96	%		0.01	SM 1030E	05/26/2015 1530	JJ
Solids, Total Dissolved (Calc)	1130	mg/L		10	SM 1030E	05/26/2015 1530	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-005
ClientSample ID: MU1-SM12
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 4:35:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1132	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1617	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1617	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1132	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1617	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1132	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1617	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1132	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1617	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 937	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1617	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1132	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1617	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1617	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/15/2015 1617	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1617	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1132	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1944	MS
Metals - Total							
Iron	0.19	mg/L		0.05	EPA 200.7	05/19/2015 416	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 416	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/5/2015
Report ID S1505220001

ProjectName: Ross
Lab ID: S1505220-005
ClientSample ID: MU1-SM12
COC: 140101

WorkOrder: S1505220
CollectionDate: 5/14/2015 4:35:00 PM
DateReceived: 5/15/2015 8:24:00 AM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	4.9	pCi/L		2	SM 7110B	05/25/2015 1553	MB
Gross Alpha Precision (±)	2.2	pCi/L			SM 7110B	05/25/2015 1553	MB
Gross Beta	6.4	pCi/L		3	SM 7110B	05/25/2015 1553	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	05/25/2015 1553	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 840	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 840	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1359	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1359	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/01/2015 054	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/01/2015 054	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1256	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1539	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1539	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	420	pCi/L		100	ASTM D5072-09	05/16/2015 2225	WN
Radon-222 Precision (±)	18.0	pCi/L			ASTM D5072-09	05/16/2015 2225	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-005
ClientSample ID: MU1-SM13
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 2:42:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.21	s.u.			Field	05/13/2015 1442	
Conductivity	1095	µmhos/cm			Field	05/13/2015 1442	
Dissolved Oxygen	0.53	mg/L			Field	05/13/2015 1442	
Turbidity	2.95	NTU			Field	05/13/2015 1442	
Depth to Water	41.98	ft			Field	05/13/2015 1442	
Temperature	10.7	℃			Field	05/13/2015 1442	
Oxygen Reduction Potential (ORP)	-289.9	mV			Field	05/13/2015 1442	
Anions/Cations							
Alkalinity, Total (As CaCO3)	561	mg/L		5	SM 2320B	05/16/2015 331	BT
Alkalinity, Bicarbonate as HCO3	465	mg/L		5	SM 2320B	05/16/2015 331	BT
Alkalinity, Carbonate as CO3	108	mg/L		5	SM 2320B	05/16/2015 331	BT
Chloride	3	mg/L		1	EPA 300.0	05/15/2015 1442	AB
Fluoride	1.9	mg/L		0.1	SM 4500FC	05/16/2015 331	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1435	AMB
Sulfate	164	mg/L		1	EPA 300.0	05/15/2015 1442	AB
Calcium	4	mg/L		1	EPA 200.7	05/16/2015 1355	DG
Magnesium	1	mg/L		1	EPA 200.7	05/16/2015 1355	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1355	DG
Sodium	340	mg/L		1	EPA 200.7	05/16/2015 1355	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 949	AMB
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	05/16/2015 331	BT
Electrical Conductivity	1500	µmhos/cm		5	SM 2510B	05/16/2015 331	BT
Total Dissolved Solids (180)	870	mg/L		10	SM 2540	05/15/2015 1454	BT
Data Quality							
Cation Sum	15.31	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	14.82	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	1.64	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	860	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-005
ClientSample ID: MU1-SM13
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 2:42:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1355	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2125	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2125	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/16/2015 1355	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2125	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1355	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2125	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1355	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2125	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1129	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2125	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1355	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2125	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2125	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/15/2015 2125	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2125	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1355	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1909	MS
Metals - Total							
Iron	0.15	mg/L		0.05	EPA 200.7	05/19/2015 609	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 609	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-005
ClientSample ID: MU1-SM13
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 2:42:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.7	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	1.6	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	7.0	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	1.3	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1012	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1012	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/02/2015 1005	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/02/2015 1005	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	740	pCi/L		100	ASTM D5072-09	05/15/2015 1624	WN
Radon-222 Precision (±)	24.8	pCi/L			ASTM D5072-09	05/15/2015 1624	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-006
ClientSample ID: MU1-SM13 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 2:47:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	561	mg/L		5	SM 2320B	05/16/2015 343	BT
Alkalinity, Bicarbonate as HCO3	468	mg/L		5	SM 2320B	05/16/2015 343	BT
Alkalinity, Carbonate as CO3	107	mg/L		5	SM 2320B	05/16/2015 343	BT
Chloride	3	mg/L		1	EPA 300.0	05/15/2015 1456	AB
Fluoride	2.1	mg/L		0.1	SM 4500FC	05/16/2015 343	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1436	AMB
Sulfate	164	mg/L		1	EPA 300.0	05/15/2015 1456	AB
Calcium	4	mg/L		1	EPA 200.7	05/16/2015 1357	DG
Magnesium	1	mg/L		1	EPA 200.7	05/16/2015 1357	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1357	DG
Sodium	339	mg/L		1	EPA 200.7	05/16/2015 1357	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 950	AMB
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	05/16/2015 343	BT
Electrical Conductivity	1490	µmhos/cm		5	SM 2510B	05/16/2015 343	BT
Total Dissolved Solids (180)	840	mg/L		10	SM 2540	05/15/2015 1455	BT
Data Quality							
Cation Sum	15.28	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Anion Sum	14.84	meq/L		0.01	SM 1030E	05/26/2015 1549	JJ
Cation-Anion Balance (± 5%)	1.46	%		0.01	SM 1030E	05/26/2015 1549	JJ
Solids, Total Dissolved (Calc)	860	mg/L		10	SM 1030E	05/26/2015 1549	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-006
ClientSample ID: MU1-SM13 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 2:47:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1357	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2146	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2146	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/16/2015 1357	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2146	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1357	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2146	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1357	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2146	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1131	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2146	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1357	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2146	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2146	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/15/2015 2146	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2146	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1357	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1915	MS
Metals - Total							
Iron	0.15	mg/L		0.05	EPA 200.7	05/19/2015 631	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 631	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/16/2015
Report ID S1505229001

ProjectName: Ross MU1 ISR
Lab ID: S1505229-006
ClientSample ID: MU1-SM13 DUP
COC: 158902 152920

WorkOrder: S1505229
CollectionDate: 5/13/2015 2:47:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.4	pCi/L		2	SM 7110B	05/25/2015 2156	MB
Gross Alpha Precision (±)	1.8	pCi/L			SM 7110B	05/25/2015 2156	MB
Gross Beta	6.4	pCi/L		3	SM 7110B	05/25/2015 2156	MB
Gross Beta Precision (±)	2.8	pCi/L			SM 7110B	05/25/2015 2156	MB
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1110	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1110	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1501	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1501	MB
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1747	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1747	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/02/2015 1306	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/02/2015 1306	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/28/2015 1713	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/28/2015 1713	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1735	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1735	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1748	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1748	MB
Radionuclides - Total							
Radon 222	644	pCi/L		100	ASTM D5072-09	05/15/2015 1700	WN
Radon-222 Precision (±)	22.9	pCi/L			ASTM D5072-09	05/15/2015 1700	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-004
ClientSample ID: MU1-SM14
COC: 158903

WorkOrder: S1505230
CollectionDate: 5/14/2015 5:04:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.56	s.u.			Field	05/14/2015 1704	
Conductivity	1710	µmhos/cm			Field	05/14/2015 1704	
Dissolved Oxygen	0.08	mg/L			Field	05/14/2015 1704	
Turbidity	25.50	NTU			Field	05/14/2015 1704	
Depth to Water	80.15	ft			Field	05/14/2015 1704	
Temperature	11.1	℃			Field	05/14/2015 1704	
Oxygen Reduction Potential (ORP)	-200.5	mV			Field	05/14/2015 1704	
Anions/Cations							
Alkalinity, Total (As CaCO3)	669	mg/L		5	SM 2320B	05/18/2015 1151	BT
Alkalinity, Bicarbonate as HCO3	729	mg/L		5	SM 2320B	05/18/2015 1151	BT
Alkalinity, Carbonate as CO3	43	mg/L		5	SM 2320B	05/18/2015 1151	BT
Chloride	4	mg/L		1	EPA 300.0	05/15/2015 1944	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	05/18/2015 1151	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1506	AMB
Sulfate	299	mg/L		1	EPA 300.0	05/15/2015 1944	AB
Calcium	5	mg/L		1	EPA 200.7	05/18/2015 1303	DG
Magnesium	3	mg/L		1	EPA 200.7	05/18/2015 1303	DG
Potassium	6	mg/L		1	EPA 200.7	05/18/2015 1303	DG
Sodium	486	mg/L		1	EPA 200.7	05/18/2015 1303	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/22/2015 1119	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/18/2015 1151	BT
Electrical Conductivity	1790	µmhos/cm		5	SM 2510B	05/18/2015 1151	BT
Total Dissolved Solids (180)	1110	mg/L		10	SM 2540	05/15/2015 1511	BT
Data Quality							
Cation Sum	21.76	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Anion Sum	19.75	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Cation-Anion Balance (± 5%)	4.84	%		0.01	SM 1030E	05/26/2015 1554	JJ
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	05/26/2015 1554	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-004
ClientSample ID: MU1-SM14
COC: 158903

WorkOrder: S1505230
CollectionDate: 5/14/2015 5:04:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1303	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2350	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2350	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/18/2015 1303	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2350	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1303	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2350	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1303	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2350	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1221	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2350	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1303	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2350	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2350	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/15/2015 2350	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2350	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1303	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1431	MS
Metals - Total							
Iron	0.25	mg/L		0.05	EPA 200.7	05/19/2015 2029	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2029	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-004
ClientSample ID: MU1-SM14
COC: 158903

WorkOrder: S1505230
CollectionDate: 5/14/2015 5:04:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.8	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	1.6	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	4.9	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	2.8	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 914	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 914	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	1950	pCi/L		100	ASTM D5072-09	05/17/2015 729	WN
Radon-222 Precision (±)	44.2	pCi/L			ASTM D5072-09	05/17/2015 729	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-001
ClientSample ID: MU1 DM1
COC: 152889

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:31:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.18	s.u.			Field	05/14/2015 1431	
Conductivity	2173	µmhos/cm			Field	05/14/2015 1431	
Dissolved Oxygen	1.88	mg/L			Field	05/14/2015 1431	
Turbidity	17.13	NTU			Field	05/14/2015 1431	
Temperature	11.6	℃			Field	05/14/2015 1431	
Oxygen Reduction Potential (ORP)	+63	mV			Field	05/14/2015 1431	
Anions/Cations							
Alkalinity, Total (As CaCO3)	361	mg/L		5	SM 2320B	05/15/2015 2029	BT
Alkalinity, Bicarbonate as HCO3	311	mg/L		5	SM 2320B	05/15/2015 2029	BT
Alkalinity, Carbonate as CO3	63	mg/L		5	SM 2320B	05/15/2015 2029	BT
Chloride	503	mg/L		1	EPA 300.0	05/18/2015 1509	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/15/2015 2029	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1332	AMB
Sulfate	235	mg/L		1	EPA 300.0	05/16/2015 204	AB
Calcium	6	mg/L		1	EPA 200.7	05/16/2015 1203	DG
Magnesium	1	mg/L		1	EPA 200.7	05/16/2015 1203	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1203	DG
Sodium	611	mg/L		1	EPA 200.7	05/16/2015 1203	DG
Nitrogen, Ammonia (As N)	0.8	mg/L		0.1	EPA 350.1	05/22/2015 901	AMB
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	05/15/2015 2029	BT
Electrical Conductivity	2790	µmhos/cm		5	SM 2510B	05/15/2015 2029	BT
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	05/15/2015 1425	BT
Data Quality							
Cation Sum	27.23	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Anion Sum	26.32	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Cation-Anion Balance (± 5%)	1.71	%		0.01	SM 1030E	05/26/2015 1543	JJ
Solids, Total Dissolved (Calc)	1580	mg/L		10	SM 1030E	05/26/2015 1543	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-001
ClientSample ID: MU1 DM1
COC: 152889

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:31:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1203	DG
Arsenic	0.009	mg/L		0.005	EPA 200.8	05/15/2015 1749	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1749	MS
Boron	0.7	mg/L		0.1	EPA 200.7	05/16/2015 1203	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1749	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1203	DG
Copper	0.02	mg/L		0.01	EPA 200.8	05/15/2015 1749	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1203	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1749	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1006	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1749	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1203	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1749	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1749	MS
Uranium	0.0009	mg/L		0.0003	EPA 200.8	05/15/2015 1749	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1749	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1203	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1710	MS
Metals - Total							
Iron	0.47	mg/L		0.05	EPA 200.7	05/19/2015 414	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 414	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-001
ClientSample ID: MU1 DM1
COC: 152889

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:31:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	4.8	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	ND	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/28/2015 2356	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/28/2015 2356	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1521	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1521	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 803	MB
Radionuclides - Total							
Radon 222	1070	pCi/L		100	ASTM D5072-09	05/16/2015 2304	WN
Radon-222 Precision (±)	31.3	pCi/L			ASTM D5072-09	05/16/2015 2304	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-002
ClientSample ID: MU1 DM2
COC: 152889

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:22:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.75	s.u.			Field	05/14/2015 1422	
Conductivity	2342	µmhos/cm			Field	05/14/2015 1422	
Dissolved Oxygen	8.57	mg/L			Field	05/14/2015 1422	
Turbidity	36.3	NTU			Field	05/14/2015 1422	
Temperature	11.5	℃			Field	05/14/2015 1422	
Oxygen Reduction Potential (ORP)	+43	mV			Field	05/14/2015 1422	
Anions/Cations							
Alkalinity, Total (As CaCO3)	444	mg/L		5	SM 2320B	05/15/2015 2106	BT
Alkalinity, Bicarbonate as HCO3	462	mg/L		5	SM 2320B	05/15/2015 2106	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/15/2015 2106	BT
Chloride	477	mg/L		1	EPA 300.0	05/16/2015 218	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/15/2015 2106	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1333	AMB
Sulfate	287	mg/L		1	EPA 300.0	05/16/2015 218	AB
Calcium	8	mg/L		1	EPA 200.7	05/16/2015 1205	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1205	DG
Potassium	8	mg/L		1	EPA 200.7	05/16/2015 1205	DG
Sodium	657	mg/L		1	EPA 200.7	05/16/2015 1205	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/22/2015 902	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/15/2015 2106	BT
Electrical Conductivity	2980	µmhos/cm		5	SM 2510B	05/15/2015 2106	BT
Total Dissolved Solids (180)	1670	mg/L		10	SM 2540	05/15/2015 1426	BT
Data Quality							
Cation Sum	29.40	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Anion Sum	28.37	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Cation-Anion Balance (± 5%)	1.78	%		0.01	SM 1030E	05/26/2015 1543	JJ
Solids, Total Dissolved (Calc)	1710	mg/L		10	SM 1030E	05/26/2015 1543	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-002
ClientSample ID: MU1 DM2
COC: 152889

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:22:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1205	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1754	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1754	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/16/2015 1205	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1754	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1205	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1754	MS
Iron	0.07	mg/L		0.05	EPA 200.7	05/16/2015 1205	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1754	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1011	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1754	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1205	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1754	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1754	MS
Uranium	0.0007	mg/L		0.0003	EPA 200.8	05/15/2015 1754	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1754	MS
Zinc	0.08	mg/L		0.01	EPA 200.7	05/16/2015 1205	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1742	MS
Metals - Total							
Iron	1.23	mg/L		0.05	EPA 200.7	05/19/2015 424	DG
Manganese	0.03	mg/L		0.02	EPA 200.7	05/19/2015 424	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-002
ClientSample ID: MU1 DM2
COC: 152889

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:22:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	7.0	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	ND	pCi/L		1	OTW01	05/27/2015 1032	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1032	MB
Polonium 210	ND	pCi/L		1	OTW01	05/27/2015 1447	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/27/2015 1447	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/29/2015 257	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/29/2015 257	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1542	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1542	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1246	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1246	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1521	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1521	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 803	MB
Radionuclides - Total							
Radon 222	198	pCi/L		100	ASTM D5072-09	05/17/2015 015	WN
Radon-222 Precision (±)	11.1	pCi/L			ASTM D5072-09	05/17/2015 015	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-002
ClientSample ID: MU1 DM3A
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 10:10:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.55	s.u.			Field	05/15/2015 1010	
Conductivity	2606	µmhos/cm			Field	05/15/2015 1010	
Dissolved Oxygen	3.41	mg/L			Field	05/15/2015 1010	
Turbidity	92.3	NTU			Field	05/15/2015 1010	
Temperature	10.6	℃			Field	05/15/2015 1010	
Oxygen Reduction Potential (ORP)	-69	mV			Field	05/15/2015 1010	
Anions/Cations							
Alkalinity, Total (As CaCO3)	263	mg/L		5	SM 2320B	05/19/2015 1621	BT
Alkalinity, Bicarbonate as HCO3	13	mg/L		5	SM 2320B	05/19/2015 1621	BT
Alkalinity, Carbonate as CO3	152	mg/L		5	SM 2320B	05/19/2015 1621	BT
Chloride	404	mg/L		1	EPA 300.0	05/19/2015 514	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/19/2015 1621	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1213	AMB
Sulfate	658	mg/L		1	EPA 300.0	05/19/2015 514	AB
Calcium	4	mg/L		1	EPA 200.7	05/18/2015 2003	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/18/2015 2003	DG
Potassium	22	mg/L		1	EPA 200.7	05/18/2015 2003	DG
Sodium	719	mg/L		1	EPA 200.7	05/18/2015 2003	DG
Nitrogen, Ammonia (As N)	2.1	mg/L		0.1	EPA 350.1	05/21/2015 1513	AMB
General Parameters							
pH	10.5	s.u.		0.1	SM 4500 H B	05/19/2015 1621	BT
Electrical Conductivity	3330	µmhos/cm		5	SM 2510B	05/19/2015 1621	BT
Total Dissolved Solids (180)	2060	mg/L		10	SM 2540	05/18/2015 1645	BT
Data Quality							
Cation Sum	32.19	meq/L		0.01	SM 1030E	05/26/2015 1601	JJ
Anion Sum	30.42	meq/L		0.01	SM 1030E	05/26/2015 1601	JJ
Cation-Anion Balance (± 5%)	2.83	%		0.01	SM 1030E	05/26/2015 1601	JJ
Solids, Total Dissolved (Calc)	1970	mg/L		10	SM 1030E	05/26/2015 1601	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-002
ClientSample ID: MU1 DM3A
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 10:10:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.4	mg/L		0.1	EPA 200.7	05/18/2015 2003	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	05/18/2015 2236	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2236	MS
Boron	0.7	mg/L		0.1	EPA 200.7	05/18/2015 2003	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2236	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2003	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2236	MS
Iron	0.25	mg/L		0.05	EPA 200.7	05/18/2015 2003	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2236	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1415	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2236	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2003	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2236	MS
Silver	0.004	mg/L		0.003	EPA 200.8	05/18/2015 2236	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/18/2015 2236	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2236	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2003	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 1958	MS
Metals - Total							
Iron	3.39	mg/L		0.05	EPA 200.7	05/19/2015 2222	DG
Manganese	0.07	mg/L		0.02	EPA 200.7	05/19/2015 2222	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-002
ClientSample ID: MU1 DM3A
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 10:10:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/28/2015 1604	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/28/2015 1604	MB
Gross Beta	13.8	pCi/L		3	SM 7110B	05/28/2015 1604	MB
Gross Beta Precision (±)	5.4	pCi/L			SM 7110B	05/28/2015 1604	MB
Lead 210	1.1	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1059	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1059	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/04/2015 2258	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/04/2015 2258	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 2216	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 2216	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1053	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1053	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1822	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1822	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1324	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1324	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 813	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/17/2015 1304	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/17/2015 1304	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-004
ClientSample ID: MU1 DM4
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:08:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.60	s.u.			Field	05/14/2015 1408	
Conductivity	2177	µmhos/cm			Field	05/14/2015 1408	
Dissolved Oxygen	4.28	mg/L			Field	05/14/2015 1408	
Turbidity	23.8	NTU			Field	05/14/2015 1408	
Temperature	11.4	℃			Field	05/14/2015 1408	
Oxygen Reduction Potential (ORP)	-12	mV			Field	05/14/2015 1408	
Anions/Cations							
Alkalinity, Total (As CaCO3)	420	mg/L		5	SM 2320B	05/15/2015 2132	BT
Alkalinity, Bicarbonate as HCO3	463	mg/L		5	SM 2320B	05/15/2015 2132	BT
Alkalinity, Carbonate as CO3	24	mg/L		5	SM 2320B	05/15/2015 2132	BT
Chloride	652	mg/L		1	EPA 300.0	05/18/2015 1632	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	05/15/2015 2132	BT
Nitrogen, Nitrate+Nitrite (as N)	0.1	mg/L		0.1	EPA 353.2	05/20/2015 1336	AMB
Sulfate	37	mg/L		1	EPA 300.0	05/16/2015 355	AB
Calcium	7	mg/L		1	EPA 200.7	05/16/2015 1209	DG
Magnesium	2	mg/L		1	EPA 200.7	05/16/2015 1209	DG
Potassium	6	mg/L		1	EPA 200.7	05/16/2015 1209	DG
Sodium	618	mg/L		1	EPA 200.7	05/16/2015 1209	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/22/2015 905	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/15/2015 2132	BT
Electrical Conductivity	2880	µmhos/cm		5	SM 2510B	05/15/2015 2132	BT
Total Dissolved Solids (180)	1520	mg/L		10	SM 2540	05/15/2015 1428	BT
Data Quality							
Cation Sum	27.54	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Anion Sum	27.63	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Cation-Anion Balance (± 5%)	0.16	%		0.01	SM 1030E	05/26/2015 1543	JJ
Solids, Total Dissolved (Calc)	1570	mg/L		10	SM 1030E	05/26/2015 1543	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-004
ClientSample ID: MU1 DM4
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:08:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1209	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1805	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1805	MS
Boron	0.9	mg/L		0.1	EPA 200.7	05/16/2015 1209	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1805	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1209	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1805	MS
Iron	0.15	mg/L		0.05	EPA 200.7	05/16/2015 1209	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1805	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1021	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1805	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1209	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1805	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1805	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/15/2015 1805	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1805	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	05/16/2015 1209	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1753	MS
Metals - Total							
Iron	0.98	mg/L		0.05	EPA 200.7	05/19/2015 428	DG
Manganese	0.03	mg/L		0.02	EPA 200.7	05/19/2015 428	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-004
ClientSample ID: MU1 DM4
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 2:08:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/29/2015 858	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/29/2015 858	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1521	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1521	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 803	MB
Radionuclides - Total							
Radon 222	213	pCi/L		100	ASTM D5072-09	05/17/2015 116	WN
Radon-222 Precision (±)	11.7	pCi/L			ASTM D5072-09	05/17/2015 116	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-005
ClientSample ID: MU1 DM5
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 1:56:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.77	s.u.			Field	05/14/2015 1356	
Conductivity	2461	µmhos/cm			Field	05/14/2015 1356	
Dissolved Oxygen	5.08	mg/L			Field	05/14/2015 1356	
Turbidity	28.9	NTU			Field	05/14/2015 1356	
Temperature	11.7	℃			Field	05/14/2015 1356	
Oxygen Reduction Potential (ORP)	-125	mV			Field	05/14/2015 1356	
Anions/Cations							
Alkalinity, Total (As CaCO3)	339	mg/L		5	SM 2320B	05/15/2015 2144	BT
Alkalinity, Bicarbonate as HCO3	162	mg/L		5	SM 2320B	05/15/2015 2144	BT
Alkalinity, Carbonate as CO3	123	mg/L		5	SM 2320B	05/15/2015 2144	BT
Chloride	481	mg/L		1	EPA 300.0	05/16/2015 409	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/15/2015 2144	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1347	AMB
Sulfate	400	mg/L		1	EPA 300.0	05/16/2015 409	AB
Calcium	2	mg/L		1	EPA 200.7	05/16/2015 1214	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/16/2015 1214	DG
Potassium	13	mg/L		1	EPA 200.7	05/16/2015 1214	DG
Sodium	694	mg/L		1	EPA 200.7	05/16/2015 1214	DG
Nitrogen, Ammonia (As N)	0.9	mg/L		0.1	EPA 350.1	05/22/2015 906	AMB
General Parameters							
pH	9.9	s.u.		0.1	SM 4500 H B	05/15/2015 2144	BT
Electrical Conductivity	3140	µmhos/cm		5	SM 2510B	05/15/2015 2144	BT
Total Dissolved Solids (180)	1780	mg/L		10	SM 2540	05/15/2015 1430	BT
Data Quality							
Cation Sum	30.70	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Anion Sum	28.73	meq/L		0.01	SM 1030E	05/26/2015 1543	JJ
Cation-Anion Balance (± 5%)	3.30	%		0.01	SM 1030E	05/26/2015 1543	JJ
Solids, Total Dissolved (Calc)	1790	mg/L		10	SM 1030E	05/26/2015 1543	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-005
ClientSample ID: MU1 DM5
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 1:56:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/16/2015 1214	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 1811	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 1811	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/16/2015 1214	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 1811	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/16/2015 1214	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 1811	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1214	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 1811	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1023	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 1811	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/16/2015 1214	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 1811	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 1811	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/15/2015 1811	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 1811	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/16/2015 1214	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 1759	MS
Metals - Total							
Iron	0.88	mg/L		0.05	EPA 200.7	05/19/2015 431	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 431	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/10/2015
Report ID S1505226001

ProjectName: ROSS MU1 ISR
Lab ID: S1505226-005
ClientSample ID: MU1 DM5
COC: 152880

WorkOrder: S1505226
CollectionDate: 5/14/2015 1:56:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	7.1	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/30/2015 1611	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/30/2015 1611	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/29/2015 1159	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/29/2015 1159	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/03/2015 1316	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/03/2015 1316	MB
Polonium 210	ND	pCi/L		1	OTW01	06/02/2015 1516	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/02/2015 1516	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1521	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/02/2015 1521	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/04/2015 1223	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/04/2015 1223	MB
Radionuclides - Total							
Radon 222	165	pCi/L		100	ASTM D5072-09	05/17/2015 152	WN
Radon-222 Precision (±)	9.8	pCi/L			ASTM D5072-09	05/17/2015 152	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-001
ClientSample ID: MU1 DM6
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 8:30:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.59	s.u.			Field	05/15/2015 830	
Conductivity	2348	µmhos/cm			Field	05/15/2015 830	
Dissolved Oxygen	4.64	mg/L			Field	05/15/2015 830	
Turbidity	72.7	NTU			Field	05/15/2015 830	
Temperature	10.4	℃			Field	05/15/2015 830	
Oxygen Reduction Potential (ORP)	+70	mV			Field	05/15/2015 830	
Anions/Cations							
Alkalinity, Total (As CaCO3)	406	mg/L		5	SM 2320B	05/19/2015 1648	BT
Alkalinity, Bicarbonate as HCO3	258	mg/L		5	SM 2320B	05/19/2015 1648	BT
Alkalinity, Carbonate as CO3	117	mg/L		5	SM 2320B	05/19/2015 1648	BT
Chloride	733	mg/L		1	EPA 300.0	05/24/2015 413	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/19/2015 1648	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1216	AMB
Sulfate	9	mg/L		1	EPA 300.0	05/24/2015 413	AB
Calcium	3	mg/L		1	EPA 200.7	05/18/2015 2008	DG
Magnesium	1	mg/L		1	EPA 200.7	05/27/2015 1221	DG
Potassium	31	mg/L		1	EPA 200.7	05/27/2015 1221	DG
Sodium	640	mg/L		1	EPA 200.7	05/27/2015 1221	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	05/21/2015 1516	AMB
General Parameters							
pH	9.7	s.u.		0.1	SM 4500 H B	05/19/2015 1648	BT
Electrical Conductivity	2970	µmhos/cm		5	SM 2510B	05/19/2015 1648	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	05/18/2015 1647	BT
Data Quality							
Cation Sum	28.97	meq/L		0.01	SM 1030E	05/28/2015 1503	JJ
Anion Sum	29.03	meq/L		0.01	SM 1030E	05/28/2015 1503	JJ
Cation-Anion Balance (± 5%)	0.10	%		0.01	SM 1030E	05/28/2015 1503	JJ
Solids, Total Dissolved (Calc)	1660	mg/L		10	SM 1030E	05/28/2015 1503	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-001
ClientSample ID: MU1 DM6
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 8:30:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	05/18/2015 2008	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2247	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2247	MS
Boron	1.0	mg/L		0.1	EPA 200.7	05/18/2015 2008	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2247	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2008	DG
Copper	0.02	mg/L		0.01	EPA 200.8	05/18/2015 2247	MS
Iron	0.30	mg/L		0.05	EPA 200.7	05/18/2015 2008	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2247	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1419	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2247	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2008	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2247	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2247	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/18/2015 2247	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2247	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	05/18/2015 2008	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2009	MS
Metals - Total							
Iron	3.02	mg/L		0.05	EPA 200.7	05/19/2015 2226	DG
Manganese	0.05	mg/L		0.02	EPA 200.7	05/19/2015 2226	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-001
ClientSample ID: MU1 DM6
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 8:30:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	18.4	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/05/2015 500	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/05/2015 500	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 2216	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 2216	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1325	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1325	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 813	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/17/2015 1415	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/17/2015 1415	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-001
ClientSample ID: MU1 DM7
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:04:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.20	s.u.			Field	05/15/2015 904	
Conductivity	2400	µmhos/cm			Field	05/15/2015 904	
Dissolved Oxygen	6.78	mg/L			Field	05/15/2015 904	
Turbidity	293	NTU			Field	05/15/2015 904	
Temperature	10.3	℃			Field	05/15/2015 904	
Oxygen Reduction Potential (ORP)	-92	mV			Field	05/15/2015 904	
Anions/Cations							
Alkalinity, Total (As CaCO3)	543	mg/L		5	SM 2320B	05/19/2015 1922	BT
Alkalinity, Bicarbonate as HCO3	577	mg/L		5	SM 2320B	05/19/2015 1922	BT
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	05/19/2015 1922	BT
Chloride	725	mg/L		1	EPA 300.0	05/22/2015 1440	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/19/2015 1922	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1239	AMB
Sulfate	36	mg/L		1	EPA 300.0	05/19/2015 1536	AB
Calcium	4	mg/L		1	EPA 200.7	05/18/2015 2047	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/18/2015 2047	DG
Potassium	39	mg/L		1	EPA 200.7	05/18/2015 2047	DG
Sodium	697	mg/L		1	EPA 200.7	05/18/2015 2047	DG
Nitrogen, Ammonia (As N)	0.9	mg/L		0.1	EPA 350.1	05/22/2015 821	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/19/2015 1922	BT
Electrical Conductivity	2250	µmhos/cm		5	SM 2510B	05/19/2015 1922	BT
Total Dissolved Solids (180)	1700	mg/L		10	SM 2540	05/18/2015 1658	BT
Data Quality							
Cation Sum	31.59	meq/L		0.01	SM 1030E	05/26/2015 1500	JJ
Anion Sum	32.05	meq/L		0.01	SM 1030E	05/26/2015 1500	JJ
Cation-Anion Balance (± 5%)	0.71	%		0.01	SM 1030E	05/26/2015 1500	JJ
Solids, Total Dissolved (Calc)	1830	mg/L		10	SM 1030E	05/26/2015 1500	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-001
ClientSample ID: MU1 DM7
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:04:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.4	mg/L		0.1	EPA 200.7	05/18/2015 2047	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/19/2015 008	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 008	MS
Boron	1.0	mg/L		0.1	EPA 200.7	05/18/2015 2047	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 008	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2047	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 008	MS
Iron	0.28	mg/L		0.05	EPA 200.7	05/18/2015 2047	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 008	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 917	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 008	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2047	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 008	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 008	MS
Uranium	0.0018	mg/L		0.0003	EPA 200.8	05/19/2015 008	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 008	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	05/18/2015 2047	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2109	MS
Metals - Total							
Iron	5.32	mg/L		0.05	EPA 200.7	05/19/2015 2314	DG
Manganese	0.09	mg/L		0.02	EPA 200.7	05/19/2015 2314	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-001
ClientSample ID: MU1 DM7
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:04:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.8	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	21.6	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	5.5	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	1.2	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/10/2015 1357	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/10/2015 1357	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 520	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 520	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 1310	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 1310	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/18/2015 1817	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/18/2015 1817	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-002
ClientSample ID: MU1 DM8
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:58:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.96	s.u.			Field	05/15/2015 958	
Conductivity	2500	µmhos/cm			Field	05/15/2015 958	
Dissolved Oxygen	5.14	mg/L			Field	05/15/2015 958	
Turbidity	50.4	NTU			Field	05/15/2015 958	
Temperature	10.10	℃			Field	05/15/2015 958	
Oxygen Reduction Potential (ORP)	+19	mV			Field	05/15/2015 958	
Anions/Cations							
Alkalinity, Total (As CaCO3)	437	mg/L		5	SM 2320B	05/19/2015 1935	BT
Alkalinity, Bicarbonate as HCO3	121	mg/L		5	SM 2320B	05/19/2015 1935	BT
Alkalinity, Carbonate as CO3	203	mg/L		5	SM 2320B	05/19/2015 1935	BT
Chloride	779	mg/L		1	EPA 300.0	05/22/2015 1456	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/19/2015 1935	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1241	AMB
Sulfate	24	mg/L		1	EPA 300.0	05/19/2015 1550	AB
Calcium	3	mg/L		1	EPA 200.7	05/18/2015 2101	DG
Magnesium	1	mg/L		1	EPA 200.7	05/18/2015 2101	DG
Potassium	35	mg/L		1	EPA 200.7	05/18/2015 2101	DG
Sodium	746	mg/L		1	EPA 200.7	05/18/2015 2101	DG
Nitrogen, Ammonia (As N)	1.4	mg/L		0.1	EPA 350.1	05/22/2015 822	AMB
General Parameters							
pH	10.3	s.u.		0.1	SM 4500 H B	05/19/2015 1935	BT
Electrical Conductivity	3070	µmhos/cm		5	SM 2510B	05/19/2015 1935	BT
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	05/18/2015 1700	BT
Data Quality							
Cation Sum	33.69	meq/L		0.01	SM 1030E	05/26/2015 1500	JJ
Anion Sum	31.25	meq/L		0.01	SM 1030E	05/26/2015 1500	JJ
Cation-Anion Balance (± 5%)	3.75	%		0.01	SM 1030E	05/26/2015 1500	JJ
Solids, Total Dissolved (Calc)	1850	mg/L		10	SM 1030E	05/26/2015 1500	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-002
ClientSample ID: MU1 DM8
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:58:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	05/18/2015 2101	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/19/2015 013	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 013	MS
Boron	1.0	mg/L		0.1	EPA 200.7	05/18/2015 2101	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 013	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2101	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 013	MS
Iron	0.12	mg/L		0.05	EPA 200.7	05/18/2015 2101	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 013	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 919	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 013	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2101	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 013	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 013	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 013	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 013	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	05/18/2015 2101	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2114	MS
Metals - Total							
Iron	1.77	mg/L		0.05	EPA 200.7	05/19/2015 2316	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2316	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-002
ClientSample ID: MU1 DM8
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:58:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	18.6	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	5.6	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/10/2015 1558	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/10/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 520	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 520	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 1310	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 1310	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/18/2015 1852	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/18/2015 1852	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-003
ClientSample ID: MU1 DM9
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:22:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	12.04	s.u.			Field	05/15/2015 922	
Conductivity	3120	µmhos/cm			Field	05/15/2015 922	
Dissolved Oxygen	2.79	mg/L			Field	05/15/2015 922	
Turbidity	86.1	NTU			Field	05/15/2015 922	
Temperature	10.8	℃			Field	05/15/2015 922	
Oxygen Reduction Potential (ORP)	-58	mV			Field	05/15/2015 922	
Anions/Cations							
Alkalinity, Total (As CaCO3)	453	mg/L		5	SM 2320B	05/19/2015 1948	BT
Alkalinity, Bicarbonate as HCO3	170	mg/L		5	SM 2320B	05/19/2015 1948	BT
Alkalinity, Carbonate as CO3	188	mg/L		5	SM 2320B	05/19/2015 1948	BT
Chloride	561	mg/L		1	EPA 300.0	05/19/2015 1604	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/19/2015 1948	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1242	AMB
Sulfate	78	mg/L		1	EPA 300.0	05/19/2015 1604	AB
Calcium	6	mg/L		1	EPA 200.7	05/18/2015 2103	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/18/2015 2103	DG
Potassium	59	mg/L		1	EPA 200.7	05/18/2015 2103	DG
Sodium	594	mg/L		1	EPA 200.7	05/18/2015 2103	DG
Nitrogen, Ammonia (As N)	1.6	mg/L		0.1	EPA 350.1	05/22/2015 823	AMB
General Parameters							
pH	10.1	s.u.		0.1	SM 4500 H B	05/19/2015 1948	BT
Electrical Conductivity	3210	µmhos/cm		5	SM 2510B	05/19/2015 1948	BT
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	05/18/2015 1701	BT
Data Quality							
Cation Sum	27.73	meq/L		0.01	SM 1030E	05/26/2015 1500	JJ
Anion Sum	26.57	meq/L		0.01	SM 1030E	05/26/2015 1500	JJ
Cation-Anion Balance (± 5%)	2.13	%		0.01	SM 1030E	05/26/2015 1500	JJ
Solids, Total Dissolved (Calc)	1570	mg/L		10	SM 1030E	05/26/2015 1500	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-003
ClientSample ID: MU1 DM9
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:22:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	1.4	mg/L		0.1	EPA 200.7	05/18/2015 2103	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/19/2015 019	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/19/2015 019	MS
Boron	0.7	mg/L		0.1	EPA 200.7	05/18/2015 2103	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/19/2015 019	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2103	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/19/2015 019	MS
Iron	0.10	mg/L		0.05	EPA 200.7	05/18/2015 2103	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/19/2015 019	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 921	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/19/2015 019	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2103	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/19/2015 019	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/19/2015 019	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 019	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/19/2015 019	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	05/18/2015 2103	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2120	MS
Metals - Total							
Iron	2.39	mg/L		0.05	EPA 200.7	05/19/2015 2318	DG
Manganese	0.06	mg/L		0.02	EPA 200.7	05/19/2015 2318	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505267001

ProjectName: Ross MU1 ISR
Lab ID: S1505267-003
ClientSample ID: MU1 DM9
COC: 152882

WorkOrder: S1505267
CollectionDate: 5/15/2015 9:22:00 AM
DateReceived: 5/16/2015 12:41:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	38.9	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/10/2015 1759	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/10/2015 1759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 520	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 520	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1602	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 1310	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 1310	MB
Radionuclides - Total							
Radon 222	194	pCi/L		100	ASTM D5072-09	05/18/2015 1928	WN
Radon-222 Precision (±)	11.5	pCi/L			ASTM D5072-09	05/18/2015 1928	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-003
ClientSample ID: MU1 DM10
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 10:22:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.47	s.u.			Field	05/15/2015 1022	
Conductivity	3378	µmhos/cm			Field	05/15/2015 1022	
Dissolved Oxygen	3.96	mg/L			Field	05/15/2015 1022	
Turbidity	275	NTU			Field	05/15/2015 1022	
Temperature	10.12	℃			Field	05/15/2015 1022	
Oxygen Reduction Potential (ORP)	-52	mV			Field	05/15/2015 1022	
Anions/Cations							
Alkalinity, Total (As CaCO3)	410	mg/L		5	SM 2320B	05/19/2015 1713	BT
Alkalinity, Bicarbonate as HCO3	292	mg/L		5	SM 2320B	05/19/2015 1713	BT
Alkalinity, Carbonate as CO3	103	mg/L		5	SM 2320B	05/19/2015 1713	BT
Chloride	647	mg/L		1	EPA 300.0	05/22/2015 751	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/19/2015 1713	BT
Nitrogen, Nitrate+Nitrite (as N)	0.8	mg/L		0.1	EPA 353.2	05/20/2015 1219	AMB
Sulfate	115	mg/L		1	EPA 300.0	05/19/2015 1634	AB
Calcium	4	mg/L		1	EPA 200.7	05/18/2015 2012	DG
Magnesium	1	mg/L		1	EPA 200.7	05/18/2015 2012	DG
Potassium	24	mg/L		1	EPA 200.7	05/18/2015 2012	DG
Sodium	712	mg/L		1	EPA 200.7	05/18/2015 2012	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/21/2015 1518	AMB
General Parameters							
pH	9.6	s.u.		0.1	SM 4500 H B	05/19/2015 1713	BT
Electrical Conductivity	2970	µmhos/cm		5	SM 2510B	05/19/2015 1713	BT
Total Dissolved Solids (180)	1740	mg/L		10	SM 2540	05/18/2015 1650	BT
Data Quality							
Cation Sum	31.92	meq/L		0.01	SM 1030E	05/28/2015 1503	JJ
Anion Sum	28.96	meq/L		0.01	SM 1030E	05/28/2015 1503	JJ
Cation-Anion Balance (± 5%)	4.86	%		0.01	SM 1030E	05/28/2015 1503	JJ
Solids, Total Dissolved (Calc)	1750	mg/L		10	SM 1030E	05/28/2015 1503	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-003
ClientSample ID: MU1 DM10
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 10:22:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.3	mg/L		0.1	EPA 200.7	05/18/2015 2012	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2258	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2258	MS
Boron	1.0	mg/L		0.1	EPA 200.7	05/18/2015 2012	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2258	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2012	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2258	MS
Iron	0.20	mg/L		0.05	EPA 200.7	05/18/2015 2012	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2258	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1423	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2258	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2012	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2258	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2258	MS
Uranium	0.0010	mg/L		0.0003	EPA 200.8	05/18/2015 2258	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2258	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 2012	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2020	MS
Metals - Total							
Iron	5.59	mg/L		0.05	EPA 200.7	05/19/2015 2231	DG
Manganese	0.07	mg/L		0.02	EPA 200.7	05/19/2015 2231	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-003
ClientSample ID: MU1 DM10
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 10:22:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	16.3	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	1.1	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/05/2015 1102	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/05/2015 1102	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 2216	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 2216	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1325	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1325	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 813	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/17/2015 1526	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/17/2015 1526	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-002
ClientSample ID: MU1 DM11
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 10:37:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.34	s.u.			Field	05/15/2015 1037	
Conductivity	2014	µmhos/cm			Field	05/15/2015 1037	
Dissolved Oxygen	4.44	mg/L			Field	05/15/2015 1037	
Turbidity	50.8	NTU			Field	05/15/2015 1037	
Temperature	10.5	℃			Field	05/15/2015 1037	
Oxygen Reduction Potential (ORP)	+5	mV			Field	05/15/2015 1037	
Anions/Cations							
Alkalinity, Total (As CaCO3)	507	mg/L		5	SM 2320B	05/27/2015 037	BT
Alkalinity, Bicarbonate as HCO3	422	mg/L		5	SM 2320B	05/27/2015 037	BT
Alkalinity, Carbonate as CO3	97	mg/L		5	SM 2320B	05/27/2015 037	BT
Chloride	537	mg/L		1	EPA 300.0	05/22/2015 1408	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/19/2015 1701	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1218	AMB
Sulfate	5	mg/L		1	EPA 300.0	05/24/2015 427	AB
Calcium	3	mg/L		1	EPA 200.7	05/27/2015 1223	DG
Magnesium	1	mg/L		1	EPA 200.7	05/27/2015 1223	DG
Potassium	36	mg/L		1	EPA 200.7	05/18/2015 2010	DG
Sodium	550	mg/L		1	EPA 200.7	05/27/2015 1223	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/21/2015 1517	AMB
General Parameters							
pH	9.4	s.u.		0.1	SM 4500 H B	05/27/2015 037	BT
Electrical Conductivity	2510	µmhos/cm		5	SM 2510B	05/19/2015 1701	BT
Total Dissolved Solids (180)	1400	mg/L		10	SM 2540	05/18/2015 1648	BT
Data Quality							
Cation Sum	25.13	meq/L		0.01	SM 1030E	05/28/2015 1503	JJ
Anion Sum	25.44	meq/L		0.01	SM 1030E	05/28/2015 1503	JJ
Cation-Anion Balance (± 5%)	0.61	%		0.01	SM 1030E	05/28/2015 1503	JJ
Solids, Total Dissolved (Calc)	1440	mg/L		10	SM 1030E	05/28/2015 1503	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-002
ClientSample ID: MU1 DM11
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 10:37:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	05/18/2015 2010	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2252	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2252	MS
Boron	0.9	mg/L		0.1	EPA 200.7	05/18/2015 2010	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2252	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2010	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2252	MS
Iron	0.28	mg/L		0.05	EPA 200.7	05/18/2015 2010	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2252	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1421	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2252	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2010	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2252	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2252	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/18/2015 2252	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2252	MS
Zinc	0.05	mg/L		0.01	EPA 200.7	05/18/2015 2010	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2014	MS
Metals - Total							
Iron	2.13	mg/L		0.05	EPA 200.7	05/19/2015 2228	DG
Manganese	0.03	mg/L		0.02	EPA 200.7	05/19/2015 2228	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/18/2015
Report ID S1505264001

ProjectName: Ross MU1 ISR
Lab ID: S1505264-002
ClientSample ID: MU1 DM11
COC: 153460

WorkOrder: S1505264
CollectionDate: 5/15/2015 10:37:00 AM
DateReceived: 5/16/2015 11:17:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	24.1	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	6.6	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	1.1	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/05/2015 801	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/05/2015 801	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 2216	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 2216	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 2014	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 2014	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1720	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1720	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1325	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1325	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/09/2015 813	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/09/2015 813	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/17/2015 1451	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/17/2015 1451	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-001
ClientSample ID: MU1 DM12
COC: 152862

WorkOrder: S1505230
CollectionDate: 5/14/2015 1:37:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.67	s.u.			Field	05/14/2015 1337	
Conductivity	3760	µmhos/cm			Field	05/14/2015 1337	
Dissolved Oxygen	3.51	mg/L			Field	05/14/2015 1337	
Turbidity	18.2	NTU			Field	05/14/2015 1337	
Temperature	11.8	℃			Field	05/14/2015 1337	
Oxygen Reduction Potential (ORP)	-106	mV			Field	05/14/2015 1337	
Anions/Cations							
Alkalinity, Total (As CaCO3)	529	mg/L		5	SM 2320B	05/18/2015 1114	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/18/2015 1114	BT
Alkalinity, Carbonate as CO3	180	mg/L		5	SM 2320B	05/18/2015 1114	BT
Chloride	316	mg/L		1	EPA 300.0	05/15/2015 1903	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	05/18/2015 1114	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1502	AMB
Sulfate	924	mg/L		1	EPA 300.0	05/15/2015 1903	AB
Calcium	5	mg/L		1	EPA 200.7	05/18/2015 1257	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/18/2015 1257	DG
Potassium	49	mg/L		1	EPA 200.7	05/18/2015 1257	DG
Sodium	936	mg/L		1	EPA 200.7	05/18/2015 1257	DG
Nitrogen, Ammonia (As N)	2.2	mg/L		0.1	EPA 350.1	05/22/2015 1107	AMB
General Parameters							
pH	11.7	s.u.		0.1	SM 4500 H B	05/18/2015 1114	BT
Electrical Conductivity	4630	µmhos/cm		5	SM 2510B	05/18/2015 1114	BT
Total Dissolved Solids (180)	2520	mg/L		10	SM 2540	05/15/2015 1507	BT
Data Quality							
Cation Sum	42.36	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Anion Sum	38.77	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Cation-Anion Balance (± 5%)	4.43	%		0.01	SM 1030E	05/26/2015 1554	JJ
Solids, Total Dissolved (Calc)	2550	mg/L		10	SM 1030E	05/26/2015 1554	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-001
ClientSample ID: MU1 DM12
COC: 152862

WorkOrder: S1505230
CollectionDate: 5/14/2015 1:37:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1257	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/15/2015 2334	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2334	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/18/2015 1257	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2334	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1257	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/15/2015 2334	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/18/2015 1257	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2334	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1216	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2334	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1257	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2334	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2334	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/15/2015 2334	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2334	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/18/2015 1257	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1414	MS
Metals - Total							
Iron	0.45	mg/L		0.05	EPA 200.7	05/19/2015 2022	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2022	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-001
ClientSample ID: MU1 DM12
COC: 152862

WorkOrder: S1505230
CollectionDate: 5/14/2015 1:37:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	20.1	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	9.0	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 312	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 312	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 1722	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 1722	MB
Radionuclides - Total							
Radon 222	347	pCi/L		100	ASTM D5072-09	05/17/2015 617	WN
Radon-222 Precision (±)	16.4	pCi/L			ASTM D5072-09	05/17/2015 617	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-002
ClientSample ID: MU1 DM13
COC: 152862

WorkOrder: S1505230
CollectionDate: 5/14/2015 1:23:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.92	s.u.			Field	05/14/2015 1323	
Conductivity	2447	µmhos/cm			Field	05/14/2015 1323	
Dissolved Oxygen	8.59	mg/L			Field	05/14/2015 1323	
Turbidity	31.2	NTU			Field	05/14/2015 1323	
Temperature	11.7	℃			Field	05/14/2015 1323	
Oxygen Reduction Potential (ORP)	+14	mV			Field	05/14/2015 1323	
Anions/Cations							
Alkalinity, Total (As CaCO3)	592	mg/L		5	SM 2320B	05/18/2015 1127	BT
Alkalinity, Bicarbonate as HCO3	195	mg/L		5	SM 2320B	05/18/2015 1127	BT
Alkalinity, Carbonate as CO3	259	mg/L		5	SM 2320B	05/18/2015 1127	BT
Chloride	562	mg/L		1	EPA 300.0	05/15/2015 1916	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	05/18/2015 1127	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1503	AMB
Sulfate	109	mg/L		1	EPA 300.0	05/15/2015 1916	AB
Calcium	4	mg/L		1	EPA 200.7	05/18/2015 1259	DG
Magnesium	1	mg/L		1	EPA 200.7	05/18/2015 1259	DG
Potassium	88	mg/L		1	EPA 200.7	05/18/2015 1259	DG
Sodium	653	mg/L		1	EPA 200.7	05/18/2015 1259	DG
Nitrogen, Ammonia (As N)	0.9	mg/L		0.1	EPA 350.1	05/22/2015 1109	AMB
General Parameters							
pH	10.2	s.u.		0.1	SM 4500 H B	05/18/2015 1127	BT
Electrical Conductivity	3030	µmhos/cm		5	SM 2510B	05/18/2015 1127	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	05/15/2015 1508	BT
Data Quality							
Cation Sum	31.01	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Anion Sum	30.03	meq/L		0.01	SM 1030E	05/26/2015 1554	JJ
Cation-Anion Balance (± 5%)	1.60	%		0.01	SM 1030E	05/26/2015 1554	JJ
Solids, Total Dissolved (Calc)	1770	mg/L		10	SM 1030E	05/26/2015 1554	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-002
ClientSample ID: MU1 DM13
COC: 152862

WorkOrder: S1505230
CollectionDate: 5/14/2015 1:23:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/18/2015 1259	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	05/15/2015 2339	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/15/2015 2339	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/18/2015 1259	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/15/2015 2339	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 1259	DG
Copper	0.01	mg/L		0.01	EPA 200.8	05/15/2015 2339	MS
Iron	0.10	mg/L		0.05	EPA 200.7	05/18/2015 1259	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/15/2015 2339	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 1218	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/15/2015 2339	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 1259	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/15/2015 2339	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/15/2015 2339	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	05/15/2015 2339	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/15/2015 2339	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	05/18/2015 1259	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1420	MS
Metals - Total							
Iron	0.51	mg/L		0.05	EPA 200.7	05/19/2015 2025	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/19/2015 2025	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/17/2015
Report ID S1505230001

ProjectName: Ross MU1 ISR
Lab ID: S1505230-002
ClientSample ID: MU1 DM13
COC: 152862

WorkOrder: S1505230
CollectionDate: 5/14/2015 1:23:00 PM
DateReceived: 5/15/2015 8:25:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/27/2015 2303	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/27/2015 2303	MB
Gross Beta	82.8	pCi/L		3	SM 7110B	05/27/2015 2303	MB
Gross Beta Precision (±)	7.6	pCi/L			SM 7110B	05/27/2015 2303	MB
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/02/2015 1316	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/02/2015 1316	MB
Radium 228	1.1	pCi/L		1	Ga-Tech	06/09/2015 513	MB
Radium 228 Precision (±)	1.2	pCi/L			Ga-Tech	06/09/2015 513	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/09/2015 2126	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/09/2015 2126	MB
Polonium 210	ND	pCi/L		1	OTW01	06/10/2015 1351	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1351	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1733	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1733	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/05/2015 2322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/05/2015 2322	MB
Radionuclides - Total							
Radon 222	118	pCi/L		100	ASTM D5072-09	05/17/2015 653	WN
Radon-222 Precision (±)	7.7	pCi/L			ASTM D5072-09	05/17/2015 653	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-003
ClientSample ID: MU1 DM14
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 8:47:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.95	s.u.			Field	05/15/2015 847	
Conductivity	2451	µmhos/cm			Field	05/15/2015 847	
Dissolved Oxygen	4.02	mg/L			Field	05/15/2015 847	
Turbidity	169	NTU			Field	05/15/2015 847	
Temperature	10.9	℃			Field	05/15/2015 847	
Oxygen Reduction Potential (ORP)	-227	mV			Field	05/15/2015 847	
Anions/Cations							
Alkalinity, Total (As CaCO3)	626	mg/L		5	SM 2320B	05/19/2015 1636	BT
Alkalinity, Bicarbonate as HCO3	283	mg/L		5	SM 2320B	05/19/2015 1636	BT
Alkalinity, Carbonate as CO3	237	mg/L		5	SM 2320B	05/19/2015 1636	BT
Chloride	447	mg/L		1	EPA 300.0	05/19/2015 528	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/19/2015 1636	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/20/2015 1215	AMB
Sulfate	277	mg/L		1	EPA 300.0	05/19/2015 528	AB
Calcium	4	mg/L		1	EPA 200.7	05/18/2015 2005	DG
Magnesium	1	mg/L		1	EPA 200.7	05/18/2015 2005	DG
Potassium	62	mg/L		1	EPA 200.7	05/18/2015 2005	DG
Sodium	649	mg/L		1	EPA 200.7	05/18/2015 2005	DG
Nitrogen, Ammonia (As N)	1.1	mg/L		0.1	EPA 350.1	05/21/2015 1514	AMB
General Parameters							
pH	10.1	s.u.		0.1	SM 4500 H B	05/19/2015 1636	BT
Electrical Conductivity	3100	µmhos/cm		5	SM 2510B	05/19/2015 1636	BT
Total Dissolved Solids (180)	1860	mg/L		10	SM 2540	05/18/2015 1646	BT
Data Quality							
Cation Sum	30.23	meq/L		0.01	SM 1030E	05/26/2015 1601	JJ
Anion Sum	30.95	meq/L		0.01	SM 1030E	05/26/2015 1601	JJ
Cation-Anion Balance (± 5%)	1.18	%		0.01	SM 1030E	05/26/2015 1601	JJ
Solids, Total Dissolved (Calc)	1820	mg/L		10	SM 1030E	05/26/2015 1601	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-003
ClientSample ID: MU1 DM14
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 8:47:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.5	mg/L		0.1	EPA 200.7	05/18/2015 2005	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/18/2015 2241	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/18/2015 2241	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/18/2015 2005	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/18/2015 2241	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/18/2015 2005	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/18/2015 2241	MS
Iron	0.31	mg/L		0.05	EPA 200.7	05/18/2015 2005	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/18/2015 2241	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/20/2015 1417	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/18/2015 2241	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/18/2015 2005	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/18/2015 2241	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/18/2015 2241	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/18/2015 2241	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/18/2015 2241	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	05/18/2015 2005	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/27/2015 2003	MS
Metals - Total							
Iron	4.56	mg/L		0.05	EPA 200.7	05/19/2015 2224	DG
Manganese	0.10	mg/L		0.02	EPA 200.7	05/19/2015 2224	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/24/2015
Report ID S1505263001

ProjectName: Ross MU1 ISR
Lab ID: S1505263-003
ClientSample ID: MU1 DM14
COC: 152881

WorkOrder: S1505263
CollectionDate: 5/15/2015 8:47:00 AM
DateReceived: 5/16/2015 10:34:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/01/2015 1952	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/01/2015 1952	MB
Gross Beta	39.8	pCi/L		3	SM 7110B	06/01/2015 1952	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	06/01/2015 1952	MB
Lead 210	1.8	pCi/L		1	OTW01	06/09/2015 1037	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/09/2015 1037	MB
Polonium 210	ND	pCi/L		1	OTW01	06/04/2015 1551	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/04/2015 1551	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/05/2015 1332	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/05/2015 1332	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/05/2015 159	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/05/2015 159	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/02/2015 2216	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/02/2015 2216	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1324	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 1324	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 829	MB
Radionuclides - Total							
Radon 222	201	pCi/L		100	ASTM D5072-09	05/17/2015 1340	WN
Radon-222 Precision (±)	11.1	pCi/L			ASTM D5072-09	05/17/2015 1340	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-001
ClientSample ID: OZ-1
COC: 160036

WorkOrder: S1505490
CollectionDate: 5/28/2015 12:09:00 PM
DateReceived: 5/28/2015 3:15:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.42	s.u.			Field	05/28/2015 1209	
Conductivity	2031	µmhos/cm			Field	05/28/2015 1209	
Dissolved Oxygen	1.51	mg/L			Field	05/28/2015 1209	
Turbidity	0.44	NTU			Field	05/28/2015 1209	
Temperature	11.7	℃			Field	05/28/2015 1209	
Flow Rate	18.71	gpm			Field	05/28/2015 1209	
Oxygen Reduction Potential (ORP)	+75	mV			Field	05/28/2015 1209	
Anions/Cations							
Alkalinity, Total (As CaCO3)	564	mg/L		5	SM 2320B	05/29/2015 2248	BT
Alkalinity, Bicarbonate as HCO3	622	mg/L		5	SM 2320B	05/29/2015 2248	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/29/2015 2248	BT
Chloride	6	mg/L		1	EPA 300.0	06/07/2015 1827	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/01/2015 2140	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1249	AMB
Sulfate	654	mg/L		1	EPA 300.0	06/07/2015 1827	AB
Calcium	7	mg/L		1	EPA 200.7	06/08/2015 1515	DG
Magnesium	3	mg/L		1	EPA 200.7	06/08/2015 1515	DG
Potassium	6	mg/L		1	EPA 200.7	06/08/2015 1515	DG
Sodium	620	mg/L		1	EPA 200.7	06/08/2015 1515	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1348	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2248	BT
Electrical Conductivity	2450	µmhos/cm		5	SM 2510B	05/29/2015 2248	BT
Total Dissolved Solids (180)	1740	mg/L		10	SM 2540	05/29/2015 1129	LJK
Data Quality							
Cation Sum	27.69	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Anion Sum	25.08	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Cation-Anion Balance (± 5%)	4.95	%		0.01	SM 1030E	06/15/2015 1408	JJ
Solids, Total Dissolved (Calc)	1630	mg/L		10	SM 1030E	06/15/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-001
ClientSample ID: OZ-1
COC: 160036

WorkOrder: S1505490
CollectionDate: 5/28/2015 12:09:00 PM
DateReceived: 5/28/2015 3:15:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1541	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1705	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1705	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1541	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1705	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1541	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1705	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1541	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1705	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1307	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1705	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1541	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1705	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1705	MS
Uranium	0.0539	mg/L		0.0003	EPA 200.8	05/29/2015 1705	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1705	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1541	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1825	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 211	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 211	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-001
ClientSample ID: OZ-1
COC: 160036

WorkOrder: S1505490
CollectionDate: 5/28/2015 12:09:00 PM
DateReceived: 5/28/2015 3:15:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	217	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	14.1	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	79.9	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	8.2	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	12.0	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	44.2	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	2.6	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	48.7	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	1.0	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 1255	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 1255	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	16.5	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	1.8	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1543	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1543	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 829	MB
Radionuclides - Total							
Radon 222	92300	pCi/L		100	ASTM D5072-09	05/29/2015 1451	WN
Radon-222 Precision (±)	1800	pCi/L			ASTM D5072-09	05/29/2015 1451	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-002
ClientSample ID: OZ-1 Dup
COC: 160036

WorkOrder: S1505490
CollectionDate: 5/28/2015 1:29:00 PM
DateReceived: 5/28/2015 3:15:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.42	s.u.			Field	05/28/2015 1329	
Conductivity	2031	µmhos/cm			Field	05/28/2015 1329	
Dissolved Oxygen	1.51	mg/L			Field	05/28/2015 1329	
Turbidity	0.44	NTU			Field	05/28/2015 1329	
Temperature	11.7	℃			Field	05/28/2015 1329	
Flow Rate	18.71	gpm			Field	05/28/2015 1329	
Oxygen Reduction Potential (ORP)	+75	mV			Field	05/28/2015 1329	
Anions/Cations							
Alkalinity, Total (As CaCO3)	539	mg/L		5	SM 2320B	05/29/2015 2257	BT
Alkalinity, Bicarbonate as HCO3	593	mg/L		5	SM 2320B	05/29/2015 2257	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/29/2015 2257	BT
Chloride	7	mg/L		1	EPA 300.0	06/07/2015 1840	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/01/2015 2144	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1259	AMB
Sulfate	663	mg/L		1	EPA 300.0	06/07/2015 1840	AB
Calcium	7	mg/L		1	EPA 200.7	06/08/2015 1517	DG
Magnesium	3	mg/L		1	EPA 200.7	06/08/2015 1517	DG
Potassium	6	mg/L		1	EPA 200.7	06/08/2015 1517	DG
Sodium	607	mg/L		1	EPA 200.7	06/08/2015 1517	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1349	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2257	BT
Electrical Conductivity	2450	µmhos/cm		5	SM 2510B	05/29/2015 2257	BT
Total Dissolved Solids (180)	1740	mg/L		10	SM 2540	05/29/2015 1130	LJK
Data Quality							
Cation Sum	27.13	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Anion Sum	24.80	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Cation-Anion Balance (± 5%)	4.49	%		0.01	SM 1030E	06/15/2015 1408	JJ
Solids, Total Dissolved (Calc)	1620	mg/L		10	SM 1030E	06/15/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-002
ClientSample ID: OZ-1 Dup
COC: 160036

WorkOrder: S1505490
CollectionDate: 5/28/2015 1:29:00 PM
DateReceived: 5/28/2015 3:15:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1543	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1710	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1710	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1543	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1710	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1543	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1710	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1543	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1710	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1314	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1710	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1543	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1710	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1710	MS
Uranium	0.0541	mg/L		0.0003	EPA 200.8	05/29/2015 1710	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1710	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1543	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1830	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 213	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 213	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-002
ClientSample ID: OZ-1 Dup
COC: 160036

WorkOrder: S1505490
CollectionDate: 5/28/2015 1:29:00 PM
DateReceived: 5/28/2015 3:15:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	218	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	14.6	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	75.0	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	8.0	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	13.0	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	43.5	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	2.6	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	46.2	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	1.0	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	1.4	pCi/L		1	Ga-Tech	06/15/2015 1456	MB
Radium 228 Precision (±)	1.3	pCi/L			Ga-Tech	06/15/2015 1456	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	2.4	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	7.6	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	1.2	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1543	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/12/2015 1543	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 829	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 829	MB
Radionuclides - Total							
Radon 222	91200	pCi/L		100	ASTM D5072-09	05/29/2015 1452	WN
Radon-222 Precision (±)	1780	pCi/L			ASTM D5072-09	05/29/2015 1452	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-005
ClientSample ID: MU1 OZ2
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:50:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.43	s.u.			Field	05/27/2015 1050	
Conductivity	1821	µmhos/cm			Field	05/27/2015 1050	
Dissolved Oxygen	2.08	mg/L			Field	05/27/2015 1050	
Turbidity	1.14	NTU			Field	05/27/2015 1050	
Temperature	11.6	℃			Field	05/27/2015 1050	
Oxygen Reduction Potential (ORP)	+174	mV			Field	05/27/2015 1050	
Anions/Cations							
Alkalinity, Total (As CaCO3)	543	mg/L		5	SM 2320B	05/28/2015 1624	BT
Alkalinity, Bicarbonate as HCO3	606	mg/L		5	SM 2320B	05/28/2015 1624	BT
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	05/28/2015 1624	BT
Chloride	6	mg/L		1	EPA 300.0	05/28/2015 2049	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/28/2015 1624	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1556	AMB
Sulfate	583	mg/L		1	EPA 300.0	05/28/2015 2049	AB
Calcium	6	mg/L		1	EPA 200.7	06/02/2015 1525	DG
Magnesium	2	mg/L		1	EPA 200.7	06/02/2015 1525	DG
Potassium	5	mg/L		1	EPA 200.7	06/02/2015 1525	DG
Sodium	560	mg/L		1	EPA 200.7	06/02/2015 1525	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/28/2015 1204	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1624	BT
Electrical Conductivity	2200	µmhos/cm		5	SM 2510B	05/28/2015 1624	BT
Total Dissolved Solids (180)	1530	mg/L		10	SM 2540	05/28/2015 1613	LJK
Data Quality							
Cation Sum	25.02	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Anion Sum	23.18	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Cation-Anion Balance (± 5%)	3.81	%		0.01	SM 1030E	06/04/2015 1217	JJ
Solids, Total Dissolved (Calc)	1490	mg/L		10	SM 1030E	06/04/2015 1217	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-005
ClientSample ID: MU1 OZ2
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:50:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1643	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1450	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1450	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1643	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1450	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1643	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1450	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1643	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1450	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1219	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1450	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1643	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1450	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1450	MS
Uranium	0.0597	mg/L		0.0003	EPA 200.8	05/28/2015 1450	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1450	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1643	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2344	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2040	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2040	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-005
ClientSample ID: MU1 OZ2
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:50:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	79.9	pCi/L		2	SM 7110B	06/29/2015 2221	MB
Gross Alpha Precision (±)	8.2	pCi/L			SM 7110B	06/29/2015 2221	MB
Gross Beta	29.4	pCi/L		3	SM 7110B	06/29/2015 2221	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	06/29/2015 2221	MB
Lead 210	4.0	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	1.1	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	10.7	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 504	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 504	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 830	MB
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1450	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1450	MB
Radionuclides - Total							
Radon 222	13900	pCi/L		100	ASTM D5072-09	05/28/2015 1531	WN
Radon-222 Precision (±)	278	pCi/L			ASTM D5072-09	05/28/2015 1531	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-006
ClientSample ID: MU1OZ2 Dup.
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:50:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.43	s.u.			Field	05/27/2015 1050	
Conductivity	1821	µmhos/cm			Field	05/27/2015 1050	
Dissolved Oxygen	2.08	mg/L			Field	05/27/2015 1050	
Turbidity	1.14	NTU			Field	05/27/2015 1050	
Temperature	11.6	℃			Field	05/27/2015 1050	
Oxygen Reduction Potential (ORP)	+174	mV			Field	05/27/2015 1050	
Anions/Cations							
Alkalinity, Total (As CaCO3)	533	mg/L		5	SM 2320B	05/28/2015 1636	BT
Alkalinity, Bicarbonate as HCO3	593	mg/L		5	SM 2320B	05/28/2015 1636	BT
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	05/28/2015 1636	BT
Chloride	6	mg/L		1	EPA 300.0	05/28/2015 2105	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/28/2015 1636	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1558	AMB
Sulfate	584	mg/L		1	EPA 300.0	05/28/2015 2105	AB
Calcium	6	mg/L		1	EPA 200.7	06/02/2015 1527	DG
Magnesium	2	mg/L		1	EPA 200.7	06/02/2015 1527	DG
Potassium	5	mg/L		1	EPA 200.7	06/02/2015 1527	DG
Sodium	558	mg/L		1	EPA 200.7	06/02/2015 1527	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/28/2015 1205	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1636	BT
Electrical Conductivity	2200	µmhos/cm		5	SM 2510B	05/28/2015 1636	BT
Total Dissolved Solids (180)	1510	mg/L		10	SM 2540	05/28/2015 1614	LJK
Data Quality							
Cation Sum	24.96	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Anion Sum	23.00	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Cation-Anion Balance (± 5%)	4.09	%		0.01	SM 1030E	06/04/2015 1217	JJ
Solids, Total Dissolved (Calc)	1480	mg/L		10	SM 1030E	06/04/2015 1217	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-006
ClientSample ID: MU1OZ2 Dup.
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:50:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1645	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1455	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1455	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1645	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1455	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1645	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1455	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1645	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1455	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1221	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1455	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1645	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1455	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1455	MS
Uranium	0.0682	mg/L		0.0003	EPA 200.8	05/28/2015 1455	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1455	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1645	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2349	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2043	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2043	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-006
ClientSample ID: MU1OZ2 Dup.
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:50:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	105	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	9.7	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	27.0	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	3.6	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	13.4	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 705	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 705	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 830	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1318	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1318	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1415	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1415	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1450	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1450	MB
Radionuclides - Total							
Radon 222	14200	pCi/L		100	ASTM D5072-09	05/28/2015 1536	WN
Radon-222 Precision (±)	284	pCi/L			ASTM D5072-09	05/28/2015 1536	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-008
ClientSample ID: MU1 OZ3
COC: 158860

WorkOrder: S1505528
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.43	s.u.			Field	05/28/2015 1426	
Conductivity	2636	µmhos/cm			Field	05/28/2015 1426	
Dissolved Oxygen	4.35	mg/L			Field	05/28/2015 1426	
Turbidity	1.37	NTU			Field	05/28/2015 1426	
Temperature	12.0	℃			Field	05/28/2015 1426	
Oxygen Reduction Potential (ORP)	-176	mV			Field	05/28/2015 1426	
Anions/Cations							
Alkalinity, Total (As CaCO3)	501	mg/L		5	SM 2320B	06/03/2015 100	LJK
Alkalinity, Bicarbonate as HCO3	561	mg/L		5	SM 2320B	06/03/2015 100	LJK
Alkalinity, Carbonate as CO3	25	mg/L		5	SM 2320B	06/03/2015 100	LJK
Chloride	11	mg/L		1	EPA 300.0	06/03/2015 757	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/04/2015 1548	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1343	AMB
Sulfate	1080	mg/L		1	EPA 300.0	06/03/2015 757	AB
Calcium	10	mg/L		1	EPA 200.7	06/01/2015 2130	DG
Magnesium	4	mg/L		1	EPA 200.7	06/01/2015 2130	DG
Potassium	9	mg/L		1	EPA 200.7	06/01/2015 2130	DG
Sodium	750	mg/L		1	EPA 200.7	06/01/2015 2130	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/02/2015 1116	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/03/2015 100	LJK
Electrical Conductivity	3150	µmhos/cm		5	SM 2510B	06/03/2015 100	LJK
Total Dissolved Solids (180)	2260	mg/L		10	SM 2540	06/01/2015 2152	TS
Data Quality							
Cation Sum	33.73	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	32.77	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	1.44	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	2160	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-008
ClientSample ID: MU1 OZ3
COC: 158860

WorkOrder: S1505528
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2130	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1901	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1901	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2130	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1901	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2130	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1901	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2130	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1901	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1243	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1901	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2130	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1901	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1901	MS
Uranium	0.0545	mg/L		0.0003	EPA 200.8	06/01/2015 1901	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1901	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2130	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1522	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	06/02/2015 2154	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2154	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-008
ClientSample ID: MU1 OZ3
COC: 158860

WorkOrder: S1505528
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	62.4	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	8.4	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	24.9	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	6.6	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	4.0	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1549	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/16/2015 1549	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 217	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 217	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	1.2	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	4540	pCi/L		100	ASTM D5072-09	05/31/2015 1315	WN
Radon-222 Precision (±)	90.7	pCi/L			ASTM D5072-09	05/31/2015 1315	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-009
ClientSample ID: MU1 OZ3 Dup
COC: 158860

WorkOrder: S1505528
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.43	s.u.			Field	05/28/2015 1426	
Conductivity	2636	µmhos/cm			Field	05/28/2015 1426	
Dissolved Oxygen	4.35	mg/L			Field	05/28/2015 1426	
Turbidity	1.37	NTU			Field	05/28/2015 1426	
Temperature	12.0	℃			Field	05/28/2015 1426	
Oxygen Reduction Potential (ORP)	-176	mV			Field	05/28/2015 1426	
Anions/Cations							
Alkalinity, Total (As CaCO3)	492	mg/L		5	SM 2320B	06/03/2015 109	LJK
Alkalinity, Bicarbonate as HCO3	547	mg/L		5	SM 2320B	06/03/2015 109	LJK
Alkalinity, Carbonate as CO3	26	mg/L		5	SM 2320B	06/03/2015 109	LJK
Chloride	12	mg/L		1	EPA 300.0	06/03/2015 811	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/04/2015 1553	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1345	AMB
Sulfate	1110	mg/L		1	EPA 300.0	06/03/2015 811	AB
Calcium	10	mg/L		1	EPA 200.7	06/01/2015 2133	DG
Magnesium	4	mg/L		1	EPA 200.7	06/01/2015 2133	DG
Potassium	9	mg/L		1	EPA 200.7	06/01/2015 2133	DG
Sodium	742	mg/L		1	EPA 200.7	06/01/2015 2133	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/02/2015 1117	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/03/2015 109	LJK
Electrical Conductivity	3150	µmhos/cm		5	SM 2510B	06/03/2015 109	LJK
Total Dissolved Solids (180)	2260	mg/L		10	SM 2540	06/01/2015 2153	TS
Data Quality							
Cation Sum	33.36	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	33.30	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	0.09	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	2180	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-009
ClientSample ID: MU1 OZ3 Dup
COC: 158860

WorkOrder: S1505528
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2133	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1907	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1907	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2133	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1907	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2133	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1907	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2133	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1907	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1245	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1907	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2133	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1907	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1907	MS
Uranium	0.0584	mg/L		0.0003	EPA 200.8	06/01/2015 1907	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1907	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2133	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1526	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	06/02/2015 2157	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2157	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-009
ClientSample ID: MU1 OZ3 Dup
COC: 158860

WorkOrder: S1505528
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	73.2	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	8.5	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	14.9	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	5.3	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	3.6	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1549	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/16/2015 1549	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 418	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 418	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	1.3	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	1.7	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	4450	pCi/L		100	ASTM D5072-09	05/31/2015 1337	WN
Radon-222 Precision (±)	89.0	pCi/L			ASTM D5072-09	05/31/2015 1337	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-003
ClientSample ID: MU1-OZ 4
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015 1:33:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	05/27/2015 1333	
Conductivity	1849	µmhos/cm			Field	05/27/2015 1333	
Dissolved Oxygen	0.08	mg/L			Field	05/27/2015 1333	
Turbidity	4.41	NTU			Field	05/27/2015 1333	
Depth to Water	94.81	ft			Field	05/27/2015 1333	
Temperature	11.4	℃			Field	05/27/2015 1333	
Oxygen Reduction Potential (ORP)	-213.5	mV			Field	05/27/2015 1333	
Anions/Cations							
Alkalinity, Total (As CaCO3)	539	mg/L		5	SM 2320B	05/28/2015 1714	BT
Alkalinity, Bicarbonate as HCO3	592	mg/L		5	SM 2320B	05/28/2015 1714	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	05/28/2015 1714	BT
Chloride	6	mg/L		1	EPA 300.0	05/28/2015 2152	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/28/2015 1714	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1602	AMB
Sulfate	610	mg/L		1	EPA 300.0	05/28/2015 2152	AB
Calcium	7	mg/L		1	EPA 200.7	06/05/2015 1606	DG
Magnesium	3	mg/L		1	EPA 200.7	06/05/2015 1606	DG
Potassium	6	mg/L		1	EPA 200.7	06/05/2015 1606	DG
Sodium	545	mg/L		1	EPA 200.7	06/05/2015 1606	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/28/2015 1209	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/28/2015 1714	BT
Electrical Conductivity	2240	µmhos/cm		5	SM 2510B	05/28/2015 1714	BT
Total Dissolved Solids (180)	1550	mg/L		10	SM 2540	05/28/2015 1617	LJK
Data Quality							
Cation Sum	24.48	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Anion Sum	23.66	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Cation-Anion Balance (± 5%)	1.70	%		0.01	SM 1030E	06/08/2015 1129	JJ
Solids, Total Dissolved (Calc)	1500	mg/L		10	SM 1030E	06/08/2015 1129	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-003
ClientSample ID: MU1-OZ 4
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015 1:33:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1706	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1538	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1538	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1706	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1538	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1706	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1538	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1706	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1538	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1235	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1538	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1706	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1538	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1538	MS
Uranium	0.0897	mg/L		0.0003	EPA 200.8	05/28/2015 1538	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1538	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	05/28/2015 1706	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/30/2015 006	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/28/2015 2103	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2103	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-003
ClientSample ID: MU1-OZ 4
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015 1:33:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	120	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	10.5	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	29.6	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	4.4	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	1.7	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	2.6	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 1709	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 1709	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1308	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1308	MB
Radionuclides - Suspended							
Lead 210	1.7	pCi/L		1	OTW01	06/16/2015 1318	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/16/2015 1318	MB
Polonium 210	1.8	pCi/L		1	OTW01	06/17/2015 1415	MB
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/17/2015 1415	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1450	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1450	MB
Radionuclides - Total							
Radon 222	20600	pCi/L		100	ASTM D5072-09	05/28/2015 1550	WN
Radon-222 Precision (±)	412	pCi/L			ASTM D5072-09	05/28/2015 1550	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-002
ClientSample ID: MU1-OZ-6
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 10:06:00 AM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.00	s.u.			Field	05/28/2015 1006	
Conductivity	2995	µmhos/cm			Field	05/28/2015 1006	
Dissolved Oxygen	0.10	mg/L			Field	05/28/2015 1006	
Turbidity	1.00	NTU			Field	05/28/2015 1006	
Depth to Water	94.55	ft			Field	05/28/2015 1006	
Temperature	11.6	℃			Field	05/28/2015 1006	
Oxygen Reduction Potential (ORP)	-207	mV			Field	05/28/2015 1006	
Anions/Cations							
Alkalinity, Total (As CaCO3)	436	mg/L		5	SM 2320B	05/29/2015 2106	BT
Alkalinity, Bicarbonate as HCO3	449	mg/L		5	SM 2320B	05/29/2015 2106	BT
Alkalinity, Carbonate as CO3	40	mg/L		5	SM 2320B	05/29/2015 2106	BT
Chloride	13	mg/L		1	EPA 300.0	05/31/2015 450	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/01/2015 2051	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1225	AMB
Sulfate	1200	mg/L		1	EPA 300.0	05/31/2015 450	AB
Calcium	6	mg/L		1	EPA 200.7	05/29/2015 1452	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1452	DG
Potassium	12	mg/L		1	EPA 200.7	05/29/2015 1452	DG
Sodium	829	mg/L		1	EPA 200.7	05/29/2015 1452	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1222	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/29/2015 2106	BT
Electrical Conductivity	3380	µmhos/cm		5	SM 2510B	05/29/2015 2106	BT
Total Dissolved Solids (180)	2470	mg/L		10	SM 2540	05/29/2015 1118	LJK
Data Quality							
Cation Sum	37.00	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Anion Sum	34.09	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Cation-Anion Balance (± 5%)	4.09	%		0.01	SM 1030E	06/04/2015 1229	JJ
Solids, Total Dissolved (Calc)	2330	mg/L		10	SM 1030E	06/04/2015 1229	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-002
ClientSample ID: MU1-OZ-6
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 10:06:00 AM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1452	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1521	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1521	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1452	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1521	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1452	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1521	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1452	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1521	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1227	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1521	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1452	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1521	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1521	MS
Uranium	0.175	mg/L		0.0003	EPA 200.8	05/29/2015 1521	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1521	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1452	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1703	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	06/02/2015 133	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 133	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-002
ClientSample ID: MU1-OZ-6
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 10:06:00 AM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	263	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	16.3	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	103	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	8.3	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	9.0	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	11.9	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	1.4	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	43.5	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/14/2015 313	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/14/2015 313	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	4.1	pCi/L		1	OTW01	06/18/2015 1254	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/18/2015 1254	MB
Polonium 210	4.5	pCi/L		1	OTW01	06/23/2015 1512	MB
Polonium 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	06/23/2015 1512	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	99700	pCi/L		100	ASTM D5072-09	05/29/2015 1313	WN
Radon-222 Precision (±)	1960	pCi/L			ASTM D5072-09	05/29/2015 1313	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-006
ClientSample ID: MU1-OZ7
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 9:36:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.31	s.u.			Field	05/29/2015 936	
Conductivity	2166	µmhos/cm			Field	05/29/2015 936	
Dissolved Oxygen	1.46	mg/L			Field	05/29/2015 936	
Turbidity	0.94	NTU			Field	05/29/2015 936	
Temperature	11.1	℃			Field	05/29/2015 936	
Oxygen Reduction Potential (ORP)	-159.6	mV			Field	05/29/2015 936	
Anions/Cations							
Alkalinity, Total (As CaCO3)	512	mg/L		5	SM 2320B	06/02/2015 2306	LJK
Alkalinity, Bicarbonate as HCO3	580	mg/L		5	SM 2320B	06/02/2015 2306	LJK
Alkalinity, Carbonate as CO3	22	mg/L		5	SM 2320B	06/02/2015 2306	LJK
Chloride	10	mg/L		1	EPA 300.0	06/02/2015 1700	AB
Fluoride	0.1	mg/L		0.1	SM 4500FC	06/04/2015 1453	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1318	AMB
Sulfate	864	mg/L		1	EPA 300.0	06/02/2015 1700	AB
Calcium	10	mg/L		1	EPA 200.7	06/01/2015 2037	DG
Magnesium	4	mg/L		1	EPA 200.7	06/01/2015 2037	DG
Potassium	7	mg/L		1	EPA 200.7	06/01/2015 2037	DG
Sodium	676	mg/L		1	EPA 200.7	06/01/2015 2037	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/01/2015 1524	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	06/02/2015 2306	LJK
Electrical Conductivity	2780	µmhos/cm		5	SM 2510B	06/02/2015 2306	LJK
Total Dissolved Solids (180)	1950	mg/L		10	SM 2540	06/01/2015 2140	TS
Data Quality							
Cation Sum	30.48	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	28.51	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	3.33	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1880	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-006
ClientSample ID: MU1-OZ7
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 9:36:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2037	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1723	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1723	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2037	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1723	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2037	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1723	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2037	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1723	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1208	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1723	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2037	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1723	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1723	MS
Uranium	0.131	mg/L		0.0003	EPA 200.8	06/01/2015 1723	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1723	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2037	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1409	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 2115	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2115	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-006
ClientSample ID: MU1-OZ7
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 9:36:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	308	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	17.9	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	109	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	8.9	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	91.1	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1333	MB
Radium 226 Precision (±)	1.3	pCi/L			SM 7500 Ra-B	06/16/2015 1333	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 1638	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 1638	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 826	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 826	MB
Radionuclides - Suspended							
Lead 210	16.8	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	1.1	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	11.1	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	1.5	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	106000	pCi/L		100	ASTM D5072-09	05/31/2015 809	WN
Radon-222 Precision (±)	2110	pCi/L			ASTM D5072-09	05/31/2015 809	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-005
ClientSample ID: MU1-OZ8
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 1:03:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.61	s.u.			Field	05/29/2015 1303	
Conductivity	2096	µmhos/cm			Field	05/29/2015 1303	
Dissolved Oxygen	0.37	mg/L			Field	05/29/2015 1303	
Turbidity	9.56	NTU			Field	05/29/2015 1303	
Temperature	11.4	℃			Field	05/29/2015 1303	
Oxygen Reduction Potential (ORP)	-206.5	mV			Field	05/29/2015 1303	
Anions/Cations							
Alkalinity, Total (As CaCO3)	557	mg/L		5	SM 2320B	06/02/2015 2246	LJK
Alkalinity, Bicarbonate as HCO3	614	mg/L		5	SM 2320B	06/02/2015 2246	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/02/2015 2246	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 1524	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/04/2015 1449	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1316	AMB
Sulfate	531	mg/L		1	EPA 300.0	06/02/2015 1524	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2035	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2035	DG
Potassium	5	mg/L		1	EPA 200.7	06/01/2015 2035	DG
Sodium	520	mg/L		1	EPA 200.7	06/01/2015 2035	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/01/2015 1523	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 2246	LJK
Electrical Conductivity	2120	µmhos/cm		5	SM 2510B	06/02/2015 2246	LJK
Total Dissolved Solids (180)	1440	mg/L		10	SM 2540	06/01/2015 2139	TS
Data Quality							
Cation Sum	23.19	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	22.35	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	1.83	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1400	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-005
ClientSample ID: MU1-OZ8
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 1:03:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2035	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1718	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1718	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2035	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1718	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2035	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1718	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2035	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1718	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1206	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1718	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2035	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1718	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1718	MS
Uranium	0.140	mg/L		0.0003	EPA 200.8	06/01/2015 1718	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1718	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2035	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1405	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	06/02/2015 2106	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2106	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-005
ClientSample ID: MU1-OZ8
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 1:03:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	179	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	13.1	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	50.6	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	7.3	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	12.8	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1333	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	06/16/2015 1333	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/18/2015 1211	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/18/2015 1211	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 826	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 826	MB
Radionuclides - Suspended							
Lead 210	7.3	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	23.5	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	2.3	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	49800	pCi/L		100	ASTM D5072-09	05/31/2015 808	WN
Radon-222 Precision (±)	991	pCi/L			ASTM D5072-09	05/31/2015 808	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-001
ClientSample ID: MU1-OZ9
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/27/2015 3:56:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.89	s.u.			Field	05/27/2015 1556	
Conductivity	1821	µmhos/cm			Field	05/27/2015 1556	
Dissolved Oxygen	0.15	mg/L			Field	05/27/2015 1556	
Turbidity	3.79	NTU			Field	05/27/2015 1556	
Depth to Water	94.44	ft			Field	05/27/2015 1556	
Temperature	11.1	℃			Field	05/27/2015 1556	
Oxygen Reduction Potential (ORP)	-232.6	mV			Field	05/27/2015 1556	
Anions/Cations							
Alkalinity, Total (As CaCO3)	576	mg/L		5	SM 2320B	05/29/2015 2011	BT
Alkalinity, Bicarbonate as HCO3	597	mg/L		5	SM 2320B	05/29/2015 2011	BT
Alkalinity, Carbonate as CO3	52	mg/L		5	SM 2320B	05/29/2015 2011	BT
Chloride	5	mg/L		1	EPA 300.0	05/31/2015 207	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/01/2015 2011	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1217	AMB
Sulfate	550	mg/L		1	EPA 300.0	05/31/2015 207	AB
Calcium	4	mg/L		1	EPA 200.7	05/29/2015 1427	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1427	DG
Potassium	11	mg/L		1	EPA 200.7	05/29/2015 1427	DG
Sodium	567	mg/L		1	EPA 200.7	05/29/2015 1427	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1208	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/29/2015 2011	BT
Electrical Conductivity	2210	µmhos/cm		5	SM 2510B	05/29/2015 2011	BT
Total Dissolved Solids (180)	1520	mg/L		10	SM 2540	05/29/2015 1112	LJK
Data Quality							
Cation Sum	25.29	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Anion Sum	23.12	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Cation-Anion Balance (± 5%)	4.47	%		0.01	SM 1030E	06/04/2015 1225	JJ
Solids, Total Dissolved (Calc)	1480	mg/L		10	SM 1030E	06/04/2015 1225	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-001
ClientSample ID: MU1-OZ9
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/27/2015 3:56:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1427	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1421	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1421	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1427	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1421	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1427	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1421	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1427	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1421	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1213	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1421	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1427	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1421	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1421	MS
Uranium	0.0848	mg/L		0.0003	EPA 200.8	05/29/2015 1421	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1421	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1427	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1625	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 107	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 107	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-001
ClientSample ID: MU1-OZ9
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/27/2015 3:56:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	174	pCi/L		2	SM 7110B	06/08/2015 2007	MB
Gross Alpha Precision (±)	12.5	pCi/L			SM 7110B	06/08/2015 2007	MB
Gross Beta	75.7	pCi/L		3	SM 7110B	06/08/2015 2007	MB
Gross Beta Precision (±)	7.9	pCi/L			SM 7110B	06/08/2015 2007	MB
Lead 210	11.8	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	13.3	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	1.3	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	27.5	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/16/2015 1104	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/16/2015 1104	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1308	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1308	MB
Radionuclides - Suspended							
Lead 210	5.1	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	15.9	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	1.8	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	85400	pCi/L		100	ASTM D5072-09	05/29/2015 1044	WN
Radon-222 Precision (±)	1690	pCi/L			ASTM D5072-09	05/29/2015 1044	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-002
ClientSample ID: MUI-OZ10
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 11:36:00 AM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.63	s.u.			Field	05/28/2015 1136	
Conductivity	2171	µmhos/cm			Field	05/28/2015 1136	
Dissolved Oxygen	0.25	mg/L			Field	05/28/2015 1136	
Turbidity	1.81	NTU			Field	05/28/2015 1136	
Temperature	11.6	℃			Field	05/28/2015 1136	
Oxygen Reduction Potential (ORP)	-162.5	mV			Field	05/28/2015 1136	
Anions/Cations							
Alkalinity, Total (As CaCO3)	536	mg/L		5	SM 2320B	05/29/2015 2210	BT
Alkalinity, Bicarbonate as HCO3	581	mg/L		5	SM 2320B	05/29/2015 2210	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/29/2015 2210	BT
Chloride	9	mg/L		1	EPA 300.0	06/03/2015 325	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/01/2015 2117	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1243	AMB
Sulfate	759	mg/L		1	EPA 300.0	06/03/2015 325	AB
Calcium	5	mg/L		1	EPA 200.7	06/02/2015 1542	DG
Magnesium	2	mg/L		1	EPA 200.7	06/02/2015 1542	DG
Potassium	8	mg/L		1	EPA 200.7	06/02/2015 1542	DG
Sodium	652	mg/L		1	EPA 200.7	06/02/2015 1542	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1343	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/29/2015 2210	BT
Electrical Conductivity	2610	µmhos/cm		5	SM 2510B	05/29/2015 2210	BT
Total Dissolved Solids (180)	1830	mg/L		10	SM 2540	05/29/2015 1125	LJK
Data Quality							
Cation Sum	29.05	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Anion Sum	26.80	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Cation-Anion Balance (± 5%)	4.01	%		0.01	SM 1030E	06/04/2015 1233	JJ
Solids, Total Dissolved (Calc)	1760	mg/L		10	SM 1030E	06/04/2015 1233	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-002
ClientSample ID: MUI-OZ10
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 11:36:00 AM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1519	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1632	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1632	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1519	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1632	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1519	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1632	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1519	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1632	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1254	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1632	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1519	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1632	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1632	MS
Uranium	0.0296	mg/L		0.0003	EPA 200.8	05/29/2015 1632	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1632	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1519	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1803	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 154	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 154	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-002
ClientSample ID: MUI-OZ10
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 11:36:00 AM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	32.5	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	5.7	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	17.8	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	5.5	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	1.5	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	1.7	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 452	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 452	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1254	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1254	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1512	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1512	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1542	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1542	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	3960	pCi/L		100	ASTM D5072-09	05/29/2015 1417	WN
Radon-222 Precision (±)	79.1	pCi/L			ASTM D5072-09	05/29/2015 1417	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-007
ClientSample ID: MU1 OZ 11
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 3:16:00 PM
DateReceived: 5/28/2015 8:15:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.46	s.u.			Field	05/27/2015 1516	
Conductivity	2195	µmhos/cm			Field	05/27/2015 1516	
Dissolved Oxygen	6.65	mg/L			Field	05/27/2015 1516	
Turbidity	0.74	NTU			Field	05/27/2015 1516	
Temperature	12.0	℃			Field	05/27/2015 1516	
Oxygen Reduction Potential (ORP)	+123	mV			Field	05/27/2015 1516	
Anions/Cations							
Alkalinity, Total (As CaCO3)	536	mg/L		5	SM 2320B	06/03/2015 924	LJK
Alkalinity, Bicarbonate as HCO3	583	mg/L		5	SM 2320B	06/03/2015 924	LJK
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	06/03/2015 924	LJK
Chloride	9	mg/L		1	EPA 300.0	06/03/2015 406	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/03/2015 1822	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1323	AMB
Sulfate	793	mg/L		1	EPA 300.0	06/03/2015 406	AB
Calcium	9	mg/L		1	EPA 200.7	06/02/2015 1556	DG
Magnesium	3	mg/L		1	EPA 200.7	06/02/2015 1556	DG
Potassium	6	mg/L		1	EPA 200.7	06/02/2015 1556	DG
Sodium	667	mg/L		1	EPA 200.7	06/02/2015 1556	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1411	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/03/2015 924	LJK
Electrical Conductivity	2660	µmhos/cm		5	SM 2510B	05/30/2015 043	BT
Total Dissolved Solids (180)	1860	mg/L		10	SM 2540	05/29/2015 1141	LJK
Data Quality							
Cation Sum	29.88	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Anion Sum	27.51	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Cation-Anion Balance (± 5%)	4.14	%		0.01	SM 1030E	06/08/2015 825	JJ
Solids, Total Dissolved (Calc)	1810	mg/L		10	SM 1030E	06/08/2015 825	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-007
ClientSample ID: MU1 OZ 11
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 3:16:00 PM
DateReceived: 5/28/2015 8:15:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1619	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1831	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1831	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1619	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1831	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1619	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1831	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1619	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1831	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1349	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1831	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1619	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1831	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1831	MS
Uranium	0.0702	mg/L		0.0003	EPA 200.8	05/29/2015 1831	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1831	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1619	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1321	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 306	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 306	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-007
ClientSample ID: MU1 OZ 11
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 3:16:00 PM
DateReceived: 5/28/2015 8:15:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	110	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	10.5	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	34.8	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	6.9	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	1.8	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	19.7	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	2.4	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	6.9	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/16/2015 702	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/16/2015 702	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 1329	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 1329	MB
Radionuclides - Suspended							
Lead 210	3.2	pCi/L		1	OTW01	06/19/2015 1532	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/19/2015 1532	MB
Polonium 210	5.0	pCi/L		1	OTW01	06/24/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/24/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1716	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1716	MB
Radionuclides - Total							
Radon 222	16300	pCi/L		100	ASTM D5072-09	05/29/2015 1859	WN
Radon-222 Precision (±)	326	pCi/L			ASTM D5072-09	05/29/2015 1859	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-008
ClientSample ID: MU1 OZ 11 Dup.
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 3:16:00 PM
DateReceived: 5/28/2015 8:15:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.46	s.u.			Field	05/27/2015 1516	
Conductivity	2195	µmhos/cm			Field	05/27/2015 1516	
Dissolved Oxygen	6.65	mg/L			Field	05/27/2015 1516	
Turbidity	0.74	NTU			Field	05/27/2015 1516	
Temperature	12.0	℃			Field	05/27/2015 1516	
Oxygen Reduction Potential (ORP)	+123	mV			Field	05/27/2015 1516	
Anions/Cations							
Alkalinity, Total (As CaCO3)	528	mg/L		5	SM 2320B	06/03/2015 934	LJK
Alkalinity, Bicarbonate as HCO3	570	mg/L		5	SM 2320B	06/03/2015 934	LJK
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	06/03/2015 934	LJK
Chloride	9	mg/L		1	EPA 300.0	06/03/2015 420	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/03/2015 1827	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1325	AMB
Sulfate	790	mg/L		1	EPA 300.0	06/03/2015 420	AB
Calcium	9	mg/L		1	EPA 200.7	06/02/2015 1558	DG
Magnesium	3	mg/L		1	EPA 200.7	06/02/2015 1558	DG
Potassium	6	mg/L		1	EPA 200.7	06/02/2015 1558	DG
Sodium	669	mg/L		1	EPA 200.7	06/02/2015 1558	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1412	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/03/2015 934	LJK
Electrical Conductivity	2670	µmhos/cm		5	SM 2510B	05/30/2015 101	BT
Total Dissolved Solids (180)	1900	mg/L		10	SM 2540	05/29/2015 1143	LJK
Data Quality							
Cation Sum	29.96	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Anion Sum	27.29	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Cation-Anion Balance (± 5%)	4.66	%		0.01	SM 1030E	06/08/2015 825	JJ
Solids, Total Dissolved (Calc)	1800	mg/L		10	SM 1030E	06/08/2015 825	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-008
ClientSample ID: MU1 OZ 11 Dup.
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 3:16:00 PM
DateReceived: 5/28/2015 8:15:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1624	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1837	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1837	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1624	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1837	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1624	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1837	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1624	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1837	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1351	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1837	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1624	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1837	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1837	MS
Uranium	0.0784	mg/L		0.0003	EPA 200.8	05/29/2015 1837	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1837	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1624	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1327	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	06/02/2015 308	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 308	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-008
ClientSample ID: MU1 OZ 11 Dup.
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 3:16:00 PM
DateReceived: 5/28/2015 8:15:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	122	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	11.4	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	28.8	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	6.8	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	2.3	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	18.9	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	2.3	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	6.5	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/16/2015 903	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/16/2015 903	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 1329	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 1329	MB
Radionuclides - Suspended							
Lead 210	2.9	pCi/L		1	OTW01	06/19/2015 1532	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/19/2015 1532	MB
Polonium 210	2.1	pCi/L		1	OTW01	06/24/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/24/2015 1051	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1716	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1716	MB
Radionuclides - Total							
Radon 222	15400	pCi/L		100	ASTM D5072-09	05/29/2015 1905	WN
Radon-222 Precision (±)	308	pCi/L			ASTM D5072-09	05/29/2015 1905	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-007
ClientSample ID: MU1-OZ12
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 11:41:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.34	s.u.			Field	05/29/2015 1141	
Conductivity	2101	µmhos/cm			Field	05/29/2015 1141	
Dissolved Oxygen	0.37	mg/L			Field	05/29/2015 1141	
Turbidity	1.19	NTU			Field	05/29/2015 1141	
Temperature	11.4	℃			Field	05/29/2015 1141	
Oxygen Reduction Potential (ORP)	-195.1	mV			Field	05/29/2015 1141	
Anions/Cations							
Alkalinity, Total (As CaCO3)	515	mg/L		5	SM 2320B	06/02/2015 2315	LJK
Alkalinity, Bicarbonate as HCO3	584	mg/L		5	SM 2320B	06/02/2015 2315	LJK
Alkalinity, Carbonate as CO3	22	mg/L		5	SM 2320B	06/02/2015 2315	LJK
Chloride	10	mg/L		1	EPA 300.0	06/02/2015 1713	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/04/2015 1458	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1319	AMB
Sulfate	805	mg/L		1	EPA 300.0	06/02/2015 1713	AB
Calcium	9	mg/L		1	EPA 200.7	06/01/2015 2040	DG
Magnesium	3	mg/L		1	EPA 200.7	06/01/2015 2040	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 2040	DG
Sodium	663	mg/L		1	EPA 200.7	06/01/2015 2040	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/01/2015 1526	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	06/02/2015 2315	LJK
Electrical Conductivity	2680	µmhos/cm		5	SM 2510B	06/02/2015 2315	LJK
Total Dissolved Solids (180)	1870	mg/L		10	SM 2540	06/01/2015 2141	TS
Data Quality							
Cation Sum	29.71	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	27.39	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	4.07	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1810	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-007
ClientSample ID: MU1-OZ12
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 11:41:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2040	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1729	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1729	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/01/2015 2040	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1729	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2040	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1729	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2040	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1729	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1210	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1729	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2040	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1729	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1729	MS
Uranium	0.0017	mg/L		0.0003	EPA 200.8	06/01/2015 1729	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1729	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2040	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1421	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	06/02/2015 2117	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2117	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-007
ClientSample ID: MU1-OZ12
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 11:41:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	8.2	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	3.7	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	11.5	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	6.1	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	4.2	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1334	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/16/2015 1334	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/21/2015 609	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/21/2015 609	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	ND	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	2710	pCi/L		100	ASTM D5072-09	05/31/2015 839	WN
Radon-222 Precision (±)	54.2	pCi/L			ASTM D5072-09	05/31/2015 839	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-004
ClientSample ID: MU1 OZ13
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 12:35:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	06/01/2015 1235	
Conductivity	2925	µmhos/cm			Field	06/01/2015 1235	
Dissolved Oxygen	2.10	mg/L			Field	06/01/2015 1235	
Turbidity	6.58	NTU			Field	06/01/2015 1235	
Temperature	15.0	℃			Field	06/01/2015 1235	
Oxygen Reduction Potential (ORP)	+129	mV			Field	06/01/2015 1235	
Anions/Cations							
Alkalinity, Total (As CaCO3)	520	mg/L		5	SM 2320B	06/05/2015 053	LJK
Alkalinity, Bicarbonate as HCO3	561	mg/L		5	SM 2320B	06/05/2015 053	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/05/2015 053	LJK
Chloride	12	mg/L		1	EPA 300.0	06/06/2015 1822	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/05/2015 053	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1152	AMB
Sulfate	1150	mg/L		1	EPA 300.0	06/06/2015 1822	AB
Calcium	8	mg/L		1	EPA 200.7	06/03/2015 1602	DG
Magnesium	3	mg/L		1	EPA 200.7	06/03/2015 1602	DG
Potassium	12	mg/L		1	EPA 200.7	06/03/2015 1602	DG
Sodium	789	mg/L		1	EPA 200.7	06/03/2015 1602	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/08/2015 1555	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/05/2015 053	LJK
Electrical Conductivity	3200	µmhos/cm		5	SM 2510B	06/05/2015 053	LJK
Total Dissolved Solids (180)	2330	mg/L		10	SM 2540	06/03/2015 1552	TS
Data Quality							
Cation Sum	35.31	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Anion Sum	34.67	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Cation-Anion Balance (± 5%)	0.90	%		0.01	SM 1030E	06/15/2015 1412	JJ
Solids, Total Dissolved (Calc)	2290	mg/L		10	SM 1030E	06/15/2015 1412	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-004
ClientSample ID: MU1 OZ13
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 12:35:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/03/2015 1602	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/04/2015 1609	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/04/2015 1609	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/03/2015 1602	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/04/2015 1609	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/03/2015 1602	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/04/2015 1609	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/03/2015 1602	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/04/2015 1609	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/12/2015 1045	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/04/2015 1609	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/03/2015 1602	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/04/2015 1609	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/04/2015 1609	MS
Uranium	0.0536	mg/L		0.0003	EPA 200.8	06/04/2015 1609	MS
Vanadium	0.02	mg/L		0.02	EPA 200.8	06/04/2015 1609	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/03/2015 1602	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1543	MS
Metals - Total							
Iron	0.29	mg/L		0.05	EPA 200.7	06/05/2015 240	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/05/2015 240	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-004
ClientSample ID: MU1 OZ13
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 12:35:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	142	pCi/L		2	SM 7110B	06/16/2015 2020	MB
Gross Alpha Precision (±)	12.8	pCi/L			SM 7110B	06/16/2015 2020	MB
Gross Beta	77.7	pCi/L		3	SM 7110B	06/16/2015 2020	MB
Gross Beta Precision (±)	8.4	pCi/L			SM 7110B	06/16/2015 2020	MB
Lead 210	6.8	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	3.6	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	37.2	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	1.1	pCi/L		1	Ga-Tech	06/22/2015 1222	MB
Radium 228 Precision (±)	1.5	pCi/L			Ga-Tech	06/22/2015 1222	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	2.9	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	1.1	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 947	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 947	MB
Radionuclides - Total							
Radon 222	37000	pCi/L		100	ASTM D5072-09	06/03/2015 103	WN
Radon-222 Precision (±)	739	pCi/L			ASTM D5072-09	06/03/2015 103	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-005
ClientSample ID: MU1 OZ13 Dup
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 12:35:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	06/01/2015 1235	
Conductivity	2925	µmhos/cm			Field	06/01/2015 1235	
Dissolved Oxygen	2.10	mg/L			Field	06/01/2015 1235	
Turbidity	6.58	NTU			Field	06/01/2015 1235	
Temperature	15.0	℃			Field	06/01/2015 1235	
Oxygen Reduction Potential (ORP)	+129	mV			Field	06/01/2015 1235	
Anions/Cations							
Alkalinity, Total (As CaCO3)	515	mg/L		5	SM 2320B	06/05/2015 104	LJK
Alkalinity, Bicarbonate as HCO3	555	mg/L		5	SM 2320B	06/05/2015 104	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/05/2015 104	LJK
Chloride	12	mg/L		1	EPA 300.0	06/06/2015 1835	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/05/2015 104	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1153	AMB
Sulfate	1060	mg/L		1	EPA 300.0	06/06/2015 1835	AB
Calcium	8	mg/L		1	EPA 200.7	06/03/2015 1615	DG
Magnesium	3	mg/L		1	EPA 200.7	06/03/2015 1615	DG
Potassium	12	mg/L		1	EPA 200.7	06/03/2015 1615	DG
Sodium	786	mg/L		1	EPA 200.7	06/03/2015 1615	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/08/2015 1556	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/05/2015 104	LJK
Electrical Conductivity	3190	µmhos/cm		5	SM 2510B	06/05/2015 104	LJK
Total Dissolved Solids (180)	2320	mg/L		10	SM 2540	06/03/2015 1553	TS
Data Quality							
Cation Sum	35.19	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Anion Sum	32.67	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Cation-Anion Balance (± 5%)	3.72	%		0.01	SM 1030E	06/15/2015 1412	JJ
Solids, Total Dissolved (Calc)	2190	mg/L		10	SM 1030E	06/15/2015 1412	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-005
ClientSample ID: MU1 OZ13 Dup
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 12:35:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/03/2015 1615	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/04/2015 1615	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/04/2015 1615	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/03/2015 1615	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/04/2015 1615	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/03/2015 1615	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/04/2015 1615	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/03/2015 1615	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/04/2015 1615	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/12/2015 1047	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/04/2015 1615	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/03/2015 1615	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/04/2015 1615	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/04/2015 1615	MS
Uranium	0.0561	mg/L		0.0003	EPA 200.8	06/04/2015 1615	MS
Vanadium	0.02	mg/L		0.02	EPA 200.8	06/04/2015 1615	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/03/2015 1615	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/09/2015 2052	MS
Metals - Total							
Iron	0.69	mg/L		0.05	EPA 200.7	06/05/2015 244	DG
Manganese	0.03	mg/L		0.02	EPA 200.7	06/05/2015 244	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-005
ClientSample ID: MU1 OZ13 Dup
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 12:35:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	172	pCi/L		2	SM 7110B	06/16/2015 2020	MB
Gross Alpha Precision (±)	13.5	pCi/L			SM 7110B	06/16/2015 2020	MB
Gross Beta	95.1	pCi/L		3	SM 7110B	06/16/2015 2020	MB
Gross Beta Precision (±)	8.7	pCi/L			SM 7110B	06/16/2015 2020	MB
Lead 210	9.8	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	1.4	pCi/L		1	OTW01	06/24/2015 1259	MB
Polonium 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/24/2015 1259	MB
Radium 226	42.4	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 1423	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 1423	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 825	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 825	MB
Radionuclides - Suspended							
Lead 210	2.3	pCi/L		1	OTW01	06/26/2015 1254	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/26/2015 1254	MB
Polonium 210	ND	pCi/L		1	OTW01	06/26/2015 1456	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/26/2015 1456	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1347	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1347	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/26/2015 845	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/26/2015 845	MB
Radionuclides - Total							
Radon 222	38100	pCi/L		100	ASTM D5072-09	06/03/2015 108	WN
Radon-222 Precision (±)	758	pCi/L			ASTM D5072-09	06/03/2015 108	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-003
ClientSample ID: MU1-OZ14
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 10:20:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.75	s.u.			Field	05/29/2015 1020	
Conductivity	2131	µmhos/cm			Field	05/29/2015 1020	
Dissolved Oxygen	2.13	mg/L			Field	05/29/2015 1020	
Turbidity	11.5	NTU			Field	05/29/2015 1020	
Temperature	11.1	℃			Field	05/29/2015 1020	
Oxygen Reduction Potential (ORP)	39.5	mV			Field	05/29/2015 1020	
Anions/Cations							
Alkalinity, Total (As CaCO3)	538	mg/L		5	SM 2320B	06/02/2015 2227	LJK
Alkalinity, Bicarbonate as HCO3	583	mg/L		5	SM 2320B	06/02/2015 2227	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/02/2015 2227	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 1457	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/04/2015 1438	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1313	AMB
Sulfate	558	mg/L		1	EPA 300.0	06/02/2015 1457	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2030	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2030	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 2030	DG
Sodium	533	mg/L		1	EPA 200.7	06/01/2015 2030	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/01/2015 1520	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/02/2015 2227	LJK
Electrical Conductivity	2170	µmhos/cm		5	SM 2510B	06/02/2015 2227	LJK
Total Dissolved Solids (180)	1490	mg/L		10	SM 2540	06/01/2015 2137	TS
Data Quality							
Cation Sum	23.81	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	22.53	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	2.75	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1430	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-003
ClientSample ID: MU1-OZ14
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 10:20:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2030	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1652	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1652	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2030	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1652	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2030	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1652	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2030	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1652	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1156	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1652	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2030	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1652	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1652	MS
Uranium	0.0646	mg/L		0.0003	EPA 200.8	06/01/2015 1652	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1652	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2030	DG
Metals - Suspended							
Uranium	0.0011	mg/L		0.0003	EPA 200.8	06/08/2015 1344	MS
Metals - Total							
Iron	0.25	mg/L		0.05	EPA 200.7	06/02/2015 2056	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2056	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-003
ClientSample ID: MU1-OZ14
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 10:20:00 AM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	84.9	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	8.8	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	25.4	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	6.4	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	4.8	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1333	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/16/2015 1333	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/18/2015 809	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/18/2015 809	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	2.6	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	1.2	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	0.4	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	12300	pCi/L		100	ASTM D5072-09	05/31/2015 759	WN
Radon-222 Precision (±)	245	pCi/L			ASTM D5072-09	05/31/2015 759	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-004
ClientSample ID: MU1-OZ14 Dup
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	543	mg/L		5	SM 2320B	06/02/2015 2237	LJK
Alkalinity, Bicarbonate as HCO3	584	mg/L		5	SM 2320B	06/02/2015 2237	LJK
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	06/02/2015 2237	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 1511	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/04/2015 1443	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1315	AMB
Sulfate	563	mg/L		1	EPA 300.0	06/02/2015 1511	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2033	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2033	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 2033	DG
Sodium	535	mg/L		1	EPA 200.7	06/01/2015 2033	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/01/2015 1522	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/02/2015 2237	LJK
Electrical Conductivity	2170	µmhos/cm		5	SM 2510B	06/02/2015 2237	LJK
Total Dissolved Solids (180)	1470	mg/L		10	SM 2540	06/01/2015 2138	TS
Data Quality							
Cation Sum	23.91	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	22.72	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	2.54	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1440	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-004
ClientSample ID: MU1-OZ14 Dup
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2033	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1713	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1713	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2033	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1713	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2033	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1713	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2033	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1713	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1204	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1713	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2033	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1713	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1713	MS
Uranium	0.0641	mg/L		0.0003	EPA 200.8	06/01/2015 1713	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1713	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2033	DG
Metals - Suspended							
Uranium	0.0013	mg/L		0.0003	EPA 200.8	06/08/2015 1400	MS
Metals - Total							
Iron	0.24	mg/L		0.05	EPA 200.7	06/02/2015 2103	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2103	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-004
ClientSample ID: MU1-OZ14 Dup
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	83.0	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	9.0	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	28.2	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	1.1	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	4.1	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1333	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/16/2015 1333	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/18/2015 1010	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/18/2015 1010	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 826	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 826	MB
Radionuclides - Suspended							
Lead 210	3.0	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	1.7	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	0.3	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	12800	pCi/L		100	ASTM D5072-09	05/31/2015 806	WN
Radon-222 Precision (±)	256	pCi/L			ASTM D5072-09	05/31/2015 806	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-003
ClientSample ID: MUI-OZ15
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 1:34:00 PM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.60	s.u.			Field	05/28/2015 1334	
Conductivity	2006	µmhos/cm			Field	05/28/2015 1334	
Dissolved Oxygen	0.26	mg/L			Field	05/28/2015 1334	
Turbidity	0.61	NTU			Field	05/28/2015 1334	
Temperature	11.4	℃			Field	05/28/2015 1334	
Oxygen Reduction Potential (ORP)	-191.6	mV			Field	05/28/2015 1334	
Anions/Cations							
Alkalinity, Total (As CaCO3)	562	mg/L		5	SM 2320B	05/29/2015 2220	BT
Alkalinity, Bicarbonate as HCO3	620	mg/L		5	SM 2320B	05/29/2015 2220	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/29/2015 2220	BT
Chloride	6	mg/L		1	EPA 300.0	05/31/2015 625	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/01/2015 2126	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1244	AMB
Sulfate	716	mg/L		1	EPA 300.0	05/31/2015 625	AB
Calcium	8	mg/L		1	EPA 200.7	05/29/2015 1521	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1521	DG
Potassium	7	mg/L		1	EPA 200.7	05/29/2015 1521	DG
Sodium	643	mg/L		1	EPA 200.7	05/29/2015 1521	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1344	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/29/2015 2220	BT
Electrical Conductivity	2590	µmhos/cm		5	SM 2510B	05/29/2015 2220	BT
Total Dissolved Solids (180)	1840	mg/L		10	SM 2540	05/29/2015 1126	LJK
Data Quality							
Cation Sum	28.80	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Anion Sum	26.33	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Cation-Anion Balance (± 5%)	4.47	%		0.01	SM 1030E	06/04/2015 1233	JJ
Solids, Total Dissolved (Calc)	1720	mg/L		10	SM 1030E	06/04/2015 1233	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-003
ClientSample ID: MUI-OZ15
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 1:34:00 PM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1521	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1637	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1637	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1521	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1637	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1521	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1637	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1521	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1637	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1256	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1637	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1521	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1637	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1637	MS
Uranium	0.144	mg/L		0.0003	EPA 200.8	05/29/2015 1637	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1637	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1521	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1808	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 204	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 204	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-003
ClientSample ID: MUI-OZ15
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 1:34:00 PM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	617	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	24.4	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	243	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	11.9	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	27.0	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	29.8	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	2.1	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	215	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	2.1	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 652	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 652	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	4.3	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	8.4	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	1.2	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1542	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/12/2015 1542	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	219000	pCi/L		100	ASTM D5072-09	05/29/2015 1418	WN
Radon-222 Precision (±)	4080	pCi/L			ASTM D5072-09	05/29/2015 1418	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-004
ClientSample ID: OZ15 Dup
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	635	mg/L		5	SM 2320B	06/03/2015 905	LJK
Alkalinity, Bicarbonate as HCO3	692	mg/L		5	SM 2320B	06/03/2015 905	LJK
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	06/03/2015 905	LJK
Chloride	7	mg/L		1	EPA 300.0	06/03/2015 339	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/01/2015 2131	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1246	AMB
Sulfate	757	mg/L		1	EPA 300.0	06/03/2015 339	AB
Calcium	7	mg/L		1	EPA 200.7	06/02/2015 1551	DG
Magnesium	3	mg/L		1	EPA 200.7	06/02/2015 1551	DG
Potassium	7	mg/L		1	EPA 200.7	06/02/2015 1551	DG
Sodium	646	mg/L		1	EPA 200.7	06/02/2015 1551	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1345	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/03/2015 905	LJK
Electrical Conductivity	2580	µmhos/cm		5	SM 2510B	05/29/2015 2229	BT
Total Dissolved Solids (180)	1850	mg/L		10	SM 2540	05/29/2015 1127	LJK
Data Quality							
Cation Sum	28.89	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Anion Sum	28.67	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Cation-Anion Balance (± 5%)	0.38	%		0.01	SM 1030E	06/04/2015 1233	JJ
Solids, Total Dissolved (Calc)	1810	mg/L		10	SM 1030E	06/04/2015 1233	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-004
ClientSample ID: OZ15 Dup
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1525	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1654	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1654	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1525	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1654	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1525	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1654	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1525	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1654	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1258	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1654	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1525	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1654	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1654	MS
Uranium	0.145	mg/L		0.0003	EPA 200.8	05/29/2015 1654	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1654	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1525	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1814	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 206	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 206	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-004
ClientSample ID: OZ15 Dup
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	606	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	24.8	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	223	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	11.7	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	26.6	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	1.4	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	28.0	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	2.1	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	213	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	1.9	pCi/L		1	Ga-Tech	06/15/2015 853	MB
Radium 228 Precision (±)	1.9	pCi/L			Ga-Tech	06/15/2015 853	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	4.0	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	4.3	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1543	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/12/2015 1543	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	230000	pCi/L		100	ASTM D5072-09	05/29/2015 1419	WN
Radon-222 Precision (±)	4390	pCi/L			ASTM D5072-09	05/29/2015 1419	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-003
ClientSample ID: MU1 OZ 16
COC: 158714

WorkOrder: S1505490
CollectionDate: 5/27/2015 3:32:00 PM
DateReceived: 5/28/2015 8:09:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.6	s.u.			Field	05/27/2015 1532	
Conductivity	1944	µmhos/cm			Field	05/27/2015 1532	
Dissolved Oxygen	5.45	mg/L			Field	05/27/2015 1532	
Turbidity	1.87	NTU			Field	05/27/2015 1532	
Temperature	11.5	℃			Field	05/27/2015 1532	
Oxygen Reduction Potential (ORP)	152	mV			Field	05/27/2015 1532	
Anions/Cations							
Alkalinity, Total (As CaCO3)	523	mg/L		5	SM 2320B	05/29/2015 2315	BT
Alkalinity, Bicarbonate as HCO3	565	mg/L		5	SM 2320B	05/29/2015 2315	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/29/2015 2315	BT
Chloride	6	mg/L		1	EPA 300.0	06/07/2015 1854	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/01/2015 2149	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1301	AMB
Sulfate	633	mg/L		1	EPA 300.0	06/07/2015 1854	AB
Calcium	5	mg/L		1	EPA 200.7	06/08/2015 1526	DG
Magnesium	2	mg/L		1	EPA 200.7	06/08/2015 1526	DG
Potassium	7	mg/L		1	EPA 200.7	06/08/2015 1526	DG
Sodium	590	mg/L		1	EPA 200.7	06/08/2015 1526	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1351	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/29/2015 2315	BT
Electrical Conductivity	2370	µmhos/cm		5	SM 2510B	05/29/2015 2315	BT
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	05/29/2015 1132	LJK
Data Quality							
Cation Sum	26.22	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Anion Sum	23.81	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Cation-Anion Balance (± 5%)	4.81	%		0.01	SM 1030E	06/15/2015 1408	JJ
Solids, Total Dissolved (Calc)	1560	mg/L		10	SM 1030E	06/15/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-003
ClientSample ID: MU1 OZ 16
COC: 158714

WorkOrder: S1505490
CollectionDate: 5/27/2015 3:32:00 PM
DateReceived: 5/28/2015 8:09:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1545	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1716	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1716	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1545	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1716	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1545	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1716	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1545	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1716	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1316	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1716	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1545	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1716	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1716	MS
Uranium	0.124	mg/L		0.0003	EPA 200.8	05/29/2015 1716	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1716	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1545	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1836	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 216	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 216	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-003
ClientSample ID: MU1 OZ 16
COC: 158714

WorkOrder: S1505490
CollectionDate: 5/27/2015 3:32:00 PM
DateReceived: 5/28/2015 8:09:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	172	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	13.1	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	48.8	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	7.2	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	5.2	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	6.7	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	18.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 1657	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 1657	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 920	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 920	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1543	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1543	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1301	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1301	MB
Radionuclides - Total							
Radon 222	26700	pCi/L		100	ASTM D5072-09	05/29/2015 1456	WN
Radon-222 Precision (±)	533	pCi/L			ASTM D5072-09	05/29/2015 1456	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-002
ClientSample ID: MU1-OZ-17
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 9:52:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	05/29/2015 952	
Conductivity	2174	µmhos/cm			Field	05/29/2015 952	
Dissolved Oxygen	0.12	mg/L			Field	05/29/2015 952	
Turbidity	0.66	NTU			Field	05/29/2015 952	
Depth to Water	16.41	ft			Field	05/29/2015 952	
Temperature	11.1	℃			Field	05/29/2015 952	
Oxygen Reduction Potential (ORP)	-212.9	mV			Field	05/29/2015 952	
Anions/Cations							
Alkalinity, Total (As CaCO3)	578	mg/L		5	SM 2320B	06/02/2015 2354	LJK
Alkalinity, Bicarbonate as HCO3	641	mg/L		5	SM 2320B	06/02/2015 2354	LJK
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	06/02/2015 2354	LJK
Chloride	6	mg/L		1	EPA 300.0	06/03/2015 514	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/24/2015 212	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1334	AMB
Sulfate	625	mg/L		1	EPA 300.0	06/03/2015 514	AB
Calcium	6	mg/L		1	EPA 200.7	06/01/2015 2103	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2103	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 2103	DG
Sodium	548	mg/L		1	EPA 200.7	06/01/2015 2103	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1056	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 2354	LJK
Electrical Conductivity	2320	µmhos/cm		5	SM 2510B	06/02/2015 2354	LJK
Total Dissolved Solids (180)	1570	mg/L		10	SM 2540	06/01/2015 2145	TS
Data Quality							
Cation Sum	24.48	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	24.80	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	0.64	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-002
ClientSample ID: MU1-OZ-17
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 9:52:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2103	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1802	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1802	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2103	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1802	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2103	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1802	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2103	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1802	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1218	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1802	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2103	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1802	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1802	MS
Uranium	0.194	mg/L		0.0003	EPA 200.8	06/01/2015 1802	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1802	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2103	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1437	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	06/02/2015 2126	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2126	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-002
ClientSample ID: MU1-OZ-17
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 9:52:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	424	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	19.9	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	152	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	10.1	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	1.3	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	15.5	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	63.4	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1548	MB
Radium 226 Precision (±)	1.0	pCi/L			SM 7500 Ra-B	06/16/2015 1548	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/21/2015 1413	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/21/2015 1413	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	13.5	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	0.9	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	18.5	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	2.0	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	1.1	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	114000	pCi/L		100	ASTM D5072-09	05/31/2015 1043	WN
Radon-222 Precision (±)	2270	pCi/L			ASTM D5072-09	05/31/2015 1043	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-006
ClientSample ID: MU1-OZ-17 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 9:52:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	560	mg/L		5	SM 2320B	06/03/2015 041	LJK
Alkalinity, Bicarbonate as HCO3	617	mg/L		5	SM 2320B	06/03/2015 041	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/03/2015 041	LJK
Chloride	5	mg/L		1	EPA 300.0	06/03/2015 730	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/04/2015 1539	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1340	AMB
Sulfate	638	mg/L		1	EPA 300.0	06/03/2015 730	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2112	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2112	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 2112	DG
Sodium	544	mg/L		1	EPA 200.7	06/01/2015 2112	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1101	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/03/2015 041	LJK
Electrical Conductivity	2310	µmhos/cm		5	SM 2510B	06/03/2015 041	LJK
Total Dissolved Solids (180)	1590	mg/L		10	SM 2540	06/01/2015 2150	TS
Data Quality							
Cation Sum	24.33	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	24.64	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	0.64	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-006
ClientSample ID: MU1-OZ-17 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 9:52:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2112	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1839	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1839	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2112	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1839	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2112	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1839	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2112	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1839	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1239	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1839	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2112	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1839	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1839	MS
Uranium	0.198	mg/L		0.0003	EPA 200.8	06/01/2015 1839	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1839	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2112	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1514	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 2150	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2150	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-006
ClientSample ID: MU1-OZ-17 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 9:52:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	423	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	19.8	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	161	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	10.1	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	8.8	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	21.0	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	2.1	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	61.1	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1549	MB
Radium 226 Precision (±)	1.0	pCi/L			SM 7500 Ra-B	06/16/2015 1549	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/21/2015 2216	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/21/2015 2216	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	13.6	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	25.8	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	2.6	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	1.1	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	112000	pCi/L		100	ASTM D5072-09	05/31/2015 1217	WN
Radon-222 Precision (±)	2230	pCi/L			ASTM D5072-09	05/31/2015 1217	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-002
ClientSample ID: MU1-OZ18
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/28/2015 5:04:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.70	s.u.			Field	05/28/2015 1704	
Conductivity	1818	µmhos/cm			Field	05/28/2015 1704	
Dissolved Oxygen	0.53	mg/L			Field	05/28/2015 1704	
Turbidity	1.44	NTU			Field	05/28/2015 1704	
Temperature	11.2	℃			Field	05/28/2015 1704	
Oxygen Reduction Potential (ORP)	-156.3	mV			Field	05/28/2015 1704	
Anions/Cations							
Alkalinity, Total (As CaCO3)	577	mg/L		5	SM 2320B	06/02/2015 2218	LJK
Alkalinity, Bicarbonate as HCO3	635	mg/L		5	SM 2320B	06/02/2015 2218	LJK
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	06/02/2015 2218	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 1443	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/04/2015 1417	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1312	AMB
Sulfate	643	mg/L		1	EPA 300.0	06/02/2015 1443	AB
Calcium	6	mg/L		1	EPA 200.7	06/01/2015 2017	DG
Magnesium	3	mg/L		1	EPA 200.7	06/01/2015 2017	DG
Potassium	9	mg/L		1	EPA 200.7	06/01/2015 2017	DG
Sodium	571	mg/L		1	EPA 200.7	06/01/2015 2017	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/01/2015 1511	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 2218	LJK
Electrical Conductivity	2380	µmhos/cm		5	SM 2510B	06/02/2015 2218	LJK
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	06/01/2015 2136	TS
Data Quality							
Cation Sum	25.60	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	25.09	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	1.01	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1580	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-002
ClientSample ID: MU1-OZ18
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/28/2015 5:04:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2017	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1625	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1625	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2017	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1625	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2017	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1625	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2017	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1625	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1151	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1625	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2017	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1625	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1625	MS
Uranium	0.142	mg/L		0.0003	EPA 200.8	06/01/2015 1625	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1625	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2017	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1510	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 2052	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2052	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-002
ClientSample ID: MU1-OZ18
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/28/2015 5:04:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	160	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	12.3	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	38.1	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	7.0	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	1.5	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	3.1	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1333	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/16/2015 1333	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/18/2015 608	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/18/2015 608	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.8	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 806	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 806	MB
Radionuclides - Total							
Radon 222	10600	pCi/L		100	ASTM D5072-09	05/31/2015 752	WN
Radon-222 Precision (±)	211	pCi/L			ASTM D5072-09	05/31/2015 752	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-004
ClientSample ID: MU1 OZ19
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 11:59:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.82	s.u.			Field	05/29/2015 1159	
Conductivity	2200	µmhos/cm			Field	05/29/2015 1159	
Dissolved Oxygen	5.15	mg/L			Field	05/29/2015 1159	
Turbidity	3.02	NTU			Field	05/29/2015 1159	
Temperature	12.9	℃			Field	05/29/2015 1159	
Oxygen Reduction Potential (ORP)	+92	mV			Field	05/29/2015 1159	
Anions/Cations							
Alkalinity, Total (As CaCO3)	541	mg/L		5	SM 2320B	06/02/2015 324	LJK
Alkalinity, Bicarbonate as HCO3	560	mg/L		5	SM 2320B	06/02/2015 324	LJK
Alkalinity, Carbonate as CO3	49	mg/L		5	SM 2320B	06/02/2015 324	LJK
Chloride	11	mg/L		1	EPA 300.0	06/02/2015 957	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/04/2015 1300	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1229	AMB
Sulfate	739	mg/L		1	EPA 300.0	06/02/2015 957	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 1910	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 1910	DG
Potassium	15	mg/L		1	EPA 200.7	06/01/2015 1910	DG
Sodium	605	mg/L		1	EPA 200.7	06/01/2015 1910	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/01/2015 1442	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	06/02/2015 324	LJK
Electrical Conductivity	2610	µmhos/cm		5	SM 2510B	06/02/2015 324	LJK
Total Dissolved Solids (180)	1780	mg/L		10	SM 2540	06/01/2015 2119	TS
Data Quality							
Cation Sum	27.12	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Anion Sum	26.52	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Cation-Anion Balance (± 5%)	1.12	%		0.01	SM 1030E	06/25/2015 1021	WN
Solids, Total Dissolved (Calc)	1700	mg/L		10	SM 1030E	06/25/2015 1021	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-004
ClientSample ID: MU1 OZ19
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 11:59:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1910	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1419	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1419	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/01/2015 1910	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1419	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1910	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1419	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1910	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1419	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1106	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1419	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1910	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1419	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1419	MS
Uranium	0.0021	mg/L		0.0003	EPA 200.8	06/01/2015 1419	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1419	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1910	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1336	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 1948	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1948	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-004
ClientSample ID: MU1 OZ19
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 11:59:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.6	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	2.4	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	9.4	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	5.5	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	1.8	pCi/L		1	Ga-Tech	06/19/2015 1025	MB
Radium 228 Precision (±)	1.2	pCi/L			Ga-Tech	06/19/2015 1025	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	1.4	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	2480	pCi/L		100	ASTM D5072-09	05/30/2015 2255	WN
Radon-222 Precision (±)	49.6	pCi/L			ASTM D5072-09	05/30/2015 2255	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-005
ClientSample ID: MU1 OZ19 Dup
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 11:59:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.82	s.u.			Field	05/29/2015 1159	
Conductivity	2200	µmhos/cm			Field	05/29/2015 1159	
Dissolved Oxygen	5.15	mg/L			Field	05/29/2015 1159	
Turbidity	3.02	NTU			Field	05/29/2015 1159	
Temperature	12.9	℃			Field	05/29/2015 1159	
Oxygen Reduction Potential (ORP)	+92	mV			Field	05/29/2015 1159	
Anions/Cations							
Alkalinity, Total (As CaCO3)	523	mg/L		5	SM 2320B	06/02/2015 339	LJK
Alkalinity, Bicarbonate as HCO3	534	mg/L		5	SM 2320B	06/02/2015 339	LJK
Alkalinity, Carbonate as CO3	51	mg/L		5	SM 2320B	06/02/2015 339	LJK
Chloride	11	mg/L		1	EPA 300.0	06/02/2015 1011	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/04/2015 1305	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1231	AMB
Sulfate	733	mg/L		1	EPA 300.0	06/02/2015 1011	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 1913	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 1913	DG
Potassium	15	mg/L		1	EPA 200.7	06/01/2015 1913	DG
Sodium	612	mg/L		1	EPA 200.7	06/01/2015 1913	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/01/2015 1443	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	06/02/2015 339	LJK
Electrical Conductivity	2600	µmhos/cm		5	SM 2510B	06/02/2015 339	LJK
Total Dissolved Solids (180)	1780	mg/L		10	SM 2540	06/01/2015 2120	TS
Data Quality							
Cation Sum	27.42	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Anion Sum	26.04	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Cation-Anion Balance (± 5%)	2.57	%		0.01	SM 1030E	06/25/2015 1021	WN
Solids, Total Dissolved (Calc)	1690	mg/L		10	SM 1030E	06/25/2015 1021	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-005
ClientSample ID: MU1 OZ19 Dup
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 11:59:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1913	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1425	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1425	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/01/2015 1913	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1425	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1913	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1425	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1913	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1425	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1108	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1425	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1913	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1425	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1425	MS
Uranium	0.0022	mg/L		0.0003	EPA 200.8	06/01/2015 1425	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1425	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1913	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1348	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 1950	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1950	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-005
ClientSample ID: MU1 OZ19 Dup
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 11:59:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	4.6	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	3.2	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	4.6	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 1226	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 1226	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	2490	pCi/L		100	ASTM D5072-09	05/30/2015 2325	WN
Radon-222 Precision (±)	49.8	pCi/L			ASTM D5072-09	05/30/2015 2325	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-001
ClientSample ID: MU1-OZ 20
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015 10:56:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	05/27/2015 1056	
Conductivity	2115	µmhos/cm			Field	05/27/2015 1056	
Dissolved Oxygen	1.92	mg/L			Field	05/27/2015 1056	
Turbidity	0.19	NTU			Field	05/27/2015 1056	
Depth to Water	108.78	ft			Field	05/27/2015 1056	
Temperature	11.5	℃			Field	05/27/2015 1056	
Oxygen Reduction Potential (ORP)	-86.8	mV			Field	05/27/2015 1056	
Anions/Cations							
Alkalinity, Total (As CaCO3)	541	mg/L		5	SM 2320B	05/28/2015 1649	BT
Alkalinity, Bicarbonate as HCO3	599	mg/L		5	SM 2320B	05/28/2015 1649	BT
Alkalinity, Carbonate as CO3	30	mg/L		5	SM 2320B	05/28/2015 1649	BT
Chloride	7	mg/L		1	EPA 300.0	05/28/2015 2120	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/28/2015 1649	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1559	AMB
Sulfate	643	mg/L		1	EPA 300.0	05/28/2015 2120	AB
Calcium	7	mg/L		1	EPA 200.7	05/28/2015 1648	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1648	DG
Potassium	7	mg/L		1	EPA 200.7	05/28/2015 1648	DG
Sodium	560	mg/L		1	EPA 200.7	06/05/2015 1602	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/28/2015 1207	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1649	BT
Electrical Conductivity	2310	µmhos/cm		5	SM 2510B	05/28/2015 1649	BT
Total Dissolved Solids (180)	1610	mg/L		10	SM 2540	05/28/2015 1615	LJK
Data Quality							
Cation Sum	25.09	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Anion Sum	24.41	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Cation-Anion Balance (± 5%)	1.37	%		0.01	SM 1030E	06/08/2015 1129	JJ
Solids, Total Dissolved (Calc)	1550	mg/L		10	SM 1030E	06/08/2015 1129	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-001
ClientSample ID: MU1-OZ 20
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015 10:56:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1648	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1527	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1527	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1648	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1527	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1648	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1527	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1648	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1527	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1223	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1527	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1648	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1527	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1527	MS
Uranium	0.0291	mg/L		0.0003	EPA 200.8	05/28/2015 1527	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1527	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1648	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2355	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2045	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2045	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-001
ClientSample ID: MU1-OZ 20
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015 10:56:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	38.5	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	6.7	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	17.5	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	6.1	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	3.2	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	6.1	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	1.8	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 1307	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 1307	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 830	MB
Radionuclides - Suspended							
Lead 210	1.1	pCi/L		1	OTW01	06/16/2015 1318	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/16/2015 1318	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1415	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1415	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1450	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1450	MB
Radionuclides - Total							
Radon 222	16000	pCi/L		100	ASTM D5072-09	05/28/2015 1541	WN
Radon-222 Precision (±)	319	pCi/L			ASTM D5072-09	05/28/2015 1541	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-002
ClientSample ID: MU1-OZ 20 DUP
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	539	mg/L		5	SM 2320B	05/28/2015 1701	BT
Alkalinity, Bicarbonate as HCO3	594	mg/L		5	SM 2320B	05/28/2015 1701	BT
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	05/28/2015 1701	BT
Chloride	6	mg/L		1	EPA 300.0	06/06/2015 1606	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/28/2015 1701	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1601	AMB
Sulfate	628	mg/L		1	EPA 300.0	06/06/2015 1606	AB
Calcium	6	mg/L		1	EPA 200.7	06/05/2015 1604	DG
Magnesium	3	mg/L		1	EPA 200.7	06/05/2015 1604	DG
Potassium	7	mg/L		1	EPA 200.7	06/05/2015 1604	DG
Sodium	555	mg/L		1	EPA 200.7	06/05/2015 1604	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/28/2015 1208	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1701	BT
Electrical Conductivity	2300	µmhos/cm		5	SM 2510B	05/28/2015 1701	BT
Total Dissolved Solids (180)	1610	mg/L		10	SM 2540	05/28/2015 1616	LJK
Data Quality							
Cation Sum	24.90	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Anion Sum	24.02	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Cation-Anion Balance (± 5%)	1.80	%		0.01	SM 1030E	06/08/2015 1129	JJ
Solids, Total Dissolved (Calc)	1530	mg/L		10	SM 1030E	06/08/2015 1129	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-002
ClientSample ID: MU1-OZ 20 DUP
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1652	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1532	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1532	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1652	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1532	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1652	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1532	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1652	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1532	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1225	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1532	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1652	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1532	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1532	MS
Uranium	0.0253	mg/L		0.0003	EPA 200.8	05/28/2015 1532	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1532	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1652	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/30/2015 000	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2049	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2049	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-002
ClientSample ID: MU1-OZ 20 DUP
COC: 154596

WorkOrder: S1505458
CollectionDate: 5/27/2015
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	39.2	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	6.6	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	13.5	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	3.9	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	4.6	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	1.8	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 1508	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 1508	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/26/2015 1256	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/26/2015 1256	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1318	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1318	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1415	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1415	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1450	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1450	MB
Radionuclides - Total							
Radon 222	16200	pCi/L		100	ASTM D5072-09	05/28/2015 1546	WN
Radon-222 Precision (±)	324	pCi/L			ASTM D5072-09	05/28/2015 1546	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-003
ClientSample ID: MU1-OZ-21
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 12:56:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	05/28/2015 1256	
Conductivity	2090	µmhos/cm			Field	05/28/2015 1256	
Dissolved Oxygen	0.09	mg/L			Field	05/28/2015 1256	
Turbidity	0.68	NTU			Field	05/28/2015 1256	
Depth to Water	113.01	ft			Field	05/28/2015 1256	
Temperature	12.0	℃			Field	05/28/2015 1256	
Oxygen Reduction Potential (ORP)	-185.4	mV			Field	05/28/2015 1256	
Anions/Cations							
Alkalinity, Total (As CaCO3)	569	mg/L		5	SM 2320B	05/29/2015 2116	BT
Alkalinity, Bicarbonate as HCO3	630	mg/L		5	SM 2320B	05/29/2015 2116	BT
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	05/29/2015 2116	BT
Chloride	6	mg/L		1	EPA 300.0	05/31/2015 504	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/01/2015 2056	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1226	AMB
Sulfate	661	mg/L		1	EPA 300.0	05/31/2015 504	AB
Calcium	8	mg/L		1	EPA 200.7	05/29/2015 1456	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1456	DG
Potassium	8	mg/L		1	EPA 200.7	05/29/2015 1456	DG
Sodium	621	mg/L		1	EPA 200.7	05/29/2015 1456	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1224	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2116	BT
Electrical Conductivity	2450	µmhos/cm		5	SM 2510B	05/29/2015 2116	BT
Total Dissolved Solids (180)	1720	mg/L		10	SM 2540	05/29/2015 1119	LJK
Data Quality							
Cation Sum	27.90	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Anion Sum	25.30	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Cation-Anion Balance (± 5%)	4.88	%		0.01	SM 1030E	06/04/2015 1229	JJ
Solids, Total Dissolved (Calc)	1650	mg/L		10	SM 1030E	06/04/2015 1229	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-003
ClientSample ID: MU1-OZ-21
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 12:56:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1456	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1526	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1526	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1456	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1526	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1456	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1526	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1456	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1526	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1229	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1526	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1456	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1526	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1526	MS
Uranium	0.0600	mg/L		0.0003	EPA 200.8	05/29/2015 1526	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1526	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1456	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1709	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 136	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 136	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-003
ClientSample ID: MU1-OZ-21
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 12:56:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	199	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	12.8	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	79.7	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	7.7	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	19.4	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	1.5	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	54.3	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	3.1	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	27.2	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/14/2015 514	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/14/2015 514	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	3.8	pCi/L		1	OTW01	06/18/2015 1254	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/18/2015 1254	MB
Polonium 210	8.3	pCi/L		1	OTW01	06/23/2015 1512	MB
Polonium 210 (Suspended) Precision (±)	1.3	pCi/L			OTW01	06/23/2015 1512	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	183000	pCi/L		100	ASTM D5072-09	05/29/2015 1313	WN
Radon-222 Precision (±)	3610	pCi/L			ASTM D5072-09	05/29/2015 1313	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-005
ClientSample ID: MU1-OZ-21 Dup
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	558	mg/L		5	SM 2320B	06/03/2015 836	LJK
Alkalinity, Bicarbonate as HCO3	608	mg/L		5	SM 2320B	06/03/2015 836	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/03/2015 836	LJK
Chloride	6	mg/L		1	EPA 300.0	06/03/2015 150	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/01/2015 2104	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1238	AMB
Sulfate	689	mg/L		1	EPA 300.0	06/03/2015 150	AB
Calcium	8	mg/L		1	EPA 200.7	06/02/2015 1538	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1512	DG
Potassium	8	mg/L		1	EPA 200.7	06/02/2015 1538	DG
Sodium	621	mg/L		1	EPA 200.7	05/29/2015 1512	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1226	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/03/2015 836	LJK
Electrical Conductivity	2480	µmhos/cm		5	SM 2510B	05/29/2015 2143	BT
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	05/29/2015 1122	LJK
Data Quality							
Cation Sum	27.89	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Anion Sum	25.70	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Cation-Anion Balance (± 5%)	4.07	%		0.01	SM 1030E	06/04/2015 1229	JJ
Solids, Total Dissolved (Calc)	1670	mg/L		10	SM 1030E	06/04/2015 1229	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-005
ClientSample ID: MU1-OZ-21 Dup
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1512	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1548	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1548	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1512	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1548	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1512	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1548	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1512	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1548	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1248	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1548	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1512	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1548	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1548	MS
Uranium	0.0569	mg/L		0.0003	EPA 200.8	05/29/2015 1548	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1548	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1512	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1720	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 140	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 140	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-005
ClientSample ID: MU1-OZ-21 Dup
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	192	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	12.8	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	75	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	8.2	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	19.5	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	1.2	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	56.2	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	3.1	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	27.1	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/14/2015 2249	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/14/2015 2249	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	3.1	pCi/L		1	OTW01	06/18/2015 1254	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/18/2015 1254	MB
Polonium 210	9.5	pCi/L		1	OTW01	06/23/2015 1512	MB
Polonium 210 (Suspended) Precision (±)	1.4	pCi/L			OTW01	06/23/2015 1512	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	193000	pCi/L		100	ASTM D5072-09	05/29/2015 1340	WN
Radon-222 Precision (±)	3770	pCi/L			ASTM D5072-09	05/29/2015 1340	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-006
ClientSample ID: MU1 OZ22
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 2:05:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.37	s.u.			Field	06/01/2015 1405	
Conductivity	1704	µmhos/cm			Field	06/01/2015 1405	
Dissolved Oxygen	4.23	mg/L			Field	06/01/2015 1405	
Turbidity	10.83	NTU			Field	06/01/2015 1405	
Temperature	14.1	℃			Field	06/01/2015 1405	
Oxygen Reduction Potential (ORP)	+135	mV			Field	06/01/2015 1405	
Anions/Cations							
Alkalinity, Total (As CaCO3)	566	mg/L		5	SM 2320B	06/05/2015 116	LJK
Alkalinity, Bicarbonate as HCO3	633	mg/L		5	SM 2320B	06/05/2015 116	LJK
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	06/05/2015 116	LJK
Chloride	4	mg/L		1	EPA 300.0	06/06/2015 1849	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/05/2015 116	LJK
Nitrogen, Nitrate+Nitrite (as N)	0.2	mg/L		0.1	EPA 353.2	06/03/2015 1155	AMB
Sulfate	450	mg/L		1	EPA 300.0	06/06/2015 1849	AB
Calcium	5	mg/L		1	EPA 200.7	06/03/2015 1618	DG
Magnesium	2	mg/L		1	EPA 200.7	06/03/2015 1618	DG
Potassium	7	mg/L		1	EPA 200.7	06/03/2015 1618	DG
Sodium	486	mg/L		1	EPA 200.7	06/03/2015 1618	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/08/2015 1558	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/05/2015 116	LJK
Electrical Conductivity	1970	µmhos/cm		5	SM 2510B	06/05/2015 116	LJK
Total Dissolved Solids (180)	1350	mg/L		10	SM 2540	06/03/2015 1554	TS
Data Quality							
Cation Sum	21.79	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Anion Sum	20.83	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Cation-Anion Balance (± 5%)	2.25	%		0.01	SM 1030E	06/15/2015 1412	JJ
Solids, Total Dissolved (Calc)	1300	mg/L		10	SM 1030E	06/15/2015 1412	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-006
ClientSample ID: MU1 OZ22
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 2:05:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/03/2015 1618	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/04/2015 1620	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/04/2015 1620	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/03/2015 1618	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/04/2015 1620	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/03/2015 1618	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/04/2015 1620	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/03/2015 1618	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/04/2015 1620	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/12/2015 1049	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/04/2015 1620	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/03/2015 1618	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/04/2015 1620	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/04/2015 1620	MS
Uranium	0.0821	mg/L		0.0003	EPA 200.8	06/04/2015 1620	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/04/2015 1620	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/03/2015 1618	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/09/2015 2124	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	06/05/2015 258	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/05/2015 258	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-006
ClientSample ID: MU1 OZ22
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 2:05:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	219	pCi/L		2	SM 7110B	06/16/2015 2020	MB
Gross Alpha Precision (±)	13.6	pCi/L			SM 7110B	06/16/2015 2020	MB
Gross Beta	118	pCi/L		3	SM 7110B	06/16/2015 2020	MB
Gross Beta Precision (±)	9.1	pCi/L			SM 7110B	06/16/2015 2020	MB
Lead 210	20.8	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	12.3	pCi/L		1	OTW01	06/24/2015 1259	MB
Polonium 210 (Dissolved) Precision (±)	1.5	pCi/L			OTW01	06/24/2015 1259	MB
Radium 226	45.8	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 1623	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 1623	MB
Thorium 230	0.4	pCi/L		0.2	ACW10	06/19/2015 825	MB
Thorium 230 Precision (±)	0.2	pCi/L			ACW10	06/19/2015 825	MB
Radionuclides - Suspended							
Lead 210	7.7	pCi/L		1	OTW01	06/26/2015 1254	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/26/2015 1254	MB
Polonium 210	1.7	pCi/L		1	OTW01	06/26/2015 1456	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/26/2015 1456	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1347	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1347	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/26/2015 845	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/26/2015 845	MB
Radionuclides - Total							
Radon 222	102000	pCi/L		100	ASTM D5072-09	06/03/2015 109	WN
Radon-222 Precision (±)	2000	pCi/L			ASTM D5072-09	06/03/2015 109	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-007
ClientSample ID: MU1 OZ22 Dup
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 2:05:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.37	s.u.			Field	06/01/2015 1405	
Conductivity	1704	µmhos/cm			Field	06/01/2015 1405	
Dissolved Oxygen	4.23	mg/L			Field	06/01/2015 1405	
Turbidity	10.83	NTU			Field	06/01/2015 1405	
Temperature	14.1	℃			Field	06/01/2015 1405	
Oxygen Reduction Potential (ORP)	+135	mV			Field	06/01/2015 1405	
Anions/Cations							
Alkalinity, Total (As CaCO3)	566	mg/L		5	SM 2320B	06/05/2015 128	LJK
Alkalinity, Bicarbonate as HCO3	627	mg/L		5	SM 2320B	06/05/2015 128	LJK
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	06/05/2015 128	LJK
Chloride	4	mg/L		1	EPA 300.0	06/06/2015 1902	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/05/2015 128	LJK
Nitrogen, Nitrate+Nitrite (as N)	0.2	mg/L		0.1	EPA 353.2	06/03/2015 1156	AMB
Sulfate	446	mg/L		1	EPA 300.0	06/06/2015 1902	AB
Calcium	5	mg/L		1	EPA 200.7	06/03/2015 1620	DG
Magnesium	2	mg/L		1	EPA 200.7	06/03/2015 1620	DG
Potassium	7	mg/L		1	EPA 200.7	06/03/2015 1620	DG
Sodium	482	mg/L		1	EPA 200.7	06/03/2015 1620	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/08/2015 1559	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/05/2015 128	LJK
Electrical Conductivity	1970	µmhos/cm		5	SM 2510B	06/05/2015 128	LJK
Total Dissolved Solids (180)	1370	mg/L		10	SM 2540	06/03/2015 1555	TS
Data Quality							
Cation Sum	21.63	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Anion Sum	20.74	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Cation-Anion Balance (± 5%)	2.09	%		0.01	SM 1030E	06/15/2015 1412	JJ
Solids, Total Dissolved (Calc)	1290	mg/L		10	SM 1030E	06/15/2015 1412	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-007
ClientSample ID: MU1 OZ22 Dup
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 2:05:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/03/2015 1620	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/04/2015 1626	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/04/2015 1626	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/03/2015 1620	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/04/2015 1626	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/03/2015 1620	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/04/2015 1626	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/03/2015 1620	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/04/2015 1626	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/12/2015 1051	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/04/2015 1626	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/03/2015 1620	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/04/2015 1626	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/04/2015 1626	MS
Uranium	0.0783	mg/L		0.0003	EPA 200.8	06/04/2015 1626	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/04/2015 1626	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/03/2015 1620	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/09/2015 2130	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	06/05/2015 301	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/05/2015 301	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-007
ClientSample ID: MU1 OZ22 Dup
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 2:05:00 PM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	198	pCi/L		2	SM 7110B	06/16/2015 2020	MB
Gross Alpha Precision (±)	13.3	pCi/L			SM 7110B	06/16/2015 2020	MB
Gross Beta	115	pCi/L		3	SM 7110B	06/16/2015 2020	MB
Gross Beta Precision (±)	9.0	pCi/L			SM 7110B	06/16/2015 2020	MB
Lead 210	19.8	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	23.9	pCi/L		1	OTW01	06/24/2015 1259	MB
Polonium 210 (Dissolved) Precision (±)	2.1	pCi/L			OTW01	06/24/2015 1259	MB
Radium 226	47.5	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	1.0	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	1.5	pCi/L		1	Ga-Tech	06/22/2015 1824	MB
Radium 228 Precision (±)	1.6	pCi/L			Ga-Tech	06/22/2015 1824	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 825	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 825	MB
Radionuclides - Suspended							
Lead 210	5.5	pCi/L		1	OTW01	06/26/2015 1254	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/26/2015 1254	MB
Polonium 210	1.5	pCi/L		1	OTW01	06/26/2015 1456	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/26/2015 1456	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1347	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1347	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/26/2015 845	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/26/2015 845	MB
Radionuclides - Total							
Radon 222	107000	pCi/L		100	ASTM D5072-09	06/03/2015 110	WN
Radon-222 Precision (±)	2130	pCi/L			ASTM D5072-09	06/03/2015 110	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-007
ClientSample ID: OZ23
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:05:00 PM
DateReceived: 5/28/2015 2:55:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.37	s.u.			Field	05/28/2015 1305	
Conductivity	1865	µmhos/cm			Field	05/28/2015 1305	
Dissolved Oxygen	1.79	mg/L			Field	05/28/2015 1305	
Turbidity	0.19	NTU			Field	05/28/2015 1305	
Temperature	12.4	℃			Field	05/28/2015 1305	
Flow Rate (gpm)	3.50	gpm			Field	05/28/2015 1305	
Oxygen Reduction Potential (ORP)	+139	mV			Field	05/28/2015 1305	
Anions/Cations							
Alkalinity, Total (As CaCO3)	556	mg/L		5	SM 2320B	05/30/2015 207	BT
Alkalinity, Bicarbonate as HCO3	610	mg/L		5	SM 2320B	05/30/2015 207	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	05/30/2015 207	BT
Chloride	6	mg/L		1	EPA 300.0	05/29/2015 1624	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/03/2015 1902	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1335	AMB
Sulfate	568	mg/L		1	EPA 300.0	05/29/2015 1624	AB
Calcium	8	mg/L		1	EPA 200.7	05/29/2015 1653	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1653	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1653	DG
Sodium	559	mg/L		1	EPA 200.7	05/29/2015 1653	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1429	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/30/2015 207	BT
Electrical Conductivity	2240	µmhos/cm		5	SM 2510B	05/30/2015 207	BT
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	05/29/2015 1150	LJK
Data Quality							
Cation Sum	25.16	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	23.11	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	4.26	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1480	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-007
ClientSample ID: OZ23
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:05:00 PM
DateReceived: 5/28/2015 2:55:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1653	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1952	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1952	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/29/2015 1653	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1952	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1653	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1952	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1653	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1952	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1415	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1952	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1653	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1952	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1952	MS
Uranium	0.0016	mg/L		0.0003	EPA 200.8	05/29/2015 1952	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1952	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1653	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1432	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 339	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 339	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-007
ClientSample ID: OZ23
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:05:00 PM
DateReceived: 5/28/2015 2:55:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.9	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	5.3	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	4.8	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	1.0	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1303	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1303	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 1803	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 819	MB
Radionuclides - Total							
Radon 222	1380	pCi/L		100	ASTM D5072-09	05/29/2015 2314	WN
Radon-222 Precision (±)	33.5	pCi/L			ASTM D5072-09	05/29/2015 2314	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-001
ClientSample ID: MUI-OZ24
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 9:29:00 AM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.45	s.u.			Field	05/28/2015 929	
Conductivity	1974	µmhos/cm			Field	05/28/2015 929	
Dissolved Oxygen	0.16	mg/L			Field	05/28/2015 929	
Turbidity	2.66	NTU			Field	05/28/2015 929	
Temperature	11.3	℃			Field	05/28/2015 929	
Oxygen Reduction Potential (ORP)	-125.0	mV			Field	05/28/2015 929	
Anions/Cations							
Alkalinity, Total (As CaCO3)	693	mg/L		5	SM 2320B	06/03/2015 846	LJK
Alkalinity, Bicarbonate as HCO3	756	mg/L		5	SM 2320B	06/03/2015 846	LJK
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	06/03/2015 846	LJK
Chloride	6	mg/L		1	EPA 300.0	05/31/2015 558	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/01/2015 2113	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1241	AMB
Sulfate	717	mg/L		1	EPA 300.0	06/03/2015 204	AB
Calcium	8	mg/L		1	EPA 200.7	06/02/2015 1540	DG
Magnesium	3	mg/L		1	EPA 200.7	06/02/2015 1540	DG
Potassium	7	mg/L		1	EPA 200.7	06/02/2015 1540	DG
Sodium	638	mg/L		1	EPA 200.7	05/29/2015 1516	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1229	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/03/2015 846	LJK
Electrical Conductivity	2530	µmhos/cm		5	SM 2510B	05/29/2015 2201	BT
Total Dissolved Solids (180)	1800	mg/L		10	SM 2540	05/29/2015 1124	LJK
Data Quality							
Cation Sum	28.60	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Anion Sum	28.98	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Cation-Anion Balance (± 5%)	0.65	%		0.01	SM 1030E	06/04/2015 1233	JJ
Solids, Total Dissolved (Calc)	1790	mg/L		10	SM 1030E	06/04/2015 1233	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-001
ClientSample ID: MUI-OZ24
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 9:29:00 AM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1516	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1626	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1626	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1516	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1626	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1516	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1626	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1516	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1626	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1252	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1626	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1516	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1626	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1626	MS
Uranium	0.0363	mg/L		0.0003	EPA 200.8	05/29/2015 1626	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1626	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1516	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1757	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 147	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 147	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-001
ClientSample ID: MUI-OZ24
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 9:29:00 AM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	105	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	9.6	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	30.2	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	6.3	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	7.9	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	1.1	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	22.1	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 251	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 251	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	2.1	pCi/L		1	OTW01	06/18/2015 1254	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/18/2015 1254	MB
Polonium 210	6.5	pCi/L		1	OTW01	06/23/2015 1512	MB
Polonium 210 (Suspended) Precision (±)	1.2	pCi/L			OTW01	06/23/2015 1512	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1542	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1542	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	47900	pCi/L		100	ASTM D5072-09	05/29/2015 1359	WN
Radon-222 Precision (±)	958	pCi/L			ASTM D5072-09	05/29/2015 1359	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-004
ClientSample ID: MU1-OZ25
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/28/2015 1:06:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.60	s.u.			Field	05/28/2015 1306	
Conductivity	2244	µmhos/cm			Field	05/28/2015 1306	
Dissolved Oxygen	2.20	mg/L			Field	05/28/2015 1306	
Turbidity	1.26	NTU			Field	05/28/2015 1306	
Depth to Water	114.55	ft			Field	05/28/2015 1306	
Temperature	11.9	℃			Field	05/28/2015 1306	
Oxygen Reduction Potential (ORP)	-136.5	mV			Field	05/28/2015 1306	
Anions/Cations							
Alkalinity, Total (As CaCO3)	558	mg/L		5	SM 2320B	05/29/2015 2039	BT
Alkalinity, Bicarbonate as HCO3	623	mg/L		5	SM 2320B	05/29/2015 2039	BT
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	05/29/2015 2039	BT
Chloride	9	mg/L		1	EPA 300.0	05/31/2015 248	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/01/2015 2038	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1220	AMB
Sulfate	765	mg/L		1	EPA 300.0	06/03/2015 136	AB
Calcium	8	mg/L		1	EPA 200.7	06/02/2015 1536	DG
Magnesium	3	mg/L		1	EPA 200.7	06/02/2015 1536	DG
Potassium	8	mg/L		1	EPA 200.7	06/02/2015 1536	DG
Sodium	657	mg/L		1	EPA 200.7	06/02/2015 1536	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1218	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2039	BT
Electrical Conductivity	2580	µmhos/cm		5	SM 2510B	05/29/2015 2039	BT
Total Dissolved Solids (180)	1840	mg/L		10	SM 2540	05/29/2015 1115	LJK
Data Quality							
Cation Sum	29.47	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Anion Sum	27.33	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Cation-Anion Balance (± 5%)	3.77	%		0.01	SM 1030E	06/04/2015 1225	JJ
Solids, Total Dissolved (Calc)	1780	mg/L		10	SM 1030E	06/04/2015 1225	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-004
ClientSample ID: MU1-OZ25
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/28/2015 1:06:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1445	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1504	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1504	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1445	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1504	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1445	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1504	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1445	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1504	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1219	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1504	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1445	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1504	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1504	MS
Uranium	0.0400	mg/L		0.0003	EPA 200.8	05/29/2015 1504	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1504	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1445	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1647	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 119	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 119	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-004
ClientSample ID: MU1-OZ25
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/28/2015 1:06:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	53.0	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	6.9	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	20.8	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	5.4	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	1.1	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	2.1	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 156	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 156	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	4550	pCi/L		100	ASTM D5072-09	05/29/2015 1200	WN
Radon-222 Precision (±)	91.0	pCi/L			ASTM D5072-09	05/29/2015 1200	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-002
ClientSample ID: MU1 OZ26
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 11:12:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.42	s.u.			Field	05/27/2015 1112	
Conductivity	1923	µmhos/cm			Field	05/27/2015 1112	
Dissolved Oxygen	3.68	mg/L			Field	05/27/2015 1112	
Turbidity	0.68	NTU			Field	05/27/2015 1112	
Temperature	11.7	℃			Field	05/27/2015 1112	
Oxygen Reduction Potential (ORP)	+214	mV			Field	05/27/2015 1112	
Anions/Cations							
Alkalinity, Total (As CaCO3)	538	mg/L		5	SM 2320B	05/28/2015 1509	BT
Alkalinity, Bicarbonate as HCO3	605	mg/L		5	SM 2320B	05/28/2015 1509	BT
Alkalinity, Carbonate as CO3	25	mg/L		5	SM 2320B	05/28/2015 1509	BT
Chloride	6	mg/L		1	EPA 300.0	05/28/2015 1826	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/28/2015 1509	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1541	AMB
Sulfate	629	mg/L		1	EPA 300.0	06/05/2015 941	AB
Calcium	7	mg/L		1	EPA 200.7	06/02/2015 1511	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1637	DG
Potassium	6	mg/L		1	EPA 200.7	06/02/2015 1511	DG
Sodium	588	mg/L		1	EPA 200.7	06/02/2015 1511	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/28/2015 1151	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1509	BT
Electrical Conductivity	2280	µmhos/cm		5	SM 2510B	05/28/2015 1509	BT
Total Dissolved Solids (180)	1590	mg/L		10	SM 2540	05/28/2015 1609	LJK
Data Quality							
Cation Sum	26.33	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Anion Sum	24.02	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Cation-Anion Balance (± 5%)	4.58	%		0.01	SM 1030E	06/04/2015 1217	JJ
Solids, Total Dissolved (Calc)	1560	mg/L		10	SM 1030E	06/04/2015 1217	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-002
ClientSample ID: MU1 OZ26
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 11:12:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1637	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1433	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1433	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1637	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1433	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1637	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1433	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1637	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1433	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1213	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1433	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1637	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1433	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1433	MS
Uranium	0.0480	mg/L		0.0003	EPA 200.8	05/28/2015 1433	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1433	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1637	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2328	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2033	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2033	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-002
ClientSample ID: MU1 OZ26
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 11:12:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	98.4	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	9.2	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	33.1	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	3.9	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	2.0	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	15.6	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/12/2015 2301	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/12/2015 2301	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 830	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	20700	pCi/L		100	ASTM D5072-09	05/28/2015 1422	WN
Radon-222 Precision (±)	412	pCi/L			ASTM D5072-09	05/28/2015 1422	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-004
ClientSample ID: MU1 PM1
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 2:56:00 PM
DateReceived: 5/28/2015 8:13:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.49	s.u.			Field	05/27/2015 1456	
Conductivity	1960	µmhos/cm			Field	05/27/2015 1456	
Dissolved Oxygen	3.65	mg/L			Field	05/27/2015 1456	
Turbidity	0.50	NTU			Field	05/27/2015 1456	
Temperature	12.3	℃			Field	05/27/2015 1456	
Oxygen Reduction Potential (ORP)	-10	mV			Field	05/27/2015 1456	
Anions/Cations							
Alkalinity, Total (As CaCO3)	580	mg/L		5	SM 2320B	05/30/2015 015	BT
Alkalinity, Bicarbonate as HCO3	630	mg/L		5	SM 2320B	05/30/2015 015	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/30/2015 015	BT
Chloride	6	mg/L		1	EPA 300.0	05/31/2015 1003	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/03/2015 1806	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1310	AMB
Sulfate	597	mg/L		1	EPA 300.0	05/31/2015 1003	AB
Calcium	8	mg/L		1	EPA 200.7	05/29/2015 1612	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1612	DG
Potassium	7	mg/L		1	EPA 200.7	05/29/2015 1612	DG
Sodium	590	mg/L		1	EPA 200.7	05/29/2015 1612	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/02/2015 1407	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 015	BT
Electrical Conductivity	2330	µmhos/cm		5	SM 2510B	05/30/2015 015	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	05/29/2015 1138	LJK
Data Quality							
Cation Sum	26.52	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Anion Sum	24.26	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Cation-Anion Balance (± 5%)	4.46	%		0.01	SM 1030E	06/08/2015 825	JJ
Solids, Total Dissolved (Calc)	1560	mg/L		10	SM 1030E	06/08/2015 825	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-004
ClientSample ID: MU1 PM1
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 2:56:00 PM
DateReceived: 5/28/2015 8:13:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1612	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1815	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1815	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1612	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1815	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1612	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1815	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1612	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1815	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1328	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1815	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1612	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1815	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1815	MS
Uranium	0.0198	mg/L		0.0003	EPA 200.8	05/29/2015 1815	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1815	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1612	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1305	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 251	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 251	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-004
ClientSample ID: MU1 PM1
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 2:56:00 PM
DateReceived: 5/28/2015 8:13:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	23.6	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	5.1	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	7.9	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	1.1	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	2.0	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	1.9	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/16/2015 100	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/16/2015 100	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 1329	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 1329	MB
Radionuclides - Suspended							
Lead 210	1.6	pCi/L		1	OTW01	06/19/2015 1532	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/19/2015 1532	MB
Polonium 210	1.9	pCi/L		1	OTW01	06/24/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/24/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1301	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1301	MB
Radionuclides - Total							
Radon 222	4960	pCi/L		100	ASTM D5072-09	05/29/2015 1847	WN
Radon-222 Precision (±)	99.3	pCi/L			ASTM D5072-09	05/29/2015 1847	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-009
ClientSample ID: PM2
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:12:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.46	s.u.			Field	05/28/2015 1112	
Conductivity	1954	µmhos/cm			Field	05/28/2015 1112	
Dissolved Oxygen	3.25	mg/L			Field	05/28/2015 1112	
Turbidity	4.16	NTU			Field	05/28/2015 1112	
Temperature	12.0	℃			Field	05/28/2015 1112	
Oxygen Reduction Potential (ORP)	+107	mV			Field	05/28/2015 1112	
Anions/Cations							
Alkalinity, Total (As CaCO3)	556	mg/L		5	SM 2320B	05/30/2015 227	BT
Alkalinity, Bicarbonate as HCO3	604	mg/L		5	SM 2320B	05/30/2015 227	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/30/2015 227	BT
Chloride	6	mg/L		1	EPA 300.0	05/29/2015 1651	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/03/2015 1911	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1347	AMB
Sulfate	628	mg/L		1	EPA 300.0	05/29/2015 1651	AB
Calcium	7	mg/L		1	EPA 200.7	05/29/2015 1709	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1709	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1709	DG
Sodium	583	mg/L		1	EPA 200.7	05/29/2015 1709	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1432	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 227	BT
Electrical Conductivity	2340	µmhos/cm		5	SM 2510B	05/30/2015 227	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	05/29/2015 1152	LJK
Data Quality							
Cation Sum	26.10	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	24.37	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	3.41	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1570	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-009
ClientSample ID: PM2
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:12:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1709	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 2014	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 2014	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1709	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 2014	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1709	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 2014	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1709	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 2014	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1419	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 2014	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1709	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 2014	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 2014	MS
Uranium	0.0226	mg/L		0.0003	EPA 200.8	05/29/2015 2014	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 2014	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1709	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1443	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	06/02/2015 343	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 343	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-009
ClientSample ID: PM2
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:12:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	25.3	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	5.3	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	7.4	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	5.3	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	1.5	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 915	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 915	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 2205	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 2205	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 819	MB
Radionuclides - Total							
Radon 222	1910	pCi/L		100	ASTM D5072-09	05/30/2015 025	WN
Radon-222 Precision (±)	40.1	pCi/L			ASTM D5072-09	05/30/2015 025	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-010
ClientSample ID: PM2-Dup
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:12:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.46	s.u.			Field	05/28/2015 1112	
Conductivity	1954	µmhos/cm			Field	05/28/2015 1112	
Dissolved Oxygen	3.25	mg/L			Field	05/28/2015 1112	
Turbidity	4.16	NTU			Field	05/28/2015 1112	
Temperature	12.0	℃			Field	05/28/2015 1112	
Oxygen Reduction Potential (ORP)	+107	mV			Field	05/28/2015 1112	
Anions/Cations							
Alkalinity, Total (As CaCO3)	580	mg/L		5	SM 2320B	05/30/2015 246	BT
Alkalinity, Bicarbonate as HCO3	634	mg/L		5	SM 2320B	05/30/2015 246	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/30/2015 246	BT
Chloride	6	mg/L		1	EPA 300.0	05/29/2015 1705	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/03/2015 1915	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1349	AMB
Sulfate	623	mg/L		1	EPA 300.0	05/29/2015 1705	AB
Calcium	7	mg/L		1	EPA 200.7	05/29/2015 1711	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1711	DG
Potassium	7	mg/L		1	EPA 200.7	05/29/2015 1711	DG
Sodium	584	mg/L		1	EPA 200.7	05/29/2015 1711	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1433	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 246	BT
Electrical Conductivity	2350	µmhos/cm		5	SM 2510B	05/30/2015 246	BT
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	05/29/2015 1154	LJK
Data Quality							
Cation Sum	26.16	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	24.76	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	2.75	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1580	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-010
ClientSample ID: PM2-Dup
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:12:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1711	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 2020	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 2020	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1711	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 2020	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1711	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 2020	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1711	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 2020	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1421	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 2020	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1711	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 2020	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 2020	MS
Uranium	0.0202	mg/L		0.0003	EPA 200.8	05/29/2015 2020	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 2020	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1711	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1459	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	06/02/2015 346	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 346	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-010
ClientSample ID: PM2-Dup
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:12:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	24.1	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	4.9	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	12.9	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	5.3	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	ND	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 915	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 915	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/18/2015 006	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/18/2015 006	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	1840	pCi/L		100	ASTM D5072-09	05/30/2015 101	WN
Radon-222 Precision (±)	39.5	pCi/L			ASTM D5072-09	05/30/2015 101	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-004
ClientSample ID: PM3
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:54:00 AM
DateReceived: 5/28/2015 2:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.52	s.u.			Field	05/28/2015 1154	
Conductivity	1900	µmhos/cm			Field	05/28/2015 1154	
Dissolved Oxygen	2.85	mg/L			Field	05/28/2015 1154	
Turbidity	0.821	NTU			Field	05/28/2015 1154	
Temperature	11.9	℃			Field	05/28/2015 1154	
Flow Rate (gpm)	21.29	gpm			Field	05/28/2015 1154	
Oxygen Reduction Potential (ORP)	-129	mV			Field	05/28/2015 1154	
Anions/Cations							
Alkalinity, Total (As CaCO3)	561	mg/L		5	SM 2320B	05/30/2015 137	BT
Alkalinity, Bicarbonate as HCO3	614	mg/L		5	SM 2320B	05/30/2015 137	BT
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	05/30/2015 137	BT
Chloride	6	mg/L		1	EPA 300.0	05/29/2015 1542	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/03/2015 1849	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1331	AMB
Sulfate	600	mg/L		1	EPA 300.0	05/29/2015 1542	AB
Calcium	5	mg/L		1	EPA 200.7	05/29/2015 1644	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1644	DG
Potassium	7	mg/L		1	EPA 200.7	05/29/2015 1644	DG
Sodium	582	mg/L		1	EPA 200.7	05/29/2015 1644	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/02/2015 1425	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 137	BT
Electrical Conductivity	2330	µmhos/cm		5	SM 2510B	05/30/2015 137	BT
Total Dissolved Solids (180)	1620	mg/L		10	SM 2540	05/29/2015 1147	LJK
Data Quality							
Cation Sum	25.98	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	23.91	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	4.14	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-004
ClientSample ID: PM3
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:54:00 AM
DateReceived: 5/28/2015 2:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1644	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1936	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1936	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1644	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1936	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1644	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1936	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1644	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1936	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1359	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1936	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1644	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1936	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1936	MS
Uranium	0.0314	mg/L		0.0003	EPA 200.8	05/29/2015 1936	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1936	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1644	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1415	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 324	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 324	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-004
ClientSample ID: PM3
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:54:00 AM
DateReceived: 5/28/2015 2:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	8.5	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	3.8	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	7.9	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	ND	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 1200	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 1200	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1259	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1259	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1716	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1716	MB
Radionuclides - Total							
Radon 222	2050	pCi/L		100	ASTM D5072-09	05/29/2015 2127	WN
Radon-222 Precision (±)	41.1	pCi/L			ASTM D5072-09	05/29/2015 2127	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-006
ClientSample ID: PM4
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 2:13:00 PM
DateReceived: 5/28/2015 3:45:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.40	s.u.			Field	05/28/2015 1413	
Conductivity	1921	µmhos/cm			Field	05/28/2015 1413	
Dissolved Oxygen	3.18	mg/L			Field	05/28/2015 1413	
Turbidity	1.73	NTU			Field	05/28/2015 1413	
Temperature	12.7	℃			Field	05/28/2015 1413	
Flow Rate (gpm)	6.38	gpm			Field	05/28/2015 1413	
Oxygen Reduction Potential (ORP)	-288	mV			Field	05/28/2015 1413	
Anions/Cations							
Alkalinity, Total (As CaCO3)	604	mg/L		5	SM 2320B	05/30/2015 157	BT
Alkalinity, Bicarbonate as HCO3	664	mg/L		5	SM 2320B	05/30/2015 157	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/30/2015 157	BT
Chloride	6	mg/L		1	EPA 300.0	05/29/2015 1610	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/03/2015 1857	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1334	AMB
Sulfate	545	mg/L		1	EPA 300.0	05/29/2015 1610	AB
Calcium	7	mg/L		1	EPA 200.7	05/29/2015 1648	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1648	DG
Potassium	5	mg/L		1	EPA 200.7	05/29/2015 1648	DG
Sodium	570	mg/L		1	EPA 200.7	05/29/2015 1648	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1428	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/30/2015 157	BT
Electrical Conductivity	2280	µmhos/cm		5	SM 2510B	05/30/2015 157	BT
Total Dissolved Solids (180)	1590	mg/L		10	SM 2540	05/29/2015 1149	LJK
Data Quality							
Cation Sum	25.52	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	23.65	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	3.80	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1500	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-006
ClientSample ID: PM4
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 2:13:00 PM
DateReceived: 5/28/2015 3:45:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1648	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1947	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1947	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1648	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1947	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1648	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1947	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1648	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1947	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1407	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1947	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1648	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1947	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1947	MS
Uranium	0.0056	mg/L		0.0003	EPA 200.8	05/29/2015 1947	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1947	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1648	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1426	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 336	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 336	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-006
ClientSample ID: PM4
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 2:13:00 PM
DateReceived: 5/28/2015 3:45:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.4	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	3.4	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	8.4	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	1.0	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 1602	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 1602	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1259	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1259	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 819	MB
Radionuclides - Total							
Radon 222	1380	pCi/L		100	ASTM D5072-09	05/29/2015 2238	WN
Radon-222 Precision (±)	33.2	pCi/L			ASTM D5072-09	05/29/2015 2238	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-005
ClientSample ID: PM5
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:53:00 PM
DateReceived: 5/28/2015 3:45:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.54	s.u.			Field	05/28/2015 1353	
Conductivity	1559	µmhos/cm			Field	05/28/2015 1353	
Dissolved Oxygen	3.23	mg/L			Field	05/28/2015 1353	
Turbidity	0.52	NTU			Field	05/28/2015 1353	
Temperature	11.8	℃			Field	05/28/2015 1353	
Flow Rate (gpm)	25.25	gpm			Field	05/28/2015 1353	
Oxygen Reduction Potential (ORP)	-265	mV			Field	05/28/2015 1353	
Anions/Cations							
Alkalinity, Total (As CaCO3)	679	mg/L		5	SM 2320B	05/30/2015 148	BT
Alkalinity, Bicarbonate as HCO3	738	mg/L		5	SM 2320B	05/30/2015 148	BT
Alkalinity, Carbonate as CO3	45	mg/L		5	SM 2320B	05/30/2015 148	BT
Chloride	4	mg/L		1	EPA 300.0	05/29/2015 1556	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/03/2015 1853	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1332	AMB
Sulfate	344	mg/L		1	EPA 300.0	05/29/2015 1556	AB
Calcium	5	mg/L		1	EPA 200.7	05/29/2015 1646	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1646	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1646	DG
Sodium	486	mg/L		1	EPA 200.7	05/29/2015 1646	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1427	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 148	BT
Electrical Conductivity	1920	µmhos/cm		5	SM 2510B	05/30/2015 148	BT
Total Dissolved Solids (180)	1300	mg/L		10	SM 2540	05/29/2015 1148	LJK
Data Quality							
Cation Sum	21.72	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	20.92	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	1.87	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1250	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-005
ClientSample ID: PM5
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:53:00 PM
DateReceived: 5/28/2015 3:45:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1646	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1941	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1941	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1646	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1941	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1646	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1941	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1646	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1941	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1401	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1941	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1646	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1941	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1941	MS
Uranium	0.0112	mg/L		0.0003	EPA 200.8	05/29/2015 1941	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1941	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1646	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1421	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 327	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 327	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-005
ClientSample ID: PM5
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:53:00 PM
DateReceived: 5/28/2015 3:45:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	17.8	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	3.5	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	6.1	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	ND	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 1401	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 1401	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1259	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1259	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 819	MB
Radionuclides - Total							
Radon 222	1740	pCi/L		100	ASTM D5072-09	05/29/2015 2203	WN
Radon-222 Precision (±)	37.6	pCi/L			ASTM D5072-09	05/29/2015 2203	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-001
ClientSample ID: MU1 PM 6
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/28/2015 3:10:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.51	s.u.			Field	05/28/2015 1510	
Conductivity	1940	µmhos/cm			Field	05/28/2015 1510	
Dissolved Oxygen	3.78	mg/L			Field	05/28/2015 1510	
Turbidity	2.95	NTU			Field	05/28/2015 1510	
Temperature	11.4	℃			Field	05/28/2015 1510	
Oxygen Reduction Potential (ORP)	+60	mV			Field	05/28/2015 1510	
Anions/Cations							
Alkalinity, Total (As CaCO3)	559	mg/L		5	SM 2320B	06/02/2015 223	LJK
Alkalinity, Bicarbonate as HCO3	615	mg/L		5	SM 2320B	06/02/2015 223	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/02/2015 223	LJK
Chloride	6	mg/L		1	EPA 300.0	06/02/2015 755	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/04/2015 1228	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1225	AMB
Sulfate	628	mg/L		1	EPA 300.0	06/02/2015 755	AB
Calcium	6	mg/L		1	EPA 200.7	06/01/2015 1904	DG
Magnesium	3	mg/L		1	EPA 200.7	06/01/2015 1904	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 1904	DG
Sodium	582	mg/L		1	EPA 200.7	06/01/2015 1904	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/01/2015 1438	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 223	LJK
Electrical Conductivity	2380	µmhos/cm		5	SM 2510B	06/02/2015 223	LJK
Total Dissolved Solids (180)	1610	mg/L		10	SM 2540	06/01/2015 2116	TS
Data Quality							
Cation Sum	25.99	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Anion Sum	24.44	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Cation-Anion Balance (± 5%)	3.07	%		0.01	SM 1030E	06/25/2015 1021	WN
Solids, Total Dissolved (Calc)	1570	mg/L		10	SM 1030E	06/25/2015 1021	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-001
ClientSample ID: MU1 PM 6
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/28/2015 3:10:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1904	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1348	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1348	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/01/2015 1904	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1348	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1904	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1348	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1904	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1348	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1050	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1348	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1904	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1348	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1348	MS
Uranium	0.0517	mg/L		0.0003	EPA 200.8	06/01/2015 1348	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1348	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1904	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1312	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	06/02/2015 1934	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1934	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-001
ClientSample ID: MU1 PM 6
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/28/2015 3:10:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	52.2	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	7.0	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	15.9	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	5.4	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	1.7	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	7.6	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	1.4	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 423	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 423	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	1680	pCi/L		100	ASTM D5072-09	05/30/2015 2038	WN
Radon-222 Precision (±)	39.6	pCi/L			ASTM D5072-09	05/30/2015 2038	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-003
ClientSample ID: PM7
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:40:00 AM
DateReceived: 5/28/2015 2:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.57	s.u.			Field	05/28/2015 1140	
Conductivity	1678	µmhos/cm			Field	05/28/2015 1140	
Dissolved Oxygen	4.30	mg/L			Field	05/28/2015 1140	
Turbidity	2.62	NTU			Field	05/28/2015 1140	
Temperature	11.9	℃			Field	05/28/2015 1140	
Flow Rate (gpm)	27.65	gpm			Field	05/28/2015 1140	
Oxygen Reduction Potential (ORP)	-107	mV			Field	05/28/2015 1140	
Anions/Cations							
Alkalinity, Total (As CaCO3)	649	mg/L		5	SM 2320B	05/30/2015 129	BT
Alkalinity, Bicarbonate as HCO3	697	mg/L		5	SM 2320B	05/30/2015 129	BT
Alkalinity, Carbonate as CO3	47	mg/L		5	SM 2320B	05/30/2015 129	BT
Chloride	5	mg/L		1	EPA 300.0	05/29/2015 1529	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/03/2015 1840	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1329	AMB
Sulfate	411	mg/L		1	EPA 300.0	05/29/2015 1529	AB
Calcium	5	mg/L		1	EPA 200.7	05/29/2015 1642	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1642	DG
Potassium	7	mg/L		1	EPA 200.7	05/29/2015 1642	DG
Sodium	515	mg/L		1	EPA 200.7	05/29/2015 1642	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/02/2015 1416	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 129	BT
Electrical Conductivity	2060	µmhos/cm		5	SM 2510B	05/30/2015 129	BT
Total Dissolved Solids (180)	1410	mg/L		10	SM 2540	05/29/2015 1146	LJK
Data Quality							
Cation Sum	23.02	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	21.71	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	2.91	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1330	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-003
ClientSample ID: PM7
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:40:00 AM
DateReceived: 5/28/2015 2:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1642	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1930	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1930	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1642	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1930	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1642	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1930	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1642	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1930	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1357	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1930	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1642	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1930	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1930	MS
Uranium	0.0140	mg/L		0.0003	EPA 200.8	05/29/2015 1930	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1930	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1642	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1410	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 317	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 317	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-003
ClientSample ID: PM7
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 11:40:00 AM
DateReceived: 5/28/2015 2:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	27.2	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	5.7	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	11.7	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 1000	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 1000	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1716	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1716	MB
Radionuclides - Total							
Radon 222	1710	pCi/L		100	ASTM D5072-09	05/29/2015 2052	WN
Radon-222 Precision (±)	37.2	pCi/L			ASTM D5072-09	05/29/2015 2052	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-004
ClientSample ID: MU1 PM8
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 11:31:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	05/27/2015 1131	
Conductivity	2005	µmhos/cm			Field	05/27/2015 1131	
Dissolved Oxygen	3.10	mg/L			Field	05/27/2015 1131	
Turbidity	.31	NTU			Field	05/27/2015 1131	
Temperature	12.3	℃			Field	05/27/2015 1131	
Oxygen Reduction Potential (ORP)	+176	mV			Field	05/27/2015 1131	
Anions/Cations							
Alkalinity, Total (As CaCO3)	597	mg/L		5	SM 2320B	05/28/2015 1611	BT
Alkalinity, Bicarbonate as HCO3	661	mg/L		5	SM 2320B	05/28/2015 1611	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	05/28/2015 1611	BT
Chloride	6	mg/L		1	EPA 300.0	05/28/2015 1858	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/28/2015 1611	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1544	AMB
Sulfate	626	mg/L		1	EPA 300.0	05/28/2015 1858	AB
Calcium	6	mg/L		1	EPA 200.7	06/02/2015 1522	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1641	DG
Potassium	6	mg/L		1	EPA 200.7	05/28/2015 1641	DG
Sodium	599	mg/L		1	EPA 200.7	06/02/2015 1522	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/28/2015 1203	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1611	BT
Electrical Conductivity	2350	µmhos/cm		5	SM 2510B	05/28/2015 1611	BT
Total Dissolved Solids (180)	1640	mg/L		10	SM 2540	05/28/2015 1611	LJK
Data Quality							
Cation Sum	26.76	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Anion Sum	25.17	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Cation-Anion Balance (± 5%)	3.07	%		0.01	SM 1030E	06/04/2015 1217	JJ
Solids, Total Dissolved (Calc)	1600	mg/L		10	SM 1030E	06/04/2015 1217	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-004
ClientSample ID: MU1 PM8
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 11:31:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1641	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1444	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1444	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1641	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1444	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1641	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1444	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1641	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1444	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1217	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1444	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1641	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1444	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1444	MS
Uranium	0.0615	mg/L		0.0003	EPA 200.8	05/28/2015 1444	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1444	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1641	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2338	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2038	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2038	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-004
ClientSample ID: MU1 PM8
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 11:31:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	99.4	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	9.9	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	26.6	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	6.6	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	2.2	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	1.7	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 303	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 303	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 830	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1450	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1450	MB
Radionuclides - Total							
Radon 222	2600	pCi/L		100	ASTM D5072-09	05/28/2015 1525	WN
Radon-222 Precision (±)	52.1	pCi/L			ASTM D5072-09	05/28/2015 1525	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-003
ClientSample ID: MU1 PM9
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:33:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.5	s.u.			Field	05/27/2015 1033	
Conductivity	2088	µmhos/cm			Field	05/27/2015 1033	
Dissolved Oxygen	3.8	mg/L			Field	05/27/2015 1033	
Turbidity	1.81	NTU			Field	05/27/2015 1033	
Temperature	11.4	℃			Field	05/27/2015 1033	
Oxygen Reduction Potential (ORP)	-171	mV			Field	05/27/2015 1033	
Anions/Cations							
Alkalinity, Total (As CaCO3)	561	mg/L		5	SM 2320B	05/28/2015 1536	BT
Alkalinity, Bicarbonate as HCO3	619	mg/L		5	SM 2320B	05/28/2015 1536	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/28/2015 1536	BT
Chloride	8	mg/L		1	EPA 300.0	05/28/2015 1842	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	05/28/2015 1536	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1543	AMB
Sulfate	739	mg/L		1	EPA 300.0	05/28/2015 1842	AB
Calcium	6	mg/L		1	EPA 200.7	06/02/2015 1514	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1639	DG
Potassium	8	mg/L		1	EPA 200.7	05/28/2015 1639	DG
Sodium	646	mg/L		1	EPA 200.7	06/02/2015 1514	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	05/28/2015 1201	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1536	BT
Electrical Conductivity	2530	µmhos/cm		5	SM 2510B	05/28/2015 1536	BT
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	05/28/2015 1610	LJK
Data Quality							
Cation Sum	28.90	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Anion Sum	26.85	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Cation-Anion Balance (± 5%)	3.67	%		0.01	SM 1030E	06/04/2015 1217	JJ
Solids, Total Dissolved (Calc)	1750	mg/L		10	SM 1030E	06/04/2015 1217	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-003
ClientSample ID: MU1 PM9
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:33:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1639	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1439	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1439	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/28/2015 1639	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1439	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1639	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1439	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1639	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1439	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1215	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1439	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1639	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1439	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1439	MS
Uranium	0.0364	mg/L		0.0003	EPA 200.8	05/28/2015 1439	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1439	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1639	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2333	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2036	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2036	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-003
ClientSample ID: MU1 PM9
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:33:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	56.5	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	7.8	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	11.8	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	6.0	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	1.1	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 102	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 102	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 830	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	1990	pCi/L		100	ASTM D5072-09	05/28/2015 1458	WN
Radon-222 Precision (±)	39.8	pCi/L			ASTM D5072-09	05/28/2015 1458	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-001
ClientSample ID: MU1 PM10
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:00:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.62	s.u.			Field	05/27/2015 1000	
Conductivity	2272	µmhos/cm			Field	05/27/2015 1000	
Dissolved Oxygen	3.65	mg/L			Field	05/27/2015 1000	
Turbidity	2.29	NTU			Field	05/27/2015 1000	
Temperature	11.3	℃			Field	05/27/2015 1000	
Oxygen Reduction Potential (ORP)	-213	mV			Field	05/27/2015 1000	
Anions/Cations							
Alkalinity, Total (As CaCO3)	544	mg/L		5	SM 2320B	05/28/2015 1457	BT
Alkalinity, Bicarbonate as HCO3	595	mg/L		5	SM 2320B	05/28/2015 1457	BT
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	05/28/2015 1457	BT
Chloride	9	mg/L		1	EPA 300.0	05/28/2015 1810	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	05/28/2015 1457	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1540	AMB
Sulfate	882	mg/L		1	EPA 300.0	05/28/2015 1810	AB
Calcium	7	mg/L		1	EPA 200.7	06/02/2015 1509	DG
Magnesium	4	mg/L		1	EPA 200.7	05/28/2015 1623	DG
Potassium	8	mg/L		1	EPA 200.7	05/28/2015 1623	DG
Sodium	705	mg/L		1	EPA 200.7	06/02/2015 1509	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	05/28/2015 1149	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/28/2015 1457	BT
Electrical Conductivity	2770	µmhos/cm		5	SM 2510B	05/28/2015 1457	BT
Total Dissolved Solids (180)	1960	mg/L		10	SM 2540	05/28/2015 1608	LJK
Data Quality							
Cation Sum	31.58	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Anion Sum	29.51	meq/L		0.01	SM 1030E	06/04/2015 1217	JJ
Cation-Anion Balance (± 5%)	3.39	%		0.01	SM 1030E	06/04/2015 1217	JJ
Solids, Total Dissolved (Calc)	1940	mg/L		10	SM 1030E	06/04/2015 1217	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-001
ClientSample ID: MU1 PM10
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:00:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1623	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	05/28/2015 1428	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1428	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/28/2015 1623	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1428	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1623	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1428	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1623	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1428	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1211	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1428	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1623	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1428	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1428	MS
Uranium	0.0221	mg/L		0.0003	EPA 200.8	05/28/2015 1428	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1428	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	05/28/2015 1623	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2256	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2031	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2031	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/22/2015
Report ID S1505457001

ProjectName: Ross MU1 ISR
Lab ID: S1505457-001
ClientSample ID: MU1 PM10
COC: 158716 158715 15883

WorkOrder: S1505457
CollectionDate: 5/27/2015 10:00:00 AM
DateReceived: 5/27/2015 3:20:00 PM
FieldSampler: CS/MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	28.0	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	5.3	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	11.6	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	5.4	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	1.0	pCi/L		1	OTW01	06/11/2015 1510	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/11/2015 1510	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1240	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1240	MB
Radium 226	1.4	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/12/2015 2101	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/12/2015 2101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 830	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 830	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	2200	pCi/L		100	ASTM D5072-09	05/28/2015 1419	WN
Radon-222 Precision (±)	44.0	pCi/L			ASTM D5072-09	05/28/2015 1419	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-008
ClientSample ID: MU1-PM11
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 1:10:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	05/29/2015 1310	
Conductivity	1593	µmhos/cm			Field	05/29/2015 1310	
Dissolved Oxygen	0.71	mg/L			Field	05/29/2015 1310	
Turbidity	2.30	NTU			Field	05/29/2015 1310	
Temperature	10.6	℃			Field	05/29/2015 1310	
Oxygen Reduction Potential (ORP)	-180.3	mV			Field	05/29/2015 1310	
Anions/Cations							
Alkalinity, Total (As CaCO3)	702	mg/L		5	SM 2320B	06/02/2015 2326	LJK
Alkalinity, Bicarbonate as HCO3	773	mg/L		5	SM 2320B	06/02/2015 2326	LJK
Alkalinity, Carbonate as CO3	41	mg/L		5	SM 2320B	06/02/2015 2326	LJK
Chloride	4	mg/L		1	EPA 300.0	06/02/2015 1727	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/04/2015 1502	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1321	AMB
Sulfate	383	mg/L		1	EPA 300.0	06/02/2015 1727	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2042	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2042	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 2042	DG
Sodium	495	mg/L		1	EPA 200.7	06/01/2015 2042	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/01/2015 1527	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 2326	LJK
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	06/02/2015 2326	LJK
Total Dissolved Solids (180)	1340	mg/L		10	SM 2540	06/01/2015 2142	TS
Data Quality							
Cation Sum	22.15	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	22.18	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	0.06	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1320	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-008
ClientSample ID: MU1-PM11
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 1:10:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2042	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	06/01/2015 1734	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1734	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 2042	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1734	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2042	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1734	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2042	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1734	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1212	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1734	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2042	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1734	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1734	MS
Uranium	0.0023	mg/L		0.0003	EPA 200.8	06/01/2015 1734	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1734	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2042	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1425	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	06/02/2015 2120	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2120	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-008
ClientSample ID: MU1-PM11
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015 1:10:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	10.4	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	2.6	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	5.6	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	2.0	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1334	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/16/2015 1334	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/21/2015 810	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/21/2015 810	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	0.7	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	ND	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	2970	pCi/L		100	ASTM D5072-09	05/31/2015 906	WN
Radon-222 Precision (±)	59.5	pCi/L			ASTM D5072-09	05/31/2015 906	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-009
ClientSample ID: MU1-PM11 Dup
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	659	mg/L		5	SM 2320B	06/02/2015 2335	LJK
Alkalinity, Bicarbonate as HCO3	726	mg/L		5	SM 2320B	06/02/2015 2335	LJK
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	06/02/2015 2335	LJK
Chloride	4	mg/L		1	EPA 300.0	06/02/2015 1740	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/04/2015 1506	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1322	AMB
Sulfate	381	mg/L		1	EPA 300.0	06/02/2015 1740	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2047	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2047	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 2047	DG
Sodium	488	mg/L		1	EPA 200.7	06/01/2015 2047	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/01/2015 1532	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 2335	LJK
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	06/02/2015 2335	LJK
Total Dissolved Solids (180)	1340	mg/L		10	SM 2540	06/01/2015 2143	TS
Data Quality							
Cation Sum	21.85	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	21.28	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	1.31	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1280	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-009
ClientSample ID: MU1-PM11 Dup
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2047	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	06/01/2015 1740	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1740	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 2047	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1740	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2047	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1740	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2047	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1740	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1214	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1740	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2047	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1740	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1740	MS
Uranium	0.0023	mg/L		0.0003	EPA 200.8	06/01/2015 1740	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1740	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2047	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1429	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	06/02/2015 2122	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2122	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-009
ClientSample ID: MU1-PM11 Dup
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/29/2015
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	8.4	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	2.1	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	9.4	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	2.8	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	1.8	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1334	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/16/2015 1334	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/21/2015 1011	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/21/2015 1011	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	ND	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	3520	pCi/L		100	ASTM D5072-09	05/31/2015 931	WN
Radon-222 Precision (±)	70.3	pCi/L			ASTM D5072-09	05/31/2015 931	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-004
ClientSample ID: MU1-PM-12
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 3:01:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.30	s.u.			Field	05/27/2015 1501	
Conductivity	1800	µmhos/cm			Field	05/27/2015 1501	
Dissolved Oxygen	0.13	mg/L			Field	05/27/2015 1501	
Turbidity	2.82	NTU			Field	05/27/2015 1501	
Depth to Water	39.10	ft			Field	05/27/2015 1501	
Temperature	10.6	℃			Field	05/27/2015 1501	
Oxygen Reduction Potential (ORP)	-183.8	mV			Field	05/27/2015 1501	
Anions/Cations							
Alkalinity, Total (As CaCO3)	653	mg/L		5	SM 2320B	05/28/2015 1433	BT
Alkalinity, Bicarbonate as HCO3	734	mg/L		5	SM 2320B	05/28/2015 1433	BT
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	05/28/2015 1433	BT
Chloride	5	mg/L		1	EPA 300.0	05/28/2015 1739	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	05/28/2015 1433	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1537	AMB
Sulfate	352	mg/L		1	EPA 300.0	05/28/2015 1739	AB
Calcium	6	mg/L		1	EPA 200.7	06/02/2015 1504	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1616	DG
Potassium	5	mg/L		1	EPA 200.7	05/28/2015 1616	DG
Sodium	501	mg/L		1	EPA 200.7	06/02/2015 1504	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/28/2015 1144	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/28/2015 1433	BT
Electrical Conductivity	1880	µmhos/cm		5	SM 2510B	05/28/2015 1433	BT
Total Dissolved Solids (180)	1300	mg/L		10	SM 2540	05/28/2015 1606	LJK
Data Quality							
Cation Sum	22.44	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Anion Sum	20.55	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Cation-Anion Balance (± 5%)	4.40	%		0.01	SM 1030E	06/04/2015 1211	JJ
Solids, Total Dissolved (Calc)	1260	mg/L		10	SM 1030E	06/04/2015 1211	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-004
ClientSample ID: MU1-PM-12
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 3:01:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1616	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	05/28/2015 1417	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1417	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/28/2015 1616	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1417	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1616	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1417	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1616	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1417	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1202	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1417	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1616	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1417	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1417	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/28/2015 1417	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1417	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1616	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2146	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	05/28/2015 2020	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2020	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-004
ClientSample ID: MU1-PM-12
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 3:01:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 1114	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/11/2015 1114	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 2010	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 2010	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/10/2015 833	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/10/2015 833	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	859	pCi/L		100	ASTM D5072-09	05/28/2015 1311	WN
Radon-222 Precision (±)	24.7	pCi/L			ASTM D5072-09	05/28/2015 1311	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-001
ClientSample ID: MU1-PM-13
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/27/2015 5:24:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.35	s.u.			Field	05/27/2015 1724	
Conductivity	1730	µmhos/cm			Field	05/27/2015 1724	
Dissolved Oxygen	0.08	mg/L			Field	05/27/2015 1724	
Turbidity	4.52	NTU			Field	05/27/2015 1724	
Depth to Water	67.81	ft			Field	05/27/2015 1724	
Temperature	10.9	℃			Field	05/27/2015 1724	
Oxygen Reduction Potential (ORP)	-198.4	mV			Field	05/27/2015 1724	
Anions/Cations							
Alkalinity, Total (As CaCO3)	682	mg/L		5	SM 2320B	05/29/2015 2057	BT
Alkalinity, Bicarbonate as HCO3	759	mg/L		5	SM 2320B	05/29/2015 2057	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/29/2015 2057	BT
Chloride	3	mg/L		1	EPA 300.0	05/31/2015 315	AB
Fluoride	1.8	mg/L		0.1	SM 4500FC	06/01/2015 2046	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1223	AMB
Sulfate	285	mg/L		1	EPA 300.0	05/31/2015 315	AB
Calcium	6	mg/L		1	EPA 200.7	05/29/2015 1450	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1450	DG
Potassium	5	mg/L		1	EPA 200.7	05/29/2015 1450	DG
Sodium	480	mg/L		1	EPA 200.7	05/29/2015 1450	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/02/2015 1221	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2057	BT
Electrical Conductivity	1830	µmhos/cm		5	SM 2510B	05/29/2015 2057	BT
Total Dissolved Solids (180)	1240	mg/L		10	SM 2540	05/29/2015 1117	LJK
Data Quality							
Cation Sum	21.51	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Anion Sum	19.75	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Cation-Anion Balance (± 5%)	4.25	%		0.01	SM 1030E	06/04/2015 1229	JJ
Solids, Total Dissolved (Calc)	1190	mg/L		10	SM 1030E	06/04/2015 1229	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-001
ClientSample ID: MU1-PM-13
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/27/2015 5:24:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1450	DG
Arsenic	0.015	mg/L		0.005	EPA 200.8	05/29/2015 1515	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1515	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1450	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1515	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1450	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1515	MS
Iron	0.06	mg/L		0.05	EPA 200.7	05/29/2015 1450	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1515	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1225	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1515	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1450	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1515	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1515	MS
Uranium	0.0022	mg/L		0.0003	EPA 200.8	05/29/2015 1515	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1515	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1450	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1658	MS
Metals - Total							
Iron	0.09	mg/L		0.05	EPA 200.7	06/02/2015 124	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 124	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-001
ClientSample ID: MU1-PM-13
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/27/2015 5:24:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	4.0	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	2.0	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	3.7	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/14/2015 112	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/14/2015 112	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	1450	pCi/L		100	ASTM D5072-09	05/29/2015 1311	WN
Radon-222 Precision (±)	35.4	pCi/L			ASTM D5072-09	05/29/2015 1311	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-001
ClientSample ID: MU1-PM14A
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/28/2015 3:37:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.59	s.u.			Field	05/28/2015 1537	
Conductivity	1799	µmhos/cm			Field	05/28/2015 1537	
Dissolved Oxygen	1.31	mg/L			Field	05/28/2015 1537	
Turbidity	1.43	NTU			Field	05/28/2015 1537	
Temperature	10.7	℃			Field	05/28/2015 1537	
Oxygen Reduction Potential (ORP)	-204.4	mV			Field	05/28/2015 1537	
Anions/Cations							
Alkalinity, Total (As CaCO3)	598	mg/L		5	SM 2320B	06/02/2015 2208	LJK
Alkalinity, Bicarbonate as HCO3	649	mg/L		5	SM 2320B	06/02/2015 2208	LJK
Alkalinity, Carbonate as CO3	40	mg/L		5	SM 2320B	06/02/2015 2208	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 1430	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/04/2015 1412	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1310	AMB
Sulfate	568	mg/L		1	EPA 300.0	06/02/2015 1430	AB
Calcium	8	mg/L		1	EPA 200.7	06/01/2015 2012	DG
Magnesium	5	mg/L		1	EPA 200.7	06/01/2015 2012	DG
Potassium	8	mg/L		1	EPA 200.7	06/01/2015 2012	DG
Sodium	537	mg/L		1	EPA 200.7	06/01/2015 2012	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/01/2015 1510	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/02/2015 2208	LJK
Electrical Conductivity	2270	µmhos/cm		5	SM 2510B	06/02/2015 2208	LJK
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	06/01/2015 2134	TS
Data Quality							
Cation Sum	24.39	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Anion Sum	23.94	meq/L		0.01	SM 1030E	06/11/2015 1558	JJ
Cation-Anion Balance (± 5%)	0.93	%		0.01	SM 1030E	06/11/2015 1558	JJ
Solids, Total Dissolved (Calc)	1490	mg/L		10	SM 1030E	06/11/2015 1558	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-001
ClientSample ID: MU1-PM14A
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/28/2015 3:37:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2012	DG
Arsenic	0.008	mg/L		0.005	EPA 200.8	06/01/2015 1619	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1619	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/01/2015 2012	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1619	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2012	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1619	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2012	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1619	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1149	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1619	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2012	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1619	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1619	MS
Uranium	0.0037	mg/L		0.0003	EPA 200.8	06/01/2015 1619	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1619	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2012	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1506	MS
Metals - Total							
Iron	0.10	mg/L		0.05	EPA 200.7	06/02/2015 2050	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2050	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505527001

ProjectName: Ross MU1 ISR
Lab ID: S1505527-001
ClientSample ID: MU1-PM14A
COC: 160018

WorkOrder: S1505527
CollectionDate: 5/28/2015 3:37:00 PM
DateReceived: 5/29/2015 5:00:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	29.0	pCi/L		2	SM 7110B	06/11/2015 2234	MB
Gross Alpha Precision (±)	6.0	pCi/L			SM 7110B	06/11/2015 2234	MB
Gross Beta	15.7	pCi/L		3	SM 7110B	06/11/2015 2234	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	06/11/2015 2234	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	11.3	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1333	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/16/2015 1333	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/18/2015 407	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/18/2015 407	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 806	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 806	MB
Radionuclides - Total							
Radon 222	2590	pCi/L		100	ASTM D5072-09	05/31/2015 742	WN
Radon-222 Precision (±)	51.7	pCi/L			ASTM D5072-09	05/31/2015 742	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-003
ClientSample ID: MU1-PM-15
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 1:43:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.12	s.u.			Field	05/27/2015 1343	
Conductivity	2095	µmhos/cm			Field	05/27/2015 1343	
Dissolved Oxygen	0.11	mg/L			Field	05/27/2015 1343	
Turbidity	1.14	NTU			Field	05/27/2015 1343	
Depth to Water	74.4	ft			Field	05/27/2015 1343	
Temperature	11.1	℃			Field	05/27/2015 1343	
Oxygen Reduction Potential (ORP)	-193	mV			Field	05/27/2015 1343	
Anions/Cations							
Alkalinity, Total (As CaCO3)	538	mg/L		5	SM 2320B	05/28/2015 1419	BT
Alkalinity, Bicarbonate as HCO3	621	mg/L		5	SM 2320B	05/28/2015 1419	BT
Alkalinity, Carbonate as CO3	18	mg/L		5	SM 2320B	05/28/2015 1419	BT
Chloride	8	mg/L		1	EPA 300.0	05/28/2015 1723	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/28/2015 1419	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1535	AMB
Sulfate	593	mg/L		1	EPA 300.0	05/28/2015 1723	AB
Calcium	19	mg/L		1	EPA 200.7	06/02/2015 1502	DG
Magnesium	11	mg/L		1	EPA 200.7	05/28/2015 1614	DG
Potassium	10	mg/L		1	EPA 200.7	05/28/2015 1614	DG
Sodium	538	mg/L		1	EPA 200.7	06/02/2015 1502	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	05/28/2015 1143	AMB
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	05/28/2015 1419	BT
Electrical Conductivity	2160	µmhos/cm		5	SM 2510B	05/28/2015 1419	BT
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	05/28/2015 1605	LJK
Data Quality							
Cation Sum	25.55	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Anion Sum	23.34	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Cation-Anion Balance (± 5%)	4.52	%		0.01	SM 1030E	06/04/2015 1211	JJ
Solids, Total Dissolved (Calc)	1500	mg/L		10	SM 1030E	06/04/2015 1211	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-003
ClientSample ID: MU1-PM-15
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 1:43:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1614	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1411	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1411	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/28/2015 1614	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1411	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1614	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1411	MS
Iron	0.19	mg/L		0.05	EPA 200.7	05/28/2015 1614	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1411	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1156	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1411	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1614	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1411	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1411	MS
Uranium	0.0354	mg/L		0.0003	EPA 200.8	05/28/2015 1411	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1411	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1614	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2140	MS
Metals - Total							
Iron	0.20	mg/L		0.05	EPA 200.7	05/28/2015 2017	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2017	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-003
ClientSample ID: MU1-PM-15
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 1:43:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	45.1	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	6.7	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	14.2	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	6.1	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	5.3	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 857	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/11/2015 857	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 1809	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 1809	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/10/2015 833	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/10/2015 833	MB
Radionuclides - Suspended							
Lead 210	1.4	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	14900	pCi/L		100	ASTM D5072-09	05/28/2015 1235	WN
Radon-222 Precision (±)	299	pCi/L			ASTM D5072-09	05/28/2015 1235	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-004
ClientSample ID: MU1-PM-16
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 12:51:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.76	s.u.			Field	05/29/2015 1251	
Conductivity	1911	µmhos/cm			Field	05/29/2015 1251	
Dissolved Oxygen	0.18	mg/L			Field	05/29/2015 1251	
Turbidity	1.71	NTU			Field	05/29/2015 1251	
Depth to Water	78.06	ft			Field	05/29/2015 1251	
Temperature	10.9	℃			Field	05/29/2015 1251	
Oxygen Reduction Potential (ORP)	-227.3	mV			Field	05/29/2015 1251	
Anions/Cations							
Alkalinity, Total (As CaCO3)	649	mg/L		5	SM 2320B	06/03/2015 013	LJK
Alkalinity, Bicarbonate as HCO3	702	mg/L		5	SM 2320B	06/03/2015 013	LJK
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	06/03/2015 013	LJK
Chloride	5	mg/L		1	EPA 300.0	06/03/2015 703	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/04/2015 1529	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1337	AMB
Sulfate	421	mg/L		1	EPA 300.0	06/03/2015 703	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2107	DG
Magnesium	3	mg/L		1	EPA 200.7	06/01/2015 2107	DG
Potassium	10	mg/L		1	EPA 200.7	06/01/2015 2107	DG
Sodium	488	mg/L		1	EPA 200.7	06/01/2015 2107	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/02/2015 1058	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/03/2015 013	LJK
Electrical Conductivity	2050	µmhos/cm		5	SM 2510B	06/03/2015 013	LJK
Total Dissolved Solids (180)	1380	mg/L		10	SM 2540	06/01/2015 2148	TS
Data Quality							
Cation Sum	21.97	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	21.95	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	0.03	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	1320	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-004
ClientSample ID: MU1-PM-16
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 12:51:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2107	DG
Arsenic	0.015	mg/L		0.005	EPA 200.8	06/01/2015 1813	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1813	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 2107	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1813	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2107	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1813	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2107	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1813	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1229	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1813	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2107	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1813	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1813	MS
Uranium	0.0108	mg/L		0.0003	EPA 200.8	06/01/2015 1813	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1813	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2107	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1457	MS
Metals - Total							
Iron	0.06	mg/L		0.05	EPA 200.7	06/02/2015 2133	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2133	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-004
ClientSample ID: MU1-PM-16
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 12:51:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	17.2	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	4.2	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	8.8	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	1.6	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1548	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/16/2015 1548	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/21/2015 1814	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/21/2015 1814	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	1.6	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	ND	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	3770	pCi/L		100	ASTM D5072-09	05/31/2015 1141	WN
Radon-222 Precision (±)	75.3	pCi/L			ASTM D5072-09	05/31/2015 1141	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-002
ClientSample ID: MU1-PM-17
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 12:26:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.28	s.u.			Field	05/27/2015 1226	
Conductivity	2014	µmhos/cm			Field	05/27/2015 1226	
Dissolved Oxygen	0.08	mg/L			Field	05/27/2015 1226	
Turbidity	1.63	NTU			Field	05/27/2015 1226	
Depth to Water	67.7	ft			Field	05/27/2015 1226	
Temperature	10.9	℃			Field	05/27/2015 1226	
Oxygen Reduction Potential (ORP)	-176.5	mV			Field	05/27/2015 1226	
Anions/Cations							
Alkalinity, Total (As CaCO3)	685	mg/L		5	SM 2320B	05/28/2015 1407	BT
Alkalinity, Bicarbonate as HCO3	772	mg/L		5	SM 2320B	05/28/2015 1407	BT
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	05/28/2015 1407	BT
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 2118	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	05/28/2015 1407	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1534	AMB
Sulfate	435	mg/L		1	EPA 300.0	06/02/2015 2118	AB
Calcium	7	mg/L		1	EPA 200.7	06/02/2015 1459	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1612	DG
Potassium	6	mg/L		1	EPA 200.7	06/02/2015 1459	DG
Sodium	560	mg/L		1	EPA 200.7	06/02/2015 1459	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/28/2015 1141	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/28/2015 1407	BT
Electrical Conductivity	2100	µmhos/cm		5	SM 2510B	05/28/2015 1407	BT
Total Dissolved Solids (180)	1460	mg/L		10	SM 2540	05/28/2015 1604	LJK
Data Quality							
Cation Sum	25.13	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Anion Sum	22.94	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Cation-Anion Balance (± 5%)	4.56	%		0.01	SM 1030E	06/04/2015 1211	JJ
Solids, Total Dissolved (Calc)	1430	mg/L		10	SM 1030E	06/04/2015 1211	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-002
ClientSample ID: MU1-PM-17
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 12:26:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1612	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	05/28/2015 1355	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1355	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/28/2015 1612	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1355	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1612	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1355	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1612	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1355	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1154	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1355	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1612	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1355	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1355	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/28/2015 1355	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1355	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1612	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2135	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/28/2015 2011	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2011	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-002
ClientSample ID: MU1-PM-17
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 12:26:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.4	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	2.3	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	3.1	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	5.2	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	2.3	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	2.0	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	0.7	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 857	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/11/2015 857	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 1608	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 1608	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/10/2015 833	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/10/2015 833	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	810	pCi/L		100	ASTM D5072-09	05/28/2015 1230	WN
Radon-222 Precision (±)	24.1	pCi/L			ASTM D5072-09	05/28/2015 1230	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-001
ClientSample ID: MU1-PM-18
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 11:06:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.32	s.u.			Field	05/27/2015 1106	
Conductivity	1967	µmhos/cm			Field	05/27/2015 1106	
Dissolved Oxygen	0.09	mg/L			Field	05/27/2015 1106	
Turbidity	0.87	NTU			Field	05/27/2015 1106	
Depth to Water	80.0	ft			Field	05/27/2015 1106	
Temperature	11.0	℃			Field	05/27/2015 1106	
Oxygen Reduction Potential (ORP)	-178.9	mV			Field	05/27/2015 1106	
Anions/Cations							
Alkalinity, Total (As CaCO3)	671	mg/L		5	SM 2320B	05/28/2015 1355	BT
Alkalinity, Bicarbonate as HCO3	753	mg/L		5	SM 2320B	05/28/2015 1355	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/28/2015 1355	BT
Chloride	5	mg/L		1	EPA 300.0	05/28/2015 1651	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	05/28/2015 1355	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1532	AMB
Sulfate	417	mg/L		1	EPA 300.0	05/28/2015 1651	AB
Calcium	6	mg/L		1	EPA 200.7	06/02/2015 1457	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1610	DG
Potassium	5	mg/L		1	EPA 200.7	06/02/2015 1457	DG
Sodium	535	mg/L		1	EPA 200.7	06/02/2015 1457	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/28/2015 1140	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/28/2015 1355	BT
Electrical Conductivity	2060	µmhos/cm		5	SM 2510B	05/28/2015 1355	BT
Total Dissolved Solids (180)	1420	mg/L		10	SM 2540	05/28/2015 1603	LJK
Data Quality							
Cation Sum	23.98	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Anion Sum	22.29	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Cation-Anion Balance (± 5%)	3.65	%		0.01	SM 1030E	06/04/2015 1211	JJ
Solids, Total Dissolved (Calc)	1370	mg/L		10	SM 1030E	06/04/2015 1211	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-001
ClientSample ID: MU1-PM-18
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 11:06:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1610	DG
Arsenic	0.009	mg/L		0.005	EPA 200.8	05/28/2015 1334	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1334	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/28/2015 1610	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1334	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1610	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1334	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1610	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1334	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1152	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1334	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1610	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1334	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1334	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/28/2015 1334	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1334	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1610	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2129	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/28/2015 2006	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2006	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-001
ClientSample ID: MU1-PM-18
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 11:06:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	7.1	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	5.0	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 857	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/11/2015 857	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 1407	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 1407	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/10/2015 833	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/10/2015 833	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	530	pCi/L		100	ASTM D5072-09	05/28/2015 1119	WN
Radon-222 Precision (±)	19.0	pCi/L			ASTM D5072-09	05/28/2015 1119	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-005
ClientSample ID: MU1-PM-18 DUP
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 11:06:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.32	s.u.			Field	05/27/2015 1106	
Conductivity	1967	µmhos/cm			Field	05/27/2015 1106	
Dissolved Oxygen	0.09	mg/L			Field	05/27/2015 1106	
Turbidity	0.87	NTU			Field	05/27/2015 1106	
Depth to Water	80.0	ft			Field	05/27/2015 1106	
Temperature	11.0	℃			Field	05/27/2015 1106	
Oxygen Reduction Potential (ORP)	-178.9	mV			Field	05/27/2015 1106	
Anions/Cations							
Alkalinity, Total (As CaCO3)	671	mg/L		5	SM 2320B	05/28/2015 1445	BT
Alkalinity, Bicarbonate as HCO3	751	mg/L		5	SM 2320B	05/28/2015 1445	BT
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	05/28/2015 1445	BT
Chloride	5	mg/L		1	EPA 300.0	05/28/2015 1754	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	05/28/2015 1445	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1538	AMB
Sulfate	420	mg/L		1	EPA 300.0	05/28/2015 1754	AB
Calcium	6	mg/L		1	EPA 200.7	06/02/2015 1506	DG
Magnesium	3	mg/L		1	EPA 200.7	05/28/2015 1619	DG
Potassium	5	mg/L		1	EPA 200.7	05/28/2015 1619	DG
Sodium	537	mg/L		1	EPA 200.7	06/02/2015 1506	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	05/28/2015 1145	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/28/2015 1445	BT
Electrical Conductivity	2070	µmhos/cm		5	SM 2510B	05/28/2015 1445	BT
Total Dissolved Solids (180)	1410	mg/L		10	SM 2540	05/28/2015 1607	LJK
Data Quality							
Cation Sum	24.04	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Anion Sum	22.36	meq/L		0.01	SM 1030E	06/04/2015 1211	JJ
Cation-Anion Balance (± 5%)	3.61	%		0.01	SM 1030E	06/04/2015 1211	JJ
Solids, Total Dissolved (Calc)	1380	mg/L		10	SM 1030E	06/04/2015 1211	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-005
ClientSample ID: MU1-PM-18 DUP
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 11:06:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1619	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	05/28/2015 1422	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1422	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/28/2015 1619	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1422	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1619	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1422	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1619	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1422	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1209	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1422	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1619	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1422	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1422	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/28/2015 1422	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1422	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1619	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 2151	MS
Metals - Total							
Iron	0.07	mg/L		0.05	EPA 200.7	05/28/2015 2022	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2022	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505456001

ProjectName: Ross MU1 ISR
Lab ID: S1505456-005
ClientSample ID: MU1-PM-18 DUP
COC: 160027

WorkOrder: S1505456
CollectionDate: 5/27/2015 11:06:00 AM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	5.4	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	ND	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	06/30/2015 1259	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/30/2015 1259	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 2210	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 2210	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/10/2015 833	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/10/2015 833	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1032	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1032	MB
Radionuclides - Total							
Radon 222	557	pCi/L		100	ASTM D5072-09	05/28/2015 1346	WN
Radon-222 Precision (±)	19.7	pCi/L			ASTM D5072-09	05/28/2015 1346	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-003
ClientSample ID: MU1 PM 19
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 9:13:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.38	s.u.			Field	05/29/2015 913	
Conductivity	1761	µmhos/cm			Field	05/29/2015 913	
Dissolved Oxygen	3.94	mg/L			Field	05/29/2015 913	
Turbidity	2.18	NTU			Field	05/29/2015 913	
Temperature	10.5	℃			Field	05/29/2015 913	
Oxygen Reduction Potential (ORP)	-246	mV			Field	05/29/2015 913	
Anions/Cations							
Alkalinity, Total (As CaCO3)	642	mg/L		5	SM 2320B	06/02/2015 252	LJK
Alkalinity, Bicarbonate as HCO3	710	mg/L		5	SM 2320B	06/02/2015 252	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/02/2015 252	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 822	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/04/2015 1255	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1228	AMB
Sulfate	486	mg/L		1	EPA 300.0	06/02/2015 822	AB
Calcium	7	mg/L		1	EPA 200.7	06/01/2015 1908	DG
Magnesium	3	mg/L		1	EPA 200.7	06/01/2015 1908	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 1908	DG
Sodium	535	mg/L		1	EPA 200.7	06/01/2015 1908	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/01/2015 1440	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 252	LJK
Electrical Conductivity	2210	µmhos/cm		5	SM 2510B	06/02/2015 252	LJK
Total Dissolved Solids (180)	1480	mg/L		10	SM 2540	06/01/2015 2118	TS
Data Quality							
Cation Sum	24.01	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Anion Sum	23.15	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Cation-Anion Balance (± 5%)	1.83	%		0.01	SM 1030E	06/25/2015 1021	WN
Solids, Total Dissolved (Calc)	1430	mg/L		10	SM 1030E	06/25/2015 1021	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-003
ClientSample ID: MU1 PM 19
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 9:13:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1908	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/01/2015 1414	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1414	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 1908	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1414	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1908	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1414	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1908	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1414	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1058	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1414	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1908	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1414	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1414	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/01/2015 1414	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1414	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1908	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1332	MS
Metals - Total							
Iron	0.08	mg/L		0.05	EPA 200.7	06/02/2015 1945	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1945	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-003
ClientSample ID: MU1 PM 19
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 9:13:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	7.3	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	4.9	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 825	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 825	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	379	pCi/L		100	ASTM D5072-09	05/30/2015 2225	WN
Radon-222 Precision (±)	15.9	pCi/L			ASTM D5072-09	05/30/2015 2225	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-007
ClientSample ID: MU1 SM1
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 10:05:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.67	s.u.			Field	05/29/2015 1005	
Conductivity	1056	µmhos/cm			Field	05/29/2015 1005	
Dissolved Oxygen	2.85	mg/L			Field	05/29/2015 1005	
Turbidity	5.26	NTU			Field	05/29/2015 1005	
Temperature	10.2	℃			Field	05/29/2015 1005	
Oxygen Reduction Potential (ORP)	-146	mV			Field	05/29/2015 1005	
Anions/Cations							
Alkalinity, Total (As CaCO3)	518	mg/L		5	SM 2320B	06/02/2015 517	LJK
Alkalinity, Bicarbonate as HCO3	553	mg/L		5	SM 2320B	06/02/2015 517	LJK
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	06/02/2015 517	LJK
Chloride	4	mg/L		1	EPA 300.0	06/02/2015 1146	AB
Fluoride	1.7	mg/L		0.1	SM 4500FC	06/04/2015 1339	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1251	AMB
Sulfate	174	mg/L		1	EPA 300.0	06/02/2015 1146	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 1942	DG
Magnesium	1	mg/L		1	EPA 200.7	06/01/2015 1942	DG
Potassium	5	mg/L		1	EPA 200.7	06/01/2015 1942	DG
Sodium	311	mg/L		1	EPA 200.7	06/01/2015 1942	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/01/2015 1500	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	06/02/2015 517	LJK
Electrical Conductivity	1360	µmhos/cm		5	SM 2510B	06/02/2015 517	LJK
Total Dissolved Solids (180)	910	mg/L		10	SM 2540	06/08/2015 2040	TS
Data Quality							
Cation Sum	13.88	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Anion Sum	14.18	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Cation-Anion Balance (± 5%)	1.04	%		0.01	SM 1030E	06/15/2015 1209	JJ
Solids, Total Dissolved (Calc)	810	mg/L		10	SM 1030E	06/15/2015 1209	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-007
ClientSample ID: MU1 SM1
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 10:05:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1942	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1530	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1530	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 1942	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1530	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1942	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1530	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1942	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1530	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1121	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1530	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1942	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1530	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1530	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/01/2015 1530	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1530	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1942	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1437	MS
Metals - Total							
Iron	0.17	mg/L		0.05	EPA 200.7	06/02/2015 2020	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2020	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-007
ClientSample ID: MU1 SM1
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 10:05:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	7.4	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 232	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 232	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	279	pCi/L		100	ASTM D5072-09	05/31/2015 334	WN
Radon-222 Precision (±)	13.4	pCi/L			ASTM D5072-09	05/31/2015 334	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-003
ClientSample ID: MU1-SM-2
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 11:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.82	s.u.			Field	05/29/2015 1123	
Conductivity	1607	µmhos/cm			Field	05/29/2015 1123	
Dissolved Oxygen	0.08	mg/L			Field	05/29/2015 1123	
Turbidity	77.1	NTU			Field	05/29/2015 1123	
Depth to Water	56.21	ft			Field	05/29/2015 1123	
Temperature	10.8	℃			Field	05/29/2015 1123	
Oxygen Reduction Potential (ORP)	-247.8	mV			Field	05/29/2015 1123	
Anions/Cations							
Alkalinity, Total (As CaCO3)	589	mg/L		5	SM 2320B	06/08/2015 1503	LJK
Alkalinity, Bicarbonate as HCO3	629	mg/L		5	SM 2320B	06/08/2015 1503	LJK
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	06/08/2015 1503	LJK
Chloride	5	mg/L		1	EPA 300.0	06/06/2015 831	AB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/04/2015 1525	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1336	AMB
Sulfate	282	mg/L		1	EPA 300.0	06/06/2015 831	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 2105	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2105	DG
Potassium	10	mg/L		1	EPA 200.7	06/01/2015 2105	DG
Sodium	407	mg/L		1	EPA 200.7	06/01/2015 2105	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1057	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/08/2015 1503	LJK
Electrical Conductivity	1730	µmhos/cm		5	SM 2510B	06/03/2015 004	LJK
Total Dissolved Solids (180)	1140	mg/L		10	SM 2540	06/01/2015 2147	TS
Data Quality							
Cation Sum	18.25	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	17.83	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	1.17	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	1060	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-003
ClientSample ID: MU1-SM-2
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 11:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2105	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1807	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1807	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 2105	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1807	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2105	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1807	MS
Iron	0.06	mg/L		0.05	EPA 200.7	06/01/2015 2105	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1807	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1220	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1807	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2105	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1807	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1807	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	06/01/2015 1807	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1807	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2105	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1441	MS
Metals - Total							
Iron	1.49	mg/L		0.05	EPA 200.7	06/02/2015 2129	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2129	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-003
ClientSample ID: MU1-SM-2
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 11:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.3	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	2.3	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	8.8	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	1.1	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1548	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 1548	MB
Radium 228	1.7	pCi/L		1	Ga-Tech	06/21/2015 1613	MB
Radium 228 Precision (±)	1.2	pCi/L			Ga-Tech	06/21/2015 1613	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	1.3	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	ND	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	1230	pCi/L		100	ASTM D5072-09	05/31/2015 1119	WN
Radon-222 Precision (±)	32.8	pCi/L			ASTM D5072-09	05/31/2015 1119	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-007
ClientSample ID: MU1-SM-2 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 11:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	617	mg/L		5	SM 2320B	06/03/2015 050	LJK
Alkalinity, Bicarbonate as HCO3	658	mg/L		5	SM 2320B	06/03/2015 050	LJK
Alkalinity, Carbonate as CO3	46	mg/L		5	SM 2320B	06/03/2015 050	LJK
Chloride	4	mg/L		1	EPA 300.0	06/03/2015 744	AB
Fluoride	1.4	mg/L		0.1	SM 4500FC	06/04/2015 1543	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1342	AMB
Sulfate	287	mg/L		1	EPA 300.0	06/03/2015 744	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 2117	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2117	DG
Potassium	9	mg/L		1	EPA 200.7	06/01/2015 2117	DG
Sodium	398	mg/L		1	EPA 200.7	06/01/2015 2117	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1102	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	06/03/2015 050	LJK
Electrical Conductivity	1720	µmhos/cm		5	SM 2510B	06/03/2015 050	LJK
Total Dissolved Solids (180)	1150	mg/L		10	SM 2540	06/01/2015 2151	TS
Data Quality							
Cation Sum	17.85	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	18.49	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	1.76	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	1070	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-007
ClientSample ID: MU1-SM-2 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 11:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2117	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1845	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1845	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 2117	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1845	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2117	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1845	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2117	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1845	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1241	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1845	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2117	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1845	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1845	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	06/01/2015 1845	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1845	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2117	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1518	MS
Metals - Total							
Iron	1.50	mg/L		0.05	EPA 200.7	06/02/2015 2152	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2152	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-007
ClientSample ID: MU1-SM-2 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/29/2015 11:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.3	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	2.2	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	11.7	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	3.2	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	1.2	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1549	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 1549	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 017	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 017	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	ND	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	1250	pCi/L		100	ASTM D5072-09	05/31/2015 1253	WN
Radon-222 Precision (±)	33.3	pCi/L			ASTM D5072-09	05/31/2015 1253	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-001
ClientSample ID: MU1-SM-3
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/28/2015 4:55:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.45	s.u.			Field	05/28/2015 1655	
Conductivity	1522	µmhos/cm			Field	05/28/2015 1655	
Dissolved Oxygen	0.10	mg/L			Field	05/28/2015 1655	
Turbidity	10.7	NTU			Field	05/28/2015 1655	
Depth to Water	63.34	ft			Field	05/28/2015 1655	
Temperature	10.9	℃			Field	05/28/2015 1655	
Oxygen Reduction Potential (ORP)	-197	mV			Field	05/28/2015 1655	
Anions/Cations							
Alkalinity, Total (As CaCO3)	642	mg/L		5	SM 2320B	06/02/2015 2344	LJK
Alkalinity, Bicarbonate as HCO3	716	mg/L		5	SM 2320B	06/02/2015 2344	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/02/2015 2344	LJK
Chloride	4	mg/L		1	EPA 300.0	06/03/2015 500	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/24/2015 208	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1333	AMB
Sulfate	336	mg/L		1	EPA 300.0	06/03/2015 500	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2100	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2100	DG
Potassium	5	mg/L		1	EPA 200.7	06/01/2015 2100	DG
Sodium	448	mg/L		1	EPA 200.7	06/01/2015 2100	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1054	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 2344	LJK
Electrical Conductivity	1850	µmhos/cm		5	SM 2510B	06/02/2015 2344	LJK
Total Dissolved Solids (180)	1240	mg/L		10	SM 2540	06/01/2015 2144	TS
Data Quality							
Cation Sum	20.08	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	19.94	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	0.33	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	1190	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-001
ClientSample ID: MU1-SM-3
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/28/2015 4:55:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2100	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1756	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1756	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/01/2015 2100	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1756	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2100	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1756	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2100	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1756	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1216	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1756	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2100	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1756	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1756	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/01/2015 1756	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1756	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2100	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1433	MS
Metals - Total							
Iron	0.34	mg/L		0.05	EPA 200.7	06/02/2015 2124	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2124	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-001
ClientSample ID: MU1-SM-3
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/28/2015 4:55:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	1.0	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1334	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 1334	MB
Radium 228	1.2	pCi/L		1	Ga-Tech	06/21/2015 1212	MB
Radium 228 Precision (±)	1.2	pCi/L			Ga-Tech	06/21/2015 1212	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	06/22/2015 1658	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 1658	MB
Polonium 210	ND	pCi/L		1	OTW01	06/25/2015 1022	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/25/2015 1022	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1556	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1556	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1335	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1335	MB
Radionuclides - Total							
Radon 222	379	pCi/L		100	ASTM D5072-09	05/31/2015 1007	WN
Radon-222 Precision (±)	17.4	pCi/L			ASTM D5072-09	05/31/2015 1007	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-005
ClientSample ID: MU1-SM-3 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/28/2015 4:55:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	657	mg/L		5	SM 2320B	06/03/2015 023	LJK
Alkalinity, Bicarbonate as HCO3	738	mg/L		5	SM 2320B	06/03/2015 023	LJK
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	06/03/2015 023	LJK
Chloride	4	mg/L		1	EPA 300.0	06/03/2015 716	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/24/2015 217	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1339	AMB
Sulfate	340	mg/L		1	EPA 300.0	06/03/2015 716	AB
Calcium	5	mg/L		1	EPA 200.7	06/01/2015 2110	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 2110	DG
Potassium	5	mg/L		1	EPA 200.7	06/01/2015 2110	DG
Sodium	449	mg/L		1	EPA 200.7	06/01/2015 2110	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1100	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/03/2015 023	LJK
Electrical Conductivity	1860	µmhos/cm		5	SM 2510B	06/03/2015 023	LJK
Total Dissolved Solids (180)	1240	mg/L		10	SM 2540	06/01/2015 2149	TS
Data Quality							
Cation Sum	20.09	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Anion Sum	20.33	meq/L		0.01	SM 1030E	06/09/2015 1016	JJ
Cation-Anion Balance (± 5%)	0.57	%		0.01	SM 1030E	06/09/2015 1016	JJ
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	06/09/2015 1016	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-005
ClientSample ID: MU1-SM-3 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/28/2015 4:55:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 2110	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1834	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1834	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/01/2015 2110	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1834	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2110	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1834	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 2110	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1834	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1237	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1834	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2110	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1834	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1834	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/01/2015 1834	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1834	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2110	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1510	MS
Metals - Total							
Iron	0.35	mg/L		0.05	EPA 200.7	06/02/2015 2147	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2147	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505528001

ProjectName: Ross MU1 ISR
Lab ID: S1505528-005
ClientSample ID: MU1-SM-3 Dup
COC: 160030

WorkOrder: S1505528
CollectionDate: 5/28/2015 4:55:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/12/2015 2029	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/12/2015 2029	MB
Gross Beta	5.9	pCi/L		3	SM 7110B	06/12/2015 2029	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	06/12/2015 2029	MB
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1548	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 1548	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/21/2015 2015	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/21/2015 2015	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1340	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1340	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	ND	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 1744	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 1744	MB
Radionuclides - Total							
Radon 222	512	pCi/L		100	ASTM D5072-09	05/31/2015 1216	WN
Radon-222 Precision (±)	21.1	pCi/L			ASTM D5072-09	05/31/2015 1216	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-003
ClientSample ID: MU1 SM4
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 11:45:00 AM
DateReceived: 5/28/2015 8:13:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.37	s.u.			Field	05/27/2015 1145	
Conductivity	1481	µmhos/cm			Field	05/27/2015 1145	
Dissolved Oxygen	1.58	mg/L			Field	05/27/2015 1145	
Turbidity	2.04	NTU			Field	05/27/2015 1145	
Temperature	11.4	℃			Field	05/27/2015 1145	
Oxygen Reduction Potential (ORP)	-264	mV			Field	05/27/2015 1145	
Anions/Cations							
Alkalinity, Total (As CaCO3)	703	mg/L		5	SM 2320B	05/30/2015 006	BT
Alkalinity, Bicarbonate as HCO3	779	mg/L		5	SM 2320B	05/30/2015 006	BT
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	05/30/2015 006	BT
Chloride	4	mg/L		1	EPA 300.0	05/31/2015 949	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/03/2015 1802	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1308	AMB
Sulfate	285	mg/L		1	EPA 300.0	05/31/2015 949	AB
Calcium	5	mg/L		1	EPA 200.7	05/29/2015 1610	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1610	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1610	DG
Sodium	471	mg/L		1	EPA 200.7	05/29/2015 1610	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1405	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 006	BT
Electrical Conductivity	1820	µmhos/cm		5	SM 2510B	05/30/2015 006	BT
Total Dissolved Solids (180)	1230	mg/L		10	SM 2540	05/29/2015 1137	LJK
Data Quality							
Cation Sum	21.09	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Anion Sum	20.15	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Cation-Anion Balance (± 5%)	2.26	%		0.01	SM 1030E	06/08/2015 825	JJ
Solids, Total Dissolved (Calc)	1190	mg/L		10	SM 1030E	06/08/2015 825	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-003
ClientSample ID: MU1 SM4
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 11:45:00 AM
DateReceived: 5/28/2015 8:13:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1610	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1810	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1810	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1610	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1810	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1610	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1810	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1610	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1810	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1326	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1810	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1610	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1810	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1810	MS
Uranium	0.0013	mg/L		0.0003	EPA 200.8	05/29/2015 1810	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1810	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1610	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1259	MS
Metals - Total							
Iron	0.05	mg/L		0.05	EPA 200.7	06/02/2015 249	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 249	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-003
ClientSample ID: MU1 SM4
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/27/2015 11:45:00 AM
DateReceived: 5/28/2015 8:13:00 AM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	4.2	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1525	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1525	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1552	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1552	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 2259	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 2259	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 1329	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 1329	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1532	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1532	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1301	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1301	MB
Radionuclides - Total							
Radon 222	552	pCi/L		100	ASTM D5072-09	05/29/2015 1830	WN
Radon-222 Precision (±)	21.4	pCi/L			ASTM D5072-09	05/29/2015 1830	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-005
ClientSample ID: MUI-SM5
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 2:33:00 PM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.35	s.u.			Field	05/28/2015 1433	
Conductivity	1455	µmhos/cm			Field	05/28/2015 1433	
Dissolved Oxygen	0.97	mg/L			Field	05/28/2015 1433	
Turbidity	10.50	NTU			Field	05/28/2015 1433	
Temperature	10.5	℃			Field	05/28/2015 1433	
Oxygen Reduction Potential (ORP)	-153.2	mV			Field	05/28/2015 1433	
Anions/Cations							
Alkalinity, Total (As CaCO3)	634	mg/L		5	SM 2320B	05/29/2015 2238	BT
Alkalinity, Bicarbonate as HCO3	696	mg/L		5	SM 2320B	05/29/2015 2238	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/29/2015 2238	BT
Chloride	4	mg/L		1	EPA 300.0	05/31/2015 652	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/01/2015 2135	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1247	AMB
Sulfate	312	mg/L		1	EPA 300.0	05/31/2015 652	AB
Calcium	6	mg/L		1	EPA 200.7	05/29/2015 1539	DG
Magnesium	3	mg/L		1	EPA 200.7	05/29/2015 1539	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1539	DG
Sodium	471	mg/L		1	EPA 200.7	05/29/2015 1539	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1347	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2238	BT
Electrical Conductivity	1830	µmhos/cm		5	SM 2510B	05/29/2015 2238	BT
Total Dissolved Solids (180)	1240	mg/L		10	SM 2540	05/29/2015 1128	LJK
Data Quality							
Cation Sum	21.20	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Anion Sum	19.32	meq/L		0.01	SM 1030E	06/04/2015 1233	JJ
Cation-Anion Balance (± 5%)	4.63	%		0.01	SM 1030E	06/04/2015 1233	JJ
Solids, Total Dissolved (Calc)	1180	mg/L		10	SM 1030E	06/04/2015 1233	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-005
ClientSample ID: MUI-SM5
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 2:33:00 PM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1539	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1659	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1659	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1539	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1659	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1539	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1659	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1539	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1659	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1300	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1659	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1539	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1659	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1659	MS
Uranium	0.0021	mg/L		0.0003	EPA 200.8	05/29/2015 1659	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1659	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1539	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1819	MS
Metals - Total							
Iron	0.38	mg/L		0.05	EPA 200.7	06/02/2015 209	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 209	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505489001

ProjectName: Ross MU1 ISR
Lab ID: S1505489-005
ClientSample ID: MUI-SM5
COC: 160065

WorkOrder: S1505489
CollectionDate: 5/28/2015 2:33:00 PM
DateReceived: 5/28/2015 6:46:00 PM
FieldSampler: DP
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	72.7	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	6.6	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	28.4	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	3.8	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 1807	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1807	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1450	MB
Radium 226	24.8	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 1054	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 1054	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	2.5	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1543	MB
Radium 226 (Suspended) Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 1543	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	2240	pCi/L		100	ASTM D5072-09	05/29/2015 1450	WN
Radon-222 Precision (±)	44.8	pCi/L			ASTM D5072-09	05/29/2015 1450	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-003
ClientSample ID: MU1 SM6
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 11:12:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.57	s.u.			Field	05/29/2015 1112	
Conductivity	1573	µmhos/cm			Field	05/29/2015 1112	
Dissolved Oxygen	3.55	mg/L			Field	05/29/2015 1112	
Turbidity	3.33	NTU			Field	05/29/2015 1112	
Temperature	10.7	℃			Field	05/29/2015 1112	
Oxygen Reduction Potential (ORP)	-163	mV			Field	05/29/2015 1112	
Anions/Cations							
Alkalinity, Total (As CaCO3)	649	mg/L		5	SM 2320B	06/02/2015 421	LJK
Alkalinity, Bicarbonate as HCO3	701	mg/L		5	SM 2320B	06/02/2015 421	LJK
Alkalinity, Carbonate as CO3	45	mg/L		5	SM 2320B	06/02/2015 421	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 1052	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/04/2015 1318	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1244	AMB
Sulfate	356	mg/L		1	EPA 300.0	06/02/2015 1052	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 1933	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 1933	DG
Potassium	8	mg/L		1	EPA 200.7	06/01/2015 1933	DG
Sodium	467	mg/L		1	EPA 200.7	06/01/2015 1933	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/01/2015 1447	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/02/2015 421	LJK
Electrical Conductivity	1970	µmhos/cm		5	SM 2510B	06/02/2015 421	LJK
Total Dissolved Solids (180)	1300	mg/L		10	SM 2540	06/01/2015 2123	TS
Data Quality							
Cation Sum	20.87	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Anion Sum	20.55	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Cation-Anion Balance (± 5%)	0.77	%		0.01	SM 1030E	06/15/2015 1209	JJ
Solids, Total Dissolved (Calc)	1230	mg/L		10	SM 1030E	06/15/2015 1209	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-003
ClientSample ID: MU1 SM6
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 11:12:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1933	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/01/2015 1452	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1452	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 1933	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1452	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1933	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1452	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1933	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1452	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1113	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1452	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1933	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1452	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1452	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	06/01/2015 1452	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1452	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1933	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1401	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 1957	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1957	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-003
ClientSample ID: MU1 SM6
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 11:12:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	5.4	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	1.2	pCi/L		1	Ga-Tech	06/19/2015 1829	MB
Radium 228 Precision (±)	1.0	pCi/L			Ga-Tech	06/19/2015 1829	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	286	pCi/L		100	ASTM D5072-09	05/31/2015 111	WN
Radon-222 Precision (±)	13.5	pCi/L			ASTM D5072-09	05/31/2015 111	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-004
ClientSample ID: MU1 SM7
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 12:16:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.38	s.u.			Field	05/29/2015 1216	
Conductivity	1615	µmhos/cm			Field	05/29/2015 1216	
Dissolved Oxygen	4.10	mg/L			Field	05/29/2015 1216	
Turbidity	4.03	NTU			Field	05/29/2015 1216	
Temperature	11.0	℃			Field	05/29/2015 1216	
Oxygen Reduction Potential (ORP)	+92	mV			Field	05/29/2015 1216	
Anions/Cations							
Alkalinity, Total (As CaCO3)	655	mg/L		5	SM 2320B	06/02/2015 433	LJK
Alkalinity, Bicarbonate as HCO3	725	mg/L		5	SM 2320B	06/02/2015 433	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/02/2015 433	LJK
Chloride	4	mg/L		1	EPA 300.0	06/02/2015 1105	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/04/2015 1322	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1246	AMB
Sulfate	365	mg/L		1	EPA 300.0	06/02/2015 1105	AB
Calcium	6	mg/L		1	EPA 200.7	06/01/2015 1935	DG
Magnesium	3	mg/L		1	EPA 200.7	06/01/2015 1935	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 1935	DG
Sodium	460	mg/L		1	EPA 200.7	06/01/2015 1935	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/01/2015 1448	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 433	LJK
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	06/02/2015 433	LJK
Total Dissolved Solids (180)	1320	mg/L		10	SM 2540	06/01/2015 2124	TS
Data Quality							
Cation Sum	20.69	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Anion Sum	20.85	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Cation-Anion Balance (± 5%)	0.37	%		0.01	SM 1030E	06/15/2015 1209	JJ
Solids, Total Dissolved (Calc)	1240	mg/L		10	SM 1030E	06/15/2015 1209	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-004
ClientSample ID: MU1 SM7
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 12:16:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1935	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/01/2015 1458	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1458	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/01/2015 1935	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1458	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1935	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1458	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1935	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1458	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1115	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1458	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1935	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1458	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1458	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/01/2015 1458	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1458	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1935	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1405	MS
Metals - Total							
Iron	0.10	mg/L		0.05	EPA 200.7	06/02/2015 1959	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1959	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-004
ClientSample ID: MU1 SM7
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 12:16:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.4	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	2.4	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	5.6	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 2030	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 2030	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	288	pCi/L		100	ASTM D5072-09	05/31/2015 147	WN
Radon-222 Precision (±)	13.5	pCi/L			ASTM D5072-09	05/31/2015 147	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-001
ClientSample ID: MU1 SM8
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 12:59:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	05/29/2015 1259	
Conductivity	1325	µmhos/cm			Field	05/29/2015 1259	
Dissolved Oxygen	4.50	mg/L			Field	05/29/2015 1259	
Turbidity	12.06	NTU			Field	05/29/2015 1259	
Temperature	11.2	℃			Field	05/29/2015 1259	
Oxygen Reduction Potential (ORP)	+70	mV			Field	05/29/2015 1259	
Anions/Cations							
Alkalinity, Total (As CaCO3)	632	mg/L		5	SM 2320B	06/02/2015 353	LJK
Alkalinity, Bicarbonate as HCO3	694	mg/L		5	SM 2320B	06/02/2015 353	LJK
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	06/02/2015 353	LJK
Chloride	3	mg/L		1	EPA 300.0	06/02/2015 1025	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/04/2015 1309	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1232	AMB
Sulfate	230	mg/L		1	EPA 300.0	06/02/2015 1025	AB
Calcium	4	mg/L		1	EPA 200.7	06/01/2015 1917	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 1917	DG
Potassium	5	mg/L		1	EPA 200.7	06/01/2015 1917	DG
Sodium	393	mg/L		1	EPA 200.7	06/01/2015 1917	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/01/2015 1444	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/02/2015 353	LJK
Electrical Conductivity	1640	µmhos/cm		5	SM 2510B	06/02/2015 353	LJK
Total Dissolved Solids (180)	1040	mg/L		10	SM 2540	06/01/2015 2121	TS
Data Quality							
Cation Sum	17.57	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Anion Sum	17.55	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Cation-Anion Balance (± 5%)	0.04	%		0.01	SM 1030E	06/15/2015 1209	JJ
Solids, Total Dissolved (Calc)	1020	mg/L		10	SM 1030E	06/15/2015 1209	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-001
ClientSample ID: MU1 SM8
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 12:59:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1917	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1441	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1441	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 1917	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1441	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1917	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1441	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1917	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1441	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1110	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1441	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1917	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1441	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1441	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/01/2015 1441	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1441	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1917	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1352	MS
Metals - Total							
Iron	0.41	mg/L		0.05	EPA 200.7	06/02/2015 1952	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1952	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-001
ClientSample ID: MU1 SM8
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 12:59:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	3.2	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 1427	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 1427	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	297	pCi/L		100	ASTM D5072-09	05/31/2015 000	WN
Radon-222 Precision (±)	13.7	pCi/L			ASTM D5072-09	05/31/2015 000	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-002
ClientSample ID: MU1 SM9
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 1:30:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.33	s.u.			Field	05/29/2015 1330	
Conductivity	1791	µmhos/cm			Field	05/29/2015 1330	
Dissolved Oxygen	4.11	mg/L			Field	05/29/2015 1330	
Turbidity	6.47	NTU			Field	05/29/2015 1330	
Temperature	12.3	℃			Field	05/29/2015 1330	
Oxygen Reduction Potential (ORP)	-120	mV			Field	05/29/2015 1330	
Anions/Cations							
Alkalinity, Total (As CaCO3)	745	mg/L		5	SM 2320B	06/02/2015 407	LJK
Alkalinity, Bicarbonate as HCO3	829	mg/L		5	SM 2320B	06/02/2015 407	LJK
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	06/02/2015 407	LJK
Chloride	4	mg/L		1	EPA 300.0	06/02/2015 1038	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/04/2015 1313	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1234	AMB
Sulfate	409	mg/L		1	EPA 300.0	06/02/2015 1038	AB
Calcium	6	mg/L		1	EPA 200.7	06/01/2015 1931	DG
Magnesium	3	mg/L		1	EPA 200.7	06/01/2015 1931	DG
Potassium	6	mg/L		1	EPA 200.7	06/01/2015 1931	DG
Sodium	503	mg/L		1	EPA 200.7	06/01/2015 1931	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/01/2015 1446	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/02/2015 407	LJK
Electrical Conductivity	2130	µmhos/cm		5	SM 2510B	06/02/2015 407	LJK
Total Dissolved Solids (180)	1420	mg/L		10	SM 2540	06/01/2015 2122	TS
Data Quality							
Cation Sum	22.61	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Anion Sum	23.58	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Cation-Anion Balance (± 5%)	2.09	%		0.01	SM 1030E	06/15/2015 1209	JJ
Solids, Total Dissolved (Calc)	1380	mg/L		10	SM 1030E	06/15/2015 1209	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-002
ClientSample ID: MU1 SM9
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 1:30:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1931	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1447	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1447	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 1931	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1447	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1931	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1447	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1931	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1447	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1112	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1447	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1931	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1447	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1447	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/01/2015 1447	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1447	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/01/2015 1931	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1357	MS
Metals - Total							
Iron	0.20	mg/L		0.05	EPA 200.7	06/02/2015 1955	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1955	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-002
ClientSample ID: MU1 SM9
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 1:30:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	3.7	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	5.7	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 1628	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 1628	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	295	pCi/L		100	ASTM D5072-09	05/31/2015 036	WN
Radon-222 Precision (±)	13.6	pCi/L			ASTM D5072-09	05/31/2015 036	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-005
ClientSample ID: MU1-SM10
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.10	s.u.			Field	05/28/2015 1426	
Conductivity	1510	µmhos/cm			Field	05/28/2015 1426	
Dissolved Oxygen	0.37	mg/L			Field	05/28/2015 1426	
Turbidity	0.83	NTU			Field	05/28/2015 1426	
Depth to Water	46.04	ft			Field	05/28/2015 1426	
Temperature	11.0	℃			Field	05/28/2015 1426	
Oxygen Reduction Potential (ORP)	-147	mV			Field	05/28/2015 1426	
Anions/Cations							
Alkalinity, Total (As CaCO3)	567	mg/L		5	SM 2320B	05/29/2015 2048	BT
Alkalinity, Bicarbonate as HCO3	627	mg/L		5	SM 2320B	05/29/2015 2048	BT
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	05/29/2015 2048	BT
Chloride	5	mg/L		1	EPA 300.0	05/31/2015 301	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/01/2015 2042	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1222	AMB
Sulfate	244	mg/L		1	EPA 300.0	05/31/2015 301	AB
Calcium	4	mg/L		1	EPA 200.7	05/29/2015 1447	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1447	DG
Potassium	5	mg/L		1	EPA 200.7	05/29/2015 1447	DG
Sodium	401	mg/L		1	EPA 200.7	05/29/2015 1447	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	06/02/2015 1220	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2048	BT
Electrical Conductivity	1570	µmhos/cm		5	SM 2510B	05/29/2015 2048	BT
Total Dissolved Solids (180)	1050	mg/L		10	SM 2540	05/29/2015 1116	LJK
Data Quality							
Cation Sum	17.89	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Anion Sum	16.58	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Cation-Anion Balance (± 5%)	3.79	%		0.01	SM 1030E	06/04/2015 1225	JJ
Solids, Total Dissolved (Calc)	1000	mg/L		10	SM 1030E	06/04/2015 1225	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-005
ClientSample ID: MU1-SM10
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1447	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1510	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1510	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1447	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1510	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1447	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1510	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1447	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1510	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1223	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1510	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1447	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1510	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1510	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/29/2015 1510	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1510	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1447	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1652	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/02/2015 121	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 121	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-005
ClientSample ID: MU1-SM10
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/28/2015 2:26:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.6	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	1.8	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	5.9	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	2.7	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	1.2	pCi/L		1	Ga-Tech	06/17/2015 357	MB
Radium 228 Precision (±)	1.1	pCi/L			Ga-Tech	06/17/2015 357	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	0.2	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	515	pCi/L		100	ASTM D5072-09	05/29/2015 1236	WN
Radon-222 Precision (±)	18.5	pCi/L			ASTM D5072-09	05/29/2015 1236	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-002
ClientSample ID: MU1 SM11
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 12:57:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.54	s.u.			Field	05/29/2015 1257	
Conductivity	1179	µmhos/cm			Field	05/29/2015 1257	
Dissolved Oxygen	2.21	mg/L			Field	05/29/2015 1257	
Turbidity	5.02	NTU			Field	05/29/2015 1257	
Temperature	10.4	℃			Field	05/29/2015 1257	
Oxygen Reduction Potential (ORP)	+59	mV			Field	05/29/2015 1257	
Anions/Cations							
Alkalinity, Total (As CaCO3)	622	mg/L		5	SM 2320B	06/02/2015 239	LJK
Alkalinity, Bicarbonate as HCO3	685	mg/L		5	SM 2320B	06/02/2015 239	LJK
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	06/02/2015 239	LJK
Chloride	5	mg/L		1	EPA 300.0	06/02/2015 808	AB
Fluoride	2.0	mg/L		0.1	SM 4500FC	06/04/2015 1251	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1226	AMB
Sulfate	198	mg/L		1	EPA 300.0	06/02/2015 808	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 1906	DG
Magnesium	2	mg/L		1	EPA 200.7	06/01/2015 1906	DG
Potassium	4	mg/L		1	EPA 200.7	06/01/2015 1906	DG
Sodium	362	mg/L		1	EPA 200.7	06/01/2015 1906	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	06/01/2015 1439	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/02/2015 239	LJK
Electrical Conductivity	1500	µmhos/cm		5	SM 2510B	06/02/2015 239	LJK
Total Dissolved Solids (180)	950	mg/L		10	SM 2540	06/01/2015 2117	TS
Data Quality							
Cation Sum	16.13	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Anion Sum	16.80	meq/L		0.01	SM 1030E	06/25/2015 1021	WN
Cation-Anion Balance (± 5%)	2.05	%		0.01	SM 1030E	06/25/2015 1021	WN
Solids, Total Dissolved (Calc)	950	mg/L		10	SM 1030E	06/25/2015 1021	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-002
ClientSample ID: MU1 SM11
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 12:57:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1906	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1408	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1408	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/01/2015 1906	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1408	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1906	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1408	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/01/2015 1906	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1408	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1052	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1408	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1906	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1408	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1408	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	06/01/2015 1408	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1408	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1906	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1328	MS
Metals - Total							
Iron	0.21	mg/L		0.05	EPA 200.7	06/02/2015 1936	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 1936	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505524001

ProjectName: Ross MU1 ISR
Lab ID: S1505524-002
ClientSample ID: MU1 SM11
COC: 152888 158836 16003

WorkOrder: S1505524
CollectionDate: 5/29/2015 12:57:00 PM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 1543	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/25/2015 1543	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 1543	MB
Lead 210	1.4	pCi/L		1	OTW01	06/16/2015 1728	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/16/2015 1728	MB
Polonium 210	ND	pCi/L		1	OTW01	06/18/2015 1655	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1655	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 916	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 916	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 624	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 624	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1225	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1225	MB
Radionuclides - Total							
Radon 222	421	pCi/L		100	ASTM D5072-09	05/30/2015 2149	WN
Radon-222 Precision (±)	16.9	pCi/L			ASTM D5072-09	05/30/2015 2149	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-004
ClientSample ID: MU1-SM-12
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 2:03:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.55	s.u.			Field	05/28/2015 1403	
Conductivity	1441	µmhos/cm			Field	05/28/2015 1403	
Dissolved Oxygen	0.09	mg/L			Field	05/28/2015 1403	
Turbidity	9.47	NTU			Field	05/28/2015 1403	
Depth to Water	40.03	ft			Field	05/28/2015 1403	
Temperature	10.8	℃			Field	05/28/2015 1403	
Oxygen Reduction Potential (ORP)	-214	mV			Field	05/28/2015 1403	
Anions/Cations							
Alkalinity, Total (As CaCO3)	640	mg/L		5	SM 2320B	05/29/2015 2134	BT
Alkalinity, Bicarbonate as HCO3	704	mg/L		5	SM 2320B	05/29/2015 2134	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/29/2015 2134	BT
Chloride	4	mg/L		1	EPA 300.0	05/31/2015 517	AB
Fluoride	1.4	mg/L		0.1	SM 4500FC	06/01/2015 2100	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1237	AMB
Sulfate	280	mg/L		1	EPA 300.0	05/31/2015 517	AB
Calcium	5	mg/L		1	EPA 200.7	05/29/2015 1510	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1510	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1510	DG
Sodium	458	mg/L		1	EPA 200.7	05/29/2015 1510	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1225	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2134	BT
Electrical Conductivity	1770	µmhos/cm		5	SM 2510B	05/29/2015 2134	BT
Total Dissolved Solids (180)	1210	mg/L		10	SM 2540	05/29/2015 1121	LJK
Data Quality							
Cation Sum	20.52	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Anion Sum	18.80	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Cation-Anion Balance (± 5%)	4.35	%		0.01	SM 1030E	06/04/2015 1229	JJ
Solids, Total Dissolved (Calc)	1140	mg/L		10	SM 1030E	06/04/2015 1229	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-004
ClientSample ID: MU1-SM-12
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 2:03:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1510	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1531	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1531	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/29/2015 1510	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1531	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1510	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1531	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1510	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1531	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1240	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1531	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1510	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1531	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1531	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 1531	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1531	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1510	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1714	MS
Metals - Total							
Iron	0.13	mg/L		0.05	EPA 200.7	06/02/2015 138	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 138	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-004
ClientSample ID: MU1-SM-12
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015 2:03:00 PM
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.9	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	2.1	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	1.5	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/14/2015 715	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/14/2015 715	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1254	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1254	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1512	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1512	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	2740	pCi/L		100	ASTM D5072-09	05/29/2015 1340	WN
Radon-222 Precision (±)	54.8	pCi/L			ASTM D5072-09	05/29/2015 1340	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-006
ClientSample ID: MU1-SM-12 Dup
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	637	mg/L		5	SM 2320B	05/29/2015 2152	BT
Alkalinity, Bicarbonate as HCO3	704	mg/L		5	SM 2320B	05/29/2015 2152	BT
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	05/29/2015 2152	BT
Chloride	5	mg/L		1	EPA 300.0	05/31/2015 544	AB
Fluoride	1.4	mg/L		0.1	SM 4500FC	06/01/2015 2109	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1240	AMB
Sulfate	290	mg/L		1	EPA 300.0	05/31/2015 544	AB
Calcium	5	mg/L		1	EPA 200.7	05/29/2015 1514	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1514	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1514	DG
Sodium	457	mg/L		1	EPA 200.7	05/29/2015 1514	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1228	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2152	BT
Electrical Conductivity	1780	µmhos/cm		5	SM 2510B	05/29/2015 2152	BT
Total Dissolved Solids (180)	1220	mg/L		10	SM 2540	05/29/2015 1123	LJK
Data Quality							
Cation Sum	20.46	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Anion Sum	18.99	meq/L		0.01	SM 1030E	06/04/2015 1229	JJ
Cation-Anion Balance (± 5%)	3.72	%		0.01	SM 1030E	06/04/2015 1229	JJ
Solids, Total Dissolved (Calc)	1150	mg/L		10	SM 1030E	06/04/2015 1229	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-006
ClientSample ID: MU1-SM-12 Dup
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1514	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1605	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1605	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/29/2015 1514	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1605	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1514	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1605	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1514	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1605	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1250	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1605	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1514	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1605	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1605	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/29/2015 1605	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1605	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1514	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1752	MS
Metals - Total							
Iron	0.12	mg/L		0.05	EPA 200.7	06/02/2015 143	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 143	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505488001

ProjectName: Ross MU1 ISR
Lab ID: S1505488-006
ClientSample ID: MU1-SM-12 Dup
COC: 160026

WorkOrder: S1505488
CollectionDate: 5/28/2015
DateReceived: 5/28/2015 6:18:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.2	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	4.9	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	1.4	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1113	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 1113	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 050	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 050	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 2058	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 2058	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1254	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1254	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1512	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1512	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1542	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1542	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/22/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/22/2015 819	MB
Radionuclides - Total							
Radon 222	4670	pCi/L		100	ASTM D5072-09	05/29/2015 1357	WN
Radon-222 Precision (±)	93.5	pCi/L			ASTM D5072-09	05/29/2015 1357	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-002
ClientSample ID: MU1-SM13
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/27/2015 5:20:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.11	s.u.			Field	05/27/2015 1720	
Conductivity	1194	µmhos/cm			Field	05/27/2015 1720	
Dissolved Oxygen	0.07	mg/L			Field	05/27/2015 1720	
Turbidity	8.15	NTU			Field	05/27/2015 1720	
Depth to Water	42.02	ft			Field	05/27/2015 1720	
Temperature	10.6	℃			Field	05/27/2015 1720	
Oxygen Reduction Potential (ORP)	-290.8	mV			Field	05/27/2015 1720	
Anions/Cations							
Alkalinity, Total (As CaCO3)	556	mg/L		5	SM 2320B	05/29/2015 2019	BT
Alkalinity, Bicarbonate as HCO3	511	mg/L		5	SM 2320B	05/29/2015 2019	BT
Alkalinity, Carbonate as CO3	82	mg/L		5	SM 2320B	05/29/2015 2019	BT
Chloride	3	mg/L		1	EPA 300.0	05/31/2015 221	AB
Fluoride	2.0	mg/L		0.1	SM 4500FC	06/01/2015 2015	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1219	AMB
Sulfate	157	mg/L		1	EPA 300.0	05/31/2015 221	AB
Calcium	3	mg/L		1	EPA 200.7	05/29/2015 1441	DG
Magnesium	1	mg/L		1	EPA 200.7	05/29/2015 1441	DG
Potassium	7	mg/L		1	EPA 200.7	05/29/2015 1441	DG
Sodium	352	mg/L		1	EPA 200.7	05/29/2015 1441	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	06/02/2015 1217	AMB
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	05/29/2015 2019	BT
Electrical Conductivity	1380	µmhos/cm		5	SM 2510B	05/29/2015 2019	BT
Total Dissolved Solids (180)	900	mg/L		10	SM 2540	05/29/2015 1113	LJK
Data Quality							
Cation Sum	15.76	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Anion Sum	14.59	meq/L		0.01	SM 1030E	06/04/2015 1225	JJ
Cation-Anion Balance (± 5%)	3.87	%		0.01	SM 1030E	06/04/2015 1225	JJ
Solids, Total Dissolved (Calc)	860	mg/L		10	SM 1030E	06/04/2015 1225	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-002
ClientSample ID: MU1-SM13
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/27/2015 5:20:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1441	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1453	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1453	MS
Boron	0.5	mg/L		0.1	EPA 200.7	05/29/2015 1441	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1453	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1441	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1453	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1441	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1453	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1215	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1453	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1441	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1453	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1453	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	05/29/2015 1453	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1453	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1441	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1641	MS
Metals - Total							
Iron	0.20	mg/L		0.05	EPA 200.7	06/02/2015 112	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 112	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/25/2015
Report ID S1505487001

ProjectName: Ross MU1 ISR
Lab ID: S1505487-002
ClientSample ID: MU1-SM13
COC: 154595

WorkOrder: S1505487
CollectionDate: 5/27/2015 5:20:00 PM
DateReceived: 5/28/2015 6:04:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.8	pCi/L		2	SM 7110B	06/08/2015 2007	MB
Gross Alpha Precision (±)	2.0	pCi/L			SM 7110B	06/08/2015 2007	MB
Gross Beta	8.1	pCi/L		3	SM 7110B	06/08/2015 2007	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	06/08/2015 2007	MB
Lead 210	1.0	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	2.0	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/16/2015 2356	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/16/2015 2356	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1725	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1725	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/18/2015 1052	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/18/2015 1052	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1405	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1405	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	801	pCi/L		100	ASTM D5072-09	05/29/2015 1119	WN
Radon-222 Precision (±)	25.4	pCi/L			ASTM D5072-09	05/29/2015 1119	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-008
ClientSample ID: SM14
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:30:00 PM
DateReceived: 5/28/2015 2:55:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.40	s.u.			Field	05/28/2015 1330	
Conductivity	1521	µmhos/cm			Field	05/28/2015 1330	
Dissolved Oxygen	2.65	mg/L			Field	05/28/2015 1330	
Turbidity	4.05	NTU			Field	05/28/2015 1330	
Temperature	11.3	℃			Field	05/28/2015 1330	
Flow Rate (gpm)	20.44	gpm			Field	05/28/2015 1330	
Oxygen Reduction Potential (ORP)	-192	mV			Field	05/28/2015 1330	
Anions/Cations							
Alkalinity, Total (As CaCO3)	662	mg/L		5	SM 2320B	05/30/2015 217	BT
Alkalinity, Bicarbonate as HCO3	725	mg/L		5	SM 2320B	05/30/2015 217	BT
Alkalinity, Carbonate as CO3	40	mg/L		5	SM 2320B	05/30/2015 217	BT
Chloride	4	mg/L		1	EPA 300.0	05/29/2015 1638	AB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/03/2015 1906	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1337	AMB
Sulfate	318	mg/L		1	EPA 300.0	05/29/2015 1638	AB
Calcium	5	mg/L		1	EPA 200.7	05/29/2015 1706	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1706	DG
Potassium	5	mg/L		1	EPA 200.7	05/29/2015 1706	DG
Sodium	485	mg/L		1	EPA 200.7	05/29/2015 1706	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/02/2015 1431	AMB
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	05/30/2015 217	BT
Electrical Conductivity	1880	µmhos/cm		5	SM 2510B	05/30/2015 217	BT
Total Dissolved Solids (180)	1280	mg/L		10	SM 2540	05/29/2015 1151	LJK
Data Quality							
Cation Sum	21.72	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	19.98	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	4.15	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1220	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-008
ClientSample ID: SM14
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:30:00 PM
DateReceived: 5/28/2015 2:55:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1706	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 2009	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 2009	MS
Boron	0.4	mg/L		0.1	EPA 200.7	05/29/2015 1706	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 2009	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1706	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 2009	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1706	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 2009	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1417	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 2009	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1706	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 2009	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 2009	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/29/2015 2009	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 2009	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1706	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1437	MS
Metals - Total							
Iron	0.11	mg/L		0.05	EPA 200.7	06/02/2015 341	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 341	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-008
ClientSample ID: SM14
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 1:30:00 PM
DateReceived: 5/28/2015 2:55:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 1543	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/25/2015 1543	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 1543	MB
Lead 210	ND	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	0.18	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 915	MB
Radium 226 Precision (±)	0.18	pCi/L			SM 7500 Ra-B	06/16/2015 915	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 2004	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 2004	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 851	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 851	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 819	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 819	MB
Radionuclides - Total							
Radon 222	332	pCi/L		100	ASTM D5072-09	05/29/2015 2350	WN
Radon-222 Precision (±)	14.8	pCi/L			ASTM D5072-09	05/29/2015 2350	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-001
ClientSample ID: DM1
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 7:15:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.89	s.u.			Field	05/28/2015 715	
Conductivity	2337	µmhos/cm			Field	05/28/2015 715	
Dissolved Oxygen	2.59	mg/L			Field	05/28/2015 715	
Turbidity	20.2	NTU			Field	05/28/2015 715	
Temperature	11.8	℃			Field	05/28/2015 715	
Oxygen Reduction Potential (ORP)	+70	mV			Field	05/28/2015 715	
Anions/Cations							
Alkalinity, Total (As CaCO3)	390	mg/L		5	SM 2320B	05/30/2015 111	BT
Alkalinity, Bicarbonate as HCO3	399	mg/L		5	SM 2320B	05/30/2015 111	BT
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	05/30/2015 111	BT
Chloride	586	mg/L		1	EPA 300.0	06/11/2015 1428	LAB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/03/2015 1831	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1326	AMB
Sulfate	203	mg/L		1	EPA 300.0	06/03/2015 433	AB
Calcium	8	mg/L		1	EPA 200.7	06/02/2015 1600	DG
Magnesium	2	mg/L		1	EPA 200.7	06/08/2015 1528	DG
Potassium	8	mg/L		1	EPA 200.7	05/29/2015 1637	DG
Sodium	645	mg/L		1	EPA 200.7	06/08/2015 1528	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1413	AMB
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	05/30/2015 111	BT
Electrical Conductivity	2840	µmhos/cm		5	SM 2510B	05/30/2015 111	BT
Total Dissolved Solids (180)	1710	mg/L		10	SM 2540	05/29/2015 1144	LJK
Data Quality							
Cation Sum	28.80	meq/L		0.01	SM 1030E	06/22/2015 1603	WN
Anion Sum	28.60	meq/L		0.01	SM 1030E	06/22/2015 1603	WN
Cation-Anion Balance (± 5%)	0.35	%		0.01	SM 1030E	06/22/2015 1603	WN
Solids, Total Dissolved (Calc)	1680	mg/L		10	SM 1030E	06/22/2015 1603	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-001
ClientSample ID: DM1
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 7:15:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1637	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	05/29/2015 1904	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1904	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/29/2015 1637	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1904	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1637	DG
Copper	0.02	mg/L		0.01	EPA 200.8	05/29/2015 1904	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1637	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1904	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1353	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1904	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1637	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1904	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1904	MS
Uranium	0.0009	mg/L		0.0003	EPA 200.8	05/29/2015 1904	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1904	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1637	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1332	MS
Metals - Total							
Iron	0.85	mg/L		0.05	EPA 200.7	06/02/2015 310	DG
Manganese	0.02	mg/L		0.02	EPA 200.7	06/02/2015 310	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-001
ClientSample ID: DM1
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 7:15:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	6.1	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	5.9	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	1.3	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 905	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 905	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 1329	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 1329	MB
Radionuclides - Suspended							
Lead 210	1.0	pCi/L		1	OTW01	06/19/2015 1532	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/19/2015 1532	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1716	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1716	MB
Radionuclides - Total							
Radon 222	322	pCi/L		100	ASTM D5072-09	05/29/2015 1940	WN
Radon-222 Precision (±)	14.5	pCi/L			ASTM D5072-09	05/29/2015 1940	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-002
ClientSample ID: DM2
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 9:22:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.77	s.u.			Field	05/28/2015 922	
Conductivity	2430	µmhos/cm			Field	05/28/2015 922	
Dissolved Oxygen	4.76	mg/L			Field	05/28/2015 922	
Turbidity	36.8	NTU			Field	05/28/2015 922	
Temperature	12.5	℃			Field	05/28/2015 922	
Oxygen Reduction Potential (ORP)	+69	mV			Field	05/28/2015 922	
Anions/Cations							
Alkalinity, Total (As CaCO3)	455	mg/L		5	SM 2320B	05/30/2015 120	BT
Alkalinity, Bicarbonate as HCO3	478	mg/L		5	SM 2320B	05/30/2015 120	BT
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	05/30/2015 120	BT
Chloride	503	mg/L		1	EPA 300.0	05/29/2015 1515	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/03/2015 1836	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1328	AMB
Sulfate	284	mg/L		1	EPA 300.0	05/29/2015 1515	AB
Calcium	8	mg/L		1	EPA 200.7	05/29/2015 1639	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1639	DG
Potassium	8	mg/L		1	EPA 200.7	05/29/2015 1639	DG
Sodium	685	mg/L		1	EPA 200.7	05/29/2015 1639	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/02/2015 1415	AMB
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	05/30/2015 120	BT
Electrical Conductivity	2890	µmhos/cm		5	SM 2510B	05/30/2015 120	BT
Total Dissolved Solids (180)	1820	mg/L		10	SM 2540	05/29/2015 1145	LJK
Data Quality							
Cation Sum	30.62	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Anion Sum	29.27	meq/L		0.01	SM 1030E	06/09/2015 1010	JJ
Cation-Anion Balance (± 5%)	2.25	%		0.01	SM 1030E	06/09/2015 1010	JJ
Solids, Total Dissolved (Calc)	1760	mg/L		10	SM 1030E	06/09/2015 1010	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-002
ClientSample ID: DM2
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 9:22:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	05/29/2015 1639	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1925	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1925	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/29/2015 1639	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1925	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1639	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1925	MS
Iron	0.08	mg/L		0.05	EPA 200.7	05/29/2015 1639	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1925	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1355	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1925	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1639	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1925	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1925	MS
Uranium	0.0007	mg/L		0.0003	EPA 200.8	05/29/2015 1925	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1925	MS
Zinc	0.04	mg/L		0.01	EPA 200.7	05/29/2015 1639	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1404	MS
Metals - Total							
Iron	1.40	mg/L		0.05	EPA 200.7	06/02/2015 313	DG
Manganese	0.04	mg/L		0.02	EPA 200.7	06/02/2015 313	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505492001

ProjectName: Ross MU1 ISR
Lab ID: S1505492-002
ClientSample ID: DM2
COC: 155340 160034 16003

WorkOrder: S1505492
CollectionDate: 5/28/2015 9:22:00 AM
DateReceived: 5/28/2015 3:40:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/10/2015 2217	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/10/2015 2217	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/10/2015 2217	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/10/2015 2217	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1302	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1302	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 1106	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 1106	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 1329	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 1329	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1532	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1532	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 1442	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 1442	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1716	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1716	MB
Radionuclides - Total							
Radon 222	222	pCi/L		100	ASTM D5072-09	05/29/2015 2016	WN
Radon-222 Precision (±)	11.4	pCi/L			ASTM D5072-09	05/29/2015 2016	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-006
ClientSample ID: MU1 DM3A
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 10:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.67	s.u.			Field	05/29/2015 1023	
Conductivity	2712	µmhos/cm			Field	05/29/2015 1023	
Dissolved Oxygen	6.02	mg/L			Field	05/29/2015 1023	
Turbidity	121	NTU			Field	05/29/2015 1023	
Temperature	9.2	℃			Field	05/29/2015 1023	
Oxygen Reduction Potential (ORP)	+3	mV			Field	05/29/2015 1023	
Anions/Cations							
Alkalinity, Total (As CaCO3)	295	mg/L		5	SM 2320B	06/02/2015 503	LJK
Alkalinity, Bicarbonate as HCO3	197	mg/L		5	SM 2320B	06/02/2015 503	LJK
Alkalinity, Carbonate as CO3	80	mg/L		5	SM 2320B	06/02/2015 503	LJK
Chloride	408	mg/L		1	EPA 300.0	06/02/2015 1133	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/04/2015 1335	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1249	AMB
Sulfate	802	mg/L		1	EPA 300.0	06/02/2015 1133	AB
Calcium	4	mg/L		1	EPA 200.7	06/01/2015 1940	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/01/2015 1940	DG
Potassium	24	mg/L		1	EPA 200.7	06/01/2015 1940	DG
Sodium	753	mg/L		1	EPA 200.7	06/01/2015 1940	DG
Nitrogen, Ammonia (As N)	1.0	mg/L		0.1	EPA 350.1	06/01/2015 1459	AMB
General Parameters							
pH	9.6	s.u.		0.1	SM 4500 H B	06/02/2015 503	LJK
Electrical Conductivity	3510	µmhos/cm		5	SM 2510B	06/02/2015 503	LJK
Total Dissolved Solids (180)	2240	mg/L		10	SM 2540	06/01/2015 2127	TS
Data Quality							
Cation Sum	33.65	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Anion Sum	34.13	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Cation-Anion Balance (± 5%)	0.71	%		0.01	SM 1030E	06/15/2015 1209	JJ
Solids, Total Dissolved (Calc)	2170	mg/L		10	SM 1030E	06/15/2015 1209	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-006
ClientSample ID: MU1 DM3A
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 10:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	06/01/2015 1940	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	06/01/2015 1509	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1509	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/01/2015 1940	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1509	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1940	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1509	MS
Iron	0.08	mg/L		0.05	EPA 200.7	06/01/2015 1940	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1509	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1119	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1509	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1940	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1509	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1509	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/01/2015 1509	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1509	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1940	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1413	MS
Metals - Total							
Iron	5.48	mg/L		0.05	EPA 200.7	06/02/2015 2006	DG
Manganese	0.10	mg/L		0.02	EPA 200.7	06/02/2015 2006	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-006
ClientSample ID: MU1 DM3A
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 10:23:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.3	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	3.0	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	18.2	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 031	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 031	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/31/2015 258	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/31/2015 258	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-004
ClientSample ID: DM-4
COC: 160033

WorkOrder: S1505490
CollectionDate: 5/28/2015 9:37:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.55	s.u.			Field	05/28/2015 937	
Conductivity	2310	µmhos/cm			Field	05/28/2015 937	
Dissolved Oxygen	3.86	mg/L			Field	05/28/2015 937	
Turbidity	52.7	NTU			Field	05/28/2015 937	
Temperature	12.2	℃			Field	05/28/2015 937	
Oxygen Reduction Potential (ORP)	+90	mV			Field	05/28/2015 937	
Anions/Cations							
Alkalinity, Total (As CaCO3)	450	mg/L		5	SM 2320B	05/29/2015 2326	BT
Alkalinity, Bicarbonate as HCO3	500	mg/L		5	SM 2320B	05/29/2015 2326	BT
Alkalinity, Carbonate as CO3	24	mg/L		5	SM 2320B	05/29/2015 2326	BT
Chloride	617	mg/L		1	EPA 300.0	06/01/2015 1306	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	06/01/2015 2153	LJK
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	06/03/2015 1302	AMB
Sulfate	44	mg/L		1	EPA 300.0	06/03/2015 838	AB
Calcium	7	mg/L		1	EPA 200.7	05/29/2015 1548	DG
Magnesium	2	mg/L		1	EPA 200.7	05/29/2015 1548	DG
Potassium	6	mg/L		1	EPA 200.7	05/29/2015 1548	DG
Sodium	628	mg/L		1	EPA 200.7	05/29/2015 1548	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/02/2015 1352	AMB
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	05/29/2015 2326	BT
Electrical Conductivity	2740	µmhos/cm		5	SM 2510B	05/29/2015 2326	BT
Total Dissolved Solids (180)	1590	mg/L		10	SM 2540	05/29/2015 1133	LJK
Data Quality							
Cation Sum	28.03	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Anion Sum	27.44	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Cation-Anion Balance (± 5%)	1.06	%		0.01	SM 1030E	06/15/2015 1408	JJ
Solids, Total Dissolved (Calc)	1580	mg/L		10	SM 1030E	06/15/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-004
ClientSample ID: DM-4
COC: 160033

WorkOrder: S1505490
CollectionDate: 5/28/2015 9:37:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	05/29/2015 1548	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1721	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1721	MS
Boron	0.9	mg/L		0.1	EPA 200.7	05/29/2015 1548	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1721	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1548	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1721	MS
Iron	0.10	mg/L		0.05	EPA 200.7	05/29/2015 1548	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1721	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1318	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1721	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1548	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1721	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1721	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 1721	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1721	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1548	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1211	MS
Metals - Total							
Iron	2.05	mg/L		0.05	EPA 200.7	06/02/2015 218	DG
Manganese	0.06	mg/L		0.02	EPA 200.7	06/02/2015 218	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-004
ClientSample ID: DM-4
COC: 160033

WorkOrder: S1505490
CollectionDate: 5/28/2015 9:37:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	3.0	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	5.5	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 558	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 920	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 920	MB
Radionuclides - Suspended							
Lead 210	15.4	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	1.0	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1301	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1301	MB
Radionuclides - Total							
Radon 222	868	pCi/L		100	ASTM D5072-09	05/29/2015 1531	WN
Radon-222 Precision (±)	25.5	pCi/L			ASTM D5072-09	05/29/2015 1531	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-001
ClientSample ID: DM5
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/28/2015 9:55:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.7	s.u.			Field	05/28/2015 955	
Conductivity	2583	µmhos/cm			Field	05/28/2015 955	
Dissolved Oxygen	4.06	mg/L			Field	05/28/2015 955	
Turbidity	27.7	NTU			Field	05/28/2015 955	
Temperature	12.5	℃			Field	05/28/2015 955	
Oxygen Reduction Potential (ORP)	-14	mV			Field	05/28/2015 955	
Anions/Cations							
Alkalinity, Total (As CaCO3)	389	mg/L		5	SM 2320B	05/29/2015 2345	BT
Alkalinity, Bicarbonate as HCO3	268	mg/L		5	SM 2320B	05/29/2015 2345	BT
Alkalinity, Carbonate as CO3	101	mg/L		5	SM 2320B	05/29/2015 2345	BT
Chloride	477	mg/L		1	EPA 300.0	05/31/2015 922	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/01/2015 2202	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1305	AMB
Sulfate	401	mg/L		1	EPA 300.0	05/31/2015 922	AB
Calcium	4	mg/L		1	EPA 200.7	05/29/2015 1554	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/29/2015 1554	DG
Potassium	13	mg/L		1	EPA 200.7	05/29/2015 1554	DG
Sodium	719	mg/L		1	EPA 200.7	05/29/2015 1554	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/02/2015 1355	AMB
General Parameters							
pH	9.6	s.u.		0.1	SM 4500 H B	05/29/2015 2345	BT
Electrical Conductivity	3060	µmhos/cm		5	SM 2510B	05/29/2015 2345	BT
Total Dissolved Solids (180)	1910	mg/L		10	SM 2540	05/29/2015 1135	LJK
Data Quality							
Cation Sum	31.86	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Anion Sum	29.63	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Cation-Anion Balance (± 5%)	3.63	%		0.01	SM 1030E	06/08/2015 825	JJ
Solids, Total Dissolved (Calc)	1850	mg/L		10	SM 1030E	06/08/2015 825	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-001
ClientSample ID: DM5
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/28/2015 9:55:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1554	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1759	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1759	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/29/2015 1554	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1759	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1554	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1759	MS
Iron	0.06	mg/L		0.05	EPA 200.7	05/29/2015 1554	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1759	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1322	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1759	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1554	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1759	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1759	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	05/29/2015 1759	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1759	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1554	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1249	MS
Metals - Total							
Iron	0.74	mg/L		0.05	EPA 200.7	06/02/2015 239	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 239	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-001
ClientSample ID: DM5
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/28/2015 9:55:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	3.6	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	5.6	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	1.2	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 1858	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 1858	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 920	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 920	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1301	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1301	MB
Radionuclides - Total							
Radon 222	316	pCi/L		100	ASTM D5072-09	05/29/2015 1643	WN
Radon-222 Precision (±)	14.2	pCi/L			ASTM D5072-09	05/29/2015 1643	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-005
ClientSample ID: MU1 DM6
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 8:54:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.46	s.u.			Field	05/29/2015 854	
Conductivity	2343	µmhos/cm			Field	05/29/2015 854	
Dissolved Oxygen	3.81	mg/L			Field	05/29/2015 854	
Turbidity	65.7	NTU			Field	05/29/2015 854	
Temperature	9.9	℃			Field	05/29/2015 854	
Oxygen Reduction Potential (ORP)	-82	mV			Field	05/29/2015 854	
Anions/Cations							
Alkalinity, Total (As CaCO3)	400	mg/L		5	SM 2320B	06/02/2015 447	LJK
Alkalinity, Bicarbonate as HCO3	281	mg/L		5	SM 2320B	06/02/2015 447	LJK
Alkalinity, Carbonate as CO3	102	mg/L		5	SM 2320B	06/02/2015 447	LJK
Chloride	756	mg/L		1	EPA 300.0	06/05/2015 657	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/04/2015 1326	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1247	AMB
Sulfate	10	mg/L		1	EPA 300.0	06/02/2015 1119	AB
Calcium	4	mg/L		1	EPA 200.7	06/10/2015 955	DG
Magnesium	1	mg/L		1	EPA 200.7	06/10/2015 955	DG
Potassium	22	mg/L		1	EPA 200.7	06/01/2015 1938	DG
Sodium	654	mg/L		1	EPA 200.7	06/10/2015 955	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/01/2015 1450	AMB
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	06/02/2015 447	LJK
Electrical Conductivity	2990	µmhos/cm		5	SM 2510B	06/02/2015 447	LJK
Total Dissolved Solids (180)	1730	mg/L		10	SM 2540	06/08/2015 2040	TS
Data Quality							
Cation Sum	29.33	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Anion Sum	29.58	meq/L		0.01	SM 1030E	06/15/2015 1209	JJ
Cation-Anion Balance (± 5%)	0.42	%		0.01	SM 1030E	06/15/2015 1209	JJ
Solids, Total Dissolved (Calc)	1690	mg/L		10	SM 1030E	06/15/2015 1209	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-005
ClientSample ID: MU1 DM6
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 8:54:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	06/01/2015 1938	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1503	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1503	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/01/2015 1938	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1503	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1938	DG
Copper	0.01	mg/L		0.01	EPA 200.8	06/01/2015 1503	MS
Iron	0.07	mg/L		0.05	EPA 200.7	06/01/2015 1938	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1503	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1117	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1503	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1938	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1503	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1503	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/01/2015 1503	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1503	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1938	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1409	MS
Metals - Total							
Iron	2.71	mg/L		0.05	EPA 200.7	06/02/2015 2001	DG
Manganese	0.05	mg/L		0.02	EPA 200.7	06/02/2015 2001	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505525001

ProjectName: Ross MU1 ISR
Lab ID: S1505525-005
ClientSample ID: MU1 DM6
COC: 160041

WorkOrder: S1505525
CollectionDate: 5/29/2015 8:54:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/13/2015 2214	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/13/2015 2214	MB
Gross Beta	16.2	pCi/L		3	SM 7110B	06/13/2015 2214	MB
Gross Beta Precision (±)	6.2	pCi/L			SM 7110B	06/13/2015 2214	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/19/2015 2230	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/19/2015 2230	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1251	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1251	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1515	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1515	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 850	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 850	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/31/2015 222	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/31/2015 222	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-005
ClientSample ID: DM7
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:27:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.04	s.u.			Field	05/29/2015 927	
Conductivity	2347	µmhos/cm			Field	05/29/2015 927	
Dissolved Oxygen	5.22	mg/L			Field	05/29/2015 927	
Turbidity	247	NTU			Field	05/29/2015 927	
Temperature	9.5	℃			Field	05/29/2015 927	
Oxygen Reduction Potential (ORP)	-75	mV			Field	05/29/2015 927	
Anions/Cations							
Alkalinity, Total (As CaCO3)	428	mg/L		5	SM 2320B	06/02/2015 2149	LJK
Alkalinity, Bicarbonate as HCO3	125	mg/L		5	SM 2320B	06/02/2015 2149	LJK
Alkalinity, Carbonate as CO3	195	mg/L		5	SM 2320B	06/02/2015 2149	LJK
Chloride	728	mg/L		1	EPA 300.0	06/05/2015 725	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	06/04/2015 1403	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1050	AMB
Sulfate	40	mg/L		1	EPA 300.0	06/02/2015 1402	AB
Calcium	4	mg/L		1	EPA 200.7	06/10/2015 1002	DG
Magnesium	1	mg/L		1	EPA 200.7	06/10/2015 1002	DG
Potassium	33	mg/L		1	EPA 200.7	06/10/2015 1002	DG
Sodium	616	mg/L		1	EPA 200.7	06/10/2015 1002	DG
Nitrogen, Ammonia (As N)	0.8	mg/L		0.1	EPA 350.1	06/01/2015 1507	AMB
General Parameters							
pH	10.2	s.u.		0.1	SM 4500 H B	06/02/2015 2149	LJK
Electrical Conductivity	2990	µmhos/cm		5	SM 2510B	06/02/2015 2149	LJK
Total Dissolved Solids (180)	1680	mg/L		10	SM 2540	06/01/2015 2132	TS
Data Quality							
Cation Sum	27.98	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Anion Sum	29.97	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Cation-Anion Balance (± 5%)	3.42	%		0.01	SM 1030E	06/15/2015 1213	JJ
Solids, Total Dissolved (Calc)	1680	mg/L		10	SM 1030E	06/15/2015 1213	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-005
ClientSample ID: DM7
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:27:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	06/01/2015 2008	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1608	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1608	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/01/2015 2008	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1608	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2008	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1608	MS
Iron	0.10	mg/L		0.05	EPA 200.7	06/01/2015 2008	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1608	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1145	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1608	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2008	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1608	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1608	MS
Uranium	0.0014	mg/L		0.0003	EPA 200.8	06/01/2015 1608	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1608	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2008	DG
Metals - Suspended							
Uranium	0.0014	mg/L		0.0003	EPA 200.8	06/05/2015 1458	MS
Metals - Total							
Iron	4.85	mg/L		0.05	EPA 200.7	06/02/2015 2031	DG
Manganese	0.09	mg/L		0.02	EPA 200.7	06/02/2015 2031	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-005
ClientSample ID: DM7
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:27:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.2	pCi/L		2	SM 7110B	06/15/2015 1951	MB
Gross Alpha Precision (±)	3.1	pCi/L			SM 7110B	06/15/2015 1951	MB
Gross Beta	23.2	pCi/L		3	SM 7110B	06/15/2015 1951	MB
Gross Beta Precision (±)	6.5	pCi/L			SM 7110B	06/15/2015 1951	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 1236	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 1236	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	0.5	pCi/L		0.2	ACW10	06/25/2015 806	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	06/25/2015 806	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/31/2015 631	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/31/2015 631	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-006
ClientSample ID: DM8
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 10:05:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.56	s.u.			Field	05/29/2015 1005	
Conductivity	2416	µmhos/cm			Field	05/29/2015 1005	
Dissolved Oxygen	9.55	mg/L			Field	05/29/2015 1005	
Turbidity	53.4	NTU			Field	05/29/2015 1005	
Temperature	9.2	℃			Field	05/29/2015 1005	
Oxygen Reduction Potential (ORP)	-9	mV			Field	05/29/2015 1005	
Anions/Cations							
Alkalinity, Total (As CaCO3)	433	mg/L		5	SM 2320B	06/02/2015 2159	LJK
Alkalinity, Bicarbonate as HCO3	264	mg/L		5	SM 2320B	06/02/2015 2159	LJK
Alkalinity, Carbonate as CO3	130	mg/L		5	SM 2320B	06/02/2015 2159	LJK
Chloride	789	mg/L		1	EPA 300.0	06/05/2015 847	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/04/2015 1407	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1309	AMB
Sulfate	27	mg/L		1	EPA 300.0	06/05/2015 847	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 2010	DG
Magnesium	1	mg/L		1	EPA 200.7	06/01/2015 2010	DG
Potassium	22	mg/L		1	EPA 200.7	06/01/2015 2010	DG
Sodium	654	mg/L		1	EPA 200.7	06/01/2015 2010	DG
Nitrogen, Ammonia (As N)	1.1	mg/L		0.1	EPA 350.1	06/01/2015 1508	AMB
General Parameters							
pH	9.7	s.u.		0.1	SM 4500 H B	06/02/2015 2159	LJK
Electrical Conductivity	3090	µmhos/cm		5	SM 2510B	06/02/2015 2159	LJK
Total Dissolved Solids (180)	1730	mg/L		10	SM 2540	06/01/2015 2133	TS
Data Quality							
Cation Sum	29.36	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Anion Sum	31.51	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Cation-Anion Balance (± 5%)	3.54	%		0.01	SM 1030E	06/15/2015 1213	JJ
Solids, Total Dissolved (Calc)	1760	mg/L		10	SM 1030E	06/15/2015 1213	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-006
ClientSample ID: DM8
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 10:05:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	06/01/2015 2010	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1614	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1614	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/01/2015 2010	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1614	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2010	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1614	MS
Iron	0.08	mg/L		0.05	EPA 200.7	06/01/2015 2010	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1614	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1147	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1614	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2010	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1614	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1614	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/01/2015 1614	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1614	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2010	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1502	MS
Metals - Total							
Iron	2.32	mg/L		0.05	EPA 200.7	06/02/2015 2047	DG
Manganese	0.03	mg/L		0.02	EPA 200.7	06/02/2015 2047	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-006
ClientSample ID: DM8
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 10:05:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.1	pCi/L		2	SM 7110B	06/15/2015 1951	MB
Gross Alpha Precision (±)	2.8	pCi/L			SM 7110B	06/15/2015 1951	MB
Gross Beta	15.0	pCi/L		3	SM 7110B	06/15/2015 1951	MB
Gross Beta Precision (±)	6.1	pCi/L			SM 7110B	06/15/2015 1951	MB
Lead 210	1.1	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1333	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1333	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 1437	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 1437	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 806	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 806	MB
Radionuclides - Total							
Radon 222	113	pCi/L		100	ASTM D5072-09	05/31/2015 707	WN
Radon-222 Precision (±)	7.1	pCi/L			ASTM D5072-09	05/31/2015 707	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-003
ClientSample ID: DM9
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:51:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.56	s.u.			Field	05/29/2015 951	
Conductivity	2574	µmhos/cm			Field	05/29/2015 951	
Dissolved Oxygen	4.20	mg/L			Field	05/29/2015 951	
Turbidity	60.1	NTU			Field	05/29/2015 951	
Temperature	9.7	℃			Field	05/29/2015 951	
Oxygen Reduction Potential (ORP)	-198	mV			Field	05/29/2015 951	
Anions/Cations							
Alkalinity, Total (As CaCO3)	523	mg/L		5	SM 2320B	06/02/2015 2127	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/02/2015 2127	LJK
Alkalinity, Carbonate as CO3	209	mg/L		5	SM 2320B	06/02/2015 2127	LJK
Chloride	551	mg/L		1	EPA 300.0	06/02/2015 1335	AB
Fluoride	1.4	mg/L		0.1	SM 4500FC	06/04/2015 1353	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1255	AMB
Sulfate	95	mg/L		1	EPA 300.0	06/02/2015 1335	AB
Calcium	4	mg/L		1	EPA 200.7	06/10/2015 957	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/10/2015 957	DG
Potassium	55	mg/L		1	EPA 200.7	06/10/2015 957	DG
Sodium	578	mg/L		1	EPA 200.7	06/10/2015 957	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/01/2015 1504	AMB
General Parameters							
pH	11.5	s.u.		0.1	SM 4500 H B	06/02/2015 2127	LJK
Electrical Conductivity	3180	µmhos/cm		5	SM 2510B	06/02/2015 2127	LJK
Total Dissolved Solids (180)	1680	mg/L		10	SM 2540	06/08/2015 2040	TS
Data Quality							
Cation Sum	26.77	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Anion Sum	28.03	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Cation-Anion Balance (± 5%)	2.30	%		0.01	SM 1030E	06/15/2015 1213	JJ
Solids, Total Dissolved (Calc)	1600	mg/L		10	SM 1030E	06/15/2015 1213	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-003
ClientSample ID: DM9
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:51:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.7	mg/L		0.1	EPA 200.7	06/01/2015 2003	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	06/01/2015 1557	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1557	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/01/2015 2003	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1557	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2003	DG
Copper	0.01	mg/L		0.01	EPA 200.8	06/01/2015 1557	MS
Iron	0.06	mg/L		0.05	EPA 200.7	06/01/2015 2003	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1557	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1141	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1557	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2003	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1557	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1557	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/01/2015 1557	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1557	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2003	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1449	MS
Metals - Total							
Iron	2.06	mg/L		0.05	EPA 200.7	06/02/2015 2027	DG
Manganese	0.05	mg/L		0.02	EPA 200.7	06/02/2015 2027	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-003
ClientSample ID: DM9
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:51:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	2.6	pCi/L		2	SM 7110B	06/15/2015 1951	MB
Gross Alpha Precision (±)	3.0	pCi/L			SM 7110B	06/15/2015 1951	MB
Gross Beta	40.6	pCi/L		3	SM 7110B	06/15/2015 1951	MB
Gross Beta Precision (±)	7.0	pCi/L			SM 7110B	06/15/2015 1951	MB
Lead 210	1.0	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 835	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 835	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.5	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	0.8	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	173	pCi/L		100	ASTM D5072-09	05/31/2015 520	WN
Radon-222 Precision (±)	9.7	pCi/L			ASTM D5072-09	05/31/2015 520	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-004
ClientSample ID: DM10
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 10:32:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.4	s.u.			Field	05/29/2015 1032	
Conductivity	2336	µmhos/cm			Field	05/29/2015 1032	
Dissolved Oxygen	5.29	mg/L			Field	05/29/2015 1032	
Turbidity	160	NTU			Field	05/29/2015 1032	
Temperature	9.2	℃			Field	05/29/2015 1032	
Oxygen Reduction Potential (ORP)	-12	mV			Field	05/29/2015 1032	
Anions/Cations							
Alkalinity, Total (As CaCO3)	446	mg/L		5	SM 2320B	06/09/2015 2320	LJK
Alkalinity, Bicarbonate as HCO3	340	mg/L		5	SM 2320B	06/09/2015 2320	LJK
Alkalinity, Carbonate as CO3	100	mg/L		5	SM 2320B	06/09/2015 2320	LJK
Chloride	668	mg/L		1	EPA 300.0	06/05/2015 711	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/04/2015 1358	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1257	AMB
Sulfate	106	mg/L		1	EPA 300.0	06/02/2015 1349	AB
Calcium	4	mg/L		1	EPA 200.7	06/10/2015 959	DG
Magnesium	2	mg/L		1	EPA 200.7	06/10/2015 959	DG
Potassium	22	mg/L		1	EPA 200.7	06/10/2015 959	DG
Sodium	655	mg/L		1	EPA 200.7	06/10/2015 959	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/01/2015 1506	AMB
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	06/09/2015 2320	LJK
Electrical Conductivity	2990	µmhos/cm		5	SM 2510B	06/02/2015 2138	LJK
Total Dissolved Solids (180)	1730	mg/L		10	SM 2540	06/01/2015 2131	TS
Data Quality							
Cation Sum	29.46	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Anion Sum	30.03	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Cation-Anion Balance (± 5%)	0.95	%		0.01	SM 1030E	06/15/2015 1213	JJ
Solids, Total Dissolved (Calc)	1730	mg/L		10	SM 1030E	06/15/2015 1213	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-004
ClientSample ID: DM10
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 10:32:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.3	mg/L		0.1	EPA 200.7	06/01/2015 2005	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1603	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1603	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/01/2015 2005	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1603	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2005	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1603	MS
Iron	0.15	mg/L		0.05	EPA 200.7	06/01/2015 2005	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1603	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1143	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1603	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2005	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1603	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1603	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/01/2015 1603	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1603	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 2005	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1453	MS
Metals - Total							
Iron	5.04	mg/L		0.05	EPA 200.7	06/02/2015 2029	DG
Manganese	0.12	mg/L		0.02	EPA 200.7	06/02/2015 2029	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-004
ClientSample ID: DM10
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 10:32:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/15/2015 1951	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/15/2015 1951	MB
Gross Beta	15.0	pCi/L		3	SM 7110B	06/15/2015 1951	MB
Gross Beta Precision (±)	6.3	pCi/L			SM 7110B	06/15/2015 1951	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 1035	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 1035	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1456	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1456	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1633	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1633	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 806	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 806	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/31/2015 556	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/31/2015 556	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-002
ClientSample ID: DM11
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 11:01:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.19	s.u.			Field	05/29/2015 1101	
Conductivity	1972	µmhos/cm			Field	05/29/2015 1101	
Dissolved Oxygen	6.24	mg/L			Field	05/29/2015 1101	
Turbidity	91.8	NTU			Field	05/29/2015 1101	
Temperature	9.7	℃			Field	05/29/2015 1101	
Oxygen Reduction Potential (ORP)	+49	mV			Field	05/29/2015 1101	
Anions/Cations							
Alkalinity, Total (As CaCO3)	499	mg/L		5	SM 2320B	06/02/2015 2116	LJK
Alkalinity, Bicarbonate as HCO3	417	mg/L		5	SM 2320B	06/02/2015 2116	LJK
Alkalinity, Carbonate as CO3	95	mg/L		5	SM 2320B	06/02/2015 2116	LJK
Chloride	560	mg/L		1	EPA 300.0	06/02/2015 1321	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	06/04/2015 1348	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1254	AMB
Sulfate	5	mg/L		1	EPA 300.0	06/02/2015 1321	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 2001	DG
Magnesium	1	mg/L		1	EPA 200.7	06/01/2015 2001	DG
Potassium	30	mg/L		1	EPA 200.7	06/01/2015 2001	DG
Sodium	530	mg/L		1	EPA 200.7	06/01/2015 2001	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/01/2015 1503	AMB
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	06/02/2015 2116	LJK
Electrical Conductivity	2500	µmhos/cm		5	SM 2510B	06/02/2015 2116	LJK
Total Dissolved Solids (180)	1420	mg/L		10	SM 2540	06/01/2015 2129	TS
Data Quality							
Cation Sum	24.11	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Anion Sum	25.93	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Cation-Anion Balance (± 5%)	3.62	%		0.01	SM 1030E	06/15/2015 1213	JJ
Solids, Total Dissolved (Calc)	1430	mg/L		10	SM 1030E	06/15/2015 1213	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-002
ClientSample ID: DM11
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 11:01:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	06/01/2015 2001	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1552	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1552	MS
Boron	0.8	mg/L		0.1	EPA 200.7	06/01/2015 2001	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1552	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 2001	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1552	MS
Iron	0.15	mg/L		0.05	EPA 200.7	06/01/2015 2001	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1552	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1139	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1552	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 2001	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1552	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1552	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/01/2015 1552	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1552	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/01/2015 2001	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1445	MS
Metals - Total							
Iron	3.40	mg/L		0.05	EPA 200.7	06/02/2015 2024	DG
Manganese	0.10	mg/L		0.02	EPA 200.7	06/02/2015 2024	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-002
ClientSample ID: DM11
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 11:01:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/15/2015 1951	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/15/2015 1951	MB
Gross Beta	26.3	pCi/L		3	SM 7110B	06/15/2015 1951	MB
Gross Beta Precision (±)	5.8	pCi/L			SM 7110B	06/15/2015 1951	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1724	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1724	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1256	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1256	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 634	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 634	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/31/2015 445	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/31/2015 445	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-005
ClientSample ID: DM-12
COC: 160033

WorkOrder: S1505490
CollectionDate: 5/28/2015 9:40:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.71	s.u.			Field	05/28/2015 940	
Conductivity	3703	µmhos/cm			Field	05/28/2015 940	
Dissolved Oxygen	4.05	mg/L			Field	05/28/2015 940	
Turbidity	24.2	NTU			Field	05/28/2015 940	
Temperature	11.4	℃			Field	05/28/2015 940	
Oxygen Reduction Potential (ORP)	+90	mV			Field	05/28/2015 940	
Anions/Cations							
Alkalinity, Total (As CaCO3)	479	mg/L		5	SM 2320B	05/29/2015 2336	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/29/2015 2336	BT
Alkalinity, Carbonate as CO3	227	mg/L		5	SM 2320B	05/29/2015 2336	BT
Chloride	299	mg/L		1	EPA 300.0	05/31/2015 908	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/01/2015 2157	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1304	AMB
Sulfate	974	mg/L		1	EPA 300.0	05/31/2015 908	AB
Calcium	3	mg/L		1	EPA 200.7	05/29/2015 1550	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/29/2015 1550	DG
Potassium	58	mg/L		1	EPA 200.7	05/29/2015 1550	DG
Sodium	925	mg/L		1	EPA 200.7	05/29/2015 1550	DG
Nitrogen, Ammonia (As N)	1.7	mg/L		0.1	EPA 350.1	06/02/2015 1353	AMB
General Parameters							
pH	11.3	s.u.		0.1	SM 4500 H B	05/29/2015 2336	BT
Electrical Conductivity	4280	µmhos/cm		5	SM 2510B	05/29/2015 2336	BT
Total Dissolved Solids (180)	2690	mg/L		10	SM 2540	05/29/2015 1134	LJK
Data Quality							
Cation Sum	41.98	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Anion Sum	38.34	meq/L		0.01	SM 1030E	06/15/2015 1408	JJ
Cation-Anion Balance (± 5%)	4.53	%		0.01	SM 1030E	06/15/2015 1408	JJ
Solids, Total Dissolved (Calc)	2550	mg/L		10	SM 1030E	06/15/2015 1408	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-005
ClientSample ID: DM-12
COC: 160033

WorkOrder: S1505490
CollectionDate: 5/28/2015 9:40:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/29/2015 1550	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1742	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1742	MS
Boron	0.6	mg/L		0.1	EPA 200.7	05/29/2015 1550	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1742	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1550	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1742	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/29/2015 1550	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1742	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1320	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1742	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1550	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1742	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1742	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/29/2015 1742	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1742	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	05/29/2015 1550	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1232	MS
Metals - Total							
Iron	1.15	mg/L		0.05	EPA 200.7	06/02/2015 235	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 235	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505490001

ProjectName: Ross MU1 ISR
Lab ID: S1505490-005
ClientSample ID: DM-12
COC: 160033

WorkOrder: S1505490
CollectionDate: 5/28/2015 9:40:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	27.2	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	6.7	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 2011	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 2011	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1042	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1042	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/17/2015 759	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/17/2015 759	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 920	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 920	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1301	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1301	MB
Radionuclides - Total							
Radon 222	459	pCi/L		100	ASTM D5072-09	05/29/2015 1607	WN
Radon-222 Precision (±)	17.8	pCi/L			ASTM D5072-09	05/29/2015 1607	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-002
ClientSample ID: DM13
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/28/2015 10:06:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.0	s.u.			Field	05/28/2015 1006	
Conductivity	2445	µmhos/cm			Field	05/28/2015 1006	
Dissolved Oxygen	4.88	mg/L			Field	05/28/2015 1006	
Turbidity	60.9	NTU			Field	05/28/2015 1006	
Temperature	11.4	℃			Field	05/28/2015 1006	
Oxygen Reduction Potential (ORP)	-23	mV			Field	05/28/2015 1006	
Anions/Cations							
Alkalinity, Total (As CaCO3)	624	mg/L		5	SM 2320B	05/29/2015 2355	BT
Alkalinity, Bicarbonate as HCO3	259	mg/L		5	SM 2320B	05/29/2015 2355	BT
Alkalinity, Carbonate as CO3	247	mg/L		5	SM 2320B	05/29/2015 2355	BT
Chloride	548	mg/L		1	EPA 300.0	05/31/2015 936	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/01/2015 2206	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1307	AMB
Sulfate	90	mg/L		1	EPA 300.0	05/31/2015 936	AB
Calcium	3	mg/L		1	EPA 200.7	05/29/2015 1608	DG
Magnesium	1	mg/L		1	EPA 200.7	05/29/2015 1608	DG
Potassium	92	mg/L		1	EPA 200.7	05/29/2015 1608	DG
Sodium	674	mg/L		1	EPA 200.7	05/29/2015 1608	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/02/2015 1404	AMB
General Parameters							
pH	10.1	s.u.		0.1	SM 4500 H B	05/29/2015 2355	BT
Electrical Conductivity	3000	µmhos/cm		5	SM 2510B	05/29/2015 2355	BT
Total Dissolved Solids (180)	1750	mg/L		10	SM 2540	05/29/2015 1136	LJK
Data Quality							
Cation Sum	31.98	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Anion Sum	29.88	meq/L		0.01	SM 1030E	06/08/2015 825	JJ
Cation-Anion Balance (± 5%)	3.38	%		0.01	SM 1030E	06/08/2015 825	JJ
Solids, Total Dissolved (Calc)	1780	mg/L		10	SM 1030E	06/08/2015 825	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-002
ClientSample ID: DM13
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/28/2015 10:06:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	05/29/2015 1608	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/29/2015 1804	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/29/2015 1804	MS
Boron	0.8	mg/L		0.1	EPA 200.7	05/29/2015 1608	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/29/2015 1804	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/29/2015 1608	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/29/2015 1804	MS
Iron	0.14	mg/L		0.05	EPA 200.7	05/29/2015 1608	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/29/2015 1804	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/05/2015 1324	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/29/2015 1804	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/29/2015 1608	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/29/2015 1804	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/29/2015 1804	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/29/2015 1804	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/29/2015 1804	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/29/2015 1608	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1254	MS
Metals - Total							
Iron	1.91	mg/L		0.05	EPA 200.7	06/02/2015 246	DG
Manganese	0.04	mg/L		0.02	EPA 200.7	06/02/2015 246	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505491001

ProjectName: Ross MU1 ISR
Lab ID: S1505491-002
ClientSample ID: DM13
COC: 160032 158713 15886

WorkOrder: S1505491
CollectionDate: 5/28/2015 10:06:00 AM
DateReceived: 5/28/2015 3:30:00 PM
FieldSampler: MM/CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/09/2015 2329	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/09/2015 2329	MB
Gross Beta	67.1	pCi/L		3	SM 7110B	06/09/2015 2329	MB
Gross Beta Precision (±)	7.8	pCi/L			SM 7110B	06/09/2015 2329	MB
Lead 210	1.1	pCi/L		1	OTW01	06/15/2015 917	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	06/15/2015 917	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1208	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1208	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1058	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1058	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/15/2015 2058	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/15/2015 2058	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/15/2015 920	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/15/2015 920	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1315	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1315	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1616	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1616	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/15/2015 953	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/15/2015 953	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/23/2015 1301	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/23/2015 1301	MB
Radionuclides - Total							
Radon 222	185	pCi/L		100	ASTM D5072-09	05/29/2015 1754	WN
Radon-222 Precision (±)	10.0	pCi/L			ASTM D5072-09	05/29/2015 1754	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-001
ClientSample ID: DM14
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:12:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.83	s.u.			Field	05/29/2015 912	
Conductivity	2703	µmhos/cm			Field	05/29/2015 912	
Dissolved Oxygen	5.33	mg/L			Field	05/29/2015 912	
Turbidity	33.9	NTU			Field	05/29/2015 912	
Temperature	10.0	℃			Field	05/29/2015 912	
Oxygen Reduction Potential (ORP)	-83	mV			Field	05/29/2015 912	
Anions/Cations							
Alkalinity, Total (As CaCO3)	744	mg/L		5	SM 2320B	06/02/2015 534	LJK
Alkalinity, Bicarbonate as HCO3	45	mg/L		5	SM 2320B	06/02/2015 534	LJK
Alkalinity, Carbonate as CO3	424	mg/L		5	SM 2320B	06/02/2015 534	LJK
Chloride	427	mg/L		1	EPA 300.0	06/02/2015 1200	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/04/2015 1344	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/01/2015 1252	AMB
Sulfate	282	mg/L		1	EPA 300.0	06/02/2015 1200	AB
Calcium	3	mg/L		1	EPA 200.7	06/01/2015 1947	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/01/2015 1947	DG
Potassium	121	mg/L		1	EPA 200.7	06/01/2015 1947	DG
Sodium	633	mg/L		1	EPA 200.7	06/01/2015 1947	DG
Nitrogen, Ammonia (As N)	1.4	mg/L		0.1	EPA 350.1	06/01/2015 1502	AMB
General Parameters							
pH	10.6	s.u.		0.1	SM 4500 H B	06/02/2015 534	LJK
Electrical Conductivity	3430	µmhos/cm		5	SM 2510B	06/02/2015 534	LJK
Total Dissolved Solids (180)	2000	mg/L		10	SM 2540	06/01/2015 2128	TS
Data Quality							
Cation Sum	30.90	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Anion Sum	32.86	meq/L		0.01	SM 1030E	06/15/2015 1213	JJ
Cation-Anion Balance (± 5%)	3.07	%		0.01	SM 1030E	06/15/2015 1213	JJ
Solids, Total Dissolved (Calc)	1910	mg/L		10	SM 1030E	06/15/2015 1213	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-001
ClientSample ID: DM14
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:12:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/01/2015 1947	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/01/2015 1546	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/01/2015 1546	MS
Boron	0.7	mg/L		0.1	EPA 200.7	06/01/2015 1947	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/01/2015 1546	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/01/2015 1947	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/01/2015 1546	MS
Iron	0.06	mg/L		0.05	EPA 200.7	06/01/2015 1947	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/01/2015 1546	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/11/2015 1131	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/01/2015 1546	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/01/2015 1947	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/01/2015 1546	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/01/2015 1546	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/01/2015 1546	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/01/2015 1546	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/01/2015 1947	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/05/2015 1441	MS
Metals - Total							
Iron	0.77	mg/L		0.05	EPA 200.7	06/02/2015 2022	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/02/2015 2022	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1505526001

ProjectName: Ross MU1 ISR
Lab ID: S1505526-001
ClientSample ID: DM14
COC: 160040

WorkOrder: S1505526
CollectionDate: 5/29/2015 9:12:00 AM
DateReceived: 5/29/2015 5:01:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	3.6	pCi/L		2	SM 7110B	06/15/2015 1951	MB
Gross Alpha Precision (±)	2.8	pCi/L			SM 7110B	06/15/2015 1951	MB
Gross Beta	96.1	pCi/L		3	SM 7110B	06/15/2015 1951	MB
Gross Beta Precision (±)	8.0	pCi/L			SM 7110B	06/15/2015 1951	MB
Lead 210	ND	pCi/L		1	OTW01	06/17/2015 1520	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	06/23/2015 1049	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1049	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/20/2015 433	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/20/2015 433	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/16/2015 1601	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/16/2015 1601	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 1047	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/22/2015 1047	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1406	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1406	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/17/2015 1101	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/17/2015 1101	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/24/2015 1653	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/24/2015 1653	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/31/2015 409	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/31/2015 409	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-013
ClientSample ID: MU1 OZ1
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 11:58:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	06/11/2015 1158	
Conductivity	1945	µmhos/cm			Field	06/11/2015 1158	
Dissolved Oxygen	3.09	mg/L			Field	06/11/2015 1158	
Turbidity	.71	NTU			Field	06/11/2015 1158	
Temperature	12.2	℃			Field	06/11/2015 1158	
Oxygen Reduction Potential (ORP)	-115	mV			Field	06/11/2015 1158	
Anions/Cations							
Alkalinity, Total (As CaCO3)	551	mg/L		5	SM 2320B	06/13/2015 458	LJK
Alkalinity, Bicarbonate as HCO3	606	mg/L		5	SM 2320B	06/13/2015 458	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/13/2015 458	LJK
Chloride	6	mg/L		1	EPA 300.0	06/17/2015 1555	LAB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/13/2015 458	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1330	AMB
Sulfate	705	mg/L		1	EPA 300.0	06/17/2015 1555	LAB
Calcium	7	mg/L		1	EPA 200.7	06/13/2015 159	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 159	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 159	BJ
Sodium	624	mg/L		1	EPA 200.7	06/13/2015 159	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1212	AMB
Silica as SiO2	8.1	mg/L		0.1	EPA 200.7	06/13/2015 159	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 458	LJK
Electrical Conductivity	2560	µmhos/cm		5	SM 2510B	06/13/2015 458	LJK
Total Dissolved Solids (180)	1720	mg/L		10	SM 2540	06/12/2015 948	TS
Data Quality							
Cation Sum	27.90	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	25.89	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	3.73	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1690	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-013
ClientSample ID: MU1 OZ1
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 11:58:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 159	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 017	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 017	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/13/2015 159	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 017	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 159	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 017	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 159	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 017	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 159	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1325	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 017	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 159	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 017	MS
Uranium	0.0594	mg/L		0.0003	EPA 200.8	06/13/2015 017	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 017	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 159	BJ
Radionuclides - Dissolved							
Gross Alpha	253	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	14.5	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	47.1	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 2254	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 2254	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-002
ClientSample ID: MU1 OZ2
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 11:46:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.52	s.u.			Field	06/10/2015 1146	
Conductivity	1764	µmhos/cm			Field	06/10/2015 1146	
Dissolved Oxygen	2.21	mg/L			Field	06/10/2015 1146	
Turbidity	.96	NTU			Field	06/10/2015 1146	
Temperature	12.1	℃			Field	06/10/2015 1146	
Oxygen Reduction Potential (ORP)	+186	mV			Field	06/10/2015 1146	
Anions/Cations							
Alkalinity, Total (As CaCO3)	551	mg/L		5	SM 2320B	06/12/2015 252	LJK
Alkalinity, Bicarbonate as HCO3	621	mg/L		5	SM 2320B	06/12/2015 252	LJK
Alkalinity, Carbonate as CO3	25	mg/L		5	SM 2320B	06/12/2015 252	LJK
Chloride	5	mg/L		1	EPA 300.0	06/15/2015 1318	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/12/2015 252	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1623	AMB
Sulfate	583	mg/L		1	EPA 300.0	06/15/2015 1318	LAB
Calcium	7	mg/L		1	EPA 200.7	06/12/2015 213	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 213	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 213	BJ
Sodium	565	mg/L		1	EPA 200.7	06/12/2015 213	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1101	AMB
Silica as SiO2	8.5	mg/L		0.1	EPA 200.7	06/12/2015 213	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 252	LJK
Electrical Conductivity	2340	µmhos/cm		5	SM 2510B	06/12/2015 252	LJK
Total Dissolved Solids (180)	1480	mg/L		10	SM 2540	06/11/2015 1411	TS
Data Quality							
Cation Sum	25.28	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	23.32	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	4.04	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1510	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-002
ClientSample ID: MU1 OZ2
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 11:46:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 213	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 1919	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 1919	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/12/2015 213	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 1919	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 213	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 1919	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 213	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 1919	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 213	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1036	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 1919	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 213	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 1919	MS
Uranium	0.0620	mg/L		0.0003	EPA 200.8	06/11/2015 1919	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 1919	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 213	BJ
Radionuclides - Dissolved							
Gross Alpha	124	pCi/L		2	SM 7110B	06/19/2015 002	MB
Gross Alpha Precision (±)	10.9	pCi/L			SM 7110B	06/19/2015 002	MB
Radium 226	13.0	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 925	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 925	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-009
ClientSample ID: MU1 OZ3
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 10:44:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	06/11/2015 1044	
Conductivity	2470	µmhos/cm			Field	06/11/2015 1044	
Dissolved Oxygen	4.70	mg/L			Field	06/11/2015 1044	
Turbidity	3.46	NTU			Field	06/11/2015 1044	
Temperature	11.7	℃			Field	06/11/2015 1044	
Oxygen Reduction Potential (ORP)	+37	mV			Field	06/11/2015 1044	
Anions/Cations							
Alkalinity, Total (As CaCO3)	498	mg/L		5	SM 2320B	06/13/2015 407	LJK
Alkalinity, Bicarbonate as HCO3	558	mg/L		5	SM 2320B	06/13/2015 407	LJK
Alkalinity, Carbonate as CO3	24	mg/L		5	SM 2320B	06/13/2015 407	LJK
Chloride	12	mg/L		1	EPA 300.0	06/24/2015 322	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/13/2015 407	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1324	AMB
Sulfate	1130	mg/L		1	EPA 300.0	06/24/2015 322	AB
Calcium	11	mg/L		1	EPA 200.7	06/23/2015 2122	DG
Magnesium	4	mg/L		1	EPA 200.7	06/23/2015 2122	DG
Potassium	8	mg/L		1	EPA 200.7	06/23/2015 2122	DG
Sodium	788	mg/L		1	EPA 200.7	06/23/2015 2122	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/17/2015 1206	AMB
Silica as SiO2	8.0	mg/L		0.1	EPA 200.7	06/13/2015 135	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 407	LJK
Electrical Conductivity	3270	µmhos/cm		5	SM 2510B	06/13/2015 407	LJK
Total Dissolved Solids (180)	2260	mg/L		10	SM 2540	06/12/2015 943	TS
Data Quality							
Cation Sum	35.45	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	33.85	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	2.31	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	2260	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-009
ClientSample ID: MU1 OZ3
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 10:44:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 135	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2328	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2328	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/13/2015 135	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2328	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 135	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2328	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 135	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2328	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 135	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1312	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2328	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 135	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2328	MS
Uranium	0.0594	mg/L		0.0003	EPA 200.8	06/12/2015 2328	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2328	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 135	BJ
Radionuclides - Dissolved							
Gross Alpha	77.3	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	9.7	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	3.8	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 1451	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 1451	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-010
ClientSample ID: MU1-OZ4
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 2:40:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.62	s.u.			Field	06/10/2015 1440	
Conductivity	1742	µmhos/cm			Field	06/10/2015 1440	
Dissolved Oxygen	0.74	mg/L			Field	06/10/2015 1440	
Turbidity	10.7	NTU			Field	06/10/2015 1440	
Depth to Water	94.14	ft			Field	06/10/2015 1440	
Temperature	11.4	℃			Field	06/10/2015 1440	
Oxygen Reduction Potential (ORP)	-192.8	mV			Field	06/10/2015 1440	
Anions/Cations							
Alkalinity, Total (As CaCO3)	561	mg/L		5	SM 2320B	06/12/2015 730	LJK
Alkalinity, Bicarbonate as HCO3	586	mg/L		5	SM 2320B	06/12/2015 730	LJK
Alkalinity, Carbonate as CO3	48	mg/L		5	SM 2320B	06/12/2015 730	LJK
Chloride	5	mg/L		1	EPA 300.0	06/15/2015 2006	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/12/2015 730	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1701	AMB
Sulfate	619	mg/L		1	EPA 300.0	06/15/2015 2006	LAB
Calcium	8	mg/L		1	EPA 200.7	06/12/2015 340	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 340	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 340	BJ
Sodium	566	mg/L		1	EPA 200.7	06/12/2015 340	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1142	AMB
Silica as SiO2	8.4	mg/L		0.1	EPA 200.7	06/12/2015 340	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/12/2015 730	LJK
Electrical Conductivity	2370	µmhos/cm		5	SM 2510B	06/12/2015 730	LJK
Total Dissolved Solids (180)	1500	mg/L		10	SM 2540	06/11/2015 1431	TS
Data Quality							
Cation Sum	25.44	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	24.25	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	2.40	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	1550	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-010
ClientSample ID: MU1-OZ4
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 2:40:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 340	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2202	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2202	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/12/2015 340	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2202	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 340	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2202	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 340	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2202	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 340	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1140	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2202	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 340	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2202	MS
Uranium	0.103	mg/L		0.0003	EPA 200.8	06/11/2015 2202	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2202	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 340	BJ
Radionuclides - Dissolved							
Gross Alpha	119	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	10.7	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	1.8	pCi/L		0.2	SM 7500 Ra-B	06/30/2015 1259	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/30/2015 1259	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/25/2015 2043	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/25/2015 2043	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-008
ClientSample ID: MU1-OZ6
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 10:12:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.75	s.u.			Field	06/11/2015 1012	
Conductivity	2475	µmhos/cm			Field	06/11/2015 1012	
Dissolved Oxygen	0.64	mg/L			Field	06/11/2015 1012	
Turbidity	0.89	NTU			Field	06/11/2015 1012	
Depth to Water	93.28	ft			Field	06/11/2015 1012	
Temperature	11.7	℃			Field	06/11/2015 1012	
Oxygen Reduction Potential (ORP)	-107.0	mV			Field	06/11/2015 1012	
Anions/Cations							
Alkalinity, Total (As CaCO3)	447	mg/L		5	SM 2320B	06/13/2015 725	LJK
Alkalinity, Bicarbonate as HCO3	459	mg/L		5	SM 2320B	06/13/2015 725	LJK
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	06/13/2015 725	LJK
Chloride	13	mg/L		1	EPA 300.0	06/17/2015 1946	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/13/2015 725	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1720	AMB
Sulfate	1320	mg/L		1	EPA 300.0	06/17/2015 1946	LAB
Calcium	6	mg/L		1	EPA 200.7	06/13/2015 233	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 233	BJ
Potassium	11	mg/L		1	EPA 200.7	06/13/2015 233	BJ
Sodium	867	mg/L		1	EPA 200.7	06/13/2015 233	BJ
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1232	AMB
Silica as SiO2	7.6	mg/L		0.1	EPA 200.7	06/13/2015 233	BJ
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	06/13/2015 725	LJK
Electrical Conductivity	3560	µmhos/cm		5	SM 2510B	06/13/2015 725	LJK
Total Dissolved Solids (180)	2460	mg/L		10	SM 2540	06/12/2015 957	TS
Data Quality							
Cation Sum	38.62	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	36.88	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	2.29	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	2500	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-008
ClientSample ID: MU1-OZ6
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 10:12:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 233	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 143	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 143	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/13/2015 233	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 143	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 233	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 143	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 233	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 143	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 233	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1033	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 143	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 233	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 143	MS
Uranium	0.165	mg/L		0.0003	EPA 200.8	06/13/2015 143	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 143	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 233	BJ
Radionuclides - Dissolved							
Gross Alpha	301	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	18.2	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	47.4	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 406	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 406	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-008
ClientSample ID: MU1-OZ7
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 10:12:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.22	s.u.			Field	06/12/2015 1012	
Conductivity	2521	µmhos/cm			Field	06/12/2015 1012	
Dissolved Oxygen	0.50	mg/L			Field	06/12/2015 1012	
Turbidity	1.53				Field	06/12/2015 1012	
Depth to Water	104.18	ft			Field	06/12/2015 1012	
Temperature	11.6	℃			Field	06/12/2015 1012	
Oxygen Reduction Potential (ORP)	-142.1	mV			Field	06/12/2015 1012	
Anions/Cations							
Alkalinity, Total (As CaCO3)	528	mg/L		5	SM 2320B	06/16/2015 446	MRL
Alkalinity, Bicarbonate as HCO3	590	mg/L		5	SM 2320B	06/16/2015 446	MRL
Alkalinity, Carbonate as CO3	27	mg/L		5	SM 2320B	06/16/2015 446	MRL
Chloride	10	mg/L		1	EPA 300.0	06/18/2015 531	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 446	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1842	AMB
Sulfate	906	mg/L		1	EPA 300.0	06/18/2015 531	LAB
Calcium	12	mg/L		1	EPA 200.7	06/16/2015 1602	DG
Magnesium	4	mg/L		1	EPA 200.7	06/16/2015 1602	DG
Potassium	7	mg/L		1	EPA 200.7	06/16/2015 1602	DG
Sodium	701	mg/L		1	EPA 200.7	06/16/2015 1602	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/17/2015 1330	AMB
Silica as SiO2	8.5	mg/L		0.1	EPA 200.7	06/16/2015 1602	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	06/16/2015 446	MRL
Electrical Conductivity	2840	µmhos/cm		5	SM 2510B	06/16/2015 446	MRL
Total Dissolved Solids (180)	1930	mg/L		10	SM 2540	06/15/2015 1645	TS
Data Quality							
Cation Sum	31.61	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	29.73	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	3.07	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1970	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-008
ClientSample ID: MU1-OZ7
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 10:12:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1602	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 451	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 451	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/16/2015 1602	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 451	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1602	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 451	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1602	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 451	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1602	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1227	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 451	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1602	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 451	MS
Uranium	0.123	mg/L		0.0003	EPA 200.8	06/16/2015 451	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 451	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1602	DG
Radionuclides - Dissolved							
Gross Alpha	462	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	21.3	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	96.1	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	1.2	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/01/2015 2205	ME
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/01/2015 2205	ME

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-004
ClientSample ID: MU1-OZ8
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 10:00:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.61	s.u.			Field	06/12/2015 1000	
Conductivity	1775	µmhos/cm			Field	06/12/2015 1000	
Dissolved Oxygen	0.06	mg/L			Field	06/12/2015 1000	
Turbidity	0.79	NTU			Field	06/12/2015 1000	
Depth to Water	112.40	ft			Field	06/12/2015 1000	
Temperature	11.4	℃			Field	06/12/2015 1000	
Oxygen Reduction Potential (ORP)	-201.9	mV			Field	06/12/2015 1000	
Anions/Cations							
Alkalinity, Total (As CaCO3)	562	mg/L		5	SM 2320B	06/16/2015 353	MRL
Alkalinity, Bicarbonate as HCO3	610	mg/L		5	SM 2320B	06/16/2015 353	MRL
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	06/16/2015 353	MRL
Chloride	5	mg/L		1	EPA 300.0	06/18/2015 436	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 353	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1836	AMB
Sulfate	543	mg/L		1	EPA 300.0	06/18/2015 436	LAB
Calcium	5	mg/L		1	EPA 200.7	06/16/2015 1551	DG
Magnesium	2	mg/L		1	EPA 200.7	06/16/2015 1551	DG
Potassium	5	mg/L		1	EPA 200.7	06/16/2015 1551	DG
Sodium	557	mg/L		1	EPA 200.7	06/16/2015 1551	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1317	AMB
Silica as SiO2	7.8	mg/L		0.1	EPA 200.7	06/16/2015 1551	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/16/2015 353	MRL
Electrical Conductivity	2160	µmhos/cm		5	SM 2510B	06/16/2015 353	MRL
Total Dissolved Solids (180)	1450	mg/L		10	SM 2540	06/15/2015 1641	TS
Data Quality							
Cation Sum	24.81	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	22.68	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	4.48	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1460	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-004
ClientSample ID: MU1-OZ8
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 10:00:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1551	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 429	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 429	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/16/2015 1551	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 429	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1551	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 429	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1551	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 429	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1551	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1210	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 429	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1551	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 429	MS
Uranium	0.140	mg/L		0.0003	EPA 200.8	06/16/2015 429	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 429	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1551	DG
Radionuclides - Dissolved							
Gross Alpha	201	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	13.4	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	15.9	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 1305	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 1305	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-007
ClientSample ID: MU1 OZ9
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 2:19:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.97	s.u.			Field	06/10/2015 1419	
Conductivity	1626	µmhos/cm			Field	06/10/2015 1419	
Dissolved Oxygen	0.21	mg/L			Field	06/10/2015 1419	
Turbidity	78.6	NTU			Field	06/10/2015 1419	
Depth to Water	90.40	ft			Field	06/10/2015 1419	
Temperature	11.8	℃			Field	06/10/2015 1419	
Oxygen Reduction Potential (ORP)	-172.6	mV			Field	06/10/2015 1419	
Anions/Cations							
Alkalinity, Total (As CaCO3)	559	mg/L		5	SM 2320B	06/12/2015 653	LJK
Alkalinity, Bicarbonate as HCO3	569	mg/L		5	SM 2320B	06/12/2015 653	LJK
Alkalinity, Carbonate as CO3	56	mg/L		5	SM 2320B	06/12/2015 653	LJK
Chloride	5	mg/L		1	EPA 300.0	06/15/2015 1925	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/12/2015 653	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1656	AMB
Sulfate	587	mg/L		1	EPA 300.0	06/15/2015 1925	LAB
Calcium	5	mg/L		1	EPA 200.7	06/12/2015 319	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/12/2015 319	BJ
Potassium	10	mg/L		1	EPA 200.7	06/12/2015 319	BJ
Sodium	565	mg/L		1	EPA 200.7	06/12/2015 319	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1130	AMB
Silica as SiO2	8.9	mg/L		0.1	EPA 200.7	06/12/2015 319	BJ
General Parameters							
pH	9.0	s.u.		0.1	SM 4500 H B	06/12/2015 653	LJK
Electrical Conductivity	2350	µmhos/cm		5	SM 2510B	06/12/2015 653	LJK
Total Dissolved Solids (180)	1490	mg/L		10	SM 2540	06/11/2015 1428	TS
Data Quality							
Cation Sum	25.26	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	23.56	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	3.47	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	1520	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-007
ClientSample ID: MU1 OZ9
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 2:19:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 319	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2124	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2124	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 319	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2124	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 319	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2124	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 319	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2124	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 319	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1131	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2124	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 319	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2124	MS
Uranium	0.0780	mg/L		0.0003	EPA 200.8	06/11/2015 2124	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2124	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 319	BJ
Radionuclides - Dissolved							
Gross Alpha	174	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	12.5	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	27.0	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1122	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/22/2015 1122	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 1738	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 1738	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-005
ClientSample ID: MU1 OZ10
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 2:49:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	06/15/2015 1449	
Conductivity	2045	µmhos/cm			Field	06/15/2015 1449	
Dissolved Oxygen	3.10	mg/L			Field	06/15/2015 1449	
Turbidity	.45	NTU			Field	06/15/2015 1449	
Temperature	12.3	℃			Field	06/15/2015 1449	
Oxygen Reduction Potential (ORP)	50	mV			Field	06/15/2015 1449	
Anions/Cations							
Alkalinity, Total (As CaCO3)	534	mg/L		5	SM 2320B	06/17/2015 2335	LJK
Alkalinity, Bicarbonate as HCO3	593	mg/L		5	SM 2320B	06/17/2015 2335	LJK
Alkalinity, Carbonate as CO3	29	mg/L		5	SM 2320B	06/17/2015 2335	LJK
Chloride	8	mg/L		1	EPA 300.0	06/18/2015 2137	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/17/2015 2335	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/20/2015 1030	AMB
Sulfate	734	mg/L		1	EPA 300.0	06/18/2015 2137	AB
Calcium	7	mg/L		1	EPA 200.7	06/18/2015 1609	DG
Magnesium	3	mg/L		1	EPA 200.7	06/18/2015 1609	DG
Potassium	7	mg/L		1	EPA 200.7	06/18/2015 1609	DG
Sodium	636	mg/L		1	EPA 200.7	06/18/2015 1609	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/19/2015 1110	AMB
Silica as SiO2	8.3	mg/L		0.1	EPA 200.7	06/18/2015 1609	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/17/2015 2335	LJK
Electrical Conductivity	2590	µmhos/cm		5	SM 2510B	06/17/2015 2335	LJK
Total Dissolved Solids (180)	1790	mg/L		10	SM 2540	06/17/2015 1458	TS
Data Quality							
Cation Sum	28.42	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Anion Sum	26.22	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Cation-Anion Balance (± 5%)	4.02	%		0.01	SM 1030E	06/23/2015 835	JJ
Solids, Total Dissolved (Calc)	1720	mg/L		10	SM 1030E	06/23/2015 835	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-005
ClientSample ID: MU1 OZ10
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 2:49:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/18/2015 1609	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/17/2015 1850	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/17/2015 1850	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/18/2015 1609	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/17/2015 1850	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/18/2015 1609	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/17/2015 1850	MS
Iron	0.08	mg/L		0.05	EPA 200.7	06/18/2015 1609	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/17/2015 1850	MS
Manganese	0.03	mg/L		0.02	EPA 200.7	06/18/2015 1609	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/23/2015 908	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/17/2015 1850	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/18/2015 1609	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/17/2015 1850	MS
Uranium	0.0270	mg/L		0.0003	EPA 200.8	06/17/2015 1850	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/17/2015 1850	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/18/2015 1609	DG
Radionuclides - Dissolved							
Gross Alpha	44.7	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	8.0	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	1.4	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 1620	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/23/2015 1620	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/01/2015 511	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/01/2015 511	MB

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-003
ClientSample ID: MU1 OZ11
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 9:13:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.54	s.u.			Field	06/10/2015 913	
Conductivity	2060	µmhos/cm			Field	06/10/2015 913	
Dissolved Oxygen	5.83	mg/L			Field	06/10/2015 913	
Turbidity	1.89	NTU			Field	06/10/2015 913	
Temperature	12.2	℃			Field	06/10/2015 913	
Oxygen Reduction Potential (ORP)	+157	mV			Field	06/10/2015 913	
Anions/Cations							
Alkalinity, Total (As CaCO3)	537	mg/L		5	SM 2320B	06/12/2015 304	LJK
Alkalinity, Bicarbonate as HCO3	598	mg/L		5	SM 2320B	06/12/2015 304	LJK
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	06/12/2015 304	LJK
Chloride	9	mg/L		1	EPA 300.0	06/15/2015 1332	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/12/2015 304	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1625	AMB
Sulfate	803	mg/L		1	EPA 300.0	06/15/2015 1332	LAB
Calcium	10	mg/L		1	EPA 200.7	06/12/2015 216	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 216	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 216	BJ
Sodium	664	mg/L		1	EPA 200.7	06/12/2015 216	BJ
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/17/2015 1102	AMB
Silica as SiO2	9.3	mg/L		0.1	EPA 200.7	06/12/2015 216	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 304	LJK
Electrical Conductivity	2790	µmhos/cm		5	SM 2510B	06/12/2015 304	LJK
Total Dissolved Solids (180)	1820	mg/L		10	SM 2540	06/11/2015 1412	TS
Data Quality							
Cation Sum	29.81	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	27.70	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	3.66	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1830	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-003
ClientSample ID: MU1 OZ11
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 9:13:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 216	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 1924	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 1924	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 216	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 1924	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 216	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 1924	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 216	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 1924	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 216	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1042	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 1924	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 216	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 1924	MS
Uranium	0.0674	mg/L		0.0003	EPA 200.8	06/11/2015 1924	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 1924	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 216	BJ
Radionuclides - Dissolved							
Gross Alpha	120	pCi/L		2	SM 7110B	06/19/2015 002	MB
Gross Alpha Precision (±)	11.2	pCi/L			SM 7110B	06/19/2015 002	MB
Radium 226	8.0	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 1126	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 1126	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-009
ClientSample ID: MU1-OZ12
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:25:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.22	s.u.			Field	06/11/2015 1225	
Conductivity	1978	µmhos/cm			Field	06/11/2015 1225	
Dissolved Oxygen	7.32	mg/L			Field	06/11/2015 1225	
Turbidity	0.86	NTU			Field	06/11/2015 1225	
Depth to Water	91.00	ft			Field	06/11/2015 1225	
Temperature	12.0	℃			Field	06/11/2015 1225	
Oxygen Reduction Potential (ORP)	15.1	mV			Field	06/11/2015 1225	
Anions/Cations							
Alkalinity, Total (As CaCO3)	521	mg/L		5	SM 2320B	06/13/2015 737	LJK
Alkalinity, Bicarbonate as HCO3	578	mg/L		5	SM 2320B	06/13/2015 737	LJK
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	06/13/2015 737	LJK
Chloride	10	mg/L		1	EPA 300.0	06/17/2015 1959	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/13/2015 737	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1722	AMB
Sulfate	864	mg/L		1	EPA 300.0	06/17/2015 1959	LAB
Calcium	9	mg/L		1	EPA 200.7	06/13/2015 236	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 236	BJ
Potassium	6	mg/L		1	EPA 200.7	06/13/2015 236	BJ
Sodium	685	mg/L		1	EPA 200.7	06/13/2015 236	BJ
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1233	AMB
Silica as SiO2	8.3	mg/L		0.1	EPA 200.7	06/13/2015 236	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 737	LJK
Electrical Conductivity	2830	µmhos/cm		5	SM 2510B	06/13/2015 737	LJK
Total Dissolved Solids (180)	1900	mg/L		10	SM 2540	06/12/2015 958	TS
Data Quality							
Cation Sum	30.69	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	28.70	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	3.35	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1900	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-009
ClientSample ID: MU1-OZ12
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:25:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 236	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 149	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 149	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/13/2015 236	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 149	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 236	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 149	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 236	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 149	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 236	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1035	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 149	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 236	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 149	MS
Uranium	0.0015	mg/L		0.0003	EPA 200.8	06/13/2015 149	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 149	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 236	BJ
Radionuclides - Dissolved							
Gross Alpha	5.2	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	3.6	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	1.5	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 607	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 607	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-002
ClientSample ID: MU1 OZ-13
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 12:31:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.58	s.u.			Field	06/15/2015 1231	
Conductivity	2487	µmhos/cm			Field	06/15/2015 1231	
Dissolved Oxygen	2.85	mg/L			Field	06/15/2015 1231	
Turbidity	8.45	NTU			Field	06/15/2015 1231	
Temperature	11.8	℃			Field	06/15/2015 1231	
Oxygen Reduction Potential (ORP)	+185	mV			Field	06/15/2015 1231	
Anions/Cations							
Alkalinity, Total (As CaCO3)	504	mg/L		5	SM 2320B	06/17/2015 2245	LJK
Alkalinity, Bicarbonate as HCO3	556	mg/L		5	SM 2320B	06/17/2015 2245	LJK
Alkalinity, Carbonate as CO3	29	mg/L		5	SM 2320B	06/17/2015 2245	LJK
Chloride	11	mg/L		1	EPA 300.0	06/18/2015 2057	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/17/2015 2245	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/20/2015 1025	AMB
Sulfate	1080	mg/L		1	EPA 300.0	06/18/2015 2057	AB
Calcium	10	mg/L		1	EPA 200.7	06/18/2015 1602	DG
Magnesium	4	mg/L		1	EPA 200.7	06/18/2015 1602	DG
Potassium	10	mg/L		1	EPA 200.7	06/18/2015 1602	DG
Sodium	793	mg/L		1	EPA 200.7	06/18/2015 1602	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/19/2015 1106	AMB
Silica as SiO2	8.7	mg/L		0.1	EPA 200.7	06/18/2015 1602	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/17/2015 2245	LJK
Electrical Conductivity	3220	µmhos/cm		5	SM 2510B	06/17/2015 2245	LJK
Total Dissolved Solids (180)	2280	mg/L		10	SM 2540	06/17/2015 1455	TS
Data Quality							
Cation Sum	35.58	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Anion Sum	32.85	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Cation-Anion Balance (± 5%)	3.99	%		0.01	SM 1030E	06/23/2015 835	JJ
Solids, Total Dissolved (Calc)	2220	mg/L		10	SM 1030E	06/23/2015 835	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-002
ClientSample ID: MU1 OZ-13
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 12:31:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/18/2015 1602	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/17/2015 1834	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/17/2015 1834	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/18/2015 1602	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/17/2015 1834	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/18/2015 1602	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/17/2015 1834	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/18/2015 1602	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/17/2015 1834	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/18/2015 1602	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/23/2015 857	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/17/2015 1834	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/18/2015 1602	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/17/2015 1834	MS
Uranium	0.0472	mg/L		0.0003	EPA 200.8	06/17/2015 1834	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/17/2015 1834	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/18/2015 1602	DG
Radionuclides - Dissolved							
Gross Alpha	158	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	11.5	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	44.9	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 1620	MB
Radium 226 Precision (±)	0.9	pCi/L			SM 7500 Ra-B	06/23/2015 1620	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 2309	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 2309	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-001
ClientSample ID: MU1-OZ-14
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 10:15:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	06/12/2015 1015	
Conductivity	1928	µmhos/cm			Field	06/12/2015 1015	
Dissolved Oxygen	0.08	mg/L			Field	06/12/2015 1015	
Turbidity	19.2	NTU			Field	06/12/2015 1015	
Depth to Water	114.50	ft			Field	06/12/2015 1015	
Temperature	11.1	℃			Field	06/12/2015 1015	
Oxygen Reduction Potential (ORP)	-210.9	mV			Field	06/12/2015 1015	
Anions/Cations							
Alkalinity, Total (As CaCO3)	566	mg/L		5	SM 2320B	06/16/2015 318	MRL
Alkalinity, Bicarbonate as HCO3	602	mg/L		5	SM 2320B	06/16/2015 318	MRL
Alkalinity, Carbonate as CO3	43	mg/L		5	SM 2320B	06/16/2015 318	MRL
Chloride	5	mg/L		1	EPA 300.0	06/18/2015 247	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/16/2015 318	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1822	AMB
Sulfate	581	mg/L		1	EPA 300.0	06/18/2015 247	LAB
Calcium	6	mg/L		1	EPA 200.7	06/16/2015 1533	DG
Magnesium	2	mg/L		1	EPA 200.7	06/16/2015 1533	DG
Potassium	6	mg/L		1	EPA 200.7	06/16/2015 1533	DG
Sodium	544	mg/L		1	EPA 200.7	06/16/2015 1533	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1313	AMB
Silica as SiO2	8.6	mg/L		0.1	EPA 200.7	06/16/2015 1533	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/16/2015 318	MRL
Electrical Conductivity	2190	µmhos/cm		5	SM 2510B	06/16/2015 318	MRL
Total Dissolved Solids (180)	1480	mg/L		10	SM 2540	06/15/2015 1637	TS
Data Quality							
Cation Sum	24.33	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	23.56	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	1.59	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1490	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-001
ClientSample ID: MU1-OZ-14
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 10:15:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1533	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 346	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 346	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/16/2015 1533	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 346	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1533	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 346	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1533	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 346	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1533	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1204	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 346	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1533	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 346	MS
Uranium	0.0728	mg/L		0.0003	EPA 200.8	06/16/2015 346	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 346	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1533	DG
Radionuclides - Dissolved							
Gross Alpha	91.7	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	9.0	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	6.3	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 702	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 702	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-012
ClientSample ID: MU1-OZ-15
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:54:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.60	s.u.			Field	06/11/2015 1254	
Conductivity	2581	µmhos/cm			Field	06/11/2015 1254	
Dissolved Oxygen	0.14	mg/L			Field	06/11/2015 1254	
Turbidity	2.93	NTU			Field	06/11/2015 1254	
Depth to Water	123.51	ft			Field	06/11/2015 1254	
Temperature	11.3	℃			Field	06/11/2015 1254	
Oxygen Reduction Potential (ORP)	-178.0	mV			Field	06/11/2015 1254	
Anions/Cations							
Alkalinity, Total (As CaCO3)	528	mg/L		5	SM 2320B	06/13/2015 814	LJK
Alkalinity, Bicarbonate as HCO3	565	mg/L		5	SM 2320B	06/13/2015 814	LJK
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	06/13/2015 814	LJK
Chloride	8	mg/L		1	EPA 300.0	06/23/2015 1951	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/13/2015 814	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1725	AMB
Sulfate	755	mg/L		1	EPA 300.0	06/17/2015 2148	LAB
Calcium	7	mg/L		1	EPA 200.7	06/23/2015 2120	DG
Magnesium	3	mg/L		1	EPA 200.7	06/23/2015 2120	DG
Potassium	7	mg/L		1	EPA 200.7	06/23/2015 2120	DG
Sodium	640	mg/L		1	EPA 200.7	06/23/2015 2120	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1236	AMB
Silica as SiO2	8.5	mg/L		0.1	EPA 200.7	06/13/2015 257	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 814	LJK
Electrical Conductivity	2680	µmhos/cm		5	SM 2510B	06/13/2015 814	LJK
Total Dissolved Solids (180)	1780	mg/L		10	SM 2540	06/12/2015 1001	TS
Data Quality							
Cation Sum	28.62	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	26.50	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	3.85	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1740	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-012
ClientSample ID: MU1-OZ-15
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:54:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 257	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 216	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 216	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/13/2015 257	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 216	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 257	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 216	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 257	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 216	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 257	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1039	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 216	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 257	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 216	MS
Uranium	0.138	mg/L		0.0003	EPA 200.8	06/13/2015 216	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 216	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 257	BJ
Radionuclides - Dissolved							
Gross Alpha	643	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	24.0	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	241	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	1.9	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 1209	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 1209	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-005
ClientSample ID: MU1 OZ16
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 11:58:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.66	s.u.			Field	06/10/2015 1158	
Conductivity	1858	µmhos/cm			Field	06/10/2015 1158	
Dissolved Oxygen	4.47	mg/L			Field	06/10/2015 1158	
Turbidity	.46	NTU			Field	06/10/2015 1158	
Temperature	11.7	℃			Field	06/10/2015 1158	
Oxygen Reduction Potential (ORP)	+164	mV			Field	06/10/2015 1158	
Anions/Cations							
Alkalinity, Total (As CaCO3)	534	mg/L		5	SM 2320B	06/12/2015 341	LJK
Alkalinity, Bicarbonate as HCO3	583	mg/L		5	SM 2320B	06/12/2015 341	LJK
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	06/12/2015 341	LJK
Chloride	6	mg/L		1	EPA 300.0	06/15/2015 1507	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/12/2015 341	LJK
Nitrogen, Nitrate+Nitrite (as N)	1.0	mg/L		0.1	EPA 353.2	06/11/2015 1628	AMB
Sulfate	661	mg/L		1	EPA 300.0	06/15/2015 1507	LAB
Calcium	6	mg/L		1	EPA 200.7	06/12/2015 223	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/12/2015 223	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 223	BJ
Sodium	609	mg/L		1	EPA 200.7	06/12/2015 223	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1105	AMB
Silica as SiO2	8.8	mg/L		0.1	EPA 200.7	06/12/2015 223	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/12/2015 341	LJK
Electrical Conductivity	2520	µmhos/cm		5	SM 2510B	06/12/2015 341	LJK
Total Dissolved Solids (180)	1590	mg/L		10	SM 2540	06/11/2015 1414	TS
Data Quality							
Cation Sum	27.13	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	24.69	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	4.69	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1620	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-005
ClientSample ID: MU1 OZ16
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 11:58:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 223	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 1935	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 1935	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 223	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 1935	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 223	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 1935	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 223	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 1935	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 223	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1052	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 1935	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 223	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 1935	MS
Uranium	0.120	mg/L		0.0003	EPA 200.8	06/11/2015 1935	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 1935	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 223	BJ
Radionuclides - Dissolved							
Gross Alpha	196	pCi/L		2	SM 7110B	06/19/2015 002	MB
Gross Alpha Precision (±)	13.5	pCi/L			SM 7110B	06/19/2015 002	MB
Radium 226	24.1	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 1528	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 1528	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-009
ClientSample ID: MU1-OZ-17
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 12:46:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.48	s.u.			Field	06/12/2015 1246	
Conductivity	2091	µmhos/cm			Field	06/12/2015 1246	
Dissolved Oxygen	0.63	mg/L			Field	06/12/2015 1246	
Turbidity	2.65	NTU			Field	06/12/2015 1246	
Depth to Water	116.91	ft			Field	06/12/2015 1246	
Temperature	11.6	℃			Field	06/12/2015 1246	
Oxygen Reduction Potential (ORP)	-190.7	mV			Field	06/12/2015 1246	
Anions/Cations							
Alkalinity, Total (As CaCO3)	574	mg/L		5	SM 2320B	06/16/2015 517	MRL
Alkalinity, Bicarbonate as HCO3	626	mg/L		5	SM 2320B	06/16/2015 517	MRL
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	06/16/2015 517	MRL
Chloride	5	mg/L		1	EPA 300.0	06/18/2015 544	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/16/2015 517	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1843	AMB
Sulfate	638	mg/L		1	EPA 300.0	06/18/2015 544	LAB
Calcium	6	mg/L		1	EPA 200.7	06/16/2015 1616	DG
Magnesium	2	mg/L		1	EPA 200.7	06/16/2015 1616	DG
Potassium	6	mg/L		1	EPA 200.7	06/16/2015 1616	DG
Sodium	574	mg/L		1	EPA 200.7	06/16/2015 1616	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1332	AMB
Silica as SiO2	8.1	mg/L		0.1	EPA 200.7	06/16/2015 1616	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/16/2015 517	MRL
Electrical Conductivity	2350	µmhos/cm		5	SM 2510B	06/16/2015 517	MRL
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	06/15/2015 1646	TS
Data Quality							
Cation Sum	25.61	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	24.91	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	1.38	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1580	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-009
ClientSample ID: MU1-OZ-17
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 12:46:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: PS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1616	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 457	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 457	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/16/2015 1616	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 457	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1616	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 457	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1616	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 457	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1616	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1229	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 457	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1616	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 457	MS
Uranium	0.180	mg/L		0.0003	EPA 200.8	06/16/2015 457	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 457	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1616	DG
Radionuclides - Dissolved							
Gross Alpha	453	pCi/L		2	SM 7110B	06/26/2015 2002	MB
Gross Alpha Precision (±)	19.3	pCi/L			SM 7110B	06/26/2015 2002	MB
Radium 226	76.6	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	1.1	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/02/2015 006	ME
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/02/2015 006	ME

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-010
ClientSample ID: MU1-OZ18
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 2:35:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	06/11/2015 1435	
Conductivity	1728	µmhos/cm			Field	06/11/2015 1435	
Dissolved Oxygen	0.07	mg/L			Field	06/11/2015 1435	
Turbidity	0.61	NTU			Field	06/11/2015 1435	
Depth to Water	93.08	ft			Field	06/11/2015 1435	
Temperature	11.3	℃			Field	06/11/2015 1435	
Oxygen Reduction Potential (ORP)	-195.9	mV			Field	06/11/2015 1435	
Anions/Cations							
Alkalinity, Total (As CaCO3)	579	mg/L		5	SM 2320B	06/13/2015 802	LJK
Alkalinity, Bicarbonate as HCO3	618	mg/L		5	SM 2320B	06/13/2015 802	LJK
Alkalinity, Carbonate as CO3	43	mg/L		5	SM 2320B	06/13/2015 802	LJK
Chloride	5	mg/L		1	EPA 300.0	06/17/2015 2121	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/13/2015 802	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1723	AMB
Sulfate	654	mg/L		1	EPA 300.0	06/17/2015 2121	LAB
Calcium	6	mg/L		1	EPA 200.7	06/13/2015 240	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 240	BJ
Potassium	8	mg/L		1	EPA 200.7	06/13/2015 240	BJ
Sodium	606	mg/L		1	EPA 200.7	06/13/2015 240	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1234	AMB
Silica as SiO2	7.7	mg/L		0.1	EPA 200.7	06/13/2015 240	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 802	LJK
Electrical Conductivity	2520	µmhos/cm		5	SM 2510B	06/13/2015 802	LJK
Total Dissolved Solids (180)	1660	mg/L		10	SM 2540	06/12/2015 959	TS
Data Quality							
Cation Sum	27.12	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	25.36	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	3.35	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1640	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-010
ClientSample ID: MU1-OZ18
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 2:35:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 240	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 154	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 154	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/13/2015 240	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 154	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 240	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 154	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 240	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 154	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 240	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1037	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 154	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 240	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 154	MS
Uranium	0.137	mg/L		0.0003	EPA 200.8	06/13/2015 154	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 154	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 240	BJ
Radionuclides - Dissolved							
Gross Alpha	192	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	13.4	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	4.8	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	1.6	pCi/L		1	Ga-Tech	06/28/2015 808	MB
Radium 228 Precision (±)	1.3	pCi/L			Ga-Tech	06/28/2015 808	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-002
ClientSample ID: MU1 OZ19
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 11:45:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.79	s.u.			Field	06/12/2015 1145	
Conductivity	2345	µmhos/cm			Field	06/12/2015 1145	
Dissolved Oxygen	5.82	mg/L			Field	06/12/2015 1145	
Turbidity	1.51	NTU			Field	06/12/2015 1145	
Temperature	17.5	℃			Field	06/12/2015 1145	
Oxygen Reduction Potential (ORP)	95	mV			Field	06/12/2015 1145	
Anions/Cations							
Alkalinity, Total (As CaCO3)	540	mg/L		5	SM 2320B	06/15/2015 2029	MRL
Alkalinity, Bicarbonate as HCO3	552	mg/L		5	SM 2320B	06/15/2015 2029	MRL
Alkalinity, Carbonate as CO3	52	mg/L		5	SM 2320B	06/15/2015 2029	MRL
Chloride	11	mg/L		1	EPA 300.0	06/17/2015 2229	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/15/2015 2029	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1753	AMB
Sulfate	795	mg/L		1	EPA 300.0	06/17/2015 2229	LAB
Calcium	6	mg/L		1	EPA 200.7	06/15/2015 1926	DG
Magnesium	2	mg/L		1	EPA 200.7	06/15/2015 1926	DG
Potassium	13	mg/L		1	EPA 200.7	06/15/2015 1926	DG
Sodium	646	mg/L		1	EPA 200.7	06/15/2015 1926	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1248	AMB
Silica as SiO2	8.3	mg/L		0.1	EPA 200.7	06/15/2015 1926	DG
General Parameters							
pH	8.9	s.u.		0.1	SM 4500 H B	06/15/2015 2029	MRL
Electrical Conductivity	2580	µmhos/cm		5	SM 2510B	06/15/2015 2029	MRL
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	06/15/2015 1607	TS
Data Quality							
Cation Sum	28.90	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	27.64	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	2.22	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1800	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-002
ClientSample ID: MU1 OZ19
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 11:45:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 1926	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 029	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 029	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/15/2015 1926	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 029	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1926	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 029	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1926	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 029	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1926	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1119	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 029	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1926	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 029	MS
Uranium	0.0020	mg/L		0.0003	EPA 200.8	06/16/2015 029	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 029	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 1926	DG
Radionuclides - Dissolved							
Gross Alpha	5.9	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	3.1	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 1812	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 1812	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-007
ClientSample ID: MU1 OZ20
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 1:01:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.57	s.u.			Field	06/10/2015 1301	
Conductivity	1865	µmhos/cm			Field	06/10/2015 1301	
Dissolved Oxygen	3.28	mg/L			Field	06/10/2015 1301	
Turbidity	.96	NTU			Field	06/10/2015 1301	
Temperature	12.5	℃			Field	06/10/2015 1301	
Oxygen Reduction Potential (ORP)	+159	mV			Field	06/10/2015 1301	
Anions/Cations							
Alkalinity, Total (As CaCO3)	547	mg/L		5	SM 2320B	06/12/2015 406	LJK
Alkalinity, Bicarbonate as HCO3	605	mg/L		5	SM 2320B	06/12/2015 406	LJK
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	06/12/2015 406	LJK
Chloride	5	mg/L		1	EPA 300.0	06/15/2015 1534	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/12/2015 406	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1631	AMB
Sulfate	642	mg/L		1	EPA 300.0	06/15/2015 1534	LAB
Calcium	7	mg/L		1	EPA 200.7	06/12/2015 239	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 239	BJ
Potassium	7	mg/L		1	EPA 200.7	06/12/2015 239	BJ
Sodium	587	mg/L		1	EPA 200.7	06/12/2015 239	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1108	AMB
Silica as SiO2	8.6	mg/L		0.1	EPA 200.7	06/12/2015 239	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 406	LJK
Electrical Conductivity	2470	µmhos/cm		5	SM 2510B	06/12/2015 406	LJK
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	06/11/2015 1416	TS
Data Quality							
Cation Sum	26.33	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	24.46	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	3.68	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1590	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-007
ClientSample ID: MU1 OZ20
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 1:01:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 239	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 1957	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 1957	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 239	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 1957	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 239	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 1957	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 239	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 1957	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 239	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1056	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 1957	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 239	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 1957	MS
Uranium	0.0282	mg/L		0.0003	EPA 200.8	06/11/2015 1957	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 1957	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 239	BJ
Radionuclides - Dissolved							
Gross Alpha	41.7	pCi/L		2	SM 7110B	06/19/2015 2117	MB
Gross Alpha Precision (±)	6.8	pCi/L			SM 7110B	06/19/2015 2117	MB
Radium 226	2.2	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1347	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/18/2015 1347	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 1929	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 1929	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-013
ClientSample ID: MU1-OZ-21
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 3:16:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.49	s.u.			Field	06/11/2015 1516	
Conductivity	2071	µmhos/cm			Field	06/11/2015 1516	
Dissolved Oxygen	2.69	mg/L			Field	06/11/2015 1516	
Turbidity	0.93	NTU			Field	06/11/2015 1516	
Depth to Water	114.11	ft			Field	06/11/2015 1516	
Temperature	11.4	℃			Field	06/11/2015 1516	
Oxygen Reduction Potential (ORP)	-44.4	mV			Field	06/11/2015 1516	
Anions/Cations							
Alkalinity, Total (As CaCO3)	544	mg/L		5	SM 2320B	06/13/2015 827	LJK
Alkalinity, Bicarbonate as HCO3	594	mg/L		5	SM 2320B	06/13/2015 827	LJK
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	06/13/2015 827	LJK
Chloride	6	mg/L		1	EPA 300.0	06/17/2015 2202	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/13/2015 827	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1726	AMB
Sulfate	726	mg/L		1	EPA 300.0	06/17/2015 2202	LAB
Calcium	8	mg/L		1	EPA 200.7	06/13/2015 301	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 301	BJ
Potassium	7	mg/L		1	EPA 200.7	06/13/2015 301	BJ
Sodium	642	mg/L		1	EPA 200.7	06/13/2015 301	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1237	AMB
Silica as SiO2	8.1	mg/L		0.1	EPA 200.7	06/13/2015 301	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 827	LJK
Electrical Conductivity	2570	µmhos/cm		5	SM 2510B	06/13/2015 827	LJK
Total Dissolved Solids (180)	1720	mg/L		10	SM 2540	06/12/2015 1002	TS
Data Quality							
Cation Sum	28.79	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	26.18	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	4.73	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1730	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-013
ClientSample ID: MU1-OZ-21
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 3:16:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 301	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 222	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 222	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/13/2015 301	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 222	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 301	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 222	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 301	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 222	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 301	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1041	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 222	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 301	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 222	MS
Uranium	0.0609	mg/L		0.0003	EPA 200.8	06/13/2015 222	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 222	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 301	BJ
Radionuclides - Dissolved							
Gross Alpha	193	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	13.5	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	35.0	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	0.7	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 1410	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 1410	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-004
ClientSample ID: MU1 OZ22
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 2:32:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.52	s.u.			Field	06/15/2015 1432	
Conductivity	1572	µmhos/cm			Field	06/15/2015 1432	
Dissolved Oxygen	5.80	mg/L			Field	06/15/2015 1432	
Turbidity	0.51	NTU			Field	06/15/2015 1432	
Temperature	12.5	℃			Field	06/15/2015 1432	
Oxygen Reduction Potential (ORP)	+111	mV			Field	06/15/2015 1432	
Anions/Cations							
Alkalinity, Total (As CaCO3)	573	mg/L		5	SM 2320B	06/17/2015 2311	LJK
Alkalinity, Bicarbonate as HCO3	635	mg/L		5	SM 2320B	06/17/2015 2311	LJK
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	06/17/2015 2311	LJK
Chloride	4	mg/L		1	EPA 300.0	06/18/2015 2124	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/17/2015 2311	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/20/2015 1028	AMB
Sulfate	450	mg/L		1	EPA 300.0	06/18/2015 2124	AB
Calcium	5	mg/L		1	EPA 200.7	06/18/2015 1606	DG
Magnesium	2	mg/L		1	EPA 200.7	06/18/2015 1606	DG
Potassium	7	mg/L		1	EPA 200.7	06/18/2015 1606	DG
Sodium	493	mg/L		1	EPA 200.7	06/18/2015 1606	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/19/2015 1109	AMB
Silica as SiO2	8.3	mg/L		0.1	EPA 200.7	06/18/2015 1606	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/17/2015 2311	LJK
Electrical Conductivity	2010	µmhos/cm		5	SM 2510B	06/17/2015 2311	LJK
Total Dissolved Solids (180)	1340	mg/L		10	SM 2540	06/17/2015 1457	TS
Data Quality							
Cation Sum	22.09	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Anion Sum	20.97	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Cation-Anion Balance (± 5%)	2.59	%		0.01	SM 1030E	06/23/2015 835	JJ
Solids, Total Dissolved (Calc)	1310	mg/L		10	SM 1030E	06/23/2015 835	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-004
ClientSample ID: MU1 OZ22
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 2:32:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/18/2015 1606	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/17/2015 1845	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/17/2015 1845	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/18/2015 1606	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/17/2015 1845	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/18/2015 1606	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/17/2015 1845	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/18/2015 1606	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/17/2015 1845	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/18/2015 1606	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/23/2015 906	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/17/2015 1845	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/18/2015 1606	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/17/2015 1845	MS
Uranium	0.0731	mg/L		0.0003	EPA 200.8	06/17/2015 1845	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/17/2015 1845	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/18/2015 1606	DG
Radionuclides - Dissolved							
Gross Alpha	247	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	247	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	59.2	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 1620	MB
Radium 226 Precision (±)	1.0	pCi/L			SM 7500 Ra-B	06/23/2015 1620	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/01/2015 311	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/01/2015 311	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-006
ClientSample ID: MU1 OZ23
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:53:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.51	s.u.			Field	06/11/2015 1253	
Conductivity	1781	µmhos/cm			Field	06/11/2015 1253	
Dissolved Oxygen	7.09	mg/L			Field	06/11/2015 1253	
Turbidity	.95	NTU			Field	06/11/2015 1253	
Temperature	12.8	℃			Field	06/11/2015 1253	
Oxygen Reduction Potential (ORP)	127	mV			Field	06/11/2015 1253	
Anions/Cations							
Alkalinity, Total (As CaCO3)	560	mg/L		5	SM 2320B	06/13/2015 639	LJK
Alkalinity, Bicarbonate as HCO3	620	mg/L		5	SM 2320B	06/13/2015 639	LJK
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	06/13/2015 639	LJK
Chloride	6	mg/L		1	EPA 300.0	06/17/2015 1919	LAB
Fluoride	0.2	mg/L		0.1	SM 4500FC	06/13/2015 639	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1708	AMB
Sulfate	584	mg/L		1	EPA 300.0	06/17/2015 1919	LAB
Calcium	8	mg/L		1	EPA 200.7	06/13/2015 229	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 229	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 229	BJ
Sodium	559	mg/L		1	EPA 200.7	06/13/2015 229	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1229	AMB
Silica as SiO2	8.4	mg/L		0.1	EPA 200.7	06/13/2015 229	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 639	LJK
Electrical Conductivity	2330	µmhos/cm		5	SM 2510B	06/13/2015 639	LJK
Total Dissolved Solids (180)	1540	mg/L		10	SM 2540	06/12/2015 955	TS
Data Quality							
Cation Sum	25.12	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	23.55	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	3.22	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1510	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-006
ClientSample ID: MU1 OZ23
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:53:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 229	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 055	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 055	MS
Boron	0.3	mg/L		0.1	EPA 200.7	06/13/2015 229	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 055	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 229	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 055	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 229	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 055	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 229	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1029	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 055	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 229	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 055	MS
Uranium	0.0015	mg/L		0.0003	EPA 200.8	06/13/2015 055	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 055	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/13/2015 229	BJ
Radionuclides - Dissolved							
Gross Alpha	2.8	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	2.8	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 005	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 005	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-005
ClientSample ID: MU1-OZ24
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 3:07:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	06/11/2015 1507	
Conductivity	2280	µmhos/cm			Field	06/11/2015 1507	
Dissolved Oxygen	0.63	mg/L			Field	06/11/2015 1507	
Turbidity	1.00	NTU			Field	06/11/2015 1507	
Depth to Water	96.71	ft			Field	06/11/2015 1507	
Temperature	11.6	℃			Field	06/11/2015 1507	
Oxygen Reduction Potential (ORP)	-137.6	mV			Field	06/11/2015 1507	
Anions/Cations							
Alkalinity, Total (As CaCO3)	549	mg/L		5	SM 2320B	06/13/2015 627	LJK
Alkalinity, Bicarbonate as HCO3	608	mg/L		5	SM 2320B	06/13/2015 627	LJK
Alkalinity, Carbonate as CO3	31	mg/L		5	SM 2320B	06/13/2015 627	LJK
Chloride	7	mg/L		1	EPA 300.0	06/17/2015 1905	LAB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/13/2015 627	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1707	AMB
Sulfate	758	mg/L		1	EPA 300.0	06/17/2015 1905	LAB
Calcium	8	mg/L		1	EPA 200.7	06/13/2015 227	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 227	BJ
Potassium	6	mg/L		1	EPA 200.7	06/13/2015 227	BJ
Sodium	650	mg/L		1	EPA 200.7	06/13/2015 227	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1228	AMB
Silica as SiO2	8.4	mg/L		0.1	EPA 200.7	06/13/2015 227	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 627	LJK
Electrical Conductivity	2650	µmhos/cm		5	SM 2510B	06/13/2015 627	LJK
Total Dissolved Solids (180)	1750	mg/L		10	SM 2540	06/12/2015 954	TS
Data Quality							
Cation Sum	29.12	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	26.98	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	3.81	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1770	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-005
ClientSample ID: MU1-OZ24
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 3:07:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 227	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 050	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 050	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 227	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 050	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 227	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 050	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 227	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 050	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 227	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1021	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 050	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 227	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 050	MS
Uranium	0.0366	mg/L		0.0003	EPA 200.8	06/13/2015 050	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 050	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 227	BJ
Radionuclides - Dissolved							
Gross Alpha	118	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	11.0	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	25.9	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.6	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/27/2015 2204	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/27/2015 2204	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-003
ClientSample ID: MU1-OZ25
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/11/2015 4:35:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.42	s.u.			Field	06/11/2015 1635	
Conductivity	1905	µmhos/cm			Field	06/11/2015 1635	
Dissolved Oxygen	2.88	mg/L			Field	06/11/2015 1635	
Turbidity	22.1	NTU			Field	06/11/2015 1635	
Depth to Water	116.06	ft			Field	06/11/2015 1635	
Temperature	12.0	℃			Field	06/11/2015 1635	
Oxygen Reduction Potential (ORP)	-20.3	mV			Field	06/11/2015 1635	
Anions/Cations							
Alkalinity, Total (As CaCO3)	542	mg/L		5	SM 2320B	06/16/2015 341	MRL
Alkalinity, Bicarbonate as HCO3	593	mg/L		5	SM 2320B	06/16/2015 341	MRL
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/16/2015 341	MRL
Chloride	8	mg/L		1	EPA 300.0	06/18/2015 423	LAB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/16/2015 341	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1834	AMB
Sulfate	807	mg/L		1	EPA 300.0	06/18/2015 423	LAB
Calcium	8	mg/L		1	EPA 200.7	06/16/2015 1549	DG
Magnesium	3	mg/L		1	EPA 200.7	06/16/2015 1549	DG
Potassium	8	mg/L		1	EPA 200.7	06/16/2015 1549	DG
Sodium	661	mg/L		1	EPA 200.7	06/16/2015 1549	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1316	AMB
Silica as SiO2	8.3	mg/L		0.1	EPA 200.7	06/16/2015 1549	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/16/2015 341	MRL
Electrical Conductivity	2610	µmhos/cm		5	SM 2510B	06/16/2015 341	MRL
Total Dissolved Solids (180)	1780	mg/L		10	SM 2540	06/15/2015 1640	TS
Data Quality							
Cation Sum	29.66	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	27.87	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	3.11	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1830	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-003
ClientSample ID: MU1-OZ25
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/11/2015 4:35:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1549	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 357	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 357	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/16/2015 1549	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 357	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1549	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 357	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1549	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 357	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1549	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1208	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 357	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1549	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 357	MS
Uranium	0.0413	mg/L		0.0003	EPA 200.8	06/16/2015 357	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 357	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1549	DG
Radionuclides - Dissolved							
Gross Alpha	51.3	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	7.6	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	2.9	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 1104	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 1104	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-009
ClientSample ID: MU1 OZ26
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 2:20:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.44	s.u.			Field	06/10/2015 1420	
Conductivity	1860	µmhos/cm			Field	06/10/2015 1420	
Dissolved Oxygen	5.23	mg/L			Field	06/10/2015 1420	
Turbidity	1.37	NTU			Field	06/10/2015 1420	
Temperature	12.2	℃			Field	06/10/2015 1420	
Oxygen Reduction Potential (ORP)	+163	mV			Field	06/10/2015 1420	
Anions/Cations							
Alkalinity, Total (As CaCO3)	561	mg/L		5	SM 2320B	06/12/2015 450	LJK
Alkalinity, Bicarbonate as HCO3	628	mg/L		5	SM 2320B	06/12/2015 450	LJK
Alkalinity, Carbonate as CO3	28	mg/L		5	SM 2320B	06/12/2015 450	LJK
Chloride	5	mg/L		1	EPA 300.0	06/15/2015 1602	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/12/2015 450	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1643	AMB
Sulfate	633	mg/L		1	EPA 300.0	06/15/2015 1602	LAB
Calcium	7	mg/L		1	EPA 200.7	06/12/2015 244	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 244	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 244	BJ
Sodium	588	mg/L		1	EPA 200.7	06/12/2015 244	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1110	AMB
Silica as SiO2	8.6	mg/L		0.1	EPA 200.7	06/12/2015 244	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 450	LJK
Electrical Conductivity	2430	µmhos/cm		5	SM 2510B	06/12/2015 450	LJK
Total Dissolved Solids (180)	1550	mg/L		10	SM 2540	06/11/2015 1418	TS
Data Quality							
Cation Sum	26.38	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	24.56	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	3.57	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1590	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-009
ClientSample ID: MU1 OZ26
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 2:20:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 244	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2008	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2008	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 244	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2008	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 244	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2008	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 244	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2008	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 244	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1100	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2008	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 244	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2008	MS
Uranium	0.0441	mg/L		0.0003	EPA 200.8	06/11/2015 2008	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2008	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 244	BJ
Radionuclides - Dissolved							
Gross Alpha	114	pCi/L		2	SM 7110B	06/19/2015 2117	MB
Gross Alpha Precision (±)	10.2	pCi/L			SM 7110B	06/19/2015 2117	MB
Radium 226	14.8	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1347	MB
Radium 226 Precision (±)	0.5	pCi/L			SM 7500 Ra-B	06/18/2015 1347	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 2331	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 2331	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-010
ClientSample ID: MU1 PM1
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 2:36:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.54	s.u.			Field	06/10/2015 1436	
Conductivity	1923	µmhos/cm			Field	06/10/2015 1436	
Dissolved Oxygen	3.66	mg/L			Field	06/10/2015 1436	
Turbidity	1.47	NTU			Field	06/10/2015 1436	
Temperature	13.7	℃			Field	06/10/2015 1436	
Oxygen Reduction Potential (ORP)	+147	mV			Field	06/10/2015 1436	
Anions/Cations							
Alkalinity, Total (As CaCO3)	631	mg/L		5	SM 2320B	06/12/2015 504	LJK
Alkalinity, Bicarbonate as HCO3	702	mg/L		5	SM 2320B	06/12/2015 504	LJK
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	06/12/2015 504	LJK
Chloride	6	mg/L		1	EPA 300.0	06/15/2015 1615	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/12/2015 504	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1644	AMB
Sulfate	614	mg/L		1	EPA 300.0	06/15/2015 1615	LAB
Calcium	8	mg/L		1	EPA 200.7	06/12/2015 246	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 246	BJ
Potassium	7	mg/L		1	EPA 200.7	06/12/2015 246	BJ
Sodium	597	mg/L		1	EPA 200.7	06/12/2015 246	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1112	AMB
Silica as SiO2	8.3	mg/L		0.1	EPA 200.7	06/12/2015 246	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 504	LJK
Electrical Conductivity	2460	µmhos/cm		5	SM 2510B	06/12/2015 504	LJK
Total Dissolved Solids (180)	1560	mg/L		10	SM 2540	06/11/2015 1419	TS
Data Quality							
Cation Sum	26.83	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	25.62	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	2.29	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1620	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-010
ClientSample ID: MU1 PM1
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 2:36:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 246	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2014	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2014	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/12/2015 246	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2014	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 246	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2014	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 246	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2014	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 246	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1102	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2014	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 246	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2014	MS
Uranium	0.0165	mg/L		0.0003	EPA 200.8	06/11/2015 2014	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2014	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 246	BJ
Radionuclides - Dissolved							
Gross Alpha	33.8	pCi/L		2	SM 7110B	06/19/2015 2117	MB
Gross Alpha Precision (±)	5.9	pCi/L			SM 7110B	06/19/2015 2117	MB
Radium 226	2.7	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1347	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/18/2015 1347	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 132	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 132	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-003
ClientSample ID: MU1 PM2
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:01:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.54	s.u.			Field	06/11/2015 901	
Conductivity	1809	µmhos/cm			Field	06/11/2015 901	
Dissolved Oxygen	4.4	mg/L			Field	06/11/2015 901	
Turbidity	3.05	NTU			Field	06/11/2015 901	
Temperature	11.4	℃			Field	06/11/2015 901	
Oxygen Reduction Potential (ORP)	+105	mV			Field	06/11/2015 901	
Anions/Cations							
Alkalinity, Total (As CaCO3)	561	mg/L		5	SM 2320B	06/13/2015 236	LJK
Alkalinity, Bicarbonate as HCO3	620	mg/L		5	SM 2320B	06/13/2015 236	LJK
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	06/13/2015 236	LJK
Chloride	5	mg/L		1	EPA 300.0	06/17/2015 1231	LAB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/13/2015 236	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1306	AMB
Sulfate	631	mg/L		1	EPA 300.0	06/17/2015 1231	LAB
Calcium	7	mg/L		1	EPA 200.7	06/13/2015 110	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 110	BJ
Potassium	5	mg/L		1	EPA 200.7	06/15/2015 1324	DG
Sodium	599	mg/L		1	EPA 200.7	06/13/2015 110	BJ
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1150	AMB
Silica as SiO2	8.2	mg/L		0.1	EPA 200.7	06/13/2015 110	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 236	LJK
Electrical Conductivity	2390	µmhos/cm		5	SM 2510B	06/13/2015 236	LJK
Total Dissolved Solids (180)	1590	mg/L		10	SM 2540	06/12/2015 937	TS
Data Quality							
Cation Sum	26.79	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	24.56	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	4.34	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1600	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-003
ClientSample ID: MU1 PM2
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:01:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 110	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2244	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2244	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 110	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2244	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 110	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2244	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 110	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2244	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 110	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1252	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2244	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 110	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2244	MS
Uranium	0.0172	mg/L		0.0003	EPA 200.8	06/12/2015 2244	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2244	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 110	BJ
Radionuclides - Dissolved							
Gross Alpha	25.8	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	4.9	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	0.7	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 246	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 246	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-006
ClientSample ID: MU1 PM3
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 10:00:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.74	s.u.			Field	06/11/2015 1000	
Conductivity	1603	µmhos/cm			Field	06/11/2015 1000	
Dissolved Oxygen	4.71	mg/L			Field	06/11/2015 1000	
Turbidity	2.29	NTU			Field	06/11/2015 1000	
Temperature	11.3	℃			Field	06/11/2015 1000	
Oxygen Reduction Potential (ORP)	-151	mV			Field	06/11/2015 1000	
Anions/Cations							
Alkalinity, Total (As CaCO3)	646	mg/L		5	SM 2320B	06/13/2015 328	LJK
Alkalinity, Bicarbonate as HCO3	697	mg/L		5	SM 2320B	06/13/2015 328	LJK
Alkalinity, Carbonate as CO3	45	mg/L		5	SM 2320B	06/13/2015 328	LJK
Chloride	5	mg/L		1	EPA 300.0	06/17/2015 1419	LAB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/13/2015 328	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1319	AMB
Sulfate	439	mg/L		1	EPA 300.0	06/17/2015 1419	LAB
Calcium	5	mg/L		1	EPA 200.7	06/13/2015 129	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/13/2015 129	BJ
Potassium	9	mg/L		1	EPA 200.7	06/15/2015 1331	DG
Sodium	546	mg/L		1	EPA 200.7	06/13/2015 129	BJ
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1154	AMB
Silica as SiO2	7.7	mg/L		0.1	EPA 200.7	06/13/2015 129	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 328	LJK
Electrical Conductivity	2140	µmhos/cm		5	SM 2510B	06/13/2015 328	LJK
Total Dissolved Solids (180)	1400	mg/L		10	SM 2540	06/12/2015 940	TS
Data Quality							
Cation Sum	24.38	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	22.24	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	4.60	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1400	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-006
ClientSample ID: MU1 PM3
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 10:00:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 129	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2312	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2312	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 129	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2312	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 129	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2312	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 129	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2312	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 129	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1258	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2312	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 129	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2312	MS
Uranium	0.0091	mg/L		0.0003	EPA 200.8	06/12/2015 2312	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2312	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 129	BJ
Radionuclides - Dissolved							
Gross Alpha	15.5	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	4.5	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	1.2	pCi/L		1	Ga-Tech	06/26/2015 848	MB
Radium 228 Precision (±)	1.2	pCi/L			Ga-Tech	06/26/2015 848	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-012
ClientSample ID: MU1 PM4
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 12:04:00 PM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.52	s.u.			Field	06/11/2015 1204	
Conductivity	1741	µmhos/cm			Field	06/11/2015 1204	
Dissolved Oxygen	27.2	mg/L			Field	06/11/2015 1204	
Turbidity	3.34	NTU			Field	06/11/2015 1204	
Temperature	12.0	℃			Field	06/11/2015 1204	
Oxygen Reduction Potential (ORP)	-278	mV			Field	06/11/2015 1204	
Anions/Cations							
Alkalinity, Total (As CaCO3)	647	mg/L		5	SM 2320B	06/13/2015 446	LJK
Alkalinity, Bicarbonate as HCO3	715	mg/L		5	SM 2320B	06/13/2015 446	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/13/2015 446	LJK
Chloride	6	mg/L		1	EPA 300.0	06/17/2015 1541	LAB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/13/2015 446	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1328	AMB
Sulfate	529	mg/L		1	EPA 300.0	06/17/2015 1541	LAB
Calcium	7	mg/L		1	EPA 200.7	06/13/2015 156	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 156	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 156	BJ
Sodium	565	mg/L		1	EPA 200.7	06/13/2015 156	BJ
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1210	AMB
Silica as SiO2	8.0	mg/L		0.1	EPA 200.7	06/13/2015 156	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 446	LJK
Electrical Conductivity	2320	µmhos/cm		5	SM 2510B	06/13/2015 446	LJK
Total Dissolved Solids (180)	1530	mg/L		10	SM 2540	06/12/2015 947	TS
Data Quality							
Cation Sum	25.28	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	24.14	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	2.29	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1510	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-012
ClientSample ID: MU1 PM4
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 12:04:00 PM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 156	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 011	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 011	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 156	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 011	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 156	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 011	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 156	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 011	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 156	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1323	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 011	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 156	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 011	MS
Uranium	0.0048	mg/L		0.0003	EPA 200.8	06/13/2015 011	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 011	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 156	BJ
Radionuclides - Dissolved							
Gross Alpha	12.0	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	3.9	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1121	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 2053	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 2053	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-014
ClientSample ID: MU1 PM5
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 12:42:00 PM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.62	s.u.			Field	06/11/2015 1242	
Conductivity	1469	µmhos/cm			Field	06/11/2015 1242	
Dissolved Oxygen	4.78	mg/L			Field	06/11/2015 1242	
Turbidity	.72	NTU			Field	06/11/2015 1242	
Temperature	11.6	℃			Field	06/11/2015 1242	
Oxygen Reduction Potential (ORP)	-256	mV			Field	06/11/2015 1242	
Anions/Cations							
Alkalinity, Total (As CaCO3)	702	mg/L		5	SM 2320B	06/13/2015 524	LJK
Alkalinity, Bicarbonate as HCO3	772	mg/L		5	SM 2320B	06/13/2015 524	LJK
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	06/13/2015 524	LJK
Chloride	4	mg/L		1	EPA 300.0	06/17/2015 1608	LAB
Fluoride	1.2	mg/L		0.1	SM 4500FC	06/13/2015 524	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 951	AMB
Sulfate	353	mg/L		1	EPA 300.0	06/17/2015 1608	LAB
Calcium	5	mg/L		1	EPA 200.7	06/13/2015 201	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/13/2015 201	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 201	BJ
Sodium	490	mg/L		1	EPA 200.7	06/13/2015 201	BJ
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1213	AMB
Silica as SiO2	7.9	mg/L		0.1	EPA 200.7	06/13/2015 201	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 524	LJK
Electrical Conductivity	1960	µmhos/cm		5	SM 2510B	06/13/2015 524	LJK
Total Dissolved Solids (180)	1270	mg/L		10	SM 2540	06/12/2015 949	TS
Data Quality							
Cation Sum	21.86	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	21.57	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	0.66	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1290	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-014
ClientSample ID: MU1 PM5
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 12:42:00 PM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 201	BJ
Arsenic	0.007	mg/L		0.005	EPA 200.8	06/13/2015 022	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 022	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/13/2015 201	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 022	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 201	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 022	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 201	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 022	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 201	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1327	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 022	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 201	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 022	MS
Uranium	0.0010	mg/L		0.0003	EPA 200.8	06/13/2015 022	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 022	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 201	BJ
Radionuclides - Dissolved							
Gross Alpha	3.1	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/27/2015 055	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/27/2015 055	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-001
ClientSample ID: MU1 PM6
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 2:00:00 PM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.68	s.u.			Field	06/11/2015 1400	
Conductivity	1790	µmhos/cm			Field	06/11/2015 1400	
Dissolved Oxygen	4.74	mg/L			Field	06/11/2015 1400	
Turbidity	7.23	NTU			Field	06/11/2015 1400	
Temperature	11.8	℃			Field	06/11/2015 1400	
Oxygen Reduction Potential (ORP)	+81	mV			Field	06/11/2015 1400	
Anions/Cations							
Alkalinity, Total (As CaCO3)	645	mg/L		5	SM 2320B	06/13/2015 211	LJK
Alkalinity, Bicarbonate as HCO3	713	mg/L		5	SM 2320B	06/13/2015 211	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/13/2015 211	LJK
Chloride	7	mg/L		1	EPA 300.0	06/18/2015 1733	AB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/13/2015 211	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1303	AMB
Sulfate	593	mg/L		1	EPA 300.0	06/17/2015 1203	LAB
Calcium	6	mg/L		1	EPA 200.7	06/13/2015 311	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 311	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 311	BJ
Sodium	572	mg/L		1	EPA 200.7	06/13/2015 311	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1148	AMB
Silica as SiO2	8.6	mg/L		0.1	EPA 200.7	06/13/2015 311	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 211	LJK
Electrical Conductivity	2350	µmhos/cm		5	SM 2510B	06/13/2015 211	LJK
Total Dissolved Solids (180)	1610	mg/L		10	SM 2540	06/12/2015 935	TS
Data Quality							
Cation Sum	25.57	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	25.49	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	0.15	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1580	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-001
ClientSample ID: MU1 PM6
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 2:00:00 PM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 311	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2218	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2218	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 311	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2218	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 311	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2218	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 311	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2218	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 311	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1248	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2218	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 311	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2218	MS
Uranium	0.0471	mg/L		0.0003	EPA 200.8	06/12/2015 2218	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2218	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 311	BJ
Radionuclides - Dissolved							
Gross Alpha	50.8	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	7.1	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/25/2015 2244	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/25/2015 2244	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-007
ClientSample ID: MU1 PM7
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:58:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.65	s.u.			Field	06/11/2015 1258	
Conductivity	1637	µmhos/cm			Field	06/11/2015 1258	
Dissolved Oxygen	5.22	mg/L			Field	06/11/2015 1258	
Turbidity	.31	NTU			Field	06/11/2015 1258	
Temperature	12.0	℃			Field	06/11/2015 1258	
Oxygen Reduction Potential (ORP)	-164	mV			Field	06/11/2015 1258	
Anions/Cations							
Alkalinity, Total (As CaCO3)	656	mg/L		5	SM 2320B	06/13/2015 713	LJK
Alkalinity, Bicarbonate as HCO3	712	mg/L		5	SM 2320B	06/13/2015 713	LJK
Alkalinity, Carbonate as CO3	44	mg/L		5	SM 2320B	06/13/2015 713	LJK
Chloride	4	mg/L		1	EPA 300.0	06/17/2015 1932	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/13/2015 713	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1719	AMB
Sulfate	446	mg/L		1	EPA 300.0	06/17/2015 1932	LAB
Calcium	5	mg/L		1	EPA 200.7	06/13/2015 231	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/13/2015 231	BJ
Potassium	6	mg/L		1	EPA 200.7	06/13/2015 231	BJ
Sodium	521	mg/L		1	EPA 200.7	06/13/2015 231	BJ
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1230	AMB
Silica as SiO2	7.5	mg/L		0.1	EPA 200.7	06/13/2015 231	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 713	LJK
Electrical Conductivity	2170	µmhos/cm		5	SM 2510B	06/13/2015 713	LJK
Total Dissolved Solids (180)	1420	mg/L		10	SM 2540	06/12/2015 956	TS
Data Quality							
Cation Sum	23.26	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	22.58	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	1.48	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1390	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-007
ClientSample ID: MU1 PM7
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:58:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 231	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 122	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 122	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 231	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 122	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 231	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 122	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 231	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 122	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 231	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1031	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 122	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 231	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 122	MS
Uranium	0.0327	mg/L		0.0003	EPA 200.8	06/13/2015 122	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 122	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 231	BJ
Radionuclides - Dissolved							
Gross Alpha	35.4	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	5.8	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 205	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 205	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-011
ClientSample ID: MU1 PM8
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 12:15:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.52	s.u.			Field	06/10/2015 1215	
Conductivity	1901	µmhos/cm			Field	06/10/2015 1215	
Dissolved Oxygen	3.43	mg/L			Field	06/10/2015 1215	
Turbidity	1.89	NTU			Field	06/10/2015 1215	
Temperature	12.2	℃			Field	06/10/2015 1215	
Oxygen Reduction Potential (ORP)	+167	mV			Field	06/10/2015 1215	
Anions/Cations							
Alkalinity, Total (As CaCO3)	611	mg/L		5	SM 2320B	06/12/2015 516	LJK
Alkalinity, Bicarbonate as HCO3	676	mg/L		5	SM 2320B	06/12/2015 516	LJK
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	06/12/2015 516	LJK
Chloride	6	mg/L		1	EPA 300.0	06/15/2015 1629	LAB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/12/2015 516	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1646	AMB
Sulfate	636	mg/L		1	EPA 300.0	06/15/2015 1629	LAB
Calcium	7	mg/L		1	EPA 200.7	06/12/2015 249	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 249	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 249	BJ
Sodium	616	mg/L		1	EPA 200.7	06/12/2015 249	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1121	AMB
Silica as SiO2	8.5	mg/L		0.1	EPA 200.7	06/12/2015 249	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 516	LJK
Electrical Conductivity	2560	µmhos/cm		5	SM 2510B	06/12/2015 516	LJK
Total Dissolved Solids (180)	1630	mg/L		10	SM 2540	06/11/2015 1421	TS
Data Quality							
Cation Sum	27.61	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	25.63	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	3.72	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1650	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-011
ClientSample ID: MU1 PM8
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 12:15:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 249	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2019	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2019	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 249	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2019	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 249	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2019	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 249	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2019	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 249	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1103	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2019	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 249	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2019	MS
Uranium	0.0660	mg/L		0.0003	EPA 200.8	06/11/2015 2019	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2019	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 249	BJ
Radionuclides - Dissolved							
Gross Alpha	82.3	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	8.3	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1122	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1122	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 333	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 333	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-004
ClientSample ID: MU1 PM9
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 10:25:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.53	s.u.			Field	06/10/2015 1025	
Conductivity	1910	µmhos/cm			Field	06/10/2015 1025	
Dissolved Oxygen	4.65	mg/L			Field	06/10/2015 1025	
Turbidity	2.27	NTU			Field	06/10/2015 1025	
Temperature	11.5	℃			Field	06/10/2015 1025	
Oxygen Reduction Potential (ORP)	+162	mV			Field	06/10/2015 1025	
Anions/Cations							
Alkalinity, Total (As CaCO3)	604	mg/L		5	SM 2320B	06/12/2015 317	LJK
Alkalinity, Bicarbonate as HCO3	676	mg/L		5	SM 2320B	06/12/2015 317	LJK
Alkalinity, Carbonate as CO3	30	mg/L		5	SM 2320B	06/12/2015 317	LJK
Chloride	6	mg/L		1	EPA 300.0	06/15/2015 1453	LAB
Fluoride	0.4	mg/L		0.1	SM 4500FC	06/12/2015 317	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1626	AMB
Sulfate	648	mg/L		1	EPA 300.0	06/15/2015 1453	LAB
Calcium	7	mg/L		1	EPA 200.7	06/12/2015 218	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 218	BJ
Potassium	7	mg/L		1	EPA 200.7	06/12/2015 218	BJ
Sodium	624	mg/L		1	EPA 200.7	06/12/2015 218	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1104	AMB
Silica as SiO2	8.5	mg/L		0.1	EPA 200.7	06/12/2015 218	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 317	LJK
Electrical Conductivity	2560	µmhos/cm		5	SM 2510B	06/12/2015 317	LJK
Total Dissolved Solids (180)	1650	mg/L		10	SM 2540	06/11/2015 1413	TS
Data Quality							
Cation Sum	27.93	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	25.77	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	4.01	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1670	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-004
ClientSample ID: MU1 PM9
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 10:25:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 218	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 1930	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 1930	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 218	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 1930	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 218	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 1930	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 218	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 1930	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 218	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1050	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 1930	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 218	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 1930	MS
Uranium	0.0429	mg/L		0.0003	EPA 200.8	06/11/2015 1930	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 1930	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 218	BJ
Radionuclides - Dissolved							
Gross Alpha	67.9	pCi/L		2	SM 7110B	06/19/2015 002	MB
Gross Alpha Precision (±)	8.3	pCi/L			SM 7110B	06/19/2015 002	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 1327	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 1327	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-001
ClientSample ID: MU1 PM10
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 9:51:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.61	s.u.			Field	06/10/2015 951	
Conductivity	2047	µmhos/cm			Field	06/10/2015 951	
Dissolved Oxygen	4.26	mg/L			Field	06/10/2015 951	
Turbidity	.90	NTU			Field	06/10/2015 951	
Temperature	11.3	℃			Field	06/10/2015 951	
Oxygen Reduction Potential (ORP)	-163	mV			Field	06/10/2015 951	
Anions/Cations							
Alkalinity, Total (As CaCO3)	586	mg/L		5	SM 2320B	06/12/2015 241	LJK
Alkalinity, Bicarbonate as HCO3	641	mg/L		5	SM 2320B	06/12/2015 241	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/12/2015 241	LJK
Chloride	7	mg/L		1	EPA 300.0	06/15/2015 1304	LAB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/12/2015 241	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1622	AMB
Sulfate	773	mg/L		1	EPA 300.0	06/15/2015 1304	LAB
Calcium	8	mg/L		1	EPA 200.7	06/12/2015 211	BJ
Magnesium	4	mg/L		1	EPA 200.7	06/12/2015 211	BJ
Potassium	7	mg/L		1	EPA 200.7	06/12/2015 211	BJ
Sodium	675	mg/L		1	EPA 200.7	06/12/2015 211	BJ
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1100	AMB
Silica as SiO2	8.3	mg/L		0.1	EPA 200.7	06/12/2015 211	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 241	LJK
Electrical Conductivity	2840	µmhos/cm		5	SM 2510B	06/12/2015 241	LJK
Total Dissolved Solids (180)	1820	mg/L		10	SM 2540	06/11/2015 1410	TS
Data Quality							
Cation Sum	30.26	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	28.04	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	3.81	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1830	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-001
ClientSample ID: MU1 PM10
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 9:51:00 AM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 211	BJ
Arsenic	0.007	mg/L		0.005	EPA 200.8	06/11/2015 1858	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 1858	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/12/2015 211	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 1858	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 211	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 1858	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 211	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 1858	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 211	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1034	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 1858	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 211	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 1858	MS
Uranium	0.0322	mg/L		0.0003	EPA 200.8	06/11/2015 1858	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 1858	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 211	BJ
Radionuclides - Dissolved							
Gross Alpha	42.3	pCi/L		2	SM 7110B	06/19/2015 002	MB
Gross Alpha Precision (±)	6.6	pCi/L			SM 7110B	06/19/2015 002	MB
Radium 226	1.6	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 724	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 724	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-002
ClientSample ID: MU1-PM-11
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 11:24:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.37	s.u.			Field	06/12/2015 1124	
Conductivity	1757	µmhos/cm			Field	06/12/2015 1124	
Dissolved Oxygen	0.09	mg/L			Field	06/12/2015 1124	
Turbidity	2.06	NTU			Field	06/12/2015 1124	
Depth to Water	67.77	ft			Field	06/12/2015 1124	
Temperature	10.6	℃			Field	06/12/2015 1124	
Oxygen Reduction Potential (ORP)	-196.6	mV			Field	06/12/2015 1124	
Anions/Cations							
Alkalinity, Total (As CaCO3)	669	mg/L		5	SM 2320B	06/16/2015 329	MRL
Alkalinity, Bicarbonate as HCO3	730	mg/L		5	SM 2320B	06/16/2015 329	MRL
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	06/16/2015 329	MRL
Chloride	4	mg/L		1	EPA 300.0	06/18/2015 301	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/16/2015 329	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1833	AMB
Sulfate	395	mg/L		1	EPA 300.0	06/18/2015 301	LAB
Calcium	5	mg/L		1	EPA 200.7	06/16/2015 1547	DG
Magnesium	2	mg/L		1	EPA 200.7	06/16/2015 1547	DG
Potassium	6	mg/L		1	EPA 200.7	06/16/2015 1547	DG
Sodium	531	mg/L		1	EPA 200.7	06/16/2015 1547	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1314	AMB
Silica as SiO2	8.7	mg/L		0.1	EPA 200.7	06/16/2015 1547	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/16/2015 329	MRL
Electrical Conductivity	2010	µmhos/cm		5	SM 2510B	06/16/2015 329	MRL
Total Dissolved Solids (180)	1320	mg/L		10	SM 2540	06/15/2015 1638	TS
Data Quality							
Cation Sum	23.72	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	21.74	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	4.36	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1350	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-002
ClientSample ID: MU1-PM-11
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 11:24:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1547	DG
Arsenic	0.007	mg/L		0.005	EPA 200.8	06/16/2015 351	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 351	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/16/2015 1547	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 351	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1547	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 351	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1547	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 351	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1547	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1206	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 351	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1547	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 351	MS
Uranium	0.0029	mg/L		0.0003	EPA 200.8	06/16/2015 351	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 351	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1547	DG
Radionuclides - Dissolved							
Gross Alpha	5.0	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	3.4	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	1.7	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 903	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 903	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-005
ClientSample ID: MU1 PM12
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 10:32:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.39	s.u.			Field	06/10/2015 1032	
Conductivity	1362	µmhos/cm			Field	06/10/2015 1032	
Dissolved Oxygen	0.26	mg/L			Field	06/10/2015 1032	
Turbidity	3.74	NTU			Field	06/10/2015 1032	
Depth to Water	35.20	ft			Field	06/10/2015 1032	
Temperature	10.8	℃			Field	06/10/2015 1032	
Oxygen Reduction Potential (ORP)	-103.6	mV			Field	06/10/2015 1032	
Anions/Cations							
Alkalinity, Total (As CaCO3)	668	mg/L		5	SM 2320B	06/12/2015 629	LJK
Alkalinity, Bicarbonate as HCO3	745	mg/L		5	SM 2320B	06/12/2015 629	LJK
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	06/12/2015 629	LJK
Chloride	4	mg/L		1	EPA 300.0	06/15/2015 1858	LAB
Fluoride	0.6	mg/L		0.1	SM 4500FC	06/12/2015 629	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1653	AMB
Sulfate	356	mg/L		1	EPA 300.0	06/15/2015 1858	LAB
Calcium	6	mg/L		1	EPA 200.7	06/12/2015 314	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 314	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 314	BJ
Sodium	499	mg/L		1	EPA 200.7	06/12/2015 314	BJ
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1128	AMB
Silica as SiO2	8.2	mg/L		0.1	EPA 200.7	06/12/2015 314	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 629	LJK
Electrical Conductivity	2000	µmhos/cm		5	SM 2510B	06/12/2015 629	LJK
Total Dissolved Solids (180)	1270	mg/L		10	SM 2540	06/11/2015 1426	TS
Data Quality							
Cation Sum	22.42	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	20.91	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	3.47	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	1280	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-005
ClientSample ID: MU1 PM12
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 10:32:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 314	BJ
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/11/2015 2113	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2113	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/12/2015 314	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2113	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 314	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2113	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 314	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2113	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 314	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1127	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2113	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 314	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2113	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	06/11/2015 2113	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2113	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 314	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1122	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 1122	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 1337	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 1337	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-004
ClientSample ID: MU1 PM-13
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 12:14:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.25	s.u.			Field	06/10/2015 1214	
Conductivity	1471	µmhos/cm			Field	06/10/2015 1214	
Dissolved Oxygen	0.14	mg/L			Field	06/10/2015 1214	
Turbidity	21.6	NTU			Field	06/10/2015 1214	
Depth to Water	68.24	ft			Field	06/10/2015 1214	
Temperature	10.6	℃			Field	06/10/2015 1214	
Oxygen Reduction Potential (ORP)	-188	mV			Field	06/10/2015 1214	
Anions/Cations							
Alkalinity, Total (As CaCO3)	698	mg/L		5	SM 2320B	06/12/2015 617	LJK
Alkalinity, Bicarbonate as HCO3	774	mg/L		5	SM 2320B	06/12/2015 617	LJK
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	06/12/2015 617	LJK
Chloride	3	mg/L		1	EPA 300.0	06/15/2015 1845	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/12/2015 617	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1652	AMB
Sulfate	295	mg/L		1	EPA 300.0	06/15/2015 1845	LAB
Calcium	6	mg/L		1	EPA 200.7	06/12/2015 312	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/12/2015 312	BJ
Potassium	5	mg/L		1	EPA 200.7	06/12/2015 312	BJ
Sodium	482	mg/L		1	EPA 200.7	06/12/2015 312	BJ
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1126	AMB
Silica as SiO2	8.9	mg/L		0.1	EPA 200.7	06/12/2015 312	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 617	LJK
Electrical Conductivity	1920	µmhos/cm		5	SM 2510B	06/12/2015 617	LJK
Total Dissolved Solids (180)	1200	mg/L		10	SM 2540	06/11/2015 1425	TS
Data Quality							
Cation Sum	21.59	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	20.22	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	3.29	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	1220	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-004
ClientSample ID: MU1 PM-13
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 12:14:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	06/12/2015 312	BJ
Arsenic	0.019	mg/L		0.005	EPA 200.8	06/11/2015 2108	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2108	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/12/2015 312	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2108	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 312	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2108	MS
Iron	0.11	mg/L		0.05	EPA 200.7	06/12/2015 312	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2108	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 312	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1125	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2108	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 312	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2108	MS
Uranium	0.0027	mg/L		0.0003	EPA 200.8	06/11/2015 2108	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2108	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 312	BJ
Radionuclides - Dissolved							
Gross Alpha	6.5	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	2.1	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1122	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1122	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 1136	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 1136	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-002
ClientSample ID: MU1-PM14A
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 10:14:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.60	s.u.			Field	06/11/2015 1014	
Conductivity	2017	µmhos/cm			Field	06/11/2015 1014	
Dissolved Oxygen	.62	mg/L			Field	06/11/2015 1014	
Turbidity	2.23	NTU			Field	06/11/2015 1014	
Depth to Water	79.10	ft			Field	06/11/2015 1014	
Temperature	10.9	℃			Field	06/11/2015 1014	
Oxygen Reduction Potential (ORP)	-216.8	mV			Field	06/11/2015 1014	
Anions/Cations							
Alkalinity, Total (As CaCO3)	614	mg/L		5	SM 2320B	06/13/2015 549	LJK
Alkalinity, Bicarbonate as HCO3	664	mg/L		5	SM 2320B	06/13/2015 549	LJK
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	06/13/2015 549	LJK
Chloride	5	mg/L		1	EPA 300.0	06/17/2015 1824	LAB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/13/2015 549	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1339	AMB
Sulfate	567	mg/L		1	EPA 300.0	06/17/2015 1824	LAB
Calcium	10	mg/L		1	EPA 200.7	06/13/2015 206	BJ
Magnesium	5	mg/L		1	EPA 200.7	06/13/2015 206	BJ
Potassium	7	mg/L		1	EPA 200.7	06/13/2015 206	BJ
Sodium	585	mg/L		1	EPA 200.7	06/13/2015 206	BJ
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1216	AMB
Silica as SiO2	9.0	mg/L		0.1	EPA 200.7	06/13/2015 206	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 549	LJK
Electrical Conductivity	2380	µmhos/cm		5	SM 2510B	06/13/2015 549	LJK
Total Dissolved Solids (180)	1570	mg/L		10	SM 2540	06/12/2015 951	TS
Data Quality							
Cation Sum	26.59	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	24.24	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	4.62	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1560	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-002
ClientSample ID: MU1-PM14A
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 10:14:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 206	BJ
Arsenic	0.010	mg/L		0.005	EPA 200.8	06/13/2015 033	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 033	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 206	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 033	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 206	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 033	MS
Iron	0.06	mg/L		0.05	EPA 200.7	06/13/2015 206	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 033	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 206	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1012	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 033	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 206	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 033	MS
Uranium	0.0040	mg/L		0.0003	EPA 200.8	06/13/2015 033	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 033	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 206	BJ
Radionuclides - Dissolved							
Gross Alpha	9.2	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	3.7	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	1.8	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.2	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/27/2015 457	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/27/2015 457	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-003
ClientSample ID: MU1 PM-15
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 10:48:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.96	s.u.			Field	06/10/2015 1048	
Conductivity	1832	µmhos/cm			Field	06/10/2015 1048	
Dissolved Oxygen	0.13	mg/L			Field	06/10/2015 1048	
Turbidity	1.49	NTU			Field	06/10/2015 1048	
Depth to Water	75.10	ft			Field	06/10/2015 1048	
Temperature	10.7	℃			Field	06/10/2015 1048	
Oxygen Reduction Potential (ORP)	-173.6	mV			Field	06/10/2015 1048	
Anions/Cations							
Alkalinity, Total (As CaCO3)	549	mg/L		5	SM 2320B	06/12/2015 552	LJK
Alkalinity, Bicarbonate as HCO3	632	mg/L		5	SM 2320B	06/12/2015 552	LJK
Alkalinity, Carbonate as CO3	19	mg/L		5	SM 2320B	06/12/2015 552	LJK
Chloride	7	mg/L		1	EPA 300.0	06/15/2015 1831	LAB
Fluoride	0.3	mg/L		0.1	SM 4500FC	06/12/2015 552	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1650	AMB
Sulfate	614	mg/L		1	EPA 300.0	06/15/2015 1831	LAB
Calcium	21	mg/L		1	EPA 200.7	06/12/2015 310	BJ
Magnesium	11	mg/L		1	EPA 200.7	06/12/2015 310	BJ
Potassium	10	mg/L		1	EPA 200.7	06/12/2015 310	BJ
Sodium	539	mg/L		1	EPA 200.7	06/12/2015 310	BJ
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/17/2015 1125	AMB
Silica as SiO2	8.8	mg/L		0.1	EPA 200.7	06/12/2015 310	BJ
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	06/12/2015 552	LJK
Electrical Conductivity	2340	µmhos/cm		5	SM 2510B	06/12/2015 552	LJK
Total Dissolved Solids (180)	1510	mg/L		10	SM 2540	06/11/2015 1424	TS
Data Quality							
Cation Sum	25.75	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	24.00	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	3.52	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	1540	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-003
ClientSample ID: MU1 PM-15
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 10:48:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 310	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2102	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2102	MS
Boron	0.4	mg/L		0.1	EPA 200.7	06/12/2015 310	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2102	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 310	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2102	MS
Iron	0.19	mg/L		0.05	EPA 200.7	06/12/2015 310	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2102	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 310	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1123	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2102	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 310	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2102	MS
Uranium	0.0369	mg/L		0.0003	EPA 200.8	06/11/2015 2102	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2102	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 310	BJ
Radionuclides - Dissolved							
Gross Alpha	60.3	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	7.1	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	5.6	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1122	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/22/2015 1122	MB
Radium 228	1.3	pCi/L		1	Ga-Tech	06/24/2015 935	MB
Radium 228 Precision (±)	1.1	pCi/L			Ga-Tech	06/24/2015 935	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-006
ClientSample ID: MU1-PM16
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 12:31:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.73	s.u.			Field	06/12/2015 1231	
Conductivity	1781	µmhos/cm			Field	06/12/2015 1231	
Dissolved Oxygen	0.18	mg/L			Field	06/12/2015 1231	
Turbidity	3.19	NTU			Field	06/12/2015 1231	
Depth to Water	78.88	ft			Field	06/12/2015 1231	
Temperature	11.4	℃			Field	06/12/2015 1231	
Oxygen Reduction Potential (ORP)	-206.2	mV			Field	06/12/2015 1231	
Anions/Cations							
Alkalinity, Total (As CaCO3)	657	mg/L		5	SM 2320B	06/16/2015 420	MRL
Alkalinity, Bicarbonate as HCO3	701	mg/L		5	SM 2320B	06/16/2015 420	MRL
Alkalinity, Carbonate as CO3	50	mg/L		5	SM 2320B	06/16/2015 420	MRL
Chloride	5	mg/L		1	EPA 300.0	06/18/2015 503	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/16/2015 420	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1839	AMB
Sulfate	421	mg/L		1	EPA 300.0	06/18/2015 503	LAB
Calcium	6	mg/L		1	EPA 200.7	06/16/2015 1556	DG
Magnesium	3	mg/L		1	EPA 200.7	06/16/2015 1556	DG
Potassium	10	mg/L		1	EPA 200.7	06/16/2015 1556	DG
Sodium	515	mg/L		1	EPA 200.7	06/16/2015 1556	DG
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1320	AMB
Silica as SiO2	7.7	mg/L		0.1	EPA 200.7	06/16/2015 1556	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/16/2015 420	MRL
Electrical Conductivity	2080	µmhos/cm		5	SM 2510B	06/16/2015 420	MRL
Total Dissolved Solids (180)	1350	mg/L		10	SM 2540	06/15/2015 1643	TS
Data Quality							
Cation Sum	23.19	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	22.07	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	2.46	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1360	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-006
ClientSample ID: MU1-PM16
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 12:31:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1556	DG
Arsenic	0.016	mg/L		0.005	EPA 200.8	06/16/2015 440	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 440	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/16/2015 1556	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 440	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1556	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 440	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1556	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 440	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1556	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1218	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 440	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1556	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 440	MS
Uranium	0.0094	mg/L		0.0003	EPA 200.8	06/16/2015 440	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 440	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1556	DG
Radionuclides - Dissolved							
Gross Alpha	10.3	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	4.0	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	1.3	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	2.6	pCi/L		1	Ga-Tech	06/30/2015 1707	MB
Radium 228 Precision (±)	1.1	pCi/L			Ga-Tech	06/30/2015 1707	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-009
ClientSample ID: MU1-PM17
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 12:03:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.35	s.u.			Field	06/10/2015 1203	
Conductivity	1634	µmhos/cm			Field	06/10/2015 1203	
Dissolved Oxygen	0.76	mg/L			Field	06/10/2015 1203	
Turbidity	4.22	NTU			Field	06/10/2015 1203	
Depth to Water	66.68	ft			Field	06/10/2015 1203	
Temperature	11.1	℃			Field	06/10/2015 1203	
Oxygen Reduction Potential (ORP)	-156.5	mV			Field	06/10/2015 1203	
Anions/Cations							
Alkalinity, Total (As CaCO3)	697	mg/L		5	SM 2320B	06/12/2015 717	LJK
Alkalinity, Bicarbonate as HCO3	782	mg/L		5	SM 2320B	06/12/2015 717	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/12/2015 717	LJK
Chloride	4	mg/L		1	EPA 300.0	06/15/2015 1953	LAB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/12/2015 717	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1659	AMB
Sulfate	443	mg/L		1	EPA 300.0	06/15/2015 1953	LAB
Calcium	8	mg/L		1	EPA 200.7	06/12/2015 338	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 338	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 338	BJ
Sodium	556	mg/L		1	EPA 200.7	06/12/2015 338	BJ
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/17/2015 1133	AMB
Silica as SiO2	8.2	mg/L		0.1	EPA 200.7	06/12/2015 338	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 717	LJK
Electrical Conductivity	2250	µmhos/cm		5	SM 2510B	06/12/2015 717	LJK
Total Dissolved Solids (180)	1420	mg/L		10	SM 2540	06/11/2015 1430	TS
Data Quality							
Cation Sum	25.03	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	23.32	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	3.53	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	1450	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-009
ClientSample ID: MU1-PM17
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 12:03:00 PM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 338	BJ
Arsenic	0.005	mg/L		0.005	EPA 200.8	06/11/2015 2135	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2135	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/12/2015 338	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2135	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 338	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2135	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 338	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2135	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 338	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1135	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2135	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 338	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2135	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	06/11/2015 2135	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2135	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 338	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/25/2015 1842	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/25/2015 1842	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-006
ClientSample ID: MU1 PM18
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 11:51:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.41	s.u.			Field	06/10/2015 1151	
Conductivity	1503	µmhos/cm			Field	06/10/2015 1151	
Dissolved Oxygen	0.18	mg/L			Field	06/10/2015 1151	
Turbidity	1.42	NTU			Field	06/10/2015 1151	
Depth to Water	78.04	ft			Field	06/10/2015 1151	
Temperature	11.6	℃			Field	06/10/2015 1151	
Oxygen Reduction Potential (ORP)	-170.9	mV			Field	06/10/2015 1151	
Anions/Cations							
Alkalinity, Total (As CaCO3)	718	mg/L		5	SM 2320B	06/12/2015 642	LJK
Alkalinity, Bicarbonate as HCO3	804	mg/L		5	SM 2320B	06/12/2015 642	LJK
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/12/2015 642	LJK
Chloride	4	mg/L		1	EPA 300.0	06/15/2015 1912	LAB
Fluoride	1.2	mg/L		0.1	SM 4500FC	06/12/2015 642	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1655	AMB
Sulfate	425	mg/L		1	EPA 300.0	06/15/2015 1912	LAB
Calcium	7	mg/L		1	EPA 200.7	06/12/2015 317	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 317	BJ
Potassium	6	mg/L		1	EPA 200.7	06/12/2015 317	BJ
Sodium	545	mg/L		1	EPA 200.7	06/12/2015 317	BJ
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1129	AMB
Silica as SiO2	8.2	mg/L		0.1	EPA 200.7	06/12/2015 317	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 642	LJK
Electrical Conductivity	2190	µmhos/cm		5	SM 2510B	06/12/2015 642	LJK
Total Dissolved Solids (180)	1400	mg/L		10	SM 2540	06/11/2015 1427	TS
Data Quality							
Cation Sum	24.47	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	23.39	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	2.24	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	1430	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-006
ClientSample ID: MU1 PM18
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 11:51:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 317	BJ
Arsenic	0.008	mg/L		0.005	EPA 200.8	06/11/2015 2119	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2119	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/12/2015 317	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2119	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 317	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2119	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 317	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2119	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 317	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1129	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2119	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 317	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2119	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/11/2015 2119	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2119	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 317	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1122	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1122	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 1538	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 1538	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-003
ClientSample ID: MU1 PM19
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 1:57:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.38	s.u.			Field	06/15/2015 1357	
Conductivity	1711	µmhos/cm			Field	06/15/2015 1357	
Dissolved Oxygen	6.13	mg/L			Field	06/15/2015 1357	
Turbidity	2.04	NTU			Field	06/15/2015 1357	
Temperature	11.1	℃			Field	06/15/2015 1357	
Oxygen Reduction Potential (ORP)	-66	mV			Field	06/15/2015 1357	
Anions/Cations							
Alkalinity, Total (As CaCO3)	645	mg/L		5	SM 2320B	06/17/2015 2257	LJK
Alkalinity, Bicarbonate as HCO3	720	mg/L		5	SM 2320B	06/17/2015 2257	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/17/2015 2257	LJK
Chloride	5	mg/L		1	EPA 300.0	06/18/2015 2110	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/17/2015 2257	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/20/2015 1027	AMB
Sulfate	490	mg/L		1	EPA 300.0	06/18/2015 2110	AB
Calcium	7	mg/L		1	EPA 200.7	06/18/2015 1604	DG
Magnesium	3	mg/L		1	EPA 200.7	06/18/2015 1604	DG
Potassium	6	mg/L		1	EPA 200.7	06/18/2015 1604	DG
Sodium	558	mg/L		1	EPA 200.7	06/18/2015 1604	DG
Nitrogen, Ammonia (As N)	0.3	mg/L		0.1	EPA 350.1	06/19/2015 1107	AMB
Silica as SiO2	8.0	mg/L		0.1	EPA 200.7	06/18/2015 1604	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/17/2015 2257	LJK
Electrical Conductivity	2220	µmhos/cm		5	SM 2510B	06/17/2015 2257	LJK
Total Dissolved Solids (180)	1490	mg/L		10	SM 2540	06/17/2015 1456	TS
Data Quality							
Cation Sum	25.05	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Anion Sum	23.29	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Cation-Anion Balance (± 5%)	3.64	%		0.01	SM 1030E	06/23/2015 835	JJ
Solids, Total Dissolved (Calc)	1460	mg/L		10	SM 1030E	06/23/2015 835	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-003
ClientSample ID: MU1 PM19
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 1:57:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/18/2015 1604	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/17/2015 1839	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/17/2015 1839	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/18/2015 1604	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/17/2015 1839	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/18/2015 1604	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/17/2015 1839	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/18/2015 1604	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/17/2015 1839	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/18/2015 1604	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/23/2015 904	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/17/2015 1839	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/18/2015 1604	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/17/2015 1839	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	06/17/2015 1839	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/17/2015 1839	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/18/2015 1604	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 1620	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/23/2015 1620	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/01/2015 110	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/01/2015 110	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-011
ClientSample ID: MU1 SM1
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:17:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.63	s.u.			Field	06/12/2015 917	
Conductivity	1016	µmhos/cm			Field	06/12/2015 917	
Dissolved Oxygen	3.25	mg/L			Field	06/12/2015 917	
Turbidity	6.17	NTU			Field	06/12/2015 917	
Temperature	10.9	℃			Field	06/12/2015 917	
Oxygen Reduction Potential (ORP)	-188	mV			Field	06/12/2015 917	
Anions/Cations							
Alkalinity, Total (As CaCO3)	542	mg/L		5	SM 2320B	06/15/2015 2241	MRL
Alkalinity, Bicarbonate as HCO3	589	mg/L		5	SM 2320B	06/15/2015 2241	MRL
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/15/2015 2241	MRL
Chloride	4	mg/L		1	EPA 300.0	06/18/2015 153	LAB
Fluoride	1.8	mg/L		0.1	SM 4500FC	06/15/2015 2241	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1816	AMB
Sulfate	176	mg/L		1	EPA 300.0	06/18/2015 153	LAB
Calcium	3	mg/L		1	EPA 200.7	06/15/2015 2014	DG
Magnesium	1	mg/L		1	EPA 200.7	06/15/2015 2014	DG
Potassium	5	mg/L		1	EPA 200.7	06/15/2015 2014	DG
Sodium	335	mg/L		1	EPA 200.7	06/15/2015 2014	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	06/17/2015 1308	AMB
Silica as SiO2	7.2	mg/L		0.1	EPA 200.7	06/15/2015 2014	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/15/2015 2241	MRL
Electrical Conductivity	1340	µmhos/cm		5	SM 2510B	06/15/2015 2241	MRL
Total Dissolved Solids (180)	870	mg/L		10	SM 2540	06/15/2015 1616	TS
Data Quality							
Cation Sum	14.97	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	14.72	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	0.85	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	860	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-011
ClientSample ID: MU1 SM1
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:17:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 2014	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 145	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 145	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/15/2015 2014	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 145	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 2014	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 145	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 2014	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 145	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 2014	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1143	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 145	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 2014	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 145	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/16/2015 145	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 145	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 2014	DG
Radionuclides - Dissolved							
Gross Alpha	2.8	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	1.7	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/29/2015 2259	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/29/2015 2259	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-005
ClientSample ID: MU1-SM2
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 11:13:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.80	s.u.			Field	06/12/2015 1113	
Conductivity	1420	µmhos/cm			Field	06/12/2015 1113	
Dissolved Oxygen	0.07	mg/L			Field	06/12/2015 1113	
Turbidity	35.5	NTU			Field	06/12/2015 1113	
Depth to Water	55.74	ft			Field	06/12/2015 1113	
Temperature	11.0	℃			Field	06/12/2015 1113	
Oxygen Reduction Potential (ORP)	-200.9	mV			Field	06/12/2015 1113	
Anions/Cations							
Alkalinity, Total (As CaCO3)	621	mg/L		5	SM 2320B	06/16/2015 407	MRL
Alkalinity, Bicarbonate as HCO3	662	mg/L		5	SM 2320B	06/16/2015 407	MRL
Alkalinity, Carbonate as CO3	47	mg/L		5	SM 2320B	06/16/2015 407	MRL
Chloride	4	mg/L		1	EPA 300.0	06/18/2015 450	LAB
Fluoride	1.3	mg/L		0.1	SM 4500FC	06/16/2015 407	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1837	AMB
Sulfate	297	mg/L		1	EPA 300.0	06/18/2015 450	LAB
Calcium	3	mg/L		1	EPA 200.7	06/16/2015 1553	DG
Magnesium	2	mg/L		1	EPA 200.7	06/16/2015 1553	DG
Potassium	10	mg/L		1	EPA 200.7	06/16/2015 1553	DG
Sodium	436	mg/L		1	EPA 200.7	06/16/2015 1553	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1318	AMB
Silica as SiO2	7.7	mg/L		0.1	EPA 200.7	06/16/2015 1553	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/16/2015 407	MRL
Electrical Conductivity	1740	µmhos/cm		5	SM 2510B	06/16/2015 407	MRL
Total Dissolved Solids (180)	1150	mg/L		10	SM 2540	06/15/2015 1642	TS
Data Quality							
Cation Sum	19.52	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	18.77	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	1.94	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1130	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-005
ClientSample ID: MU1-SM2
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/12/2015 11:13:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: JG
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1553	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 434	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 434	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/16/2015 1553	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 434	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1553	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 434	MS
Iron	0.06	mg/L		0.05	EPA 200.7	06/16/2015 1553	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 434	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1553	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1212	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 434	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1553	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 434	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/16/2015 434	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 434	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1553	DG
Radionuclides - Dissolved							
Gross Alpha	3.7	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	2.0	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 1506	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 1506	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-003
ClientSample ID: MU1-SM3
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 11:39:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.50	s.u.			Field	06/11/2015 1139	
Conductivity	1655	µmhos/cm			Field	06/11/2015 1139	
Dissolved Oxygen	2.68	mg/L			Field	06/11/2015 1139	
Turbidity	1.72	NTU			Field	06/11/2015 1139	
Depth to Water	64.76	ft			Field	06/11/2015 1139	
Temperature	11.0	℃			Field	06/11/2015 1139	
Oxygen Reduction Potential (ORP)	-16.6	mV			Field	06/11/2015 1139	
Anions/Cations							
Alkalinity, Total (As CaCO3)	656	mg/L		5	SM 2320B	06/13/2015 603	LJK
Alkalinity, Bicarbonate as HCO3	729	mg/L		5	SM 2320B	06/13/2015 603	LJK
Alkalinity, Carbonate as CO3	35	mg/L		5	SM 2320B	06/13/2015 603	LJK
Chloride	4	mg/L		1	EPA 300.0	06/17/2015 1838	LAB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/13/2015 603	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1341	AMB
Sulfate	334	mg/L		1	EPA 300.0	06/17/2015 1838	LAB
Calcium	5	mg/L		1	EPA 200.7	06/13/2015 210	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 210	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 210	BJ
Sodium	493	mg/L		1	EPA 200.7	06/13/2015 210	BJ
Nitrogen, Ammonia (As N)	0.4	mg/L		0.1	EPA 350.1	06/17/2015 1225	AMB
Silica as SiO2	8.0	mg/L		0.1	EPA 200.7	06/13/2015 210	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 603	LJK
Electrical Conductivity	1960	µmhos/cm		5	SM 2510B	06/13/2015 603	LJK
Total Dissolved Solids (180)	1260	mg/L		10	SM 2540	06/12/2015 952	TS
Data Quality							
Cation Sum	22.06	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	20.22	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	4.36	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1240	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-003
ClientSample ID: MU1-SM3
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 11:39:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 210	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 039	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 039	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 210	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 039	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 210	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 039	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 210	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 039	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 210	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1014	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 039	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 210	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 039	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/13/2015 039	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 039	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 210	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/27/2015 657	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/27/2015 657	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-006
ClientSample ID: MU1 SM4
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 12:43:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.45	s.u.			Field	06/10/2015 1243	
Conductivity	1397	µmhos/cm			Field	06/10/2015 1243	
Dissolved Oxygen	2.28	mg/L			Field	06/10/2015 1243	
Turbidity	3.41	NTU			Field	06/10/2015 1243	
Temperature	11.7	℃			Field	06/10/2015 1243	
Oxygen Reduction Potential (ORP)	+129	mV			Field	06/10/2015 1243	
Anions/Cations							
Alkalinity, Total (As CaCO3)	679	mg/L		5	SM 2320B	06/12/2015 355	LJK
Alkalinity, Bicarbonate as HCO3	762	mg/L		5	SM 2320B	06/12/2015 355	LJK
Alkalinity, Carbonate as CO3	33	mg/L		5	SM 2320B	06/12/2015 355	LJK
Chloride	3	mg/L		1	EPA 300.0	06/15/2015 1521	LAB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/12/2015 355	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1629	AMB
Sulfate	293	mg/L		1	EPA 300.0	06/15/2015 1521	LAB
Calcium	5	mg/L		1	EPA 200.7	06/12/2015 237	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/12/2015 237	BJ
Potassium	5	mg/L		1	EPA 200.7	06/12/2015 237	BJ
Sodium	480	mg/L		1	EPA 200.7	06/12/2015 237	BJ
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1106	AMB
Silica as SiO2	8.4	mg/L		0.1	EPA 200.7	06/12/2015 237	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/12/2015 355	LJK
Electrical Conductivity	1920	µmhos/cm		5	SM 2510B	06/12/2015 355	LJK
Total Dissolved Solids (180)	1170	mg/L		10	SM 2540	06/11/2015 1415	TS
Data Quality							
Cation Sum	21.48	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Anion Sum	19.82	meq/L		0.01	SM 1030E	06/22/2015 659	JJ
Cation-Anion Balance (± 5%)	4.02	%		0.01	SM 1030E	06/22/2015 659	JJ
Solids, Total Dissolved (Calc)	1200	mg/L		10	SM 1030E	06/22/2015 659	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506230001

ProjectName: Ross MU1 ISR
Lab ID: S1506230-006
ClientSample ID: MU1 SM4
COC: 158838

WorkOrder: S1506230
CollectionDate: 6/10/2015 12:43:00 PM
DateReceived: 6/10/2015 3:18:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 237	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 1952	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 1952	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/12/2015 237	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 1952	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 237	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 1952	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 237	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 1952	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 237	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1054	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 1952	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 237	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 1952	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/11/2015 1952	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 1952	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 237	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/19/2015 2117	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/19/2015 2117	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1347	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/18/2015 1347	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/23/2015 1728	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/23/2015 1728	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-007
ClientSample ID: MU1-SM-5
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/11/2015 4:31:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.30	s.u.			Field	06/11/2015 1631	
Conductivity	1541	µmhos/cm			Field	06/11/2015 1631	
Dissolved Oxygen	0.15	mg/L			Field	06/11/2015 1631	
Turbidity	10.8	NTU			Field	06/11/2015 1631	
Depth to Water	75.71	ft			Field	06/11/2015 1631	
Temperature	10.4	℃			Field	06/11/2015 1631	
Oxygen Reduction Potential (ORP)	-176.3	mV			Field	06/11/2015 1631	
Anions/Cations							
Alkalinity, Total (As CaCO3)	644	mg/L		5	SM 2320B	06/16/2015 433	MRL
Alkalinity, Bicarbonate as HCO3	708	mg/L		5	SM 2320B	06/16/2015 433	MRL
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	06/16/2015 433	MRL
Chloride	4	mg/L		1	EPA 300.0	06/18/2015 517	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/16/2015 433	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1840	AMB
Sulfate	332	mg/L		1	EPA 300.0	06/18/2015 517	LAB
Calcium	5	mg/L		1	EPA 200.7	06/16/2015 1558	DG
Magnesium	3	mg/L		1	EPA 200.7	06/16/2015 1558	DG
Potassium	5	mg/L		1	EPA 200.7	06/16/2015 1558	DG
Sodium	480	mg/L		1	EPA 200.7	06/16/2015 1558	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1329	AMB
Silica as SiO2	7.9	mg/L		0.1	EPA 200.7	06/16/2015 1558	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/16/2015 433	MRL
Electrical Conductivity	1860	µmhos/cm		5	SM 2510B	06/16/2015 433	MRL
Total Dissolved Solids (180)	1190	mg/L		10	SM 2540	06/15/2015 1644	TS
Data Quality							
Cation Sum	21.48	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Anion Sum	19.94	meq/L		0.01	SM 1030E	06/22/2015 1622	JJ
Cation-Anion Balance (± 5%)	3.72	%		0.01	SM 1030E	06/22/2015 1622	JJ
Solids, Total Dissolved (Calc)	1220	mg/L		10	SM 1030E	06/22/2015 1622	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/2/2015
Report ID S1506295001

ProjectName: Ross MU1 ISR
Lab ID: S1506295-007
ClientSample ID: MU1-SM-5
COC: 160069 159875 16000

WorkOrder: S1506295
CollectionDate: 6/11/2015 4:31:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/16/2015 1558	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 445	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 445	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/16/2015 1558	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 445	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/16/2015 1558	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 445	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/16/2015 1558	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 445	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/16/2015 1558	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1225	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 445	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/16/2015 1558	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 445	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/16/2015 445	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 445	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/16/2015 1558	DG
Radionuclides - Dissolved							
Gross Alpha	17.9	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	3.4	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	4.1	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 859	MB
Radium 226 Precision (±)	0.3	pCi/L			SM 7500 Ra-B	06/23/2015 859	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 1907	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 1907	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-004
ClientSample ID: MU1 SM6
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:55:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.62	s.u.			Field	06/12/2015 1055	
Conductivity	1504	µmhos/cm			Field	06/12/2015 1055	
Dissolved Oxygen	3.37	mg/L			Field	06/12/2015 1055	
Turbidity	1.43	NTU			Field	06/12/2015 1055	
Temperature	12.2	℃			Field	06/12/2015 1055	
Oxygen Reduction Potential (ORP)	-10.2	mV			Field	06/12/2015 1055	
Anions/Cations							
Alkalinity, Total (As CaCO3)	753	mg/L		5	SM 2320B	06/15/2015 2056	MRL
Alkalinity, Bicarbonate as HCO3	824	mg/L		5	SM 2320B	06/15/2015 2056	MRL
Alkalinity, Carbonate as CO3	46	mg/L		5	SM 2320B	06/15/2015 2056	MRL
Chloride	4	mg/L		1	EPA 300.0	06/17/2015 2256	LAB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/15/2015 2056	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1756	AMB
Sulfate	330	mg/L		1	EPA 300.0	06/17/2015 2256	LAB
Calcium	4	mg/L		1	EPA 200.7	06/15/2015 1944	DG
Magnesium	2	mg/L		1	EPA 200.7	06/15/2015 1944	DG
Potassium	12	mg/L		1	EPA 200.7	06/15/2015 1944	DG
Sodium	497	mg/L		1	EPA 200.7	06/15/2015 1944	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1250	AMB
Silica as SiO2	7.0	mg/L		0.1	EPA 200.7	06/15/2015 1944	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/15/2015 2056	MRL
Electrical Conductivity	1910	µmhos/cm		5	SM 2510B	06/15/2015 2056	MRL
Total Dissolved Solids (180)	1250	mg/L		10	SM 2540	06/15/2015 1609	TS
Data Quality							
Cation Sum	22.35	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	22.08	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	0.60	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1310	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-004
ClientSample ID: MU1 SM6
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:55:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 1944	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	06/16/2015 040	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 040	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/15/2015 1944	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 040	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1944	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 040	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1944	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 040	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1944	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1129	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 040	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1944	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 040	MS
Uranium	0.0004	mg/L		0.0003	EPA 200.8	06/16/2015 040	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 040	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 1944	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 2213	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 2213	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-003
ClientSample ID: MU1 SM7
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 11:48:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.32	s.u.			Field	06/12/2015 1148	
Conductivity	1541	µmhos/cm			Field	06/12/2015 1148	
Dissolved Oxygen	4.39	mg/L			Field	06/12/2015 1148	
Turbidity	3.98	NTU			Field	06/12/2015 1148	
Temperature	11.7	℃			Field	06/12/2015 1148	
Oxygen Reduction Potential (ORP)	+23	mV			Field	06/12/2015 1148	
Anions/Cations							
Alkalinity, Total (As CaCO3)	672	mg/L		5	SM 2320B	06/15/2015 2042	MRL
Alkalinity, Bicarbonate as HCO3	750	mg/L		5	SM 2320B	06/15/2015 2042	MRL
Alkalinity, Carbonate as CO3	34	mg/L		5	SM 2320B	06/15/2015 2042	MRL
Chloride	5	mg/L		1	EPA 300.0	06/17/2015 2243	LAB
Fluoride	0.7	mg/L		0.1	SM 4500FC	06/15/2015 2042	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1755	AMB
Sulfate	382	mg/L		1	EPA 300.0	06/17/2015 2243	LAB
Calcium	6	mg/L		1	EPA 200.7	06/15/2015 1930	DG
Magnesium	3	mg/L		1	EPA 200.7	06/15/2015 1930	DG
Potassium	6	mg/L		1	EPA 200.7	06/15/2015 1930	DG
Sodium	505	mg/L		1	EPA 200.7	06/15/2015 1930	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1249	AMB
Silica as SiO2	7.2	mg/L		0.1	EPA 200.7	06/15/2015 1930	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	06/15/2015 2042	MRL
Electrical Conductivity	1980	µmhos/cm		5	SM 2510B	06/15/2015 2042	MRL
Total Dissolved Solids (180)	1340	mg/L		10	SM 2540	06/15/2015 1608	TS
Data Quality							
Cation Sum	22.66	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	21.58	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	2.44	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1320	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-003
ClientSample ID: MU1 SM7
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 11:48:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 1930	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/16/2015 035	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 035	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/15/2015 1930	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 035	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1930	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 035	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1930	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 035	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1930	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1127	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 035	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1930	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 035	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/16/2015 035	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 035	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 1930	DG
Radionuclides - Dissolved							
Gross Alpha	3.7	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 2013	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 2013	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-001
ClientSample ID: MU1 SM8
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 11:06:00 AM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.46	s.u.			Field	06/15/2015 1106	
Conductivity	1249	µmhos/cm			Field	06/15/2015 1106	
Dissolved Oxygen	2.50	mg/L			Field	06/15/2015 1106	
Turbidity	18.14	NTU			Field	06/15/2015 1106	
Temperature	11.3	℃			Field	06/15/2015 1106	
Oxygen Reduction Potential (ORP)	68	mV			Field	06/15/2015 1106	
Anions/Cations							
Alkalinity, Total (As CaCO3)	632	mg/L		5	SM 2320B	06/17/2015 2233	LJK
Alkalinity, Bicarbonate as HCO3	695	mg/L		5	SM 2320B	06/17/2015 2233	LJK
Alkalinity, Carbonate as CO3	38	mg/L		5	SM 2320B	06/17/2015 2233	LJK
Chloride	3	mg/L		1	EPA 300.0	06/18/2015 1935	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/17/2015 2233	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/20/2015 1024	AMB
Sulfate	227	mg/L		1	EPA 300.0	06/18/2015 1935	AB
Calcium	4	mg/L		1	EPA 200.7	06/18/2015 1600	DG
Magnesium	2	mg/L		1	EPA 200.7	06/18/2015 1600	DG
Potassium	5	mg/L		1	EPA 200.7	06/18/2015 1600	DG
Sodium	411	mg/L		1	EPA 200.7	06/18/2015 1600	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/19/2015 1105	AMB
Silica as SiO2	8.0	mg/L		0.1	EPA 200.7	06/18/2015 1600	DG
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/17/2015 2233	LJK
Electrical Conductivity	1640	µmhos/cm		5	SM 2510B	06/17/2015 2233	LJK
Total Dissolved Solids (180)	1050	mg/L		10	SM 2540	06/17/2015 1454	TS
Data Quality							
Cation Sum	18.34	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Anion Sum	17.50	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Cation-Anion Balance (± 5%)	2.35	%		0.01	SM 1030E	06/23/2015 835	JJ
Solids, Total Dissolved (Calc)	1040	mg/L		10	SM 1030E	06/23/2015 835	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-001
ClientSample ID: MU1 SM8
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 11:06:00 AM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/18/2015 1600	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/17/2015 1801	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/17/2015 1801	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/18/2015 1600	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/17/2015 1801	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/18/2015 1600	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/17/2015 1801	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/18/2015 1600	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/17/2015 1801	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/18/2015 1600	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/23/2015 851	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/17/2015 1801	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/18/2015 1600	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/17/2015 1801	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/17/2015 1801	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/17/2015 1801	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/18/2015 1600	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 1620	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/23/2015 1620	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 2108	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 2108	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-001
ClientSample ID: MU1 SM9
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 1:00:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.25	s.u.			Field	06/12/2015 1300	
Conductivity	1652	µmhos/cm			Field	06/12/2015 1300	
Dissolved Oxygen	3.01	mg/L			Field	06/12/2015 1300	
Turbidity	8.54	NTU			Field	06/12/2015 1300	
Temperature	11.8	℃			Field	06/12/2015 1300	
Oxygen Reduction Potential (ORP)	-34	mV			Field	06/12/2015 1300	
Anions/Cations							
Alkalinity, Total (As CaCO3)	714	mg/L		5	SM 2320B	06/15/2015 2017	MRL
Alkalinity, Bicarbonate as HCO3	799	mg/L		5	SM 2320B	06/15/2015 2017	MRL
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/15/2015 2017	MRL
Chloride	4	mg/L		1	EPA 300.0	06/17/2015 2216	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/15/2015 2017	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1752	AMB
Sulfate	421	mg/L		1	EPA 300.0	06/17/2015 2216	LAB
Calcium	6	mg/L		1	EPA 200.7	06/15/2015 1924	DG
Magnesium	3	mg/L		1	EPA 200.7	06/15/2015 1924	DG
Potassium	6	mg/L		1	EPA 200.7	06/15/2015 1924	DG
Sodium	538	mg/L		1	EPA 200.7	06/15/2015 1924	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1246	AMB
Silica as SiO2	7.6	mg/L		0.1	EPA 200.7	06/15/2015 1924	DG
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	06/15/2015 2017	MRL
Electrical Conductivity	2090	µmhos/cm		5	SM 2510B	06/15/2015 2017	MRL
Total Dissolved Solids (180)	1410	mg/L		10	SM 2540	06/15/2015 1605	TS
Data Quality							
Cation Sum	24.13	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	23.20	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	1.94	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1410	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-001
ClientSample ID: MU1 SM9
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 1:00:00 PM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 1924	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 023	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 023	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/15/2015 1924	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 023	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1924	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 023	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1924	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 023	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1924	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1114	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 023	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1924	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 023	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/16/2015 023	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 023	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/15/2015 1924	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1535	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1535	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/28/2015 1611	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/28/2015 1611	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-004
ClientSample ID: MU1-SM10
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:52:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.55	s.u.			Field	06/11/2015 1252	
Conductivity	1368	µmhos/cm			Field	06/11/2015 1252	
Dissolved Oxygen	0.66	mg/L			Field	06/11/2015 1252	
Turbidity	2.11	NTU			Field	06/11/2015 1252	
Depth to Water	47.64	ft			Field	06/11/2015 1252	
Temperature	10.7	℃			Field	06/11/2015 1252	
Oxygen Reduction Potential (ORP)	-99.6	mV			Field	06/11/2015 1252	
Anions/Cations							
Alkalinity, Total (As CaCO3)	574	mg/L		5	SM 2320B	06/23/2015 1819	MRL
Alkalinity, Bicarbonate as HCO3	635	mg/L		5	SM 2320B	06/23/2015 1819	MRL
Alkalinity, Carbonate as CO3	32	mg/L		5	SM 2320B	06/23/2015 1819	MRL
Chloride	6	mg/L		1	EPA 300.0	06/23/2015 1921	AB
Fluoride	1.7	mg/L		0.1	SM 4500FC	06/13/2015 615	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1350	AMB
Sulfate	248	mg/L		1	EPA 300.0	06/23/2015 1921	AB
Calcium	4	mg/L		1	EPA 200.7	06/23/2015 2115	DG
Magnesium	2	mg/L		1	EPA 200.7	06/23/2015 2115	DG
Potassium	4	mg/L		1	EPA 200.7	06/23/2015 2115	DG
Sodium	389	mg/L		1	EPA 200.7	06/23/2015 2115	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1226	AMB
Silica as SiO2	7.8	mg/L		0.1	EPA 200.7	06/13/2015 224	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/23/2015 1819	MRL
Electrical Conductivity	1640	µmhos/cm		5	SM 2510B	06/13/2015 615	LJK
Total Dissolved Solids (180)	1040	mg/L		10	SM 2540	06/12/2015 953	TS
Data Quality							
Cation Sum	17.40	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	16.90	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	1.44	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1010	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-004
ClientSample ID: MU1-SM10
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 12:52:00 PM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 224	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 044	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 044	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 224	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 044	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 224	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 044	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 224	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 044	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 224	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1016	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 044	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 224	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 044	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/13/2015 044	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 044	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 224	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/27/2015 2003	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/27/2015 2003	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-014
ClientSample ID: MU1 SM11
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 8:09:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.52	s.u.			Field	06/12/2015 809	
Conductivity	1136	µmhos/cm			Field	06/12/2015 809	
Dissolved Oxygen	1.89	mg/L			Field	06/12/2015 809	
Turbidity	11.25	NTU			Field	06/12/2015 809	
Temperature	10.9	℃			Field	06/12/2015 809	
Oxygen Reduction Potential (ORP)	+108	mV			Field	06/12/2015 809	
Anions/Cations							
Alkalinity, Total (As CaCO3)	591	mg/L		5	SM 2320B	06/15/2015 2319	MRL
Alkalinity, Bicarbonate as HCO3	648	mg/L		5	SM 2320B	06/15/2015 2319	MRL
Alkalinity, Carbonate as CO3	36	mg/L		5	SM 2320B	06/15/2015 2319	MRL
Chloride	5	mg/L		1	EPA 300.0	06/18/2015 234	LAB
Fluoride	1.8	mg/L		0.1	SM 4500FC	06/15/2015 2319	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1820	AMB
Sulfate	198	mg/L		1	EPA 300.0	06/18/2015 234	LAB
Calcium	3	mg/L		1	EPA 200.7	06/15/2015 2021	DG
Magnesium	1	mg/L		1	EPA 200.7	06/15/2015 2021	DG
Potassium	3	mg/L		1	EPA 200.7	06/15/2015 2021	DG
Sodium	347	mg/L		1	EPA 200.7	06/15/2015 2021	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1312	AMB
Silica as SiO2	6.9	mg/L		0.1	EPA 200.7	06/15/2015 2021	DG
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/15/2015 2319	MRL
Electrical Conductivity	1480	µmhos/cm		5	SM 2510B	06/15/2015 2319	MRL
Total Dissolved Solids (180)	950	mg/L		10	SM 2540	06/15/2015 1620	TS
Data Quality							
Cation Sum	15.44	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	16.18	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	2.32	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	920	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-014
ClientSample ID: MU1 SM11
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 8:09:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 2021	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 202	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 202	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/15/2015 2021	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 202	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 2021	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 202	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 2021	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 202	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 2021	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1202	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 202	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 2021	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 202	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/16/2015 202	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 202	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 2021	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 501	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 501	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-001
ClientSample ID: MU1-SM12
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 8:42:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.47	s.u.			Field	06/11/2015 842	
Conductivity	1552	µmhos/cm			Field	06/11/2015 842	
Dissolved Oxygen	2.03	mg/L			Field	06/11/2015 842	
Turbidity	3.65	NTU			Field	06/11/2015 842	
Depth to Water	38.96	ft			Field	06/11/2015 842	
Temperature	11.2	℃			Field	06/11/2015 842	
Oxygen Reduction Potential (ORP)	-31.5	mV			Field	06/11/2015 842	
Anions/Cations							
Alkalinity, Total (As CaCO3)	650	mg/L		5	SM 2320B	06/13/2015 536	LJK
Alkalinity, Bicarbonate as HCO3	713	mg/L		5	SM 2320B	06/13/2015 536	LJK
Alkalinity, Carbonate as CO3	39	mg/L		5	SM 2320B	06/13/2015 536	LJK
Chloride	4	mg/L		1	EPA 300.0	06/17/2015 1811	LAB
Fluoride	1.5	mg/L		0.1	SM 4500FC	06/13/2015 536	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1338	AMB
Sulfate	281	mg/L		1	EPA 300.0	06/17/2015 1811	LAB
Calcium	5	mg/L		1	EPA 200.7	06/13/2015 203	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/13/2015 203	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 203	BJ
Sodium	453	mg/L		1	EPA 200.7	06/13/2015 203	BJ
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1214	AMB
Silica as SiO2	7.5	mg/L		0.1	EPA 200.7	06/13/2015 203	BJ
General Parameters							
pH	8.8	s.u.		0.1	SM 4500 H B	06/13/2015 536	LJK
Electrical Conductivity	1830	µmhos/cm		5	SM 2510B	06/13/2015 536	LJK
Total Dissolved Solids (180)	1160	mg/L		10	SM 2540	06/12/2015 950	TS
Data Quality							
Cation Sum	20.28	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Anion Sum	19.04	meq/L		0.01	SM 1030E	06/24/2015 1408	JJ
Cation-Anion Balance (± 5%)	3.16	%		0.01	SM 1030E	06/24/2015 1408	JJ
Solids, Total Dissolved (Calc)	1150	mg/L		10	SM 1030E	06/24/2015 1408	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1506260001

ProjectName: Ross MU1 ISR
Lab ID: S1506260-001
ClientSample ID: MU1-SM12
COC: 160070 160050 15665

WorkOrder: S1506260
CollectionDate: 6/11/2015 8:42:00 AM
DateReceived: 6/12/2015 7:05:00 AM
FieldSampler: PS/MM/JG/TR
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 203	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/13/2015 028	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/13/2015 028	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/13/2015 203	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/13/2015 028	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 203	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/13/2015 028	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 203	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/13/2015 028	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 203	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1010	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/13/2015 028	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 203	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/13/2015 028	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/13/2015 028	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/13/2015 028	MS
Zinc	0.02	mg/L		0.01	EPA 200.7	06/13/2015 203	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/23/2015 2118	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/23/2015 2118	MB
Radium 226	0.6	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/27/2015 256	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/27/2015 256	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-008
ClientSample ID: MU1-SM13
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 10:24:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.14	s.u.			Field	06/10/2015 1024	
Conductivity	1033	µmhos/cm			Field	06/10/2015 1024	
Dissolved Oxygen	1.40	mg/L			Field	06/10/2015 1024	
Turbidity	4.62	NTU			Field	06/10/2015 1024	
Depth to Water	43.11	ft			Field	06/10/2015 1024	
Temperature	10.7	℃			Field	06/10/2015 1024	
Oxygen Reduction Potential (ORP)	-145.9	mV			Field	06/10/2015 1024	
Anions/Cations							
Alkalinity, Total (As CaCO3)	565	mg/L		5	SM 2320B	06/12/2015 705	LJK
Alkalinity, Bicarbonate as HCO3	545	mg/L		5	SM 2320B	06/12/2015 705	LJK
Alkalinity, Carbonate as CO3	71	mg/L		5	SM 2320B	06/12/2015 705	LJK
Chloride	3	mg/L		1	EPA 300.0	06/15/2015 1939	LAB
Fluoride	1.9	mg/L		0.1	SM 4500FC	06/12/2015 705	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1658	AMB
Sulfate	166	mg/L		1	EPA 300.0	06/15/2015 1939	LAB
Calcium	3	mg/L		1	EPA 200.7	06/12/2015 324	BJ
Magnesium	1	mg/L		1	EPA 200.7	06/12/2015 324	BJ
Potassium	7	mg/L		1	EPA 200.7	06/12/2015 324	BJ
Sodium	354	mg/L		1	EPA 200.7	06/12/2015 324	BJ
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1132	AMB
Silica as SiO2	8.6	mg/L		0.1	EPA 200.7	06/12/2015 324	BJ
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	06/12/2015 705	LJK
Electrical Conductivity	1450	µmhos/cm		5	SM 2510B	06/12/2015 705	LJK
Total Dissolved Solids (180)	880	mg/L		10	SM 2540	06/11/2015 1429	TS
Data Quality							
Cation Sum	15.83	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	14.96	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	2.81	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	880	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-008
ClientSample ID: MU1-SM13
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 10:24:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 324	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2130	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2130	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/12/2015 324	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2130	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 324	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2130	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 324	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2130	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 324	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1133	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2130	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 324	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2130	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/11/2015 2130	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2130	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 324	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1330	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 1330	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 1939	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 1939	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-011
ClientSample ID: MU1 SM14
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 11:43:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.49	s.u.			Field	06/11/2015 1143	
Conductivity	1390	µmhos/cm			Field	06/11/2015 1143	
Dissolved Oxygen	3.24	mg/L			Field	06/11/2015 1143	
Turbidity	4.14	NTU			Field	06/11/2015 1143	
Temperature	10.8	℃			Field	06/11/2015 1143	
Oxygen Reduction Potential (ORP)	-80	mV			Field	06/11/2015 1143	
Anions/Cations							
Alkalinity, Total (As CaCO3)	665	mg/L		5	SM 2320B	06/13/2015 432	LJK
Alkalinity, Bicarbonate as HCO3	736	mg/L		5	SM 2320B	06/13/2015 432	LJK
Alkalinity, Carbonate as CO3	37	mg/L		5	SM 2320B	06/13/2015 432	LJK
Chloride	4	mg/L		1	EPA 300.0	06/17/2015 1528	LAB
Fluoride	0.5	mg/L		0.1	SM 4500FC	06/13/2015 432	LJK
Nitrogen, Nitrate+Nitrite (as N)	0.1	mg/L		0.1	EPA 353.2	06/16/2015 1327	AMB
Sulfate	324	mg/L		1	EPA 300.0	06/17/2015 1528	LAB
Calcium	10	mg/L		1	EPA 200.7	06/13/2015 154	BJ
Magnesium	3	mg/L		1	EPA 200.7	06/13/2015 154	BJ
Potassium	5	mg/L		1	EPA 200.7	06/13/2015 154	BJ
Sodium	464	mg/L		1	EPA 200.7	06/13/2015 154	BJ
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	06/17/2015 1209	AMB
Silica as SiO2	7.8	mg/L		0.1	EPA 200.7	06/13/2015 154	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 432	LJK
Electrical Conductivity	1930	µmhos/cm		5	SM 2510B	06/13/2015 432	LJK
Total Dissolved Solids (180)	1250	mg/L		10	SM 2540	06/12/2015 946	TS
Data Quality							
Cation Sum	21.05	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	20.20	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	2.06	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1220	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-011
ClientSample ID: MU1 SM14
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 11:43:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 154	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2339	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2339	MS
Boron	0.5	mg/L		0.1	EPA 200.7	06/13/2015 154	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2339	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 154	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2339	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 154	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2339	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 154	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1321	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2339	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 154	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2339	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/12/2015 2339	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2339	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 154	BJ
Radionuclides - Dissolved							
Gross Alpha	2.9	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 1852	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 1852	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-002
ClientSample ID: MU1 DM1
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 8:52:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.09	s.u.			Field	06/11/2015 852	
Conductivity	2238	µmhos/cm			Field	06/11/2015 852	
Dissolved Oxygen	4.99	mg/L			Field	06/11/2015 852	
Turbidity	25.7	NTU			Field	06/11/2015 852	
Temperature	11.5	℃			Field	06/11/2015 852	
Oxygen Reduction Potential (ORP)	+10	mV			Field	06/11/2015 852	
Anions/Cations							
Alkalinity, Total (As CaCO3)	385	mg/L		5	SM 2320B	06/13/2015 223	LJK
Alkalinity, Bicarbonate as HCO3	378	mg/L		5	SM 2320B	06/13/2015 223	LJK
Alkalinity, Carbonate as CO3	45	mg/L		5	SM 2320B	06/13/2015 223	LJK
Chloride	658	mg/L		1	EPA 300.0	06/22/2015 2005	AB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/13/2015 223	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1304	AMB
Sulfate	164	mg/L		1	EPA 300.0	06/17/2015 1217	LAB
Calcium	7	mg/L		1	EPA 200.7	06/13/2015 105	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/13/2015 105	BJ
Potassium	8	mg/L		1	EPA 200.7	06/15/2015 1322	DG
Sodium	662	mg/L		1	EPA 200.7	06/13/2015 105	BJ
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/17/2015 1149	AMB
Silica as SiO2	7.4	mg/L		0.1	EPA 200.7	06/13/2015 105	BJ
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	06/13/2015 223	LJK
Electrical Conductivity	2920	µmhos/cm		5	SM 2510B	06/13/2015 223	LJK
Total Dissolved Solids (180)	1690	mg/L		10	SM 2540	06/12/2015 936	TS
Data Quality							
Cation Sum	29.57	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	29.71	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	0.24	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1740	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-002
ClientSample ID: MU1 DM1
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 8:52:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 105	BJ
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/12/2015 2239	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2239	MS
Boron	0.8	mg/L		0.1	EPA 200.7	06/13/2015 105	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2239	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 105	BJ
Copper	0.01	mg/L		0.01	EPA 200.8	06/12/2015 2239	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 105	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2239	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 105	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1250	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2239	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 105	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2239	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/12/2015 2239	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2239	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/13/2015 105	BJ
Radionuclides - Dissolved							
Gross Alpha	7.4	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	3.5	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 045	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 045	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-005
ClientSample ID: MU1 DM2
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 8:40:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.04	s.u.			Field	06/11/2015 840	
Conductivity	2275	µmhos/cm			Field	06/11/2015 840	
Dissolved Oxygen	5.04	mg/L			Field	06/11/2015 840	
Turbidity	24.2	NTU			Field	06/11/2015 840	
Temperature	12.0	℃			Field	06/11/2015 840	
Oxygen Reduction Potential (ORP)	+25	mV			Field	06/11/2015 840	
Anions/Cations							
Alkalinity, Total (As CaCO3)	429	mg/L		5	SM 2320B	06/13/2015 314	LJK
Alkalinity, Bicarbonate as HCO3	422	mg/L		5	SM 2320B	06/13/2015 314	LJK
Alkalinity, Carbonate as CO3	50	mg/L		5	SM 2320B	06/13/2015 314	LJK
Chloride	480	mg/L		1	EPA 300.0	06/18/2015 1746	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/13/2015 314	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1318	AMB
Sulfate	327	mg/L		1	EPA 300.0	06/17/2015 1258	LAB
Calcium	8	mg/L		1	EPA 200.7	06/13/2015 126	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/13/2015 126	BJ
Potassium	8	mg/L		1	EPA 200.7	06/15/2015 1328	DG
Sodium	690	mg/L		1	EPA 200.7	06/13/2015 126	BJ
Nitrogen, Ammonia (As N)	1.0	mg/L		0.1	EPA 350.1	06/17/2015 1153	AMB
Silica as SiO2	7.5	mg/L		0.1	EPA 200.7	06/13/2015 126	BJ
General Parameters							
pH	9.1	s.u.		0.1	SM 4500 H B	06/13/2015 314	LJK
Electrical Conductivity	2950	µmhos/cm		5	SM 2510B	06/13/2015 314	LJK
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	06/12/2015 939	TS
Data Quality							
Cation Sum	30.85	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	28.98	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	3.11	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1780	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-005
ClientSample ID: MU1 DM2
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 8:40:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 126	BJ
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/12/2015 2306	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2306	MS
Boron	0.8	mg/L		0.1	EPA 200.7	06/13/2015 126	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2306	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 126	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2306	MS
Iron	0.07	mg/L		0.05	EPA 200.7	06/13/2015 126	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2306	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 126	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1256	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2306	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 126	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2306	MS
Uranium	0.0003	mg/L		0.0003	EPA 200.8	06/12/2015 2306	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2306	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/13/2015 126	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	1.3	pCi/L		1	Ga-Tech	06/26/2015 647	MB
Radium 228 Precision (±)	0.9	pCi/L			Ga-Tech	06/26/2015 647	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-006
ClientSample ID: MU1 DM3A
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:31:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.51	s.u.			Field	06/12/2015 1031	
Conductivity	3115	µmhos/cm			Field	06/12/2015 1031	
Dissolved Oxygen	4.60	mg/L			Field	06/12/2015 1031	
Turbidity	16.16	NTU			Field	06/12/2015 1031	
Temperature	16.6	℃			Field	06/12/2015 1031	
Oxygen Reduction Potential (ORP)	47.0	mV			Field	06/12/2015 1031	
Anions/Cations							
Alkalinity, Total (As CaCO3)	331	mg/L		5	SM 2320B	06/15/2015 2121	MRL
Alkalinity, Bicarbonate as HCO3	213	mg/L		5	SM 2320B	06/15/2015 2121	MRL
Alkalinity, Carbonate as CO3	94	mg/L		5	SM 2320B	06/15/2015 2121	MRL
Chloride	431	mg/L		1	EPA 300.0	06/17/2015 2323	LAB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/15/2015 2121	MRL
Nitrogen, Nitrate+Nitrite (as N)	0.4	mg/L		0.1	EPA 353.2	06/17/2015 1808	AMB
Sulfate	790	mg/L		1	EPA 300.0	06/17/2015 2323	LAB
Calcium	4	mg/L		1	EPA 200.7	06/15/2015 1949	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/15/2015 1949	DG
Potassium	21	mg/L		1	EPA 200.7	06/15/2015 1949	DG
Sodium	771	mg/L		1	EPA 200.7	06/15/2015 1949	DG
Nitrogen, Ammonia (As N)	0.8	mg/L		0.1	EPA 350.1	06/17/2015 1253	AMB
Silica as SiO2	9.5	mg/L		0.1	EPA 200.7	06/15/2015 1949	DG
General Parameters							
pH	9.6	s.u.		0.1	SM 4500 H B	06/15/2015 2121	MRL
Electrical Conductivity	3500	µmhos/cm		5	SM 2510B	06/15/2015 2121	MRL
Total Dissolved Solids (180)	2270	mg/L		10	SM 2540	06/15/2015 1611	TS
Data Quality							
Cation Sum	34.34	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	35.30	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	1.37	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	2230	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-006
ClientSample ID: MU1 DM3A
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:31:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 1949	DG
Arsenic	0.005	mg/L		0.005	EPA 200.8	06/16/2015 051	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 051	MS
Boron	0.7	mg/L		0.1	EPA 200.7	06/15/2015 1949	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 051	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1949	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 051	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1949	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 051	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1949	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1133	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 051	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1949	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 051	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/16/2015 051	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 051	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 1949	DG
Radionuclides - Dissolved							
Gross Alpha	3.9	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	3.3	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/29/2015 215	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/29/2015 215	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-010
ClientSample ID: MU1 DM4
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:39:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.66	s.u.			Field	06/11/2015 939	
Conductivity	2211	µmhos/cm			Field	06/11/2015 939	
Dissolved Oxygen	3.79	mg/L			Field	06/11/2015 939	
Turbidity	23.4	NTU			Field	06/11/2015 939	
Temperature	12.7	℃			Field	06/11/2015 939	
Oxygen Reduction Potential (ORP)	-22	mV			Field	06/11/2015 939	
Anions/Cations							
Alkalinity, Total (As CaCO3)	414	mg/L		5	SM 2320B	06/13/2015 420	LJK
Alkalinity, Bicarbonate as HCO3	455	mg/L		5	SM 2320B	06/13/2015 420	LJK
Alkalinity, Carbonate as CO3	25	mg/L		5	SM 2320B	06/13/2015 420	LJK
Chloride	618	mg/L		1	EPA 300.0	06/18/2015 1813	AB
Fluoride	1.3	mg/L		0.1	SM 4500FC	06/13/2015 420	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1325	AMB
Sulfate	55	mg/L		1	EPA 300.0	06/17/2015 1514	LAB
Calcium	7	mg/L		1	EPA 200.7	06/13/2015 140	BJ
Magnesium	2	mg/L		1	EPA 200.7	06/13/2015 140	BJ
Potassium	5	mg/L		1	EPA 200.7	06/15/2015 1351	DG
Sodium	650	mg/L		1	EPA 200.7	06/13/2015 140	BJ
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1208	AMB
Silica as SiO2	7.7	mg/L		0.1	EPA 200.7	06/13/2015 140	BJ
General Parameters							
pH	8.7	s.u.		0.1	SM 4500 H B	06/13/2015 420	LJK
Electrical Conductivity	2850	µmhos/cm		5	SM 2510B	06/13/2015 420	LJK
Total Dissolved Solids (180)	1570	mg/L		10	SM 2540	06/12/2015 944	TS
Data Quality							
Cation Sum	28.96	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	26.90	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	3.69	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1590	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-010
ClientSample ID: MU1 DM4
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:39:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 140	BJ
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/12/2015 2334	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2334	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/13/2015 140	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2334	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 140	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2334	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 140	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2334	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 140	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1319	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2334	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 140	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2334	MS
Uranium	0.0007	mg/L		0.0003	EPA 200.8	06/12/2015 2334	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2334	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	06/13/2015 140	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 1652	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 1652	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-008
ClientSample ID: MU1 DM5
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:56:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.60	s.u.			Field	06/11/2015 956	
Conductivity	2493	µmhos/cm			Field	06/11/2015 956	
Dissolved Oxygen	4.33	mg/L			Field	06/11/2015 956	
Turbidity	21.4	NTU			Field	06/11/2015 956	
Temperature	12.8	℃			Field	06/11/2015 956	
Oxygen Reduction Potential (ORP)	-79	mV			Field	06/11/2015 956	
Anions/Cations							
Alkalinity, Total (As CaCO3)	409	mg/L		5	SM 2320B	06/13/2015 355	LJK
Alkalinity, Bicarbonate as HCO3	244	mg/L		5	SM 2320B	06/13/2015 355	LJK
Alkalinity, Carbonate as CO3	126	mg/L		5	SM 2320B	06/13/2015 355	LJK
Chloride	472	mg/L		1	EPA 300.0	06/18/2015 1800	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/13/2015 355	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1322	AMB
Sulfate	453	mg/L		1	EPA 300.0	06/17/2015 1447	LAB
Calcium	3	mg/L		1	EPA 200.7	06/13/2015 133	BJ
Magnesium	ND	mg/L		1	EPA 200.7	06/13/2015 133	BJ
Potassium	12	mg/L		1	EPA 200.7	06/15/2015 1335	DG
Sodium	757	mg/L		1	EPA 200.7	06/13/2015 133	BJ
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/17/2015 1205	AMB
Silica as SiO2	9.1	mg/L		0.1	EPA 200.7	06/13/2015 133	BJ
General Parameters							
pH	9.6	s.u.		0.1	SM 4500 H B	06/13/2015 355	LJK
Electrical Conductivity	3200	µmhos/cm		5	SM 2510B	06/13/2015 355	LJK
Total Dissolved Solids (180)	1920	mg/L		10	SM 2540	06/12/2015 942	TS
Data Quality							
Cation Sum	33.43	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	31.00	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	3.78	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1950	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-008
ClientSample ID: MU1 DM5
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:56:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 133	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2323	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2323	MS
Boron	0.8	mg/L		0.1	EPA 200.7	06/13/2015 133	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2323	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 133	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2323	MS
Iron	0.06	mg/L		0.05	EPA 200.7	06/13/2015 133	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2323	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 133	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1302	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2323	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 133	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2323	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/12/2015 2323	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2323	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/13/2015 133	BJ
Radionuclides - Dissolved							
Gross Alpha	2.2	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	2.6	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 1250	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 1250	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-013
ClientSample ID: MU1 DM6
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 8:45:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.36	s.u.			Field	06/12/2015 845	
Conductivity	2495	µmhos/cm			Field	06/12/2015 845	
Dissolved Oxygen	5.49	mg/L			Field	06/12/2015 845	
Turbidity	33.0	NTU			Field	06/12/2015 845	
Temperature	13.9	℃			Field	06/12/2015 845	
Oxygen Reduction Potential (ORP)	+38	mV			Field	06/12/2015 845	
Anions/Cations							
Alkalinity, Total (As CaCO3)	430	mg/L		5	SM 2320B	06/15/2015 2306	MRL
Alkalinity, Bicarbonate as HCO3	317	mg/L		5	SM 2320B	06/15/2015 2306	MRL
Alkalinity, Carbonate as CO3	102	mg/L		5	SM 2320B	06/15/2015 2306	MRL
Chloride	733	mg/L		1	EPA 300.0	06/18/2015 1921	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/15/2015 2306	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1819	AMB
Sulfate	8	mg/L		1	EPA 300.0	06/18/2015 220	LAB
Calcium	3	mg/L		1	EPA 200.7	06/15/2015 2019	DG
Magnesium	1	mg/L		1	EPA 200.7	06/15/2015 2019	DG
Potassium	27	mg/L		1	EPA 200.7	06/15/2015 2019	DG
Sodium	685	mg/L		1	EPA 200.7	06/15/2015 2019	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/17/2015 1310	AMB
Silica as SiO2	8.1	mg/L		0.1	EPA 200.7	06/15/2015 2019	DG
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	06/15/2015 2306	MRL
Electrical Conductivity	2970	µmhos/cm		5	SM 2510B	06/15/2015 2306	MRL
Total Dissolved Solids (180)	1680	mg/L		10	SM 2540	06/15/2015 1619	TS
Data Quality							
Cation Sum	30.76	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	29.51	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	2.07	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1720	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-013
ClientSample ID: MU1 DM6
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 8:45:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 2019	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 156	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 156	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/15/2015 2019	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 156	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 2019	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 156	MS
Iron	0.07	mg/L		0.05	EPA 200.7	06/15/2015 2019	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 156	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 2019	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1200	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 156	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 2019	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 156	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/16/2015 156	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 156	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/15/2015 2019	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 301	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 301	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-010
ClientSample ID: MU1 DM7
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:10:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	10.20	s.u.			Field	06/12/2015 910	
Conductivity	2640	µmhos/cm			Field	06/12/2015 910	
Dissolved Oxygen	5.54	mg/L			Field	06/12/2015 910	
Turbidity	200	NTU			Field	06/12/2015 910	
Temperature	14.5	℃			Field	06/12/2015 910	
Oxygen Reduction Potential (ORP)	-91	mV			Field	06/12/2015 910	
Anions/Cations							
Alkalinity, Total (As CaCO3)	526	mg/L		5	SM 2320B	06/15/2015 2227	MRL
Alkalinity, Bicarbonate as HCO3	121	mg/L		5	SM 2320B	06/15/2015 2227	MRL
Alkalinity, Carbonate as CO3	256	mg/L		5	SM 2320B	06/15/2015 2227	MRL
Chloride	689	mg/L		1	EPA 300.0	06/18/2015 1908	AB
Fluoride	1.1	mg/L		0.1	SM 4500FC	06/15/2015 2227	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1814	AMB
Sulfate	40	mg/L		1	EPA 300.0	06/18/2015 139	LAB
Calcium	3	mg/L		1	EPA 200.7	06/15/2015 2000	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/15/2015 2000	DG
Potassium	63	mg/L		1	EPA 200.7	06/15/2015 2000	DG
Sodium	685	mg/L		1	EPA 200.7	06/15/2015 2000	DG
Nitrogen, Ammonia (As N)	0.7	mg/L		0.1	EPA 350.1	06/17/2015 1258	AMB
Silica as SiO2	15.2	mg/L		0.1	EPA 200.7	06/15/2015 2000	DG
General Parameters							
pH	10.3	s.u.		0.1	SM 4500 H B	06/15/2015 2227	MRL
Electrical Conductivity	3110	µmhos/cm		5	SM 2510B	06/15/2015 2227	MRL
Total Dissolved Solids (180)	1760	mg/L		10	SM 2540	06/15/2015 1615	TS
Data Quality							
Cation Sum	31.60	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	30.83	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	1.23	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1810	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-010
ClientSample ID: MU1 DM7
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:10:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	06/15/2015 2000	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 140	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 140	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/15/2015 2000	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 140	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 2000	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 140	MS
Iron	0.10	mg/L		0.05	EPA 200.7	06/15/2015 2000	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 140	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 2000	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1141	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 140	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 2000	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 140	MS
Uranium	0.0015	mg/L		0.0003	EPA 200.8	06/16/2015 140	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 140	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 2000	DG
Radionuclides - Dissolved							
Gross Alpha	2.2	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/29/2015 2058	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/29/2015 2058	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-005
ClientSample ID: MU1 DM8
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:44:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.36	s.u.			Field	06/12/2015 1044	
Conductivity	2349	µmhos/cm			Field	06/12/2015 1044	
Dissolved Oxygen	4.00	mg/L			Field	06/12/2015 1044	
Turbidity	29.1	NTU			Field	06/12/2015 1044	
Temperature	18	℃			Field	06/12/2015 1044	
Oxygen Reduction Potential (ORP)	+88	mV			Field	06/12/2015 1044	
Anions/Cations							
Alkalinity, Total (As CaCO3)	426	mg/L		5	SM 2320B	06/15/2015 2108	MRL
Alkalinity, Bicarbonate as HCO3	310	mg/L		5	SM 2320B	06/15/2015 2108	MRL
Alkalinity, Carbonate as CO3	103	mg/L		5	SM 2320B	06/15/2015 2108	MRL
Chloride	766	mg/L		1	EPA 300.0	06/18/2015 1827	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/15/2015 2108	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1758	AMB
Sulfate	23	mg/L		1	EPA 300.0	06/17/2015 2310	LAB
Calcium	3	mg/L		1	EPA 200.7	06/15/2015 1946	DG
Magnesium	1	mg/L		1	EPA 200.7	06/15/2015 1946	DG
Potassium	23	mg/L		1	EPA 200.7	06/15/2015 1946	DG
Sodium	701	mg/L		1	EPA 200.7	06/15/2015 1946	DG
Nitrogen, Ammonia (As N)	0.8	mg/L		0.1	EPA 350.1	06/17/2015 1252	AMB
Silica as SiO2	7.8	mg/L		0.1	EPA 200.7	06/15/2015 1946	DG
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	06/15/2015 2108	MRL
Electrical Conductivity	3100	µmhos/cm		5	SM 2510B	06/15/2015 2108	MRL
Total Dissolved Solids (180)	1730	mg/L		10	SM 2540	06/15/2015 1610	TS
Data Quality							
Cation Sum	31.41	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	30.66	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	1.20	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1780	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-005
ClientSample ID: MU1 DM8
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:44:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 1946	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 046	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 046	MS
Boron	1.0	mg/L		0.1	EPA 200.7	06/15/2015 1946	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 046	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1946	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 046	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1946	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 046	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1946	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1131	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 046	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1946	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 046	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/16/2015 046	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 046	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 1946	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 1543	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 1543	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/29/2015 014	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/29/2015 014	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-009
ClientSample ID: MU1 DM9
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:20:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.49	s.u.			Field	06/12/2015 920	
Conductivity	2732	µmhos/cm			Field	06/12/2015 920	
Dissolved Oxygen	4.78	mg/L			Field	06/12/2015 920	
Turbidity	31.8	NTU			Field	06/12/2015 920	
Temperature	14.2	℃			Field	06/12/2015 920	
Oxygen Reduction Potential (ORP)	-84	mV			Field	06/12/2015 920	
Anions/Cations							
Alkalinity, Total (As CaCO3)	537	mg/L		5	SM 2320B	06/15/2015 2214	MRL
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/15/2015 2214	MRL
Alkalinity, Carbonate as CO3	241	mg/L		5	SM 2320B	06/15/2015 2214	MRL
Chloride	581	mg/L		1	EPA 300.0	06/18/2015 126	LAB
Fluoride	1.5	mg/L		0.1	SM 4500FC	06/15/2015 2214	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1813	AMB
Sulfate	88	mg/L		1	EPA 300.0	06/18/2015 126	LAB
Calcium	3	mg/L		1	EPA 200.7	06/15/2015 1956	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/15/2015 1956	DG
Potassium	72	mg/L		1	EPA 200.7	06/15/2015 1956	DG
Sodium	608	mg/L		1	EPA 200.7	06/15/2015 1956	DG
Nitrogen, Ammonia (As N)	1.2	mg/L		0.1	EPA 350.1	06/17/2015 1257	AMB
Silica as SiO2	23.1	mg/L		0.1	EPA 200.7	06/15/2015 1956	DG
General Parameters							
pH	11.3	s.u.		0.1	SM 4500 H B	06/15/2015 2214	MRL
Electrical Conductivity	3090	µmhos/cm		5	SM 2510B	06/15/2015 2214	MRL
Total Dissolved Solids (180)	1580	mg/L		10	SM 2540	06/15/2015 1614	TS
Data Quality							
Cation Sum	28.53	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	29.05	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	0.89	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1700	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-009
ClientSample ID: MU1 DM9
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:20:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.8	mg/L		0.1	EPA 200.7	06/15/2015 1956	DG
Arsenic	0.006	mg/L		0.005	EPA 200.8	06/16/2015 134	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 134	MS
Boron	1.0	mg/L		0.1	EPA 200.7	06/15/2015 1956	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 134	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1956	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 134	MS
Iron	0.07	mg/L		0.05	EPA 200.7	06/15/2015 1956	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 134	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1956	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1139	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 134	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1956	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 134	MS
Uranium	0.0006	mg/L		0.0003	EPA 200.8	06/16/2015 134	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 134	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 1956	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/29/2015 818	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/29/2015 818	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-007
ClientSample ID: MU1 DM10
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:16:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.37	s.u.			Field	06/12/2015 1016	
Conductivity	2531	µmhos/cm			Field	06/12/2015 1016	
Dissolved Oxygen	5.17	mg/L			Field	06/12/2015 1016	
Turbidity	45.5	NTU			Field	06/12/2015 1016	
Temperature	13.9	℃			Field	06/12/2015 1016	
Oxygen Reduction Potential (ORP)	+29	mV			Field	06/12/2015 1016	
Anions/Cations							
Alkalinity, Total (As CaCO3)	465	mg/L		5	SM 2320B	06/15/2015 2133	MRL
Alkalinity, Bicarbonate as HCO3	351	mg/L		5	SM 2320B	06/15/2015 2133	MRL
Alkalinity, Carbonate as CO3	107	mg/L		5	SM 2320B	06/15/2015 2133	MRL
Chloride	658	mg/L		1	EPA 300.0	06/18/2015 1841	AB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/15/2015 2133	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1810	AMB
Sulfate	103	mg/L		1	EPA 300.0	06/18/2015 059	LAB
Calcium	4	mg/L		1	EPA 200.7	06/15/2015 1951	DG
Magnesium	1	mg/L		1	EPA 200.7	06/15/2015 1951	DG
Potassium	31	mg/L		1	EPA 200.7	06/15/2015 1951	DG
Sodium	690	mg/L		1	EPA 200.7	06/15/2015 1951	DG
Nitrogen, Ammonia (As N)	0.6	mg/L		0.1	EPA 350.1	06/17/2015 1254	AMB
Silica as SiO2	10.8	mg/L		0.1	EPA 200.7	06/15/2015 1951	DG
General Parameters							
pH	9.5	s.u.		0.1	SM 4500 H B	06/15/2015 2133	MRL
Electrical Conductivity	3030	µmhos/cm		5	SM 2510B	06/15/2015 2133	MRL
Total Dissolved Solids (180)	1750	mg/L		10	SM 2540	06/15/2015 1612	TS
Data Quality							
Cation Sum	31.17	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	30.05	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	1.83	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1780	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-007
ClientSample ID: MU1 DM10
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 10:16:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.1	mg/L		0.1	EPA 200.7	06/15/2015 1951	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 057	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 057	MS
Boron	0.9	mg/L		0.1	EPA 200.7	06/15/2015 1951	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 057	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1951	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 057	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1951	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 057	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1951	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1135	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 057	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1951	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 057	MS
Uranium	0.0005	mg/L		0.0003	EPA 200.8	06/16/2015 057	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 057	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 1951	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/29/2015 416	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/29/2015 416	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-008
ClientSample ID: MU1 DM11
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:52:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.23	s.u.			Field	06/12/2015 952	
Conductivity	2054	µmhos/cm			Field	06/12/2015 952	
Dissolved Oxygen	4.20	mg/L			Field	06/12/2015 952	
Turbidity	9.14	NTU			Field	06/12/2015 952	
Temperature	13.0	℃			Field	06/12/2015 952	
Oxygen Reduction Potential (ORP)	+16	mV			Field	06/12/2015 952	
Anions/Cations							
Alkalinity, Total (As CaCO3)	533	mg/L		5	SM 2320B	06/15/2015 2146	MRL
Alkalinity, Bicarbonate as HCO3	465	mg/L		5	SM 2320B	06/15/2015 2146	MRL
Alkalinity, Carbonate as CO3	91	mg/L		5	SM 2320B	06/15/2015 2146	MRL
Chloride	517	mg/L		1	EPA 300.0	06/18/2015 1854	AB
Fluoride	1.2	mg/L		0.1	SM 4500FC	06/15/2015 2146	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1811	AMB
Sulfate	5	mg/L		1	EPA 300.0	06/18/2015 112	LAB
Calcium	3	mg/L		1	EPA 200.7	06/15/2015 1953	DG
Magnesium	1	mg/L		1	EPA 200.7	06/15/2015 1953	DG
Potassium	37	mg/L		1	EPA 200.7	06/15/2015 1953	DG
Sodium	568	mg/L		1	EPA 200.7	06/15/2015 1953	DG
Nitrogen, Ammonia (As N)	0.5	mg/L		0.1	EPA 350.1	06/17/2015 1256	AMB
Silica as SiO2	7.9	mg/L		0.1	EPA 200.7	06/15/2015 1953	DG
General Parameters							
pH	9.3	s.u.		0.1	SM 4500 H B	06/15/2015 2146	MRL
Electrical Conductivity	2520	µmhos/cm		5	SM 2510B	06/15/2015 2146	MRL
Total Dissolved Solids (180)	1410	mg/L		10	SM 2540	06/15/2015 1613	TS
Data Quality							
Cation Sum	25.92	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	25.40	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	1.01	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	1460	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-008
ClientSample ID: MU1 DM11
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 9:52:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 1953	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 129	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 129	MS
Boron	0.8	mg/L		0.1	EPA 200.7	06/15/2015 1953	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 129	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 1953	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/16/2015 129	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 1953	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 129	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 1953	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1137	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 129	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 1953	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 129	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/16/2015 129	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 129	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/15/2015 1953	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/29/2015 617	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/29/2015 617	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-007
ClientSample ID: MU1 DM12
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:42:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.57	s.u.			Field	06/11/2015 942	
Conductivity	3367	µmhos/cm			Field	06/11/2015 942	
Dissolved Oxygen	5.55	mg/L			Field	06/11/2015 942	
Turbidity	16.49	NTU			Field	06/11/2015 942	
Temperature	11.9	℃			Field	06/11/2015 942	
Oxygen Reduction Potential (ORP)	-156	mV			Field	06/11/2015 942	
Anions/Cations							
Alkalinity, Total (As CaCO3)	443	mg/L		5	SM 2320B	06/13/2015 341	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/13/2015 341	LJK
Alkalinity, Carbonate as CO3	214	mg/L		5	SM 2320B	06/13/2015 341	LJK
Chloride	333	mg/L		1	EPA 300.0	06/17/2015 1433	LAB
Fluoride	0.8	mg/L		0.1	SM 4500FC	06/13/2015 341	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1321	AMB
Sulfate	1050	mg/L		1	EPA 300.0	06/17/2015 1433	LAB
Calcium	2	mg/L		1	EPA 200.7	06/13/2015 131	BJ
Magnesium	ND	mg/L		1	EPA 200.7	06/13/2015 131	BJ
Potassium	50	mg/L		1	EPA 200.7	06/15/2015 1333	DG
Sodium	883	mg/L		1	EPA 200.7	06/13/2015 131	BJ
Nitrogen, Ammonia (As N)	1.5	mg/L		0.1	EPA 350.1	06/17/2015 1204	AMB
Silica as SiO2	7.8	mg/L		0.1	EPA 200.7	06/13/2015 131	BJ
General Parameters							
pH	11.3	s.u.		0.1	SM 4500 H B	06/13/2015 341	LJK
Electrical Conductivity	4340	µmhos/cm		5	SM 2510B	06/13/2015 341	LJK
Total Dissolved Solids (180)	2640	mg/L		10	SM 2540	06/12/2015 941	TS
Data Quality							
Cation Sum	39.91	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	40.13	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	0.26	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	2590	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-007
ClientSample ID: MU1 DM12
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:42:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 131	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2317	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2317	MS
Boron	0.6	mg/L		0.1	EPA 200.7	06/13/2015 131	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2317	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 131	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2317	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 131	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2317	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 131	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1300	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2317	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 131	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2317	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/12/2015 2317	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2317	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/13/2015 131	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 1049	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 1049	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
M	Value exceeds Monthly Ave or MCL or is less than LCL
O	Outside the Range of Dilutions
X	Matrix Effect
C	Calculated Value
H	Holding times for preparation or analysis exceeded
L	Analyzed by a contract laboratory
ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-004
ClientSample ID: MU1 DM13
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:02:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.21	s.u.			Field	06/11/2015 902	
Conductivity	2546	µmhos/cm			Field	06/11/2015 902	
Dissolved Oxygen	7.05	mg/L			Field	06/11/2015 902	
Turbidity	38.0	NTU			Field	06/11/2015 902	
Temperature	11.4	℃			Field	06/11/2015 902	
Oxygen Reduction Potential (ORP)	+39	mV			Field	06/11/2015 902	
Anions/Cations							
Alkalinity, Total (As CaCO3)	795	mg/L		5	SM 2320B	06/13/2015 302	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/13/2015 302	LJK
Alkalinity, Carbonate as CO3	441	mg/L		5	SM 2320B	06/13/2015 302	LJK
Chloride	547	mg/L		1	EPA 300.0	06/17/2015 1244	LAB
Fluoride	1.0	mg/L		0.1	SM 4500FC	06/13/2015 302	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/16/2015 1307	AMB
Sulfate	91	mg/L		1	EPA 300.0	06/17/2015 1244	LAB
Calcium	3	mg/L		1	EPA 200.7	06/13/2015 124	BJ
Magnesium	ND	mg/L		1	EPA 200.7	06/13/2015 124	BJ
Potassium	149	mg/L		1	EPA 200.7	06/15/2015 1326	DG
Sodium	668	mg/L		1	EPA 200.7	06/13/2015 124	BJ
Nitrogen, Ammonia (As N)	0.9	mg/L		0.1	EPA 350.1	06/17/2015 1152	AMB
Silica as SiO2	7.7	mg/L		0.1	EPA 200.7	06/13/2015 124	BJ
General Parameters							
pH	11.1	s.u.		0.1	SM 4500 H B	06/13/2015 302	LJK
Electrical Conductivity	3430	µmhos/cm		5	SM 2510B	06/13/2015 302	LJK
Total Dissolved Solids (180)	1820	mg/L		10	SM 2540	06/12/2015 938	TS
Data Quality							
Cation Sum	33.08	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Anion Sum	33.26	meq/L		0.01	SM 1030E	06/24/2015 1413	JJ
Cation-Anion Balance (± 5%)	0.28	%		0.01	SM 1030E	06/24/2015 1413	JJ
Solids, Total Dissolved (Calc)	1940	mg/L		10	SM 1030E	06/24/2015 1413	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506259001

ProjectName: Ross MU1 ISR
Lab ID: S1506259-004
ClientSample ID: MU1 DM13
COC: 160054

WorkOrder: S1506259
CollectionDate: 6/11/2015 9:02:00 AM
DateReceived: 6/11/2015 3:00:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/13/2015 124	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/12/2015 2301	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/12/2015 2301	MS
Boron	0.8	mg/L		0.1	EPA 200.7	06/13/2015 124	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/12/2015 2301	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/13/2015 124	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/12/2015 2301	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/13/2015 124	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/12/2015 2301	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/13/2015 124	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1254	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/12/2015 2301	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/13/2015 124	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/12/2015 2301	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/12/2015 2301	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/12/2015 2301	MS
Zinc	0.01	mg/L		0.01	EPA 200.7	06/13/2015 124	BJ
Radionuclides - Dissolved							
Gross Alpha	3.5	pCi/L		2	SM 7110B	06/22/2015 2118	MB
Gross Alpha Precision (±)	2.7	pCi/L			SM 7110B	06/22/2015 2118	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 918	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 918	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/26/2015 446	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/26/2015 446	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-012
ClientSample ID: MU1 DM14
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 8:30:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	11.23	s.u.			Field	06/12/2015 830	
Conductivity	2957	µmhos/cm			Field	06/12/2015 830	
Dissolved Oxygen	4.47	mg/L			Field	06/12/2015 830	
Turbidity	19.76	NTU			Field	06/12/2015 830	
Temperature	13.6	℃			Field	06/12/2015 830	
Oxygen Reduction Potential (ORP)	+24	mV			Field	06/12/2015 830	
Anions/Cations							
Alkalinity, Total (As CaCO3)	841	mg/L		5	SM 2320B	06/15/2015 2254	MRL
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/15/2015 2254	MRL
Alkalinity, Carbonate as CO3	466	mg/L		5	SM 2320B	06/15/2015 2254	MRL
Chloride	412	mg/L		1	EPA 300.0	06/18/2015 207	LAB
Fluoride	0.9	mg/L		0.1	SM 4500FC	06/15/2015 2254	MRL
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/17/2015 1817	AMB
Sulfate	272	mg/L		1	EPA 300.0	06/18/2015 207	LAB
Calcium	4	mg/L		1	EPA 200.7	06/15/2015 2016	DG
Magnesium	1	mg/L		1	EPA 200.7	06/15/2015 2016	DG
Potassium	156	mg/L		1	EPA 200.7	06/15/2015 2016	DG
Sodium	644	mg/L		1	EPA 200.7	06/15/2015 2016	DG
Nitrogen, Ammonia (As N)	1.3	mg/L		0.1	EPA 350.1	06/17/2015 1309	AMB
Silica as SiO2	6.7	mg/L		0.1	EPA 200.7	06/15/2015 2016	DG
General Parameters							
pH	11.1	s.u.		0.1	SM 4500 H B	06/15/2015 2254	MRL
Electrical Conductivity	3510	µmhos/cm		5	SM 2510B	06/15/2015 2254	MRL
Total Dissolved Solids (180)	2010	mg/L		10	SM 2540	06/15/2015 1618	TS
Data Quality							
Cation Sum	32.40	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Anion Sum	34.16	meq/L		0.01	SM 1030E	06/22/2015 1618	JJ
Cation-Anion Balance (± 5%)	2.64	%		0.01	SM 1030E	06/22/2015 1618	JJ
Solids, Total Dissolved (Calc)	2000	mg/L		10	SM 1030E	06/22/2015 1618	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506287001

ProjectName: Ross MU1 ISR
Lab ID: S1506287-012
ClientSample ID: MU1 DM14
COC: 160048

WorkOrder: S1506287
CollectionDate: 6/12/2015 8:30:00 AM
DateReceived: 6/12/2015 4:56:00 PM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/15/2015 2016	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/16/2015 151	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/16/2015 151	MS
Boron	0.7	mg/L		0.1	EPA 200.7	06/15/2015 2016	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/16/2015 151	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/15/2015 2016	DG
Copper	0.01	mg/L		0.01	EPA 200.8	06/16/2015 151	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/15/2015 2016	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/16/2015 151	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/15/2015 2016	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/19/2015 1152	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/16/2015 151	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/15/2015 2016	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/16/2015 151	MS
Uranium	0.0006	mg/L		0.0003	EPA 200.8	06/16/2015 151	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/16/2015 151	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/15/2015 2016	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/25/2015 2148	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/25/2015 2148	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1920	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/22/2015 1920	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 100	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 100	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
1849 Terra Avenue
Sheridan, WY 82801

Date Reported 4/27/2015
Report ID S1504001001

ProjectName: ROSS
Lab ID: S1504001-001
ClientSample ID: MU1-SA-1
COC: 137347

WorkOrder: S1504001
CollectionDate: 3/31/2015 10:40:00 AM
DateReceived: 4/1/2015 7:02:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.36	s.u.			Field	03/31/2015 1040	
Conductivity	7250	µmhos/cm			Field	03/31/2015 1040	
Dissolved Oxygen	3.96	mg/L			Field	03/31/2015 1040	
Dissolved Oxygen (pct)	35.0	%			Field	03/31/2015 1040	
Turbidity	952	NTU			Field	03/31/2015 1040	
Temperature	6.4	℃			Field	03/31/2015 1040	
Static Water Level	5.06	ft			Field	03/31/2015 1040	
Oxygen Reduction Potential (ORP)	-148	mV			Field	03/31/2015 1040	
Anions/Cations							
Alkalinity, Total (As CaCO3)	1140	mg/L		5	SM 2320B	04/01/2015 1648	BT
Alkalinity, Bicarbonate as HCO3	1310	mg/L		5	SM 2320B	04/01/2015 1648	BT
Alkalinity, Carbonate as CO3	42	mg/L		5	SM 2320B	04/01/2015 1648	BT
Chloride	2	mg/L		1	EPA 300.0	04/08/2015 1008	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	04/01/2015 1648	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	04/06/2015 1618	AMB
Sulfate	2910	mg/L		1	EPA 300.0	04/01/2015 1339	AB
Calcium	56	mg/L		1	EPA 200.7	04/01/2015 2012	DG
Magnesium	63	mg/L		1	EPA 200.7	04/01/2015 2012	DG
Potassium	7	mg/L		1	EPA 200.7	04/09/2015 1246	DG
Sodium	1660	mg/L		1	EPA 200.7	04/01/2015 2012	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	04/01/2015 1028	AMB
General Parameters							
pH	8.5	s.u.		0.1	SM 4500 H B	04/01/2015 1648	BT
Electrical Conductivity	7130	µmhos/cm		5	SM 2510B	04/01/2015 1648	BT
Total Dissolved Solids (180)	5760	mg/L		10	SM 2540	04/01/2015 1246	IR
Data Quality							
Cation Sum	80.40	meq/L		0.01	SM 1030E	04/10/2015 1105	WN
Anion Sum	83.55	meq/L		0.01	SM 1030E	04/10/2015 1105	WN
Cation-Anion Balance (± 5%)	1.92	%		0.01	SM 1030E	04/10/2015 1105	WN
Solids, Total Dissolved (Calc)	5390	mg/L		10	SM 1030E	04/10/2015 1105	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
1849 Terra Avenue
Sheridan, WY 82801

Date Reported 4/27/2015
Report ID S1504001001

ProjectName: ROSS
Lab ID: S1504001-001
ClientSample ID: MU1-SA-1
COC: 137347

WorkOrder: S1504001
CollectionDate: 3/31/2015 10:40:00 AM
DateReceived: 4/1/2015 7:02:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.5	mg/L		0.1	EPA 200.7	04/01/2015 2012	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/02/2015 1357	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/02/2015 1357	MS
Boron	0.3	mg/L		0.1	EPA 200.7	04/01/2015 2012	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/02/2015 1357	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/01/2015 2012	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/02/2015 1357	MS
Iron	0.20	mg/L		0.05	EPA 200.7	04/01/2015 2012	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/02/2015 1357	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/02/2015 910	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/02/2015 1357	MS
Nickel	0.02	mg/L		0.01	EPA 200.7	04/01/2015 2012	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/02/2015 1357	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/02/2015 1357	MS
Uranium	0.118	mg/L		0.0003	EPA 200.8	04/02/2015 1357	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/02/2015 1357	MS
Zinc	0.10	mg/L		0.01	EPA 200.7	04/01/2015 2012	DG
Metals - Suspended							
Uranium	0.0014	mg/L		0.0003	EPA 200.8	04/10/2015 2234	MS
Metals - Total							
Iron	54.2	mg/L		0.05	EPA 200.7	04/06/2015 1504	DG
Manganese	1.08	mg/L		0.02	EPA 200.7	04/06/2015 1504	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
1849 Terra Avenue
Sheridan, WY 82801

Date Reported 4/27/2015
Report ID S1504001001

ProjectName: ROSS
Lab ID: S1504001-001
ClientSample ID: MU1-SA-1
COC: 137347

WorkOrder: S1504001
CollectionDate: 3/31/2015 10:40:00 AM
DateReceived: 4/1/2015 7:02:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	36.2	pCi/L		13	SM 7110B	04/14/2015 1043	MB
Gross Alpha Precision (±)	12.9	pCi/L			SM 7110B	04/14/2015 1043	MB
Gross Beta	48.3	pCi/L		21	SM 7110B	04/14/2015 1043	MB
Gross Beta Precision (±)	15.7	pCi/L			SM 7110B	04/14/2015 1043	MB
Lead 210	3.2	pCi/L		1	OTW01	04/23/2015 1049	MB
Lead 210 (Dissolved) Precision (±)	0.8	pCi/L			OTW01	04/23/2015 1049	MB
Polonium 210	ND	pCi/L		1	OTW01	04/23/2015 1603	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	04/23/2015 1603	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/20/2015 1345	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/20/2015 1345	MB
Radium 228	ND	pCi/L		1	Ga-Tech	04/13/2015 422	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	04/13/2015 422	MB
Thorium 230	ND	pCi/L		0.2	ACW10	04/20/2015 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/20/2015 918	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	04/20/2015 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/23/2015 1049	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	04/23/2015 1049	MB
Polonium 210	ND	pCi/L		1	OTW01	04/23/2015 1603	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	04/23/2015 1603	MB
Radium 226	0.4	pCi/L		0.2	SM 7500 Ra-B	04/21/2015 1132	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	04/21/2015 1132	MB
Thorium 230	ND	pCi/L		0.2	ACW10	04/20/2015 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/20/2015 918	MB
Thorium 229 Tracer (30-120)	89	%			ACW10	04/20/2015 918	MB
Radionuclides - Total							
Radon 222	327	pCi/L		100	ASTM D5072-09	04/01/2015 1857	MB
Radon-222 Precision (±)	14.8	pCi/L			ASTM D5072-09	04/01/2015 1857	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
1849 Terra Avenue
Sheridan, WY 82801

Date Reported 4/27/2015
Report ID S1504001001

ProjectName: ROSS
Lab ID: S1504001-002
ClientSample ID: MU1-SA-3
COC: 137347

WorkOrder: S1504001
CollectionDate: 3/31/2015 1:30:00 PM
DateReceived: 4/1/2015 7:02:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.08	s.u.			Field	03/31/2015 1330	
Conductivity	1650	µmhos/cm			Field	03/31/2015 1330	
Dissolved Oxygen	3.50	mg/L			Field	03/31/2015 1330	
Dissolved Oxygen (pct)	31.4	%			Field	03/31/2015 1330	
Turbidity	930	NTU			Field	03/31/2015 1330	
Temperature	7.5	℃			Field	03/31/2015 1330	
Static Water Level	6.01	ft			Field	03/31/2015 1330	
Oxygen Reduction Potential (ORP)	-33	mV			Field	03/31/2015 1330	
Anions/Cations							
Alkalinity, Total (As CaCO3)	672	mg/L		5	SM 2320B	04/01/2015 1731	BT
Alkalinity, Bicarbonate as HCO3	762	mg/L		5	SM 2320B	04/01/2015 1731	BT
Alkalinity, Carbonate as CO3	29	mg/L		5	SM 2320B	04/01/2015 1731	BT
Chloride	14	mg/L		1	EPA 300.0	04/01/2015 1352	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	04/01/2015 1731	BT
Nitrogen, Nitrate+Nitrite (as N)	0.4	mg/L		0.1	EPA 353.2	04/06/2015 1124	AMB
Sulfate	239	mg/L		1	EPA 300.0	04/01/2015 1352	AB
Calcium	41	mg/L		1	EPA 200.7	04/01/2015 2014	DG
Magnesium	19	mg/L		1	EPA 200.7	04/01/2015 2014	DG
Potassium	4	mg/L		1	EPA 200.7	04/01/2015 2014	DG
Sodium	318	mg/L		1	EPA 200.7	04/01/2015 2014	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	04/01/2015 1030	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	04/01/2015 1731	BT
Electrical Conductivity	1670	µmhos/cm		5	SM 2510B	04/01/2015 1731	BT
Total Dissolved Solids (180)	1160	mg/L		10	SM 2540	04/01/2015 1247	IR
Data Quality							
Cation Sum	17.59	meq/L		0.01	SM 1030E	04/10/2015 1105	WN
Anion Sum	18.86	meq/L		0.01	SM 1030E	04/10/2015 1105	WN
Cation-Anion Balance (± 5%)	3.46	%		0.01	SM 1030E	04/10/2015 1105	WN
Solids, Total Dissolved (Calc)	1040	mg/L		10	SM 1030E	04/10/2015 1105	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
1849 Terra Avenue
Sheridan, WY 82801

Date Reported 4/27/2015
Report ID S1504001001

ProjectName: ROSS
Lab ID: S1504001-002
ClientSample ID: MU1-SA-3
COC: 137347

WorkOrder: S1504001
CollectionDate: 3/31/2015 1:30:00 PM
DateReceived: 4/1/2015 7:02:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	04/01/2015 2014	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/02/2015 1402	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/02/2015 1402	MS
Boron	ND	mg/L		0.1	EPA 200.7	04/01/2015 2014	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/02/2015 1402	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/01/2015 2014	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/02/2015 1402	MS
Iron	0.11	mg/L		0.05	EPA 200.7	04/01/2015 2014	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/02/2015 1402	MS
Mercury	ND	mg/L		0.001	EPA 245.1	04/02/2015 912	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/02/2015 1402	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/01/2015 2014	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/02/2015 1402	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/02/2015 1402	MS
Uranium	0.0115	mg/L		0.0003	EPA 200.8	04/02/2015 1402	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/02/2015 1402	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/01/2015 2014	DG
Metals - Suspended							
Uranium	0.0003	mg/L		0.0003	EPA 200.8	04/10/2015 2306	MS
Metals - Total							
Iron	33.0	mg/L		0.05	EPA 200.7	04/06/2015 1507	DG
Manganese	1.52	mg/L		0.02	EPA 200.7	04/06/2015 1507	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
1849 Terra Avenue
Sheridan, WY 82801

Date Reported 4/27/2015
Report ID S1504001001

ProjectName: ROSS
Lab ID: S1504001-002
ClientSample ID: MU1-SA-3
COC: 137347

WorkOrder: S1504001
CollectionDate: 3/31/2015 1:30:00 PM
DateReceived: 4/1/2015 7:02:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	8.9	pCi/L		3	SM 7110B	04/14/2015 1043	MB
Gross Alpha Precision (±)	2.9	pCi/L			SM 7110B	04/14/2015 1043	MB
Gross Beta	4.4	pCi/L		4	SM 7110B	04/14/2015 1043	MB
Gross Beta Precision (±)	3.0	pCi/L			SM 7110B	04/14/2015 1043	MB
Lead 210	3.4	pCi/L		1	OTW01	04/23/2015 1049	MB
Lead 210 (Dissolved) Precision (±)	1.6	pCi/L			OTW01	04/23/2015 1049	MB
Polonium 210	ND	pCi/L		1	OTW01	04/23/2015 1603	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	04/23/2015 1603	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	04/20/2015 1345	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	04/20/2015 1345	MB
Radium 228	ND	pCi/L		1	Ga-Tech	04/13/2015 724	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	04/13/2015 724	MB
Thorium 230	ND	pCi/L		0.2	ACW10	04/20/2015 918	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/20/2015 918	MB
Thorium 229 Tracer (30-120)	100	%			ACW10	04/20/2015 918	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	04/23/2015 1049	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	04/23/2015 1049	MB
Polonium 210	ND	pCi/L		1	OTW01	04/23/2015 1603	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	04/23/2015 1603	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	04/21/2015 1132	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	04/21/2015 1132	MB
Thorium 230	ND	pCi/L		0.2	ACW10	04/20/2015 1321	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	04/20/2015 1321	MB
Thorium 229 Tracer (30-120)	86	%			ACW10	04/20/2015 1321	MB
Radionuclides - Total							
Radon 222	1230	pCi/L		100	ASTM D5072-09	04/01/2015 2008	MB
Radon-222 Precision (±)	31.2	pCi/L			ASTM D5072-09	04/01/2015 2008	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-003
ClientSample ID: MU1-SA1
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 3:00:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.12	s.u.			Field	05/20/2015 1500	
Conductivity	7770	µmhos/cm			Field	05/20/2015 1500	
Dissolved Oxygen	2.13	mg/L			Field	05/20/2015 1500	
Dissolved Oxygen (pct)	20.3	%			Field	05/20/2015 1500	
Turbidity	175	NTU			Field	05/20/2015 1500	
Temperature	10.2	℃			Field	05/20/2015 1500	
Oxygen Reduction Potential (ORP)	+144	mV			Field	05/20/2015 1500	
Anions/Cations							
Alkalinity, Total (As CaCO3)	1110	mg/L		5	SM 2320B	05/22/2015 1753	BT
Alkalinity, Bicarbonate as HCO3	1240	mg/L		5	SM 2320B	05/22/2015 1753	BT
Alkalinity, Carbonate as CO3	55	mg/L		5	SM 2320B	05/22/2015 1753	BT
Chloride	3	mg/L		1	EPA 300.0	05/27/2015 1455	AB
Fluoride	0.2	mg/L		0.1	SM 4500FC	05/22/2015 1753	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1519	AMB
Sulfate	2420	mg/L		1	EPA 300.0	05/27/2015 1455	AB
Calcium	45	mg/L		1	EPA 200.7	05/22/2015 1626	DG
Magnesium	59	mg/L		1	EPA 200.7	05/22/2015 1626	DG
Potassium	8	mg/L		1	EPA 200.7	05/22/2015 1626	DG
Sodium	1660	mg/L		1	EPA 200.7	05/22/2015 1626	DG
Nitrogen, Ammonia (As N)	0.1	mg/L		0.1	EPA 350.1	05/28/2015 1311	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/22/2015 1753	BT
Electrical Conductivity	5880	µmhos/cm		5	SM 2510B	05/22/2015 1753	BT
Total Dissolved Solids (180)	5080	mg/L		10	SM 2540	05/22/2015 1514	LJK
Data Quality							
Cation Sum	79.56	meq/L		0.01	SM 1030E	06/02/2015 928	JJ
Anion Sum	72.61	meq/L		0.01	SM 1030E	06/02/2015 928	JJ
Cation-Anion Balance (± 5%)	4.56	%		0.01	SM 1030E	06/02/2015 928	JJ
Solids, Total Dissolved (Calc)	4860	mg/L		10	SM 1030E	06/02/2015 928	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-003
ClientSample ID: MU1-SA1
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 3:00:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/22/2015 1626	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/22/2015 2356	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/22/2015 2356	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/22/2015 1626	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/22/2015 2356	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/22/2015 1626	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/22/2015 2356	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/22/2015 1626	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/22/2015 2356	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1021	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/22/2015 2356	MS
Nickel	0.02	mg/L		0.01	EPA 200.7	05/22/2015 1626	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/22/2015 2356	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/22/2015 2356	MS
Uranium	0.175	mg/L		0.0003	EPA 200.8	05/22/2015 2356	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/22/2015 2356	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/22/2015 1626	DG
Metals - Suspended							
Uranium	0.0713	mg/L		0.0003	EPA 200.8	05/29/2015 2113	MS
Metals - Total							
Iron	205	mg/L		0.05	EPA 200.7	05/27/2015 2028	DG
Manganese	2.78	mg/L		0.02	EPA 200.7	05/27/2015 2028	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-003
ClientSample ID: MU1-SA1
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 3:00:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	103	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	17.5	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	20.3	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	14.6	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	4.6	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	1.0	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 857	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 857	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 805	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 805	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/10/2015 833	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/10/2015 833	MB
Radionuclides - Suspended							
Lead 210	9.7	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Suspended) Precision (±)	3.0	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	1.3	pCi/L		1	OTW01	06/24/2015 1259	MB
Polonium 210 (Suspended) Precision (±)	1.9	pCi/L			OTW01	06/24/2015 1259	MB
Radium 226	6.5	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	0.4	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	11.7	pCi/L		0.2	ACW10	06/18/2015 826	MB
Thorium 230 Precision (±)	2.5	pCi/L			ACW10	06/18/2015 826	MB
Radionuclides - Total							
Radon 222	330	pCi/L		100	ASTM D5072-09	05/22/2015 1610	WN
Radon-222 Precision (±)	15.1	pCi/L			ASTM D5072-09	05/22/2015 1610	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504421001

ProjectName: ROSS
Lab ID: S1504421-001
ClientSample ID: MU1-SA2
COC: 137363

WorkOrder: S1504421
CollectionDate: 4/29/2015 9:30:00 AM
DateReceived: 4/29/2015 4:04:00 PM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	9.26	s.u.			Field	04/29/2015 930	
Conductivity	1305	µmhos/cm			Field	04/29/2015 930	
Dissolved Oxygen	2.58	mg/L			Field	04/29/2015 930	
Dissolved Oxygen (pct)	24.8	%			Field	04/29/2015 930	
Turbidity	14.3	NTU			Field	04/29/2015 930	
Temperature	12.9	℃			Field	04/29/2015 930	
Anions/Cations							
Alkalinity, Total (As CaCO3)	620	mg/L		5	SM 2320B	05/01/2015 2252	BT
Alkalinity, Bicarbonate as HCO3	607	mg/L		5	SM 2320B	05/01/2015 2252	BT
Alkalinity, Carbonate as CO3	73	mg/L		5	SM 2320B	05/01/2015 2252	BT
Chloride	4	mg/L		1	EPA 300.0	05/01/2015 713	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	05/01/2015 2252	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1427	AMB
Sulfate	94	mg/L		1	EPA 300.0	05/04/2015 2034	AB
Calcium	7	mg/L		1	EPA 200.7	04/30/2015 1928	DG
Magnesium	5	mg/L		1	EPA 200.7	04/30/2015 1928	DG
Potassium	6	mg/L		1	EPA 200.7	04/30/2015 1928	DG
Sodium	328	mg/L		1	EPA 200.7	04/30/2015 1928	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/06/2015 1142	AMB
General Parameters							
pH	9.2	s.u.		0.1	SM 4500 H B	05/01/2015 2252	BT
Electrical Conductivity	1360	µmhos/cm		5	SM 2510B	05/01/2015 2252	BT
Total Dissolved Solids (180)	890	mg/L		10	SM 2540	04/30/2015 1028	IR
Data Quality							
Cation Sum	15.18	meq/L		0.01	SM 1030E	05/20/2015 804	JJ
Anion Sum	14.49	meq/L		0.01	SM 1030E	05/20/2015 804	JJ
Cation-Anion Balance (± 5%)	2.32	%		0.01	SM 1030E	05/20/2015 804	JJ
Solids, Total Dissolved (Calc)	820	mg/L		10	SM 1030E	05/20/2015 804	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504421001

ProjectName: ROSS
Lab ID: S1504421-001
ClientSample ID: MU1-SA2
COC: 137363

WorkOrder: S1504421
CollectionDate: 4/29/2015 9:30:00 AM
DateReceived: 4/29/2015 4:04:00 PM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	04/30/2015 1928	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/30/2015 1814	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/30/2015 1814	MS
Boron	0.2	mg/L		0.1	EPA 200.7	04/30/2015 1928	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/30/2015 1814	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1928	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/30/2015 1814	MS
Iron	0.22	mg/L		0.05	EPA 200.7	04/30/2015 1928	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/30/2015 1814	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1206	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/30/2015 1814	MS
Nickel	0.03	mg/L		0.01	EPA 200.7	04/30/2015 1928	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/30/2015 1814	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/30/2015 1814	MS
Uranium	0.0060	mg/L		0.0003	EPA 200.8	04/30/2015 1814	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/30/2015 1814	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1928	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1829	MS
Metals - Total							
Iron	0.47	mg/L		0.05	EPA 200.7	05/05/2015 932	DG
Manganese	0.08	mg/L		0.02	EPA 200.7	05/05/2015 932	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504421001

ProjectName: ROSS
Lab ID: S1504421-001
ClientSample ID: MU1-SA2
COC: 137363

WorkOrder: S1504421
CollectionDate: 4/29/2015 9:30:00 AM
DateReceived: 4/29/2015 4:04:00 PM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1328	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1328	MB
Gross Beta	5.0	pCi/L		3	SM 7110B	05/21/2015 1328	MB
Gross Beta Precision (±)	5.2	pCi/L			SM 7110B	05/21/2015 1328	MB
Lead 210	ND	pCi/L		1	OTW01	05/25/2015 1136	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1136	MB
Polonium 210	ND	pCi/L		1	OTW01	05/25/2015 1450	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/25/2015 1450	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/25/2015 1009	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/25/2015 1009	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/28/2015 550	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/28/2015 550	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 812	MB
Radionuclides - Suspended							
Lead 210	1.2	pCi/L		1	OTW01	05/30/2015 1520	MB
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	05/30/2015 1520	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1255	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1255	MB
Radium 226	0.2	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1217	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/01/2015 1217	MB
Thorium 230	0.2	pCi/L		0.2	ACW10	05/27/2015 1231	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	05/27/2015 1231	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/01/2015 1738	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/01/2015 1738	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-004
ClientSample ID: MU1-SA2
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 4:00:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.31	s.u.			Field	05/20/2015 1600	
Conductivity	1535	µmhos/cm			Field	05/20/2015 1600	
Dissolved Oxygen	2.28	mg/L			Field	05/20/2015 1600	
Dissolved Oxygen (pct)	23.3	%			Field	05/20/2015 1600	
Turbidity	83.7	NTU			Field	05/20/2015 1600	
Temperature	12.4	℃			Field	05/20/2015 1600	
Oxygen Reduction Potential (ORP)	+87	mV			Field	05/20/2015 1600	
Anions/Cations							
Alkalinity, Total (As CaCO3)	754	mg/L		5	SM 2320B	05/22/2015 1807	BT
Alkalinity, Bicarbonate as HCO3	868	mg/L		5	SM 2320B	05/22/2015 1807	BT
Alkalinity, Carbonate as CO3	25	mg/L		5	SM 2320B	05/22/2015 1807	BT
Chloride	3	mg/L		1	EPA 300.0	05/27/2015 1509	AB
Fluoride	0.6	mg/L		0.1	SM 4500FC	05/22/2015 1807	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1520	AMB
Sulfate	117	mg/L		1	EPA 300.0	05/27/2015 1509	AB
Calcium	8	mg/L		1	EPA 200.7	05/22/2015 1628	DG
Magnesium	6	mg/L		1	EPA 200.7	05/22/2015 1628	DG
Potassium	4	mg/L		1	EPA 200.7	05/22/2015 1628	DG
Sodium	394	mg/L		1	EPA 200.7	05/22/2015 1628	DG
Nitrogen, Ammonia (As N)	0.2	mg/L		0.1	EPA 350.1	05/28/2015 1312	AMB
General Parameters							
pH	8.6	s.u.		0.1	SM 4500 H B	05/22/2015 1807	BT
Electrical Conductivity	1460	µmhos/cm		5	SM 2510B	05/22/2015 1807	BT
Total Dissolved Solids (180)	1000	mg/L		10	SM 2540	05/22/2015 1515	LJK
Data Quality							
Cation Sum	18.17	meq/L		0.01	SM 1030E	06/02/2015 928	JJ
Anion Sum	17.62	meq/L		0.01	SM 1030E	06/02/2015 928	JJ
Cation-Anion Balance (± 5%)	1.52	%		0.01	SM 1030E	06/02/2015 928	JJ
Solids, Total Dissolved (Calc)	980	mg/L		10	SM 1030E	06/02/2015 928	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-004
ClientSample ID: MU1-SA2
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 4:00:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	05/22/2015 1628	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/23/2015 001	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/23/2015 001	MS
Boron	0.3	mg/L		0.1	EPA 200.7	05/22/2015 1628	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/23/2015 001	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/22/2015 1628	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/23/2015 001	MS
Iron	0.20	mg/L		0.05	EPA 200.7	05/22/2015 1628	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/23/2015 001	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1023	AW
Molybdenum	0.03	mg/L		0.02	EPA 200.8	05/23/2015 001	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/22/2015 1628	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/23/2015 001	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/23/2015 001	MS
Uranium	0.0037	mg/L		0.0003	EPA 200.8	05/23/2015 001	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/23/2015 001	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/22/2015 1628	DG
Metals - Suspended							
Uranium	0.0005	mg/L		0.0003	EPA 200.8	05/29/2015 2118	MS
Metals - Total							
Iron	1.94	mg/L		0.05	EPA 200.7	05/27/2015 2031	DG
Manganese	0.24	mg/L		0.02	EPA 200.7	05/27/2015 2031	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-004
ClientSample ID: MU1-SA2
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 4:00:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	5.3	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	2.2	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	7.9	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	3.1	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	1.1	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	0.6	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 857	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 857	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 1005	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 1005	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 826	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 826	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/12/2015 1307	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/12/2015 1307	MB
Radionuclides - Total							
Radon 222	193	pCi/L		100	ASTM D5072-09	05/22/2015 1645	WN
Radon-222 Precision (±)	10.5	pCi/L			ASTM D5072-09	05/22/2015 1645	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-005
ClientSample ID: MU1-SA3
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 4:40:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.93	s.u.			Field	05/20/2015 1640	
Conductivity	1659	µmhos/cm			Field	05/20/2015 1640	
Dissolved Oxygen	1.81	mg/L			Field	05/20/2015 1640	
Dissolved Oxygen (pct)	16.1	%			Field	05/20/2015 1640	
Turbidity	269	NTU			Field	05/20/2015 1640	
Temperature	8.7	℃			Field	05/20/2015 1640	
Oxygen Reduction Potential (ORP)	+97	mV			Field	05/20/2015 1640	
Anions/Cations							
Alkalinity, Total (As CaCO3)	819	mg/L		5	SM 2320B	05/22/2015 1819	BT
Alkalinity, Bicarbonate as HCO3	977	mg/L		5	SM 2320B	05/22/2015 1819	BT
Alkalinity, Carbonate as CO3	11	mg/L		5	SM 2320B	05/22/2015 1819	BT
Chloride	10	mg/L		1	EPA 300.0	05/27/2015 1522	AB
Fluoride	0.3	mg/L		0.1	SM 4500FC	05/22/2015 1819	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1522	AMB
Sulfate	131	mg/L		1	EPA 300.0	05/27/2015 1522	AB
Calcium	41	mg/L		1	EPA 200.7	05/22/2015 1630	DG
Magnesium	40	mg/L		1	EPA 200.7	05/22/2015 1630	DG
Potassium	2	mg/L		1	EPA 200.7	05/22/2015 1630	DG
Sodium	355	mg/L		1	EPA 200.7	05/22/2015 1630	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/28/2015 1313	AMB
General Parameters							
pH	8.3	s.u.		0.1	SM 4500 H B	05/22/2015 1819	BT
Electrical Conductivity	1680	µmhos/cm		5	SM 2510B	05/22/2015 1819	BT
Total Dissolved Solids (180)	1080	mg/L		10	SM 2540	05/22/2015 1516	LJK
Data Quality							
Cation Sum	20.86	meq/L		0.01	SM 1030E	06/02/2015 928	JJ
Anion Sum	19.39	meq/L		0.01	SM 1030E	06/02/2015 928	JJ
Cation-Anion Balance (± 5%)	3.64	%		0.01	SM 1030E	06/02/2015 928	JJ
Solids, Total Dissolved (Calc)	1070	mg/L		10	SM 1030E	06/02/2015 928	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-005
ClientSample ID: MU1-SA3
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 4:40:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	0.2	mg/L		0.1	EPA 200.7	05/22/2015 1630	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/23/2015 007	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/23/2015 007	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/22/2015 1630	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/23/2015 007	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/22/2015 1630	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/23/2015 007	MS
Iron	0.17	mg/L		0.05	EPA 200.7	05/22/2015 1630	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/23/2015 007	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1025	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/23/2015 007	MS
Nickel	0.06	mg/L		0.01	EPA 200.7	05/22/2015 1630	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/23/2015 007	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/23/2015 007	MS
Uranium	0.0081	mg/L		0.0003	EPA 200.8	05/23/2015 007	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/23/2015 007	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/22/2015 1630	DG
Metals - Suspended							
Uranium	0.0014	mg/L		0.0003	EPA 200.8	05/29/2015 2124	MS
Metals - Total							
Iron	12.8	mg/L		0.05	EPA 200.7	05/27/2015 2033	DG
Manganese	0.97	mg/L		0.02	EPA 200.7	05/27/2015 2033	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/26/2015
Report ID S1505374001

ProjectName: Ross
Lab ID: S1505374-005
ClientSample ID: MU1-SA3
COC: 137352

WorkOrder: S1505374
CollectionDate: 5/20/2015 4:40:00 PM
DateReceived: 5/22/2015 7:17:00 AM
FieldSampler: RF
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	7.4	pCi/L		2	SM 7110B	06/02/2015 1737	MB
Gross Alpha Precision (±)	2.5	pCi/L			SM 7110B	06/02/2015 1737	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/02/2015 1737	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/02/2015 1737	MB
Lead 210	1.9	pCi/L		1	OTW01	06/11/2015 1303	MB
Lead 210 (Dissolved) Precision (±)	0.9	pCi/L			OTW01	06/11/2015 1303	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1925	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1925	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/11/2015 857	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/11/2015 857	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/11/2015 1206	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/11/2015 1206	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/10/2015 833	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/10/2015 833	MB
Radionuclides - Suspended							
Lead 210	2.8	pCi/L		1	OTW01	06/16/2015 1114	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	06/16/2015 1114	MB
Polonium 210	1.0	pCi/L		1	OTW01	06/17/2015 1312	MB
Polonium 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	06/17/2015 1312	MB
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1558	MB
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	06/13/2015 1558	MB
Thorium 230	0.6	pCi/L		0.2	ACW10	06/12/2015 1307	MB
Thorium 230 Precision (±)	0.2	pCi/L			ACW10	06/12/2015 1307	MB
Radionuclides - Total							
Radon 222	1410	pCi/L		100	ASTM D5072-09	05/22/2015 1721	WN
Radon-222 Precision (±)	35.3	pCi/L			ASTM D5072-09	05/22/2015 1721	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504406001

ProjectName: ROSS MU1
Lab ID: S1504406-002
ClientSample ID: B1
COC: 152899

WorkOrder: S1504406
CollectionDate: 4/27/2015 11:40:00 AM
DateReceived: 4/28/2015 10:04:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	6.54	s.u.			Field	04/27/2015 1140	
Conductivity	1065	µmhos/cm			Field	04/27/2015 1140	
Dissolved Oxygen	5.33	mg/L			Field	04/27/2015 1140	
Dissolved Oxygen (pct)	55.7	%			Field	04/27/2015 1140	
Turbidity	0.02	NTU			Field	04/27/2015 1140	
Temperature	18.7	℃			Field	04/27/2015 1140	
Oxygen Reduction Potential (ORP)	127	mV			Field	04/27/2015 1140	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	04/30/2015 053	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	04/30/2015 053	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	04/30/2015 053	BT
Chloride	ND	mg/L		1	EPA 300.0	05/01/2015 1921	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	04/30/2015 053	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1425	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/01/2015 1921	AB
Calcium	ND	mg/L		1	EPA 200.7	04/30/2015 1634	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/30/2015 1634	DG
Potassium	ND	mg/L		1	EPA 200.7	04/30/2015 1634	DG
Sodium	ND	mg/L		1	EPA 200.7	04/30/2015 1634	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/06/2015 1140	AMB
General Parameters							
pH	6.5	s.u.		0.1	SM 4500 H B	04/30/2015 053	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	04/30/2015 053	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	04/30/2015 838	IR
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	05/07/2015 940	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	05/07/2015 940	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	05/07/2015 940	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	05/07/2015 940	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504406001

ProjectName: ROSS MU1
Lab ID: S1504406-002
ClientSample ID: B1
COC: 152899

WorkOrder: S1504406
CollectionDate: 4/27/2015 11:40:00 AM
DateReceived: 4/28/2015 10:04:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/30/2015 1634	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 2345	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 2345	MS
Boron	ND	mg/L		0.1	EPA 200.7	04/30/2015 1634	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 2345	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/30/2015 1634	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 2345	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/30/2015 1634	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 2345	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 1104	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 2345	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/30/2015 1634	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 2345	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 2345	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 2345	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 2345	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/30/2015 1634	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/06/2015 426	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 1933	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 1933	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/1/2015
Report ID S1504406001

ProjectName: ROSS MU1
Lab ID: S1504406-002
ClientSample ID: B1
COC: 152899

WorkOrder: S1504406
CollectionDate: 4/27/2015 11:40:00 AM
DateReceived: 4/28/2015 10:04:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/15/2015 1648	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/15/2015 1648	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/15/2015 1648	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/15/2015 1648	MB
Lead 210	ND	pCi/L		1	OTW01	05/18/2015 1741	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/18/2015 1741	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1045	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1045	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1508	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/11/2015 1508	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/21/2015 2043	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/21/2015 2043	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/19/2015 815	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/19/2015 815	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/20/2015 216	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/20/2015 216	MB
Polonium 210	ND	pCi/L		1	OTW01	05/19/2015 1756	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/19/2015 1756	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/26/2015 1047	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/26/2015 1047	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/18/2015 1255	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/18/2015 1255	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	04/30/2015 1159	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	04/30/2015 1159	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-001
ClientSample ID: B2
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 8:00:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.16	s.u.			Field	04/28/2015 800	
Dissolved Oxygen	5.59	mg/L			Field	04/28/2015 800	
Dissolved Oxygen (pct)	58	%			Field	04/28/2015 800	
Turbidity	0	NTU			Field	04/28/2015 800	
Temperature	18.6	℃			Field	04/28/2015 800	
Oxygen Reduction Potential (ORP)	141	mV			Field	04/28/2015 800	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	04/29/2015 1437	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	04/29/2015 1437	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	04/29/2015 1437	BT
Chloride	1	mg/L		1	EPA 300.0	04/29/2015 1735	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	04/29/2015 1437	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/04/2015 1055	AMB
Sulfate	ND	mg/L		1	EPA 300.0	04/29/2015 1735	AB
Calcium	ND	mg/L		1	EPA 200.7	04/29/2015 1535	DG
Magnesium	ND	mg/L		1	EPA 200.7	04/29/2015 1535	DG
Potassium	ND	mg/L		1	EPA 200.7	04/29/2015 1535	DG
Sodium	ND	mg/L		1	EPA 200.7	04/29/2015 1535	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/05/2015 1107	AMB
General Parameters							
pH	6.8	s.u.		0.1	SM 4500 H B	04/29/2015 1437	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	04/29/2015 1437	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	05/01/2015 1240	IR
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Anion Sum	0.04	meq/L		0.01	SM 1030E	05/07/2015 1035	BC
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	05/07/2015 1035	BC
Cation-Anion Difference	0.04	meq/L		0.01	SM 1030E	05/07/2015 1035	BC

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-001
ClientSample ID: B2
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 8:00:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	04/29/2015 1535	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	04/29/2015 1453	MS
Barium	ND	mg/L		0.5	EPA 200.8	04/29/2015 1453	MS
Boron	ND	mg/L		0.1	EPA 200.7	04/29/2015 1535	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	04/29/2015 1453	MS
Chromium	ND	mg/L		0.01	EPA 200.7	04/29/2015 1535	DG
Copper	ND	mg/L		0.01	EPA 200.8	04/29/2015 1453	MS
Iron	ND	mg/L		0.05	EPA 200.7	04/29/2015 1535	DG
Lead	ND	mg/L		0.02	EPA 200.8	04/29/2015 1453	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/01/2015 903	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	04/29/2015 1453	MS
Nickel	ND	mg/L		0.01	EPA 200.7	04/29/2015 1535	DG
Selenium	ND	mg/L		0.005	EPA 200.8	04/29/2015 1453	MS
Silver	ND	mg/L		0.003	EPA 200.8	04/29/2015 1453	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	04/29/2015 1453	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	04/29/2015 1453	MS
Zinc	ND	mg/L		0.01	EPA 200.7	04/29/2015 1535	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/05/2015 2336	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/01/2015 606	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/01/2015 606	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 5/29/2015
Report ID S1504396001

ProjectName: Ross MUI ISR
Lab ID: S1504396-001
ClientSample ID: B2
COC: 152915

WorkOrder: S1504396
CollectionDate: 4/28/2015 8:00:00 AM
DateReceived: 4/28/2015 8:39:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/12/2015 1626	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/12/2015 1626	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/12/2015 1626	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/12/2015 1626	MB
Lead 210	ND	pCi/L		1	OTW01	05/12/2015 1124	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/12/2015 1124	MB
Polonium 210	ND	pCi/L		1	OTW01	05/13/2015 1345	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/13/2015 1345	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/11/2015 1244	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/11/2015 1244	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/13/2015 915	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/13/2015 915	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/11/2015 1324	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/11/2015 1324	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	05/14/2015 1309	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1309	MB
Polonium 210	ND	pCi/L		1	OTW01	05/14/2015 1618	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/14/2015 1618	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	05/18/2015 1248	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	05/18/2015 1248	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/15/2015 817	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/15/2015 817	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	04/29/2015 1701	MB
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	04/29/2015 1701	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-001
ClientSample ID: MU1B3
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	6.46	s.u.			Field	05/12/2015 845	
Conductivity	5.0	µmhos/cm			Field	05/12/2015 845	
Dissolved Oxygen	13.10	mg/L			Field	05/12/2015 845	
Turbidity	1.13	NTU			Field	05/12/2015 845	
Temperature	17.6	℃			Field	05/12/2015 845	
Oxygen Reduction Potential (ORP)	+117	mV			Field	05/12/2015 845	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/14/2015 2132	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/14/2015 2132	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/14/2015 2132	BT
Chloride	ND	mg/L		1	EPA 300.0	05/14/2015 1847	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/14/2015 2132	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/14/2015 1202	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/14/2015 1847	AB
Calcium	ND	mg/L		1	EPA 200.7	05/14/2015 1639	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/14/2015 1639	DG
Potassium	ND	mg/L		1	EPA 200.7	05/14/2015 1639	DG
Sodium	ND	mg/L		1	EPA 200.7	05/14/2015 1639	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/22/2015 838	AMB
General Parameters							
pH	6.4	s.u.		0.1	SM 4500 H B	05/14/2015 2132	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/14/2015 2132	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	05/14/2015 1507	BT
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	05/26/2015 1527	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	05/26/2015 1527	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-001
ClientSample ID: MU1B3
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/14/2015 1639	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/14/2015 1625	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/14/2015 1625	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/14/2015 1639	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/14/2015 1625	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/14/2015 1639	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/14/2015 1625	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/14/2015 1639	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/14/2015 1625	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 855	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/14/2015 1625	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/14/2015 1639	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/14/2015 1625	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/14/2015 1625	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 1625	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/14/2015 1625	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/14/2015 1639	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1850	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1543	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/16/2015 1543	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-001
ClientSample ID: MU1B3
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1932	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/21/2015 1932	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 1437	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 1437	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/28/2015 1152	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/28/2015 1152	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 812	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1217	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1217	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1231	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1231	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/14/2015 1714	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/14/2015 1714	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-002
ClientSample ID: MU1B4
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	6.46	s.u.			Field	05/12/2015 845	
Conductivity	5.0	µmhos/cm			Field	05/12/2015 845	
Dissolved Oxygen	13.10	mg/L			Field	05/12/2015 845	
Turbidity	1.13	NTU			Field	05/12/2015 845	
Temperature	17.6	℃			Field	05/12/2015 845	
Oxygen Reduction Potential (ORP)	+117	mV			Field	05/12/2015 845	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/14/2015 2145	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/14/2015 2145	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/14/2015 2145	BT
Chloride	ND	mg/L		1	EPA 300.0	05/14/2015 1902	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/14/2015 2145	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/14/2015 1204	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/14/2015 1902	AB
Calcium	ND	mg/L		1	EPA 200.7	05/14/2015 1641	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/14/2015 1641	DG
Potassium	ND	mg/L		1	EPA 200.7	05/14/2015 1641	DG
Sodium	ND	mg/L		1	EPA 200.7	05/14/2015 1641	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/22/2015 839	AMB
General Parameters							
pH	5.8	s.u.		0.1	SM 4500 H B	05/14/2015 2145	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/14/2015 2145	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	05/14/2015 1508	BT
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	05/26/2015 1527	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	05/26/2015 1527	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-002
ClientSample ID: MU1B4
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/14/2015 1641	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/14/2015 1657	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/14/2015 1657	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/14/2015 1641	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/14/2015 1657	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/14/2015 1641	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/14/2015 1657	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/14/2015 1641	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/14/2015 1657	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 904	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/14/2015 1657	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/14/2015 1641	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/14/2015 1657	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/14/2015 1657	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 1657	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/14/2015 1657	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/14/2015 1641	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1906	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1553	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/16/2015 1553	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-002
ClientSample ID: MU1B4
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1932	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/21/2015 1932	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 1437	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 1437	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/28/2015 1453	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/28/2015 1453	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 812	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 812	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1217	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1217	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1231	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1231	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/14/2015 1825	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/14/2015 1825	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-003
ClientSample ID: MU1B5
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	6.46	s.u.			Field	05/12/2015 845	
Conductivity	5.0	µmhos/cm			Field	05/12/2015 845	
Dissolved Oxygen	13.10	mg/L			Field	05/12/2015 845	
Turbidity	1.13	NTU			Field	05/12/2015 845	
Temperature	17.6	℃			Field	05/12/2015 845	
Oxygen Reduction Potential (ORP)	+117	mV			Field	05/12/2015 845	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/14/2015 2158	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/14/2015 2158	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/14/2015 2158	BT
Chloride	ND	mg/L		1	EPA 300.0	05/14/2015 1916	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/14/2015 2158	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/14/2015 1205	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/14/2015 1916	AB
Calcium	ND	mg/L		1	EPA 200.7	05/14/2015 1646	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/14/2015 1646	DG
Potassium	ND	mg/L		1	EPA 200.7	05/14/2015 1646	DG
Sodium	ND	mg/L		1	EPA 200.7	05/14/2015 1646	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/22/2015 841	AMB
General Parameters							
pH	5.6	s.u.		0.1	SM 4500 H B	05/14/2015 2158	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/14/2015 2158	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	05/14/2015 1509	BT
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	05/26/2015 1527	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	05/26/2015 1527	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-003
ClientSample ID: MU1B5
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/14/2015 1646	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/14/2015 1703	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/14/2015 1703	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/14/2015 1646	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/14/2015 1703	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/14/2015 1646	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/14/2015 1703	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/14/2015 1646	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/14/2015 1703	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 905	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/14/2015 1703	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/14/2015 1646	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/14/2015 1703	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/14/2015 1703	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 1703	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/14/2015 1703	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/14/2015 1646	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1911	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1555	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/16/2015 1555	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-003
ClientSample ID: MU1B5
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1932	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/21/2015 1932	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 1437	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 1437	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/28/2015 1754	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/28/2015 1754	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1334	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1334	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/14/2015 1901	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/14/2015 1901	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-004
ClientSample ID: MU1B6
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	6.46	s.u.			Field	05/12/2015 845	
Conductivity	5.0	µmhos/cm			Field	05/12/2015 845	
Dissolved Oxygen	13.10	mg/L			Field	05/12/2015 845	
Turbidity	1.13	NTU			Field	05/12/2015 845	
Temperature	17.6	℃			Field	05/12/2015 845	
Oxygen Reduction Potential (ORP)	+117	mV			Field	05/12/2015 845	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/14/2015 2211	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/14/2015 2211	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/14/2015 2211	BT
Chloride	ND	mg/L		1	EPA 300.0	05/14/2015 1931	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/14/2015 2211	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/14/2015 1207	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/14/2015 1931	AB
Calcium	ND	mg/L		1	EPA 200.7	05/14/2015 1659	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/14/2015 1659	DG
Potassium	ND	mg/L		1	EPA 200.7	05/14/2015 1659	DG
Sodium	ND	mg/L		1	EPA 200.7	05/14/2015 1659	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/22/2015 842	AMB
General Parameters							
pH	5.6	s.u.		0.1	SM 4500 H B	05/14/2015 2211	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/14/2015 2211	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	05/14/2015 1510	BT
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	05/26/2015 1527	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	05/26/2015 1527	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	05/26/2015 1527	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-004
ClientSample ID: MU1B6
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/14/2015 1659	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/14/2015 1708	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/14/2015 1708	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/14/2015 1659	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/14/2015 1708	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/14/2015 1659	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/14/2015 1708	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/14/2015 1659	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/14/2015 1708	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/19/2015 907	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/14/2015 1708	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/14/2015 1659	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/14/2015 1708	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/14/2015 1708	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/14/2015 1708	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/14/2015 1708	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/14/2015 1659	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/19/2015 1917	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/16/2015 1557	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/16/2015 1557	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/9/2015
Report ID S1505197001

ProjectName: Ross MU1 ISR
Lab ID: S1505197-004
ClientSample ID: MU1B6
COC: 158858

WorkOrder: S1505197
CollectionDate: 5/12/2015 8:45:00 AM
DateReceived: 5/13/2015 8:01:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/21/2015 1932	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/21/2015 1932	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/21/2015 1932	MB
Lead 210	ND	pCi/L		1	OTW01	05/30/2015 1317	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/30/2015 1317	MB
Polonium 210	ND	pCi/L		1	OTW01	05/28/2015 1126	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	05/28/2015 1126	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 1656	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 1656	MB
Radium 228	ND	pCi/L		1	Ga-Tech	05/28/2015 2055	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	05/28/2015 2055	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/26/2015 1248	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/26/2015 1248	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/01/2015 1334	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/01/2015 1334	MB
Polonium 210	ND	pCi/L		1	OTW01	05/29/2015 1127	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	05/29/2015 1127	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/01/2015 1334	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/01/2015 1334	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/27/2015 1644	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/27/2015 1644	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/14/2015 1937	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/14/2015 1937	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-004
ClientSample ID: MU1 B7 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 12:45:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.20	s.u.			Field	05/26/2015 1245	
Conductivity	150	µmhos/cm			Field	05/26/2015 1245	
Dissolved Oxygen	5.48	mg/L			Field	05/26/2015 1245	
Turbidity	1.81	NTU			Field	05/26/2015 1245	
Temperature	18	℃			Field	05/26/2015 1245	
Oxygen Reduction Potential (ORP)	+97	mV			Field	05/26/2015 1245	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/28/2015 1724	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/28/2015 1724	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/28/2015 1724	BT
Chloride	ND	mg/L		1	EPA 300.0	05/28/2015 2208	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/28/2015 1724	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1604	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/28/2015 2208	AB
Calcium	ND	mg/L		1	EPA 200.7	05/28/2015 1708	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/28/2015 1708	DG
Potassium	ND	mg/L		1	EPA 200.7	05/28/2015 1708	DG
Sodium	ND	mg/L		1	EPA 200.7	05/28/2015 1708	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/28/2015 1211	AMB
General Parameters							
pH	6.4	s.u.		0.1	SM 4500 H B	05/28/2015 1724	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/28/2015 1724	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	05/28/2015 1618	LJK
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/08/2015 1129	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/08/2015 1129	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-004
ClientSample ID: MU1 B7 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 12:45:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1708	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1543	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1543	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/28/2015 1708	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1543	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1708	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1543	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1708	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1543	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1242	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1543	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1708	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1543	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1543	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/28/2015 1543	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1543	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1708	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/30/2015 011	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2105	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2105	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-004
ClientSample ID: MU1 B7 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 12:45:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/05/2015 905	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 905	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/05/2015 905	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 905	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 1910	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 1910	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1308	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1308	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1318	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1318	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1415	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1415	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/13/2015 1806	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/13/2015 1806	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/13/2015 1450	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/13/2015 1450	MB
Radionuclides - Total							
Radon 222	159	pCi/L		100	ASTM D5072-09	05/28/2015 1625	WN
Radon-222 Precision (±)	9.4	pCi/L			ASTM D5072-09	05/28/2015 1625	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-005
ClientSample ID: MU1 B8 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 1:00:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.20	s.u.			Field	05/26/2015 1300	
Conductivity	150	µmhos/cm			Field	05/26/2015 1300	
Dissolved Oxygen	5.48	mg/L			Field	05/26/2015 1300	
Turbidity	1.81	NTU			Field	05/26/2015 1300	
Temperature	18	℃			Field	05/26/2015 1300	
Oxygen Reduction Potential (ORP)	+97	mV			Field	05/26/2015 1300	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/28/2015 1735	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/28/2015 1735	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/28/2015 1735	BT
Chloride	ND	mg/L		1	EPA 300.0	05/28/2015 2224	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/28/2015 1735	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1605	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/28/2015 2224	AB
Calcium	ND	mg/L		1	EPA 200.7	05/28/2015 1710	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/28/2015 1710	DG
Potassium	ND	mg/L		1	EPA 200.7	05/28/2015 1710	DG
Sodium	ND	mg/L		1	EPA 200.7	05/28/2015 1710	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/28/2015 1212	AMB
General Parameters							
pH	6.0	s.u.		0.1	SM 4500 H B	05/28/2015 1735	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/28/2015 1735	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/01/2015 2138	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/08/2015 1129	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/08/2015 1129	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-005
ClientSample ID: MU1 B8 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 1:00:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1710	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1549	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1549	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/28/2015 1710	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1549	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1710	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1549	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1710	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1549	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1244	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1549	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1710	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1549	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1549	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/28/2015 1549	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1549	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1710	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1558	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2115	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2115	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-005
ClientSample ID: MU1 B8 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 1:00:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 2110	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 2110	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1308	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1308	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1318	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1318	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1415	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1415	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 825	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 825	MB
Radionuclides - Total							
Radon 222	144	pCi/L		100	ASTM D5072-09	05/28/2015 1701	WN
Radon-222 Precision (±)	8.7	pCi/L			ASTM D5072-09	05/28/2015 1701	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-006
ClientSample ID: MU1 B9 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 1:10:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.20	s.u.			Field	05/26/2015 1310	
Conductivity	150	µmhos/cm			Field	05/26/2015 1310	
Dissolved Oxygen	5.48	mg/L			Field	05/26/2015 1310	
Turbidity	1.81	NTU			Field	05/26/2015 1310	
Temperature	18	℃			Field	05/26/2015 1310	
Oxygen Reduction Potential (ORP)	+97	mV			Field	05/26/2015 1310	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/28/2015 1747	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/28/2015 1747	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/28/2015 1747	BT
Chloride	ND	mg/L		1	EPA 300.0	05/28/2015 2240	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/28/2015 1747	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/28/2015 1607	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/28/2015 2240	AB
Calcium	ND	mg/L		1	EPA 200.7	05/28/2015 1712	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/28/2015 1712	DG
Potassium	ND	mg/L		1	EPA 200.7	05/28/2015 1712	DG
Sodium	ND	mg/L		1	EPA 200.7	05/28/2015 1712	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/28/2015 1223	AMB
General Parameters							
pH	6.0	s.u.		0.1	SM 4500 H B	05/28/2015 1747	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/28/2015 1747	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/01/2015 2139	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/08/2015 1129	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/08/2015 1129	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/08/2015 1129	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-006
ClientSample ID: MU1 B9 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 1:10:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/28/2015 1712	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/28/2015 1554	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/28/2015 1554	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/28/2015 1712	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/28/2015 1554	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/28/2015 1712	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/28/2015 1554	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 1712	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/28/2015 1554	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/29/2015 1246	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/28/2015 1554	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/28/2015 1712	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/28/2015 1554	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/28/2015 1554	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/28/2015 1554	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/28/2015 1554	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/28/2015 1712	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/02/2015 1619	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/28/2015 2117	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/28/2015 2117	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/30/2015
Report ID S1505458001

ProjectName: Ross MU1 ISR
Lab ID: S1505458-006
ClientSample ID: MU1 B9 Blank
COC: 158835

WorkOrder: S1505458
CollectionDate: 5/26/2015 1:10:00 PM
DateReceived: 5/27/2015 3:55:00 PM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/05/2015 1512	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 1512	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/05/2015 1512	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/05/2015 1512	MB
Lead 210	ND	pCi/L		1	OTW01	06/13/2015 1600	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1600	MB
Polonium 210	ND	pCi/L		1	OTW01	06/13/2015 1347	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/13/2015 1347	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 902	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 902	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/13/2015 2311	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/13/2015 2311	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/11/2015 1308	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/11/2015 1308	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/16/2015 1318	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/16/2015 1318	MB
Polonium 210	ND	pCi/L		1	OTW01	06/17/2015 1415	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/17/2015 1415	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/12/2015 1322	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/12/2015 1322	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/19/2015 1322	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/19/2015 1322	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/28/2015 1736	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/28/2015 1736	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-001
ClientSample ID: MU1 B-10
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 9:40:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.54	s.u.			Field	06/01/2015 940	
Conductivity	41	µmhos/cm			Field	06/01/2015 940	
Dissolved Oxygen	4.85	mg/L			Field	06/01/2015 940	
Turbidity	0.76	NTU			Field	06/01/2015 940	
Temperature	21.1	℃			Field	06/01/2015 940	
Oxygen Reduction Potential (ORP)	+125	mV			Field	06/01/2015 940	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	06/05/2015 018	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/05/2015 018	LJK
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/05/2015 018	LJK
Chloride	ND	mg/L		1	EPA 300.0	06/06/2015 1741	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	06/05/2015 018	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1138	AMB
Sulfate	ND	mg/L		1	EPA 300.0	06/06/2015 1741	AB
Calcium	ND	mg/L		1	EPA 200.7	06/03/2015 1553	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/03/2015 1553	DG
Potassium	ND	mg/L		1	EPA 200.7	06/03/2015 1553	DG
Sodium	ND	mg/L		1	EPA 200.7	06/03/2015 1553	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/08/2015 1543	AMB
General Parameters							
pH	6.2	s.u.		0.1	SM 4500 H B	06/05/2015 018	LJK
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	06/05/2015 018	LJK
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/09/2015 1557	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/15/2015 1412	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/15/2015 1412	JJ

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-001
ClientSample ID: MU1 B-10
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 9:40:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/03/2015 1553	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/04/2015 1526	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/04/2015 1526	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/03/2015 1553	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/04/2015 1526	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/03/2015 1553	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/04/2015 1526	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/03/2015 1553	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/04/2015 1526	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/12/2015 1026	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/04/2015 1526	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/03/2015 1553	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/04/2015 1526	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/04/2015 1526	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1526	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/04/2015 1526	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/03/2015 1553	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1530	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/05/2015 233	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/05/2015 233	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-001
ClientSample ID: MU1 B-10
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 9:40:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/16/2015 2020	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/16/2015 2020	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/16/2015 2020	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/16/2015 2020	MB
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/16/2015 1549	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/16/2015 1549	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 619	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 619	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	ND	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 947	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 947	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	06/02/2015 2349	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	06/02/2015 2349	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-002
ClientSample ID: MU1 B-11
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 9:50:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.54	s.u.			Field	06/01/2015 950	
Conductivity	41	µmhos/cm			Field	06/01/2015 950	
Dissolved Oxygen	4.85	mg/L			Field	06/01/2015 950	
Turbidity	0.76	NTU			Field	06/01/2015 950	
Temperature	21.1	℃			Field	06/01/2015 950	
Oxygen Reduction Potential (ORP)	+125	mV			Field	06/01/2015 950	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	06/05/2015 028	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/05/2015 028	LJK
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/05/2015 028	LJK
Chloride	ND	mg/L		1	EPA 300.0	06/06/2015 1754	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	06/05/2015 028	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1149	AMB
Sulfate	ND	mg/L		1	EPA 300.0	06/06/2015 1754	AB
Calcium	ND	mg/L		1	EPA 200.7	06/03/2015 1555	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/03/2015 1555	DG
Potassium	ND	mg/L		1	EPA 200.7	06/03/2015 1555	DG
Sodium	ND	mg/L		1	EPA 200.7	06/03/2015 1555	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/08/2015 1552	AMB
General Parameters							
pH	5.7	s.u.		0.1	SM 4500 H B	06/05/2015 028	LJK
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	06/05/2015 028	LJK
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/03/2015 1550	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/15/2015 1412	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/15/2015 1412	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-002
ClientSample ID: MU1 B-11
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 9:50:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/03/2015 1555	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/04/2015 1547	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/04/2015 1547	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/03/2015 1555	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/04/2015 1547	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/03/2015 1555	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/04/2015 1547	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/03/2015 1555	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/04/2015 1547	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/12/2015 1028	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/04/2015 1547	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/03/2015 1555	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/04/2015 1547	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/04/2015 1547	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1547	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/04/2015 1547	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/03/2015 1555	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1534	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/05/2015 235	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/05/2015 235	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-002
ClientSample ID: MU1 B-11
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 9:50:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/16/2015 2020	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/16/2015 2020	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/16/2015 2020	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/16/2015 2020	MB
Lead 210	ND	pCi/L		1	OTW01	06/19/2015 1735	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/19/2015 1735	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 820	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 820	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	ND	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 947	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 947	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	06/03/2015 025	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	06/03/2015 025	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-003
ClientSample ID: MU1 B-12
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 10:15:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.54	s.u.			Field	06/01/2015 1015	
Conductivity	41	µmhos/cm			Field	06/01/2015 1015	
Dissolved Oxygen	4.85	mg/L			Field	06/01/2015 1015	
Turbidity	0.76	NTU			Field	06/01/2015 1015	
Temperature	21.1	℃			Field	06/01/2015 1015	
Oxygen Reduction Potential (ORP)	+125	mV			Field	06/01/2015 1015	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	06/05/2015 040	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/05/2015 040	LJK
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/05/2015 040	LJK
Chloride	ND	mg/L		1	EPA 300.0	06/06/2015 1808	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	06/05/2015 040	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/03/2015 1150	AMB
Sulfate	ND	mg/L		1	EPA 300.0	06/06/2015 1808	AB
Calcium	ND	mg/L		1	EPA 200.7	06/03/2015 1558	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/03/2015 1558	DG
Potassium	ND	mg/L		1	EPA 200.7	06/03/2015 1558	DG
Sodium	ND	mg/L		1	EPA 200.7	06/03/2015 1558	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/08/2015 1554	AMB
General Parameters							
pH	5.9	s.u.		0.1	SM 4500 H B	06/05/2015 040	LJK
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	06/05/2015 040	LJK
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/03/2015 1551	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/15/2015 1412	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/15/2015 1412	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/15/2015 1412	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-003
ClientSample ID: MU1 B-12
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 10:15:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/03/2015 1558	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/04/2015 1604	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/04/2015 1604	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/03/2015 1558	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/04/2015 1604	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/03/2015 1558	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/04/2015 1604	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/03/2015 1558	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/04/2015 1604	MS
Mercury	ND	mg/L		0.001	EPA 245.1	06/12/2015 1037	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/04/2015 1604	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/03/2015 1558	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/04/2015 1604	MS
Silver	ND	mg/L		0.003	EPA 200.8	06/04/2015 1604	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/04/2015 1604	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/04/2015 1604	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/03/2015 1558	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	06/08/2015 1539	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	06/05/2015 237	DG
Manganese	ND	mg/L		0.02	EPA 200.7	06/05/2015 237	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/29/2015
Report ID S1506035001

ProjectName: Ross MU1 ISR
Lab ID: S1506035-003
ClientSample ID: MU1 B-12
COC: 152887

WorkOrder: S1506035
CollectionDate: 6/1/2015 10:15:00 AM
DateReceived: 6/2/2015 9:08:00 AM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/16/2015 2020	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/16/2015 2020	MB
Gross Beta	ND	pCi/L		3	SM 7110B	06/16/2015 2020	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	06/16/2015 2020	MB
Lead 210	ND	pCi/L		1	OTW01	06/22/2015 843	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/22/2015 843	MB
Polonium 210	ND	pCi/L		1	OTW01	06/24/2015 1155	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/24/2015 1155	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1050	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1050	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/22/2015 1021	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/22/2015 1021	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/18/2015 1746	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/18/2015 1746	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/23/2015 1721	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/23/2015 1721	MB
Polonium 210	ND	pCi/L		1	OTW01	06/26/2015 1051	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/26/2015 1051	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/18/2015 1803	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/18/2015 1803	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/25/2015 947	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/25/2015 947	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	06/03/2015 101	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	06/03/2015 101	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-001
ClientSample ID: MU1 B-13
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 7:10:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.16	s.u.			Field	06/10/2015 710	
Conductivity	33	µmhos/cm			Field	06/10/2015 710	
Dissolved Oxygen	5.2	mg/L			Field	06/10/2015 710	
Turbidity	.47	NTU			Field	06/10/2015 710	
Temperature	19.3	℃			Field	06/10/2015 710	
Oxygen Reduction Potential (ORP)	+165	mV			Field	06/10/2015 710	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	06/12/2015 528	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/12/2015 528	LJK
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/12/2015 528	LJK
Chloride	ND	mg/L		1	EPA 300.0	06/15/2015 1642	LAB
Fluoride	ND	mg/L		0.1	SM 4500FC	06/12/2015 528	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1647	AMB
Sulfate	ND	mg/L		1	EPA 300.0	06/15/2015 1642	LAB
Calcium	ND	mg/L		1	EPA 200.7	06/12/2015 253	BJ
Magnesium	ND	mg/L		1	EPA 200.7	06/12/2015 253	BJ
Potassium	ND	mg/L		1	EPA 200.7	06/12/2015 253	BJ
Sodium	ND	mg/L		1	EPA 200.7	06/12/2015 253	BJ
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/17/2015 1122	AMB
Silica as SiO2	ND	mg/L		0.1	EPA 200.7	06/12/2015 253	BJ
General Parameters							
pH	6.3	s.u.		0.1	SM 4500 H B	06/12/2015 528	LJK
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	06/12/2015 528	LJK
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/11/2015 1422	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-001
ClientSample ID: MU1 B-13
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 7:10:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 253	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2040	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2040	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/12/2015 253	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2040	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 253	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2040	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 253	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2040	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 253	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1105	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2040	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 253	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2040	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/11/2015 2040	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2040	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 253	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 533	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 533	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-002
ClientSample ID: MU1 B-14
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 7:10:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.16	s.u.			Field	06/10/2015 710	
Conductivity	33	µmhos/cm			Field	06/10/2015 710	
Dissolved Oxygen	5.2	mg/L			Field	06/10/2015 710	
Turbidity	.47	NTU			Field	06/10/2015 710	
Temperature	19.3	℃			Field	06/10/2015 710	
Oxygen Reduction Potential (ORP)	+165	mV			Field	06/10/2015 710	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	06/12/2015 540	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/12/2015 540	LJK
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/12/2015 540	LJK
Chloride	ND	mg/L		1	EPA 300.0	06/15/2015 1656	LAB
Fluoride	ND	mg/L		0.1	SM 4500FC	06/12/2015 540	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/11/2015 1649	AMB
Sulfate	ND	mg/L		1	EPA 300.0	06/15/2015 1656	LAB
Calcium	ND	mg/L		1	EPA 200.7	06/12/2015 307	BJ
Magnesium	ND	mg/L		1	EPA 200.7	06/12/2015 307	BJ
Potassium	ND	mg/L		1	EPA 200.7	06/12/2015 307	BJ
Sodium	ND	mg/L		1	EPA 200.7	06/12/2015 307	BJ
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/17/2015 1124	AMB
Silica as SiO2	ND	mg/L		0.1	EPA 200.7	06/12/2015 307	BJ
General Parameters							
pH	5.8	s.u.		0.1	SM 4500 H B	06/12/2015 540	LJK
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	06/12/2015 540	LJK
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/11/2015 1423	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/22/2015 749	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/22/2015 749	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/22/2015 749	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506231001

ProjectName: Ross MU1 ISR
Lab ID: S1506231-002
ClientSample ID: MU1 B-14
COC: 162781 1600067 1553

WorkOrder: S1506231
CollectionDate: 6/10/2015 7:10:00 AM
DateReceived: 6/10/2015 3:10:00 PM
FieldSampler:
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/12/2015 307	BJ
Arsenic	ND	mg/L		0.005	EPA 200.8	06/11/2015 2057	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/11/2015 2057	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/12/2015 307	BJ
Cadmium	ND	mg/L		0.002	EPA 200.8	06/11/2015 2057	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/12/2015 307	BJ
Copper	ND	mg/L		0.01	EPA 200.8	06/11/2015 2057	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/12/2015 307	BJ
Lead	ND	mg/L		0.02	EPA 200.8	06/11/2015 2057	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/12/2015 307	BJ
Mercury	ND	mg/L		0.001	EPA 245.1	06/18/2015 1115	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/11/2015 2057	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/12/2015 307	BJ
Selenium	ND	mg/L		0.005	EPA 200.8	06/11/2015 2057	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/11/2015 2057	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/11/2015 2057	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/12/2015 307	BJ
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/20/2015 1302	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/20/2015 1302	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/22/2015 1121	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/22/2015 1121	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/24/2015 734	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/24/2015 734	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-006
ClientSample ID: MU1 B-15
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 12:15:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	06/15/2015 1215	
Conductivity	9.9	µmhos/cm			Field	06/15/2015 1215	
Dissolved Oxygen	6.59	mg/L			Field	06/15/2015 1215	
Turbidity	4.25	NTU			Field	06/15/2015 1215	
Temperature	17.2	℃			Field	06/15/2015 1215	
Oxygen Reduction Potential (ORP)	144	mV			Field	06/15/2015 1215	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	06/17/2015 2346	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/17/2015 2346	LJK
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/17/2015 2346	LJK
Chloride	ND	mg/L		1	EPA 300.0	06/18/2015 2151	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	06/17/2015 2346	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/20/2015 1031	AMB
Sulfate	ND	mg/L		1	EPA 300.0	06/18/2015 2151	AB
Calcium	ND	mg/L		1	EPA 200.7	06/18/2015 1613	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/18/2015 1613	DG
Potassium	ND	mg/L		1	EPA 200.7	06/18/2015 1613	DG
Sodium	ND	mg/L		1	EPA 200.7	06/18/2015 1613	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1111	AMB
Silica as SiO2	ND	mg/L		0.1	EPA 200.7	06/18/2015 1613	DG
General Parameters							
pH	6.6	s.u.		0.1	SM 4500 H B	06/17/2015 2346	LJK
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	06/17/2015 2346	LJK
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/23/2015 1449	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/23/2015 835	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/23/2015 835	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-006
ClientSample ID: MU1 B-15
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 12:15:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/18/2015 1613	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/17/2015 1856	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/17/2015 1856	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/18/2015 1613	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/17/2015 1856	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/18/2015 1613	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/17/2015 1856	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/18/2015 1613	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/17/2015 1856	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/18/2015 1613	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/23/2015 910	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/17/2015 1856	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/18/2015 1613	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/17/2015 1856	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/17/2015 1856	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/17/2015 1856	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/18/2015 1613	DG
Radionuclides - Dissolved							
Gross Alpha	2.3	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	0.7	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 1620	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/23/2015 1620	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/30/2015 1707	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/30/2015 1707	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-007
ClientSample ID: MU1 B-16
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 12:15:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	8.64	s.u.			Field	06/15/2015 1215	
Conductivity	9.9	µmhos/cm			Field	06/15/2015 1215	
Dissolved Oxygen	6.59	mg/L			Field	06/15/2015 1215	
Turbidity	4.25	NTU			Field	06/15/2015 1215	
Temperature	17.2	℃			Field	06/15/2015 1215	
Oxygen Reduction Potential (ORP)	144	mV			Field	06/15/2015 1215	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	06/17/2015 2357	LJK
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	06/17/2015 2357	LJK
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	06/17/2015 2357	LJK
Chloride	ND	mg/L		1	EPA 300.0	06/18/2015 2205	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	06/17/2015 2357	LJK
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	06/20/2015 1033	AMB
Sulfate	ND	mg/L		1	EPA 300.0	06/18/2015 2205	AB
Calcium	ND	mg/L		1	EPA 200.7	06/18/2015 1627	DG
Magnesium	ND	mg/L		1	EPA 200.7	06/18/2015 1627	DG
Potassium	ND	mg/L		1	EPA 200.7	06/18/2015 1627	DG
Sodium	ND	mg/L		1	EPA 200.7	06/18/2015 1627	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	06/19/2015 1113	AMB
Silica as SiO2	ND	mg/L		0.1	EPA 200.7	06/18/2015 1627	DG
General Parameters							
pH	6.0	s.u.		0.1	SM 4500 H B	06/17/2015 2357	LJK
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	06/17/2015 2357	LJK
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	06/17/2015 1500	TS
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	06/23/2015 835	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	06/23/2015 835	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	06/23/2015 835	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 7/1/2015
Report ID S1506371001

ProjectName: Ross MU1 ISR
Lab ID: S1506371-007
ClientSample ID: MU1 B-16
COC: 160053

WorkOrder: S1506371
CollectionDate: 6/15/2015 12:15:00 PM
DateReceived: 6/16/2015 8:01:00 AM
FieldSampler: MM
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	06/18/2015 1627	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	06/17/2015 1901	MS
Barium	ND	mg/L		0.5	EPA 200.8	06/17/2015 1901	MS
Boron	ND	mg/L		0.1	EPA 200.7	06/18/2015 1627	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	06/17/2015 1901	MS
Chromium	ND	mg/L		0.01	EPA 200.7	06/18/2015 1627	DG
Copper	ND	mg/L		0.01	EPA 200.8	06/17/2015 1901	MS
Iron	ND	mg/L		0.05	EPA 200.7	06/18/2015 1627	DG
Lead	ND	mg/L		0.02	EPA 200.8	06/17/2015 1901	MS
Manganese	ND	mg/L		0.02	EPA 200.7	06/18/2015 1627	DG
Mercury	ND	mg/L		0.001	EPA 245.1	06/23/2015 912	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	06/17/2015 1901	MS
Nickel	ND	mg/L		0.01	EPA 200.7	06/18/2015 1627	DG
Selenium	ND	mg/L		0.005	EPA 200.8	06/17/2015 1901	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	06/17/2015 1901	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	06/17/2015 1901	MS
Zinc	ND	mg/L		0.01	EPA 200.7	06/18/2015 1627	DG
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	06/26/2015 1600	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	06/26/2015 1600	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/23/2015 1620	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/23/2015 1620	MB
Radium 228	ND	pCi/L		1	Ga-Tech	07/01/2015 913	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	07/01/2015 913	MB

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505317001

ProjectName: Ross MU1 ISR
Lab ID: S1505317-002
ClientSample ID: MU1 Blank
COC: 152884

WorkOrder: S1505317
CollectionDate: 5/18/2015 4:22:00 PM
DateReceived: 5/19/2015 8:13:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Field							
pH	7.85	s.u.			Field	05/18/2015 1622	
Conductivity	.0162	µmhos/cm			Field	05/18/2015 1622	
Dissolved Oxygen	6.60	mg/L			Field	05/18/2015 1622	
Turbidity	2.31	NTU			Field	05/18/2015 1622	
Temperature	18.5	℃			Field	05/18/2015 1622	
Oxygen Reduction Potential (ORP)	+152	mV			Field	05/18/2015 1622	
Anions/Cations							
Alkalinity, Total (As CaCO3)	ND	mg/L		5	SM 2320B	05/20/2015 1734	BT
Alkalinity, Bicarbonate as HCO3	ND	mg/L		5	SM 2320B	05/20/2015 1734	BT
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	05/20/2015 1734	BT
Chloride	ND	mg/L		1	EPA 300.0	05/22/2015 735	AB
Fluoride	ND	mg/L		0.1	SM 4500FC	05/20/2015 1734	BT
Nitrogen, Nitrate+Nitrite (as N)	ND	mg/L		0.1	EPA 353.2	05/22/2015 1340	AMB
Sulfate	ND	mg/L		1	EPA 300.0	05/22/2015 735	AB
Calcium	ND	mg/L		1	EPA 200.7	05/27/2015 1225	DG
Magnesium	ND	mg/L		1	EPA 200.7	05/27/2015 1225	DG
Potassium	ND	mg/L		1	EPA 200.7	05/27/2015 1225	DG
Sodium	ND	mg/L		1	EPA 200.7	05/27/2015 1225	DG
Nitrogen, Ammonia (As N)	ND	mg/L		0.1	EPA 350.1	05/22/2015 1131	AMB
General Parameters							
pH	6.5	s.u.		0.1	SM 4500 H B	05/20/2015 1734	BT
Electrical Conductivity	ND	µmhos/cm		5	SM 2510B	05/20/2015 1734	BT
Total Dissolved Solids (180)	ND	mg/L		10	SM 2540	05/21/2015 1033	BT
Data Quality							
Cation Sum	ND	meq/L		0.01	SM 1030E	05/28/2015 1511	JJ
Anion Sum	ND	meq/L		0.01	SM 1030E	05/28/2015 1511	JJ
Cation-Anion Balance (± 5%)	ND	%		0.01	SM 1030E	05/28/2015 1511	JJ
Solids, Total Dissolved (Calc)	ND	mg/L		10	SM 1030E	05/28/2015 1511	JJ

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505317001

ProjectName: Ross MU1 ISR
Lab ID: S1505317-002
ClientSample ID: MU1 Blank
COC: 152884

WorkOrder: S1505317
CollectionDate: 5/18/2015 4:22:00 PM
DateReceived: 5/19/2015 8:13:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Aluminum	ND	mg/L		0.1	EPA 200.7	05/20/2015 1617	DG
Arsenic	ND	mg/L		0.005	EPA 200.8	05/21/2015 2340	MS
Barium	ND	mg/L		0.5	EPA 200.8	05/21/2015 2340	MS
Boron	ND	mg/L		0.1	EPA 200.7	05/20/2015 1617	DG
Cadmium	ND	mg/L		0.002	EPA 200.8	05/21/2015 2340	MS
Chromium	ND	mg/L		0.01	EPA 200.7	05/20/2015 1617	DG
Copper	ND	mg/L		0.01	EPA 200.8	05/21/2015 2340	MS
Iron	ND	mg/L		0.05	EPA 200.7	05/20/2015 1617	DG
Lead	ND	mg/L		0.02	EPA 200.8	05/21/2015 2340	MS
Mercury	ND	mg/L		0.001	EPA 245.1	05/22/2015 1015	AW
Molybdenum	ND	mg/L		0.02	EPA 200.8	05/21/2015 2340	MS
Nickel	ND	mg/L		0.01	EPA 200.7	05/20/2015 1617	DG
Selenium	ND	mg/L		0.005	EPA 200.8	05/21/2015 2340	MS
Silver	ND	mg/L		0.003	EPA 200.8	05/21/2015 2340	MS
Uranium	ND	mg/L		0.0003	EPA 200.8	05/21/2015 2340	MS
Vanadium	ND	mg/L		0.02	EPA 200.8	05/21/2015 2340	MS
Zinc	ND	mg/L		0.01	EPA 200.7	05/20/2015 1617	DG
Metals - Suspended							
Uranium	ND	mg/L		0.0003	EPA 200.8	05/26/2015 1614	MS
Metals - Total							
Iron	ND	mg/L		0.05	EPA 200.7	05/21/2015 2143	DG
Manganese	ND	mg/L		0.02	EPA 200.7	05/21/2015 2143	DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

Sample Analysis Report

Company: Strata Energy Inc.
PO Box 2318
Gillette, WY 82717

Date Reported 6/19/2015
Report ID S1505317001

ProjectName: Ross MU1 ISR
Lab ID: S1505317-002
ClientSample ID: MU1 Blank
COC: 152884

WorkOrder: S1505317
CollectionDate: 5/18/2015 4:22:00 PM
DateReceived: 5/19/2015 8:13:00 AM
FieldSampler: CS
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Dissolved							
Gross Alpha	ND	pCi/L		2	SM 7110B	05/28/2015 2207	MB
Gross Alpha Precision (±)	NA	pCi/L			SM 7110B	05/28/2015 2207	MB
Gross Beta	ND	pCi/L		3	SM 7110B	05/28/2015 2207	MB
Gross Beta Precision (±)	NA	pCi/L			SM 7110B	05/28/2015 2207	MB
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1604	MB
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1604	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1510	MB
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1510	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/08/2015 913	MB
Radium 226 Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/08/2015 913	MB
Radium 228	ND	pCi/L		1	Ga-Tech	06/09/2015 111	MB
Radium 228 Precision (±)	NA	pCi/L			Ga-Tech	06/09/2015 111	MB
Thorium 230	ND	pCi/L		0.2	ACW10	05/30/2015 1300	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	05/30/2015 1300	MB
Radionuclides - Suspended							
Lead 210	ND	pCi/L		1	OTW01	06/10/2015 1811	MB
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/10/2015 1811	MB
Polonium 210	ND	pCi/L		1	OTW01	06/12/2015 1613	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	06/12/2015 1613	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	06/09/2015 1938	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	06/09/2015 1938	MB
Thorium 230	ND	pCi/L		0.2	ACW10	06/06/2015 1325	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	06/06/2015 1325	MB
Radionuclides - Total							
Radon 222	ND	pCi/L		100	ASTM D5072-09	05/20/2015 1812	WN
Radon-222 Precision (±)	NA	pCi/L			ASTM D5072-09	05/20/2015 1812	WN

These results apply only to the samples tested. **RL - Reporting Limit**

Qualifiers:

B	Analyte detected in the associated Method Blank	C	Calculated Value
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
X	Matrix Effect		

Reviewed by: _____
Wade Nieuwsma, Assistant Laboratory Manager

ATTACHMENT 9

MU1 Outlier Evaluation

Table 1. Outlier Evaluation Summary for Mine Unit 1

Suspected Outliers					Approximate Data Distribution[2]	Statistical Evaluation Results[3]		Resolution of Suspected Outliers	Justification[4]
Parameter	Monitor Well	Value	Units	Date[1]		Rosner's Test (α = 0.05)	Guideline 4 (α = 0.05, p = 0.99)		
Ore Zone (OZ)									
Alkalinity, Total as $CaCO_3$	MU1-OZ24	693	mg/L	28-May	Normal	+	+	Remove	(2)
	MU1-OZ27	642	mg/L	15-May	Normal	+	+	Remove	(2)
	MU1-OZ3	461	mg/L	21-Apr	Normal	nt[5]	+	Keep	(1)
	MU1-OZ6	447	mg/L	11-Jun	Normal	+	+	Keep	(1)
		436	mg/L	28-May	Normal	+	+	Keep	(1)
		421	mg/L	14-May	Normal	+	+	Keep	(1)
		413	mg/L	20-Apr	Normal	+	+	Keep	(1)
Ammonia as N	MU1-OZ3	0.8	mg/L	21-Apr	Normal	+	+	Keep	(1)
	MU1-OZ7	0.8	mg/L	28-Apr	Normal	+	+	Keep	(1)
Fluoride	MU1-OZ7	0.8	mg/L	15-May	Normal	+	+	Remove	(2)
	MU1-OZ12	0.8	mg/L	29-May	Normal	+	+	Remove	(2)
pH, Laboratory	MU1-OZ14	9.7	s.u.	15-May	Normal	-	+	Remove	(2)
Magnesium	MU1-OZ3	5	mg/L	14-May	Normal	-	+	Keep	(1)(3)
Potassium	MU1-OZ19	29	mg/L	22-Apr	Lognormal	+	+	Remove	(2)
		20	mg/L	15-May	Lognormal	-	+	Remove	(2)
Bicarbonate	MU1-OZ24	756	mg/L	28-May	Normal	+	+	Remove	(2)
	MU1-OZ6	459	mg/L	11-Jun	Normal	nt[5]	+	Keep	(1)
		449	mg/L	28-May	Normal	nt[5]	+	Keep	(1)
		412	mg/L	14-May	Normal	+	+	Keep	(1)
		397	mg/L	20-Apr	Normal	+	+	Keep	(1)
	MU1-OZ16	455	mg/L	21-Apr	Normal	nt[5]	+	Keep	(1)
		425	mg/L	13-May	Normal	+	+	Keep	(1)
	MU1-OZ14	430	mg/L	15-May	Normal	+	+	Remove	(2)
Carbonate	MU1-OZ14	150	mg/L	15-May	Lognormal	+	+	Remove	(2)
Radium-226, Dissolved	MU1-OZ11	<0.2	pCi/L	29-Apr	Lognormal	-	-	Remove	(2)
	MU1-OZ12	<0.2	pCi/L	29-Apr	Lognormal	-	-	Keep	(1)
	MU1-OZ13	<0.2	pCi/L	29-Apr	Lognormal	-	-	Remove	(2)
	MU1-OZ20	<0.2	pCi/L	29-Apr	Lognormal	-	-	Keep	(1)
Ra-226, Suspended	MU1-OZ7	4.1	pCi/L	28-Apr	Lognormal	+	+	Remove	(2)

Table 1. Outlier Evaluation Summary for Mine Unit 1 (Cont.)

Suspected Outliers					Approximate Data Distribution[2]	Statistical Evaluation Results[3]		Resolution of Suspected Outliers	Justification[4]
Parameter	Monitor Well	Value	Units	Date[1]		Rosner's Test (α = 0.05)	Guideline 4 (α = 0.05, p = 0.99)		
Perimeter Monitor (PM)									
Alkalinity, Total as $CaCO_3$	MU1-PM9	484	mg/L	13-May	Normal	-	-	Keep	(3)
	MU1-PM14A	450	mg/L	28-Apr	Normal	-	+	Remove	(2)
Fluoride	MU1-PM13	1.8	mg/L	27-May	Normal	+	+	Remove	(2)
Conductivity, Laboratory	MU1-PM9	3,130	µmhos/cm	13-May	Normal	+	+	Remove	(2)
pH, Laboratory	MU1-PM15	8.5	s.u.	27-May	Normal	+	+	Keep	(1)
		8.5	s.u.	10-Jun	Normal	+	+	Keep	(1)
Total Dissolved Solids	MU1-PM9	2,140	mg/L	13-May	Normal	+	+	Remove	(2)
Calcium	MU1-PM15	21	mg/L	13-May	Normal	+	+	Keep	(1)
		21	mg/L	10-Jun	Normal	+	+	Keep	(1)
		19	mg/L	27-May	Normal	+	+	Keep	(1)
		18	mg/L	28-Apr	Normal	+	+	Keep	(1)
	MU1-PM14A	12	mg/L	14-May	Normal	+	+	Keep	(1)
		10	mg/L	11-Jun	Normal	nt[5]	+	Keep	(1)
Magnesium	MU1-PM15	12	mg/L	13-May	Normal	+	+	Keep	(1)
		11	mg/L	28-Apr	Normal	+	+	Keep	(1)
		11	mg/L	27-May	Normal	+	+	Keep	(1)
		11	mg/L	10-Jun	Normal	+	+	Keep	(1)
	MU1-PM14A	7	mg/L	14-May	Normal	+	+	Keep	(1)
		5	mg/L	28-May	Normal	nt[5]	+	Keep	(1)
		5	mg/L	11-Jun	Normal	nt[5]	+	Keep	(1)
Sodium	MU1-PM9	785	mg/L	13-May	Normal	+	+	Remove	(2)
	MU1-PM10	705	mg/L	27-May	Normal	nt[5]	+	Keep	(1)
Bicarbonate	MU1-PM14A	429	mg/L	28-Apr	Normal	+	+	Remove	(2)
Chloride	MU1-PM9	11	mg/L	13-May	Normal	+	+	Keep	(1)
Sulfate	MU1-PM9	1,070	mg/L	13-May	Normal	+	+	Remove	(2)
	MU1-PM10	882	mg/L	27-May	Normal	nt[5]	+	Keep	(1)(3)
Lead-210, Dissolved	MU1-PM7	14.1	pCi/L	23-Apr	Normal	+	+	Remove	(2)
Radium-226, Dissolved	MU1-PM14A	11.3	pCi/L	28-May	Lognormal	-	+	Remove	(2)
Radon-222	MU1-PM15	14,900	pCi/L	27-May	Lognormal	-	+	Keep	(1)(3)
		14,400	pCi/L	13-May	Lognormal	-	+	Keep	(1)(3)
		13,300	pCi/L	28-Apr	Lognormal	-	+	Keep	(1)(3)

Table 1. Outlier Evaluation Summary for Mine Unit 1 (Cont.)

Suspected Outliers					Approximate Data Distribution[2]	Statistical Evaluation Results[3]		Resolution of Suspected Outliers	Justification[4]
Parameter	Monitor Well	Value	Units	Date[1]		Rosner's Test (α = 0.05)	Guideline 4 (α = 0.05, p = 0.99)		
Shallow Monitor (SM)									
Ammonia as N	MU1-SM3	0.4	mg/L	11-Jun	Normal	+	+	Keep	(1)
	MU1-SM4	0.4	mg/L	29-Apr	Normal	+	+	Keep	(1)
pH, Laboratory	MU1-SM13	9.5	s.u.	13-May	Normal	-	+	Keep	(1)(3)
		9.3	s.u.	29-Apr	Normal	-	+	Keep	(1)(3)
		9.3	s.u.	27-May	Normal	-	+	Keep	(1)(3)
		9.2	s.u.	10-Jun	Normal	-	+	Keep	(1)(3)
Calcium	MU1-SM14	10	mg/L	11-Jun	Normal	+	+	Remove	(2)
Bicarbonate	MU1-SM13	465	mg/L	13-May	Normal	-	+	Remove	(2)
Carbonate	MU1-SM13	108	mg/L	13-May	Lognormal	+	+	Keep	(1)
		87	mg/L	29-Apr	Lognormal	+	+	Keep	(1)
		82	mg/L	27-May	Lognormal	+	+	Keep	(1)
		71	mg/L	10-Jun	Lognormal	+	+	Keep	(1)
	MU1-SM4	66	mg/L	29-Apr	Lognormal	+	+	Remove	(2)
Arsenic	MU1-SM7	0.012	mg/L	22-Apr	Lognormal	+	+	Remove	(2)
	MU1-SM6	0.011	mg/L	21-Apr	Lognormal	+	+	Remove	(2)
Iron, Total	MU1-SM8	6.26	mg/L	15-May	Lognormal	+	+	Remove	(2)
	MU1-SM3	5.45	mg/L	29-Apr	Lognormal	+	+	Remove	(2)
	MU1-SM2	2.39	mg/L	15-May	Lognormal	-	+	Keep	(1)(3)
Uranium, Dissolved	MU1-SM5	0.0021	mg/L	28-May	Lognormal	+	+	Remove	(2)
	MU1-SM7	0.0015	mg/L	22-Apr	Lognormal	+	+	Remove	(2)
	MU1-SM4	0.0013	mg/L	27-May	Lognormal	+	+	Remove	(2)
Radium-226, Dissolved	MU1-SM5	24.8	pCi/L	28-May	Lognormal	+	+	Remove	(2)
		4.1	pCi/L	11-Jun	Lognormal	-	-	Keep	(3)
	MU1-SM1	4.1	pCi/L	15-May	Lognormal	-	-	Keep	(3)
Radon-222	MU1-SM12	2,740	pCi/L	28-May	Lognormal	+	+	Remove	(2)
	MU1-SM5	2,240	pCi/L	28-May	Lognormal	+	+	Remove	(2)
	MU1-SM3	1,950	pCi/L	14-May	Lognormal	+	+	Remove	(2)
	MU1-SM14	1,950	pCi/L	14-May	Lognormal	+	+	Remove	(2)
	MU1-SM10	1,340	pCi/L	14-May	Lognormal	+	+	Remove	(2)
	MU1-SM2	1,230	pCi/L	29-May	Lognormal	+	+	Remove	(2)
Gross Alpha	MU1-SM5	72.7	pCi/L	28-May	Lognormal	+	+	Remove	(2)
Gross Beta	MU1-SM5	28.4	pCi/L	28-May	Lognormal	+	+	Remove	(2)

Table 1. Outlier Evaluation Summary for Mine Unit 1 (Cont.)

Suspected Outliers					Approximate Data Distribution[2]	Statistical Evaluation Results[3]		Resolution of Suspected Outliers	Justification[4]
Parameter	Monitor Well	Value	Units	Date[1]		Rosner's Test (α = 0.05)	Guideline 4 (α = 0.05, p = 0.99)		
Deep Monitor (DM)									
Alkalinity, Total as $CaCO_3$	MU1-DM14	930	mg/L	28-Apr	Normal	+	+	Remove	(2)
		841	mg/L	12-Jun	Normal	+	+	Remove	(2)
		744	mg/L	29-May	Normal	-	+	Keep	(1)(3)
	MU1-DM13	795	mg/L	11-Jun	Normal	+	+	Remove	(2)
	MU1-DM3A	263	mg/L	15-May	Normal	nc[6]	-	Keep	(1)
	MU1-DM5	263	mg/L	29-Apr	Normal	nc[6]	-	Remove	(2)
Ammonia as N	MU1-DM3A	5.0	mg/L	28-Apr	Normal	+	+	Remove	(2)
	MU1-DM12	3.4	mg/L	28-Apr	Normal	+	+	Remove	(2)
	MU1-DM5	2.9	mg/L	29-Apr	Normal	+	+	Remove	(2)
Fluoride	MU1-DM7	0.3	mg/L	15-May	Normal	+	+	Remove	(2)
Silica as SiO_2	MU1-DM9	23.1	mg/L	12-Jun	Normal	+	+	Keep	(4)
	MU1-DM7	15.2	mg/L	12-Jun	Normal	+	+	Keep	(4)
Conductivity, Laboratory	MU1-DM1	1,450	µmhos/cm	29-Apr	Normal	+	+	Remove	(2)
	MU1-DM12	5,320	µmhos/cm	28-Apr	Normal	+	+	Remove	(2)
		4,630	µmhos/cm	14-May	Normal	+	+	Keep	(1)
		4,340	µmhos/cm	11-Jun	Normal	+	+	Keep	(1)
		4,280	µmhos/cm	28-May	Normal	+	+	Keep	(1)
	MU1-DM9	4,410	µmhos/cm	28-Apr	Normal	+	+	Remove	(2)
	MU1-DM14	4,210	µmhos/cm	28-Apr	Normal	+	+	Remove	(2)
	MU1-DM7	2,250	µmhos/cm	15-May	Normal	-	-	Remove	(2)
	MU1-DM2	2,130	µmhos/cm	29-Apr	Normal	-	+	Remove	(2)
Total Dissolved Solids	MU1-DM9	3,690	mg/L	28-Apr	Lognormal	+	+	Remove	(2)
	MU1-DM12	3,070	mg/L	28-Apr	Lognormal	+	+	Remove	(2)
	MU1-DM2	1,280	mg/L	29-Apr	Lognormal	nc[6]	-	Remove	(2)
	MU1-DM1	910	mg/L	29-Apr	Lognormal	+	+	Remove	(2)
Calcium	MU1-DM9	31	mg/L	28-Apr	Normal	+	+	Remove	(2)
	MU1-DM3A	10	mg/L	28-Apr	Normal	-	+	Remove	(2)
	MU1-DM12	9	mg/L	28-Apr	Normal	-	-	Remove	(2)
Sodium	MU1-DM1	339	mg/L	29-Apr	Normal	+	+	Remove	(2)
	MU1-DM12	936	mg/L	14-May	Normal	+	+	Keep	(1)
		925	mg/L	28-May	Normal	+	+	Keep	(1)
		883	mg/L	11-Jun	Normal	+	+	Keep	(1)
	MU1-DM2	462	mg/L	29-Apr	Normal	-	+	Remove	(2)

Table 1. Outlier Evaluation Summary for Mine Unit 1 (Cont.)

Suspected Outliers					Approximate Data Distribution[2]	Statistical Evaluation Results[3]		Resolution of Suspected Outliers	Justification[4]
Parameter	Monitor Well	Value	Units	Date[1]		Rosner's Test (α = 0.05)	Guideline 4 (α = 0.05, p = 0.99)		
Deep Monitor (DM) (Cont.)									
Chloride	MU1-DM3A	277	mg/L	28-Apr	Normal	-	-	Remove	(2)
	MU1-DM12	260	mg/L	28-Apr	Normal	-	-	Keep	(1)(3)
	MU1-DM2	228	mg/L	29-Apr	Normal	-	-	Remove	(2)
	MU1-DM1	123	mg/L	29-Apr	Normal	-	+	Remove	(2)
Arsenic	MU1-DM5	0.011	mg/L	29-Apr	Normal	-	-	Remove	(2)
Uranium, Dissolved	MU1-DM1	0.0027	mg/L	29-Apr	Normal	+	+	Remove	(2)
	MU1-DM2	0.0026	mg/L	29-Apr	Normal	+	+	Remove	(2)
Radium-226, Dissolved	MU1-DM4	1.7	pCi/L	29-Apr	Normal	+	+	Remove	(2)
	MU1-DM6	0.8	pCi/L	12-Jun	Normal	+	+	Remove	(2)
Radon-222	MU1-DM1	1,070	pCi/L	14-May	Lognormal	+	+	Remove	(2)
	MU1-DM4	868	pCi/L	28-May	Lognormal	+	+	Remove	(2)

[1] All dates are 2015.

[2] With suspected outliers removed, if applicable; distribution assumptions are based on linearity of probability plots with reasonably high correlation coeffi

[3] + = positive test result (statistical outlier); - = negative test result (not a statistical outlier)

[4] Justifications:

(1) Consistent values across all four sampling events for that well; attributed to natural variability in monitoring interval.

(2) Anomalously high or low value compared to other results from the same well.

(3) Negative or inconclusive statistical test results (failed one or more statistical outlier tests).

(4) Inconclusive without additional data.

[5] nt – not tested by Rosner's test, since not identified through visual screening as suspected outlier.

[6] nc – not calculated, since ProUCL does not recognize value as a potential outlier.

Monitoring Interval: **Ore Zone (OZ)**

Note: The detection frequency for the following parameters was less than 25%; therefore, no attempt was made to fit these parameters to a data distribution or to perform visual screening or statistical evaluation of potential outliers.

Parameter	Detection Frequency (%)
Nitrate/Nitrite as N	3
Aluminum, dissolved	1
Arsenic, dissolved	0
Barium, dissolved	0
Cadmium, dissolved	0
Chromium, dissolved	0
Copper, dissolved	0
Iron, dissolved	2
Lead, dissolved	0
Mercury, dissolved	0
Manganese, dissolved	4
Manganese, total	0
Molybdenum, dissolved	0
Nickel, dissolved	0
Selenium, dissolved	0
Silver, dissolved	0
Uranium, suspended	9
Vanadium, dissolved	3
Zinc, dissolved	2
Radium-228, dissolved	7
Thorium-230, dissolved	1
Thorium-230, suspended	3

Monitoring Interval: **Ore Zone (OZ)**

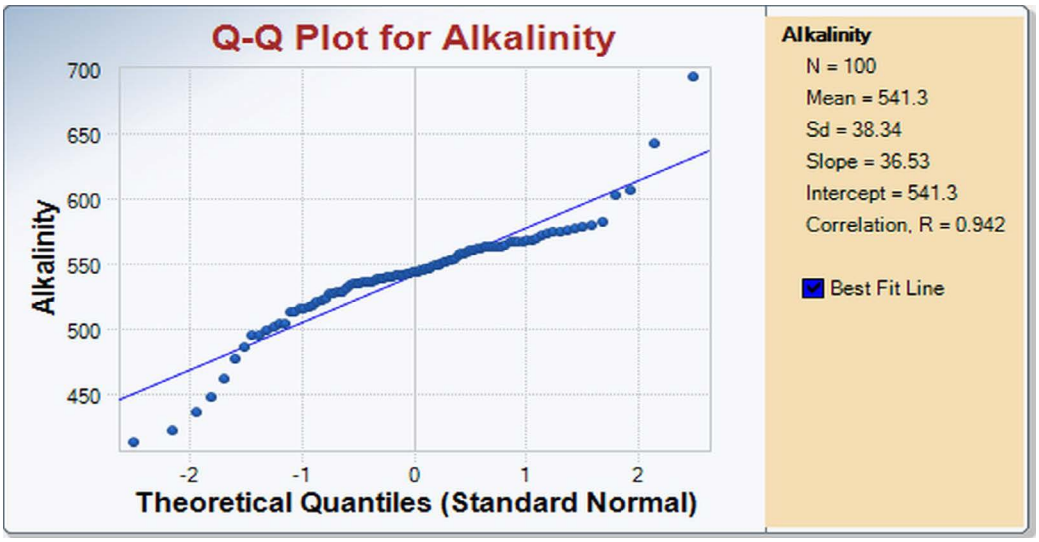
Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	533	14-May	535	28-May	564	11-Jun	551
MU1-OZ2	29-Apr	546	13-May	536	27-May	543	10-Jun	551
MU1-OZ3	21-Apr	461	14-May	477	28-May	501	11-Jun	498
MU1-OZ4	22-Apr	527	13-May	540	27-May	539	10-Jun	561
MU1-OZ6	20-Apr	413	14-May	421	28-May	436	11-Jun	447
MU1-OZ7	28-Apr	516	15-May	642	29-May	512	12-Jun	528
MU1-OZ8	22-Apr	549	15-May	552	29-May	557	12-Jun	562
MU1-OZ9	24-Apr	545	13-May	554	27-May	576	10-Jun	559
MU1-OZ10	23-Apr	528	14-May	527	28-May	536	15-Jun	534
MU1-OZ11	29-Apr	542	13-May	566	27-May	536	10-Jun	537
MU1-OZ12	29-Apr	541	14-May	513	29-May	515	11-Jun	521
MU1-OZ13	29-Apr	504	14-May	494	1-Jun	520	15-Jun	504
MU1-OZ14	20-Apr	582	15-May	603	29-May	538	12-Jun	566
MU1-OZ15	21-Apr	515	14-May	518	28-May	562	11-Jun	528
MU1-OZ16	21-Apr	494	13-May	485	27-May	523	10-Jun	534
MU1-OZ17	24-Apr	566	15-May	571	29-May	578	12-Jun	574
MU1-OZ18	23-Apr	562	14-May	568	28-May	577	11-Jun	579
MU1-OZ19	22-Apr	568	15-May	606	29-May	541	12-Jun	540
MU1-OZ20	29-Apr	562	13-May	543	27-May	541	10-Jun	547
MU1-OZ21	29-Apr	538	14-May	574	28-May	569	11-Jun	544
MU1-OZ22	23-Apr	552	18-May	550	1-Jun	566	15-Jun	573
MU1-OZ23	29-Apr	562	14-May	563	28-May	556	11-Jun	560
MU1-OZ24	23-Apr	560	14-May	536	28-May	693	11-Jun	549
MU1-OZ25	23-Apr	530	14-May	541	28-May	558	11-Jun	542
MU1-OZ26	20-Apr	545	13-May	546	27-May	538	10-Jun	561

Suspected outlier based on visual screening

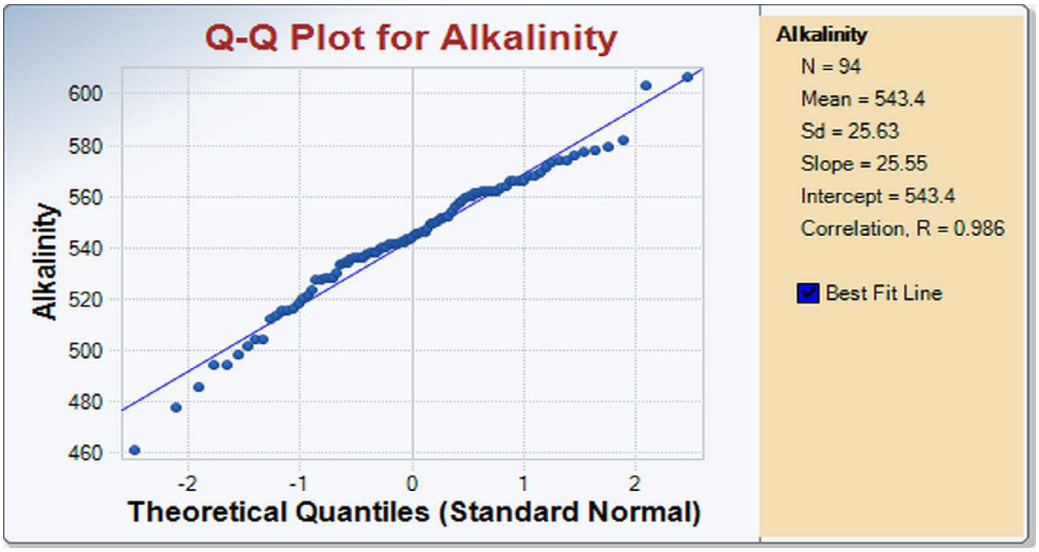
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected high and four suspected low outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Normality assumption is reasonable.

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	541.3
Standard deviation	38.3
Number of data	100
Number of suspected outliers	6

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ24	28-May	693	3.977	3.380	**Yes**
2	MU1-OZ6	20-Apr	413	3.587	3.380	**Yes**
3	MU1-OZ6	14-May	421	3.630	3.380	**Yes**
4	MU1-OZ6	28-May	436	3.442	3.370	**Yes**
5	MU1-OZ7	15-May	642	3.396	3.370	**Yes**
6	MU1-OZ6	11-Jun	447	3.487	3.366	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	543.4	*Calculated without
Standard deviation*:	25.6	suspected outliers
n*	94	
k	2.9476	
Lower tolerance limit	468	
Upper tolerance limit	619	

For 5% significance level, there are **seven Statistical Outliers: 413, 421, 436, 447, 461*, 642, 693**
*Note that 461 value was not identified from visual screening but is a statistical outlier according to WDEQ/LQD Guideline 4 outlier test.

Step 3: Rationale for Removing or Keeping Statistical Outliers

Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
413	MU1-OZ6	**Keep**	Consistent with other results from this well.
421	MU1-OZ6	**Keep**	Consistent with other results from this well.
436	MU1-OZ6	**Keep**	Consistent with other results from this well.
447	MU1-OZ6	**Keep**	Consistent with other results from this well.
461	MU1-OZ3	**Keep**	Consistent with other results from this well.
642	MU1-OZ7	**Remove**	Anomalously high value for this well.
693	MU1-OZ24	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Ore Zone (OZ)**

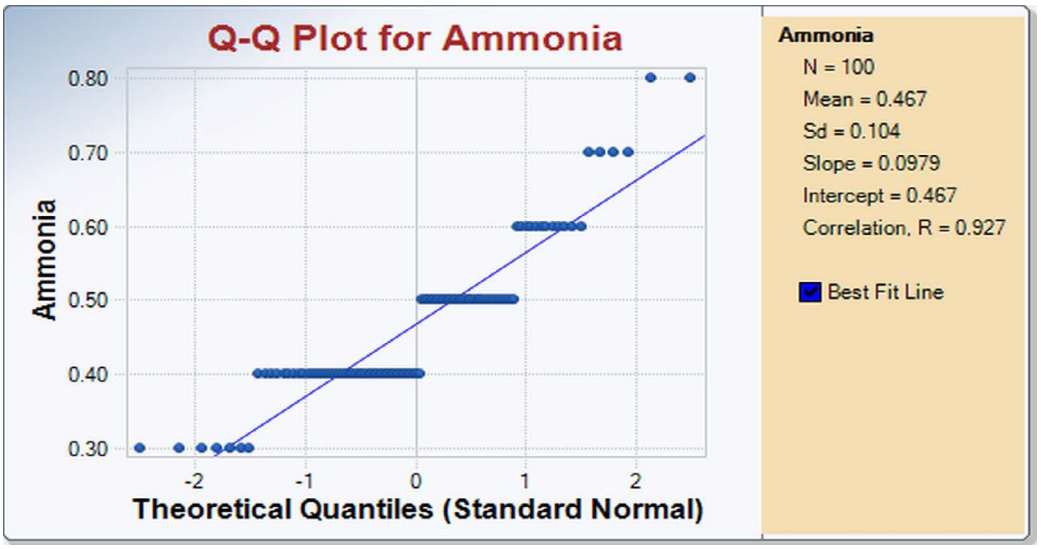
Parameter: **Ammonia (mg/L as N)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.5	14-May	0.5	28-May	0.4	11-Jun	0.4
MU1-OZ2	29-Apr	0.4	13-May	0.5	27-May	0.4	10-Jun	0.4
MU1-OZ3	21-Apr	0.8	14-May	0.7	28-May	0.6	11-Jun	0.6
MU1-OZ4	22-Apr	0.4	13-May	0.5	27-May	0.5	10-Jun	0.4
MU1-OZ6	20-Apr	0.5	14-May	0.6	28-May	0.5	11-Jun	0.5
MU1-OZ7	28-Apr	0.8	15-May	0.6	29-May	0.6	12-Jun	0.6
MU1-OZ8	22-Apr	0.4	15-May	0.3	29-May	0.4	12-Jun	0.4
MU1-OZ9	24-Apr	0.4	13-May	0.4	27-May	0.4	10-Jun	0.4
MU1-OZ10	23-Apr	0.5	14-May	0.4	28-May	0.4	15-Jun	0.5
MU1-OZ11	29-Apr	0.7	13-May	0.4	27-May	0.4	10-Jun	0.6
MU1-OZ12	29-Apr	0.7	14-May	0.5	29-May	0.5	11-Jun	0.5
MU1-OZ13	29-Apr	0.4	14-May	0.5	1-Jun	0.5	15-Jun	0.6
MU1-OZ14	20-Apr	0.6	15-May	0.5	29-May	0.4	12-Jun	0.4
MU1-OZ15	21-Apr	0.4	14-May	0.5	28-May	0.4	11-Jun	0.4
MU1-OZ16	21-Apr	0.4	13-May	0.3	27-May	0.4	10-Jun	0.4
MU1-OZ17	24-Apr	0.7	15-May	0.6	29-May	0.4	12-Jun	0.5
MU1-OZ18	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ19	22-Apr	0.3	15-May	0.3	29-May	0.4	12-Jun	0.4
MU1-OZ20	29-Apr	0.4	13-May	0.5	27-May	0.4	10-Jun	0.4
MU1-OZ21	29-Apr	0.4	14-May	0.5	28-May	0.4	11-Jun	0.4
MU1-OZ22	23-Apr	0.3	18-May	0.4	1-Jun	0.3	15-Jun	0.3
MU1-OZ23	29-Apr	0.6	14-May	0.6	28-May	0.5	11-Jun	0.4
MU1-OZ24	23-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.4
MU1-OZ25	23-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.5
MU1-OZ26	20-Apr	0.5	13-May	0.5	27-May	0.4	10-Jun	0.4

Suspected outlier based on visual screening

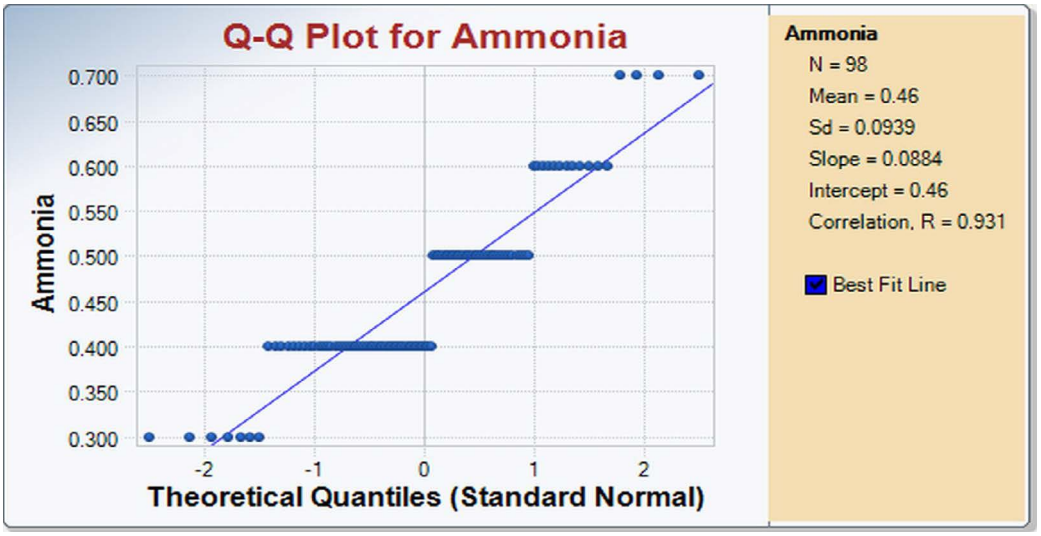
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected high outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Slightly improved linear fit; normality assumption is reasonable.

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	0.467
Standard deviation	0.104
Number of data	100
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ3	21-Apr	0.8	3.203	3.380	**Yes**
2	MU1-OZ7	28-Apr	0.8	3.383	3.380	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	0.460	*Calculated without
Standard deviation*:	0.094	suspected outliers
n*	98	
k	2.9384	
Lower tolerance limit	0.18	
Upper tolerance limit	0.74	

For 5% significance level, there are **two Statistical Outliers: 0.8, 0.8**

Step 3: Rationale for Removing or Keeping Statistical Outliers

Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.8	MU1-OZ3	**Keep**	Consistent with other results from this well.
0.8	MU1-OZ7	**Keep**	Consistent with other results from this well.

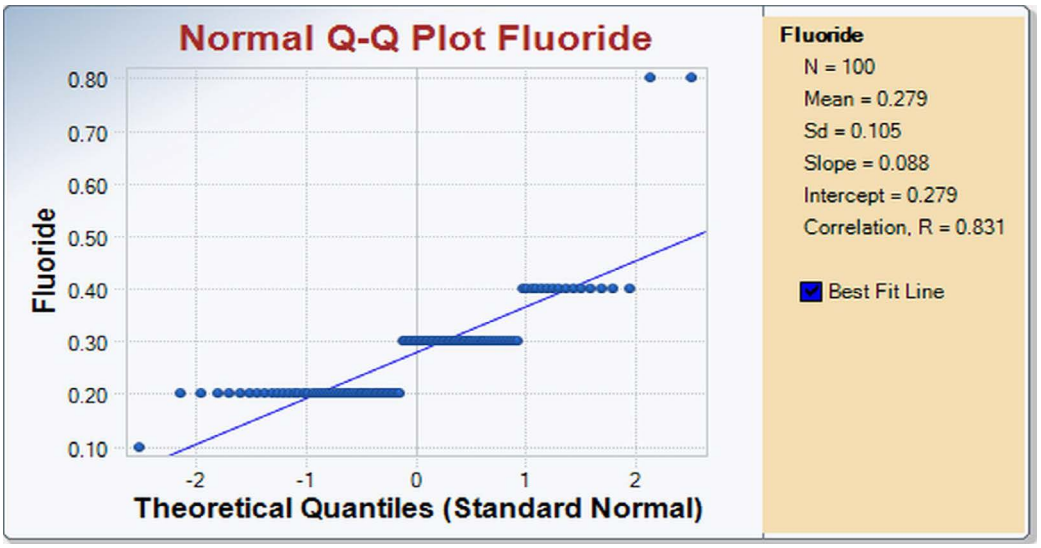
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Fluoride (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ2	29-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ3	21-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ4	22-Apr	0.2	13-May	0.3	27-May	0.2	10-Jun	0.2
MU1-OZ6	20-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ7	28-Apr	0.2	15-May	0.8	29-May	0.1	12-Jun	0.2
MU1-OZ8	22-Apr	0.3	15-May	0.3	29-May	0.2	12-Jun	0.2
MU1-OZ9	24-Apr	0.2	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ10	23-Apr	0.3	14-May	0.3	28-May	0.4	15-Jun	0.3
MU1-OZ11	29-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ12	29-Apr	0.2	14-May	0.2	29-May	0.8	11-Jun	0.2
MU1-OZ13	29-Apr	0.2	14-May	0.2	1-Jun	0.2	15-Jun	0.2
MU1-OZ14	20-Apr	0.3	15-May	0.4	29-May	0.3	12-Jun	0.3
MU1-OZ15	21-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ16	21-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ17	24-Apr	0.2	15-May	0.2	29-May	0.2	12-Jun	0.2
MU1-OZ18	23-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ19	22-Apr	0.2	15-May	0.2	29-May	0.2	12-Jun	0.2
MU1-OZ20	29-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.3
MU1-OZ21	29-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ22	23-Apr	0.3	18-May	0.4	1-Jun	0.3	15-Jun	0.3
MU1-OZ23	29-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ24	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ25	23-Apr	0.3	14-May	0.4	28-May	0.2	11-Jun	0.4
MU1-OZ26	20-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3

Suspected outlier based on visual screening

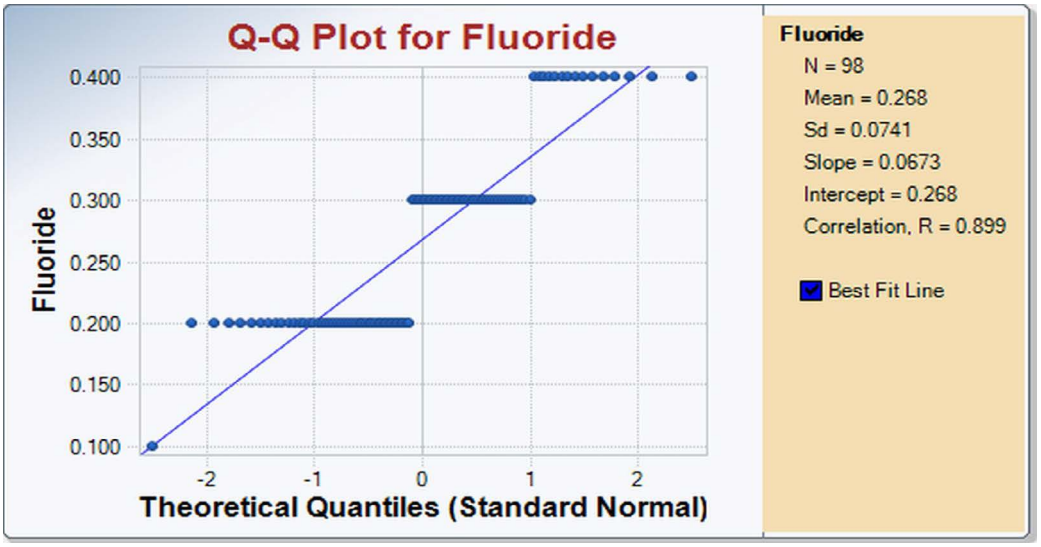
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected high outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.
(Relatively low linear correlation is attributed to data precision - data points are grouped in 0.1 mg/L increments.)

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	0.279
Standard deviation	0.105
Number of data	100
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ7	15-May	0.8	5.000	3.380	**Yes**
2	MU1-OZ12	29-May	0.8	5.782	3.380	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	0.268	*Calculated without
Standard deviation*:	0.074	suspected outliers
n*	98	
k	2.9384	
Lower tolerance limit	0.05	
Upper tolerance limit	0.49	

For 5% significance level, there are **two Statistical Outliers: 0.8, 0.8**

Step 3: Rationale for Removing or Keeping Statistical Outliers

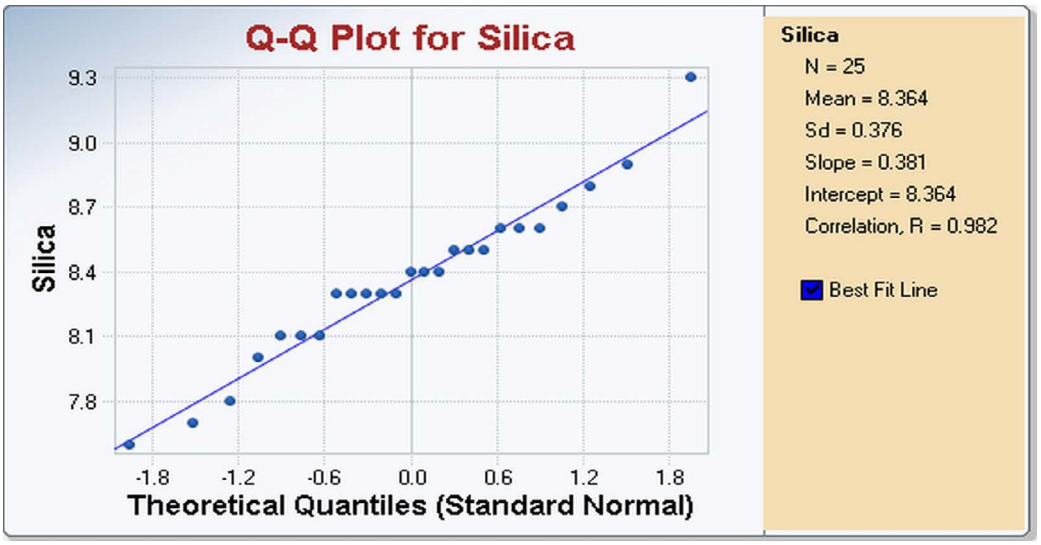
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.8	MU1-OZ7	**Remove**	Anomalously high value for this well.
0.8	MU1-OZ12	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Silica (mg/L as SiO_2)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1							11-Jun	8.1
MU1-OZ2							10-Jun	8.5
MU1-OZ3							11-Jun	8.0
MU1-OZ4							10-Jun	8.4
MU1-OZ6							11-Jun	7.6
MU1-OZ7							12-Jun	8.5
MU1-OZ8							12-Jun	7.8
MU1-OZ9							10-Jun	8.9
MU1-OZ10							15-Jun	8.3
MU1-OZ11							10-Jun	9.3
MU1-OZ12							11-Jun	8.3
MU1-OZ13	Not measured		Not measured		Not measured		15-Jun	8.7
MU1-OZ14							12-Jun	8.6
MU1-OZ15							11-Jun	8.5
MU1-OZ16							10-Jun	8.8
MU1-OZ17							12-Jun	8.1
MU1-OZ18							11-Jun	7.7
MU1-OZ19							12-Jun	8.3
MU1-OZ20							10-Jun	8.6
MU1-OZ21							11-Jun	8.1
MU1-OZ22							15-Jun	8.3
MU1-OZ23							11-Jun	8.4
MU1-OZ24							11-Jun	8.4
MU1-OZ25							11-Jun	8.3
MU1-OZ26							10-Jun	8.6

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



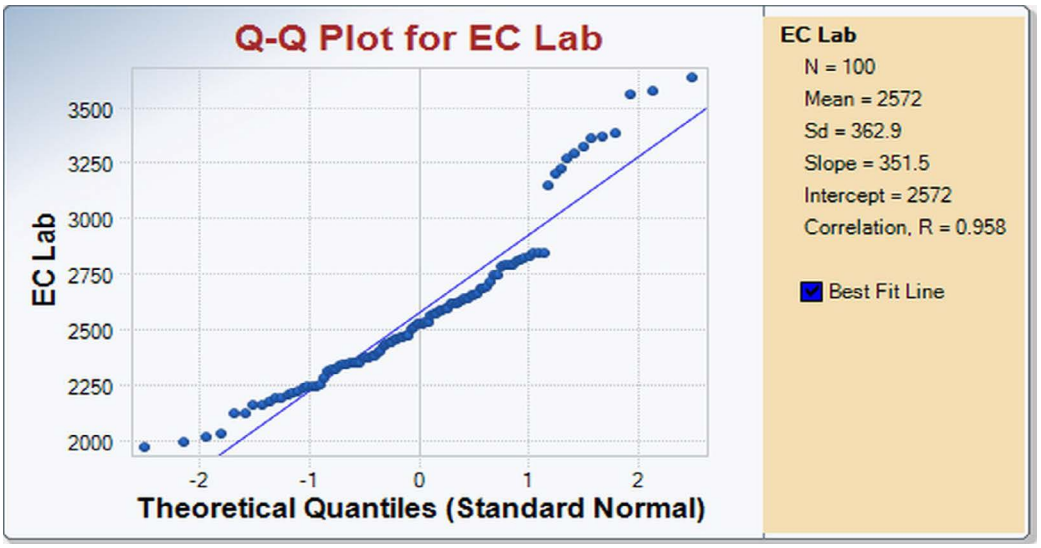
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Conductivity, Laboratory (µmhos/cm)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	2,710	14-May	2,570	28-May	2,450	11-Jun	2,560
MU1-OZ2	29-Apr	2,230	13-May	2,320	27-May	2,200	10-Jun	2,340
MU1-OZ3	21-Apr	3,370	14-May	3,320	28-May	3,150	11-Jun	3,270
MU1-OZ4	22-Apr	2,350	13-May	2,390	27-May	2,240	10-Jun	2,370
MU1-OZ6	20-Apr	3,570	14-May	3,630	28-May	3,380	11-Jun	3,560
MU1-OZ7	28-Apr	2,840	15-May	2,790	29-May	2,780	12-Jun	2,840
MU1-OZ8	22-Apr	2,190	15-May	2,160	29-May	2,120	12-Jun	2,160
MU1-OZ9	24-Apr	2,220	13-May	2,380	27-May	2,210	10-Jun	2,350
MU1-OZ10	23-Apr	2,620	14-May	2,640	28-May	2,610	15-Jun	2,590
MU1-OZ11	29-Apr	2,790	13-May	2,810	27-May	2,660	10-Jun	2,790
MU1-OZ12	29-Apr	2,820	14-May	2,740	29-May	2,680	11-Jun	2,830
MU1-OZ13	29-Apr	3,360	14-May	3,290	1-Jun	3,200	15-Jun	3,220
MU1-OZ14	20-Apr	2,250	15-May	2,120	29-May	2,170	12-Jun	2,190
MU1-OZ15	21-Apr	2,690	14-May	2,740	28-May	2,590	11-Jun	2,680
MU1-OZ16	21-Apr	2,460	13-May	2,240	27-May	2,370	10-Jun	2,520
MU1-OZ17	24-Apr	2,340	15-May	2,350	29-May	2,320	12-Jun	2,350
MU1-OZ18	23-Apr	2,420	14-May	2,500	28-May	2,380	11-Jun	2,520
MU1-OZ19	22-Apr	2,840	15-May	2,650	29-May	2,610	12-Jun	2,580
MU1-OZ20	29-Apr	2,440	13-May	2,440	27-May	2,310	10-Jun	2,470
MU1-OZ21	29-Apr	2,510	14-May	2,520	28-May	2,450	11-Jun	2,570
MU1-OZ22	23-Apr	1,990	18-May	2,030	1-Jun	1,970	15-Jun	2,010
MU1-OZ23	29-Apr	2,370	14-May	2,460	28-May	2,240	11-Jun	2,330
MU1-OZ24	23-Apr	2,530	14-May	2,630	28-May	2,530	11-Jun	2,650
MU1-OZ25	23-Apr	2,640	14-May	2,800	28-May	2,580	11-Jun	2,610
MU1-OZ26	20-Apr	2,400	13-May	2,470	27-May	2,280	10-Jun	2,430

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Normality assumption is reasonable with no suspected outliers; no need for formal testing.

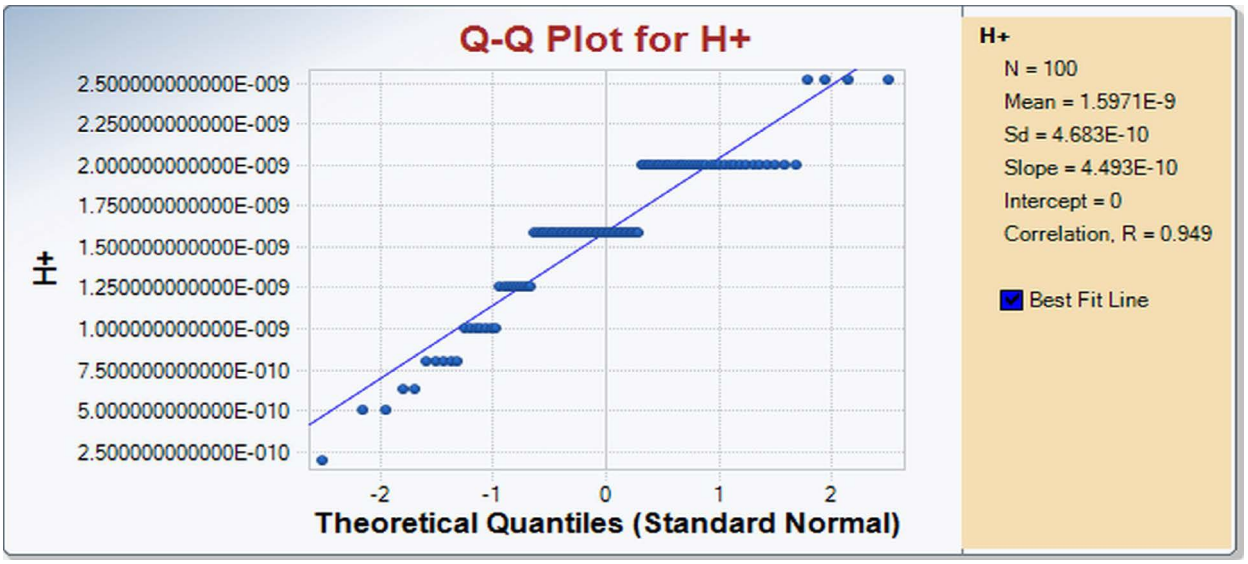
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **pH, Laboratory (s.u.)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	8.7	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ2	29-Apr	8.8	13-May	8.7	27-May	8.7	10-Jun	8.7
MU1-OZ3	21-Apr	8.8	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ4	22-Apr	8.8	13-May	8.8	27-May	8.8	10-Jun	8.8
MU1-OZ6	20-Apr	9.0	14-May	9.1	28-May	9.0	11-Jun	9.0
MU1-OZ7	28-Apr	8.7	15-May	8.9	29-May	8.6	12-Jun	8.6
MU1-OZ8	22-Apr	8.8	15-May	8.8	29-May	8.7	12-Jun	8.8
MU1-OZ9	24-Apr	9.1	13-May	9.1	27-May	9.0	10-Jun	9.0
MU1-OZ10	23-Apr	8.8	14-May	8.8	28-May	8.8	15-Jun	8.7
MU1-OZ11	29-Apr	9.0	13-May	8.8	27-May	8.8	10-Jun	8.7
MU1-OZ12	29-Apr	8.9	14-May	8.6	29-May	8.6	11-Jun	8.7
MU1-OZ13	29-Apr	9.2	14-May	9.1	1-Jun	8.8	15-Jun	8.7
MU1-OZ14	20-Apr	8.9	15-May	9.7	29-May	8.8	12-Jun	8.8
MU1-OZ15	21-Apr	8.8	14-May	8.9	28-May	8.8	11-Jun	8.8
MU1-OZ16	21-Apr	9.3	13-May	9.2	27-May	8.8	10-Jun	8.8
MU1-OZ17	24-Apr	8.8	15-May	8.8	29-May	8.7	12-Jun	8.7
MU1-OZ18	23-Apr	8.8	14-May	8.8	28-May	8.7	11-Jun	8.8
MU1-OZ19	22-Apr	9.3	15-May	9.1	29-May	8.9	12-Jun	8.9
MU1-OZ20	29-Apr	9.0	13-May	8.7	27-May	8.7	10-Jun	8.7
MU1-OZ21	29-Apr	8.9	14-May	8.9	28-May	8.7	11-Jun	8.8
MU1-OZ22	23-Apr	8.8	18-May	8.7	1-Jun	8.7	15-Jun	8.8
MU1-OZ23	29-Apr	8.9	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ24	23-Apr	8.7	14-May	8.7	28-May	8.8	11-Jun	8.7
MU1-OZ25	23-Apr	8.7	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ26	20-Apr	8.7	13-May	8.8	27-May	8.7	10-Jun	8.7

Suspected outlier based on visual screening

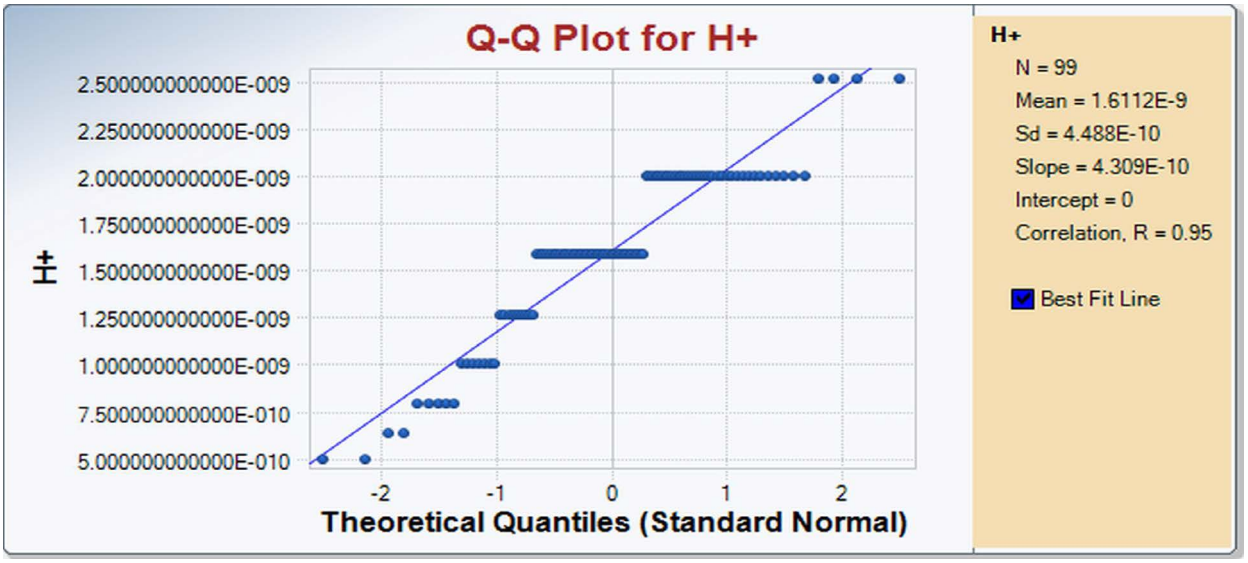
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected low outlier.
(Note that hydrogen ion concentrations are plotted instead of pH values; accordingly, suspected low outlier H+ concentration corresponds to suspected high outlier pH value.)

Normal Probabilty Plot with Suspected Outlier Removed



Normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	1.60E-09
Standard deviation	4.68E-10
Number of data	100
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ14	15-May	2E-10	2.999	3.380	**No**

*Calculated using hydrogen ion concentrations; 2E-10 corresponds to pH 9.7.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	1.61E-09	**Calculated without
Standard deviation**:	4.49E-10	suspected outliers
n**	99	
k	2.9362	
Lower tolerance limit	2.93E-10	
Upper tolerance limit	2.93E-09	

For 5% significance level, there is one **Statistical Outlier: 2.00E-10 (pH 9.7).**

*Calculated using hydrogen ion concentrations.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

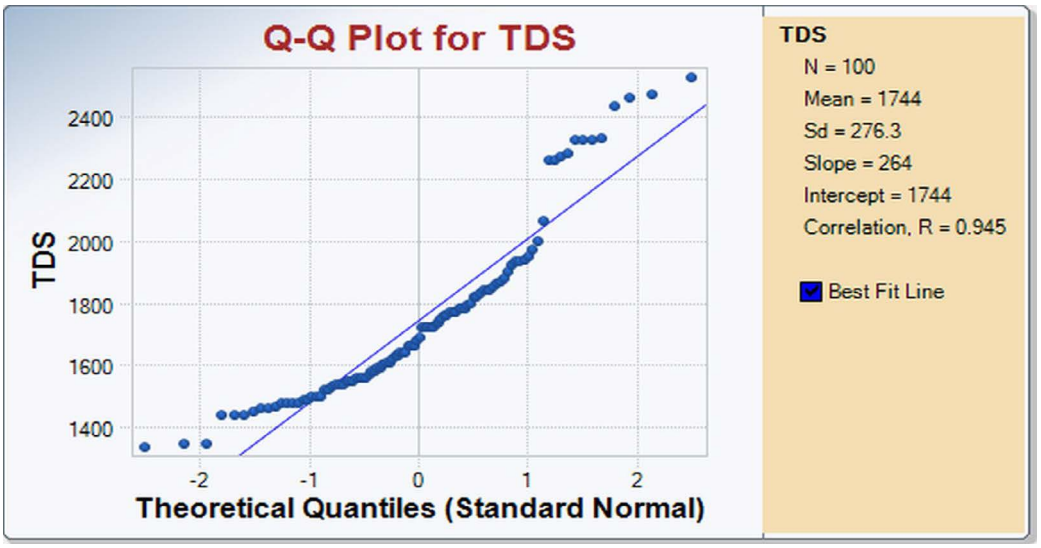
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
9.7	MU1-OZ14	**Remove**	Anomalousy high value for this well; also results in anomalously high carbonate concentration that also was determined to be an outlier.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Total Dissolved Solids, TDS (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	1,680	14-May	1,690	28-May	1,740	11-Jun	1,720
MU1-OZ2	29-Apr	1,560	13-May	1,470	27-May	1,530	10-Jun	1,480
MU1-OZ3	21-Apr	2,320	14-May	2,270	28-May	2,260	11-Jun	2,260
MU1-OZ4	22-Apr	1,520	13-May	1,500	27-May	1,550	10-Jun	1,500
MU1-OZ6	20-Apr	2,520	14-May	2,430	28-May	2,470	11-Jun	2,460
MU1-OZ7	28-Apr	2,000	15-May	1,970	29-May	1,950	12-Jun	1,930
MU1-OZ8	22-Apr	1,440	15-May	1,440	29-May	1,440	12-Jun	1,450
MU1-OZ9	24-Apr	1,730	13-May	1,460	27-May	1,520	10-Jun	1,490
MU1-OZ10	23-Apr	1,600	14-May	1,840	28-May	1,830	15-Jun	1,790
MU1-OZ11	29-Apr	1,880	13-May	1,820	27-May	1,860	10-Jun	1,820
MU1-OZ12	29-Apr	1,920	14-May	1,930	29-May	1,870	11-Jun	1,900
MU1-OZ13	29-Apr	2,320	14-May	2,320	1-Jun	2,330	15-Jun	2,280
MU1-OZ14	20-Apr	1,480	15-May	1,500	29-May	1,490	12-Jun	1,480
MU1-OZ15	21-Apr	1,640	14-May	1,720	28-May	1,840	11-Jun	1,780
MU1-OZ16	21-Apr	1,620	13-May	1,460	27-May	1,660	10-Jun	1,590
MU1-OZ17	24-Apr	1,770	15-May	1,580	29-May	1,570	12-Jun	1,560
MU1-OZ18	23-Apr	1,940	14-May	1,630	28-May	1,640	11-Jun	1,660
MU1-OZ19	22-Apr	1,760	15-May	1,850	29-May	1,780	12-Jun	1,760
MU1-OZ20	29-Apr	1,630	13-May	1,540	27-May	1,610	10-Jun	1,560
MU1-OZ21	29-Apr	1,770	14-May	1,640	28-May	1,720	11-Jun	1,720
MU1-OZ22	23-Apr	1,480	18-May	1,350	1-Jun	1,350	15-Jun	1,340
MU1-OZ23	29-Apr	1,660	14-May	1,560	28-May	1,540	11-Jun	1,540
MU1-OZ24	23-Apr	2,060	14-May	1,720	28-May	1,800	11-Jun	1,750
MU1-OZ25	23-Apr	1,580	14-May	1,770	28-May	1,840	11-Jun	1,780
MU1-OZ26	20-Apr	1,610	13-May	1,550	27-May	1,590	10-Jun	1,550

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



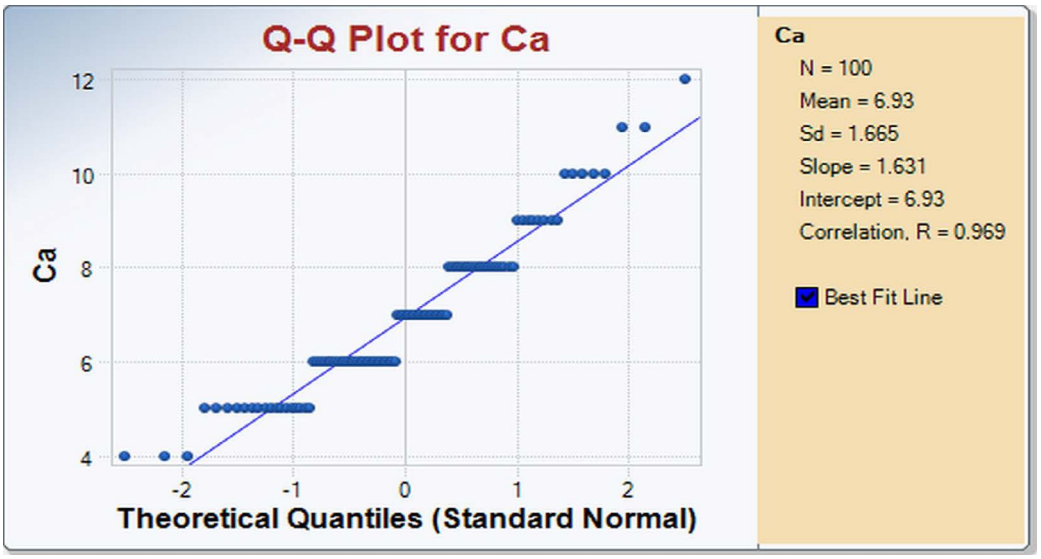
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Calcium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	7	14-May	7	28-May	7	11-Jun	7
MU1-OZ2	29-Apr	6	13-May	7	27-May	6	10-Jun	7
MU1-OZ3	21-Apr	8	14-May	9	28-May	10	11-Jun	11
MU1-OZ4	22-Apr	7	13-May	7	27-May	7	10-Jun	8
MU1-OZ6	20-Apr	6	14-May	6	28-May	6	11-Jun	6
MU1-OZ7	28-Apr	10	15-May	11	29-May	10	12-Jun	12
MU1-OZ8	22-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ9	24-Apr	5	13-May	4	27-May	4	10-Jun	5
MU1-OZ10	23-Apr	5	14-May	6	28-May	5	15-Jun	7
MU1-OZ11	29-Apr	9	13-May	9	27-May	9	10-Jun	10
MU1-OZ12	29-Apr	8	14-May	9	29-May	9	11-Jun	9
MU1-OZ13	29-Apr	6	14-May	6	1-Jun	8	15-Jun	10
MU1-OZ14	20-Apr	5	15-May	6	29-May	5	12-Jun	6
MU1-OZ15	21-Apr	8	14-May	7	28-May	8	11-Jun	7
MU1-OZ16	21-Apr	5	13-May	4	27-May	5	10-Jun	6
MU1-OZ17	24-Apr	6	15-May	6	29-May	6	12-Jun	6
MU1-OZ18	23-Apr	6	14-May	6	28-May	6	11-Jun	6
MU1-OZ19	22-Apr	6	15-May	6	29-May	5	12-Jun	6
MU1-OZ20	29-Apr	7	13-May	6	27-May	7	10-Jun	7
MU1-OZ21	29-Apr	8	14-May	6	28-May	8	11-Jun	8
MU1-OZ22	23-Apr	5	18-May	5	1-Jun	5	15-Jun	5
MU1-OZ23	29-Apr	9	14-May	8	28-May	8	11-Jun	8
MU1-OZ24	23-Apr	7	14-May	8	28-May	8	11-Jun	8
MU1-OZ25	23-Apr	8	14-May	8	28-May	8	11-Jun	8
MU1-OZ26	20-Apr	6	13-May	6	27-May	7	10-Jun	7

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Normality assumption is reasonable with no suspected outliers; no need for formal testing.

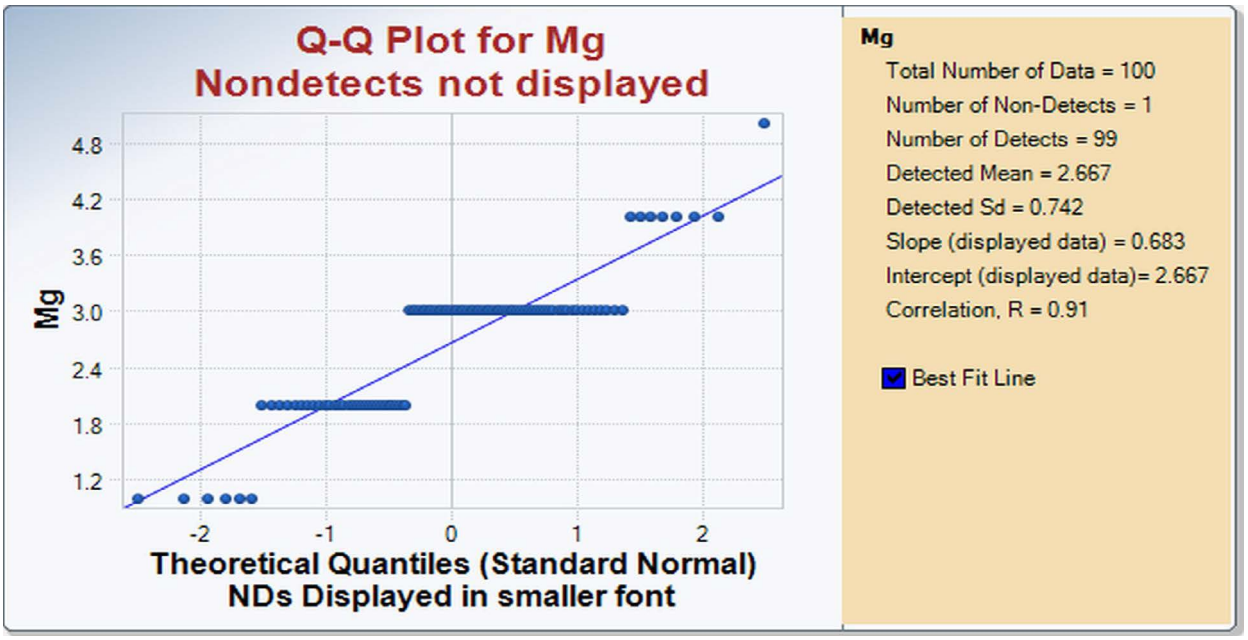
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Magnesium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ2	29-Apr	2	13-May	2	27-May	2	10-Jun	3
MU1-OZ3	21-Apr	3	14-May	5	28-May	4	11-Jun	4
MU1-OZ4	22-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-OZ6	20-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ7	28-Apr	4	15-May	4	29-May	4	12-Jun	4
MU1-OZ8	22-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-OZ9	24-Apr	1	13-May	1	27-May	2	10-Jun	2
MU1-OZ10	23-Apr	2	14-May	2	28-May	2	15-Jun	3
MU1-OZ11	29-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-OZ12	29-Apr	3	14-May	3	29-May	3	11-Jun	3
MU1-OZ13	29-Apr	1	14-May	2	1-Jun	3	15-Jun	4
MU1-OZ14	20-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-OZ15	21-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ16	21-Apr	1	13-May	1	27-May	2	10-Jun	2
MU1-OZ17	24-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-OZ18	23-Apr	2	14-May	3	28-May	3	11-Jun	3
MU1-OZ19	22-Apr	<1	15-May	1	29-May	2	12-Jun	2
MU1-OZ20	29-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-OZ21	29-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ22	23-Apr	2	18-May	2	1-Jun	2	15-Jun	2
MU1-OZ23	29-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ24	23-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ25	23-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ26	20-Apr	3	13-May	3	27-May	3	10-Jun	3

Suspected outlier based on visual screening

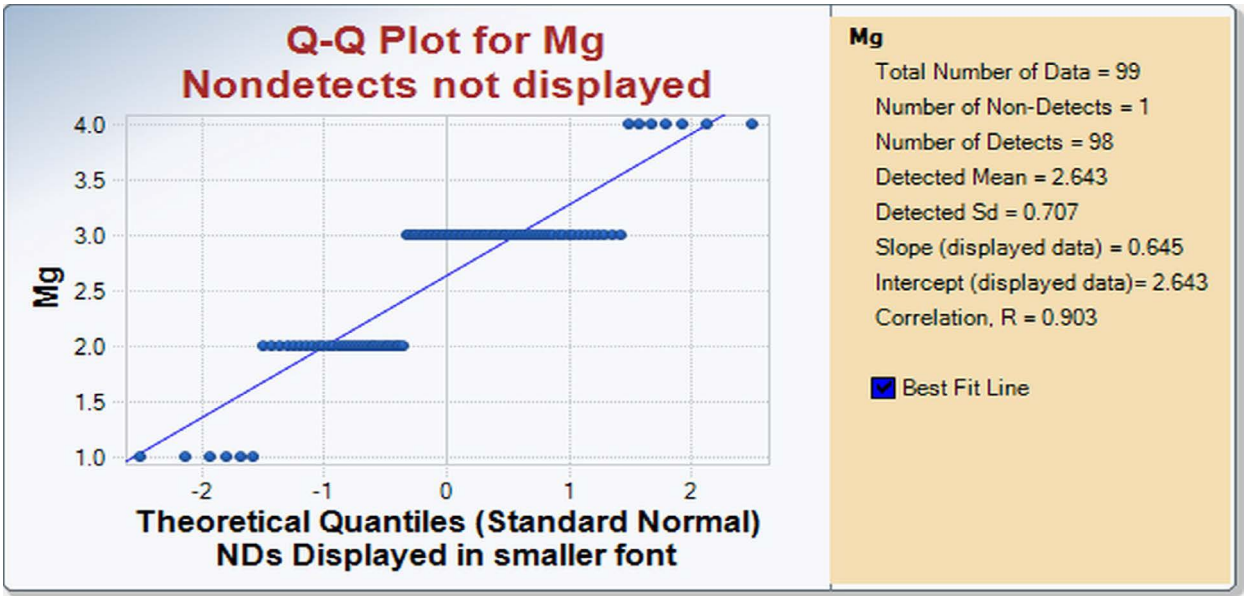
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Normality assumption is reasonable.
(Relatively low linear correlation is attributed to data precision)

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean of detects	2.667
Standard deviation of detects	0.74
Number of data	99
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ3	14-May	5	3.159	3.377	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	2.63	*Calculated without suspected outliers
Standard deviation*:	0.72	
n*	99	
k	2.9362	
Lower tolerance limit	0.5	
Upper tolerance limit	4.7	

For 5% significance level, there is **one Statistical Outlier: 5**

Step 3: Rationale for Removing or Keeping Statistical Outliers

Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
5	MU1-OZ3	**Keep**	Consistent with other results from this well; inconclusive statistical test results.

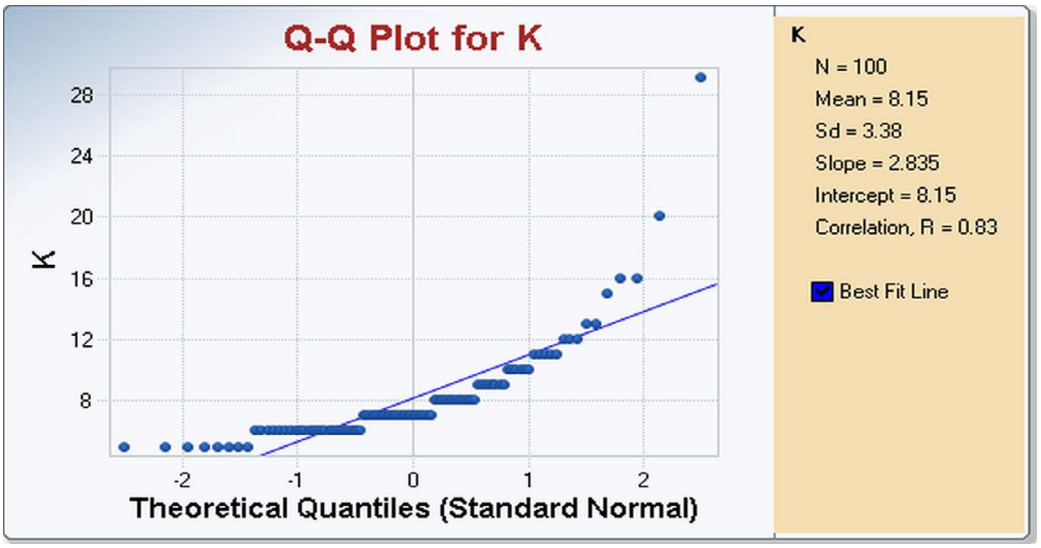
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Potassium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	8	14-May	7	28-May	6	11-Jun	5
MU1-OZ2	29-Apr	6	13-May	5	27-May	5	10-Jun	6
MU1-OZ3	21-Apr	9	14-May	8	28-May	9	11-Jun	8
MU1-OZ4	22-Apr	6	13-May	6	27-May	6	10-Jun	6
MU1-OZ6	20-Apr	13	14-May	12	28-May	12	11-Jun	11
MU1-OZ7	28-Apr	8	15-May	7	29-May	7	12-Jun	7
MU1-OZ8	22-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ9	24-Apr	11	13-May	11	27-May	11	10-Jun	10
MU1-OZ10	23-Apr	9	14-May	9	28-May	8	15-Jun	7
MU1-OZ11	29-Apr	6	13-May	6	27-May	6	10-Jun	6
MU1-OZ12	29-Apr	8	14-May	7	29-May	6	11-Jun	6
MU1-OZ13	29-Apr	16	14-May	16	1-Jun	12	15-Jun	10
MU1-OZ14	20-Apr	8	15-May	6	29-May	6	12-Jun	6
MU1-OZ15	21-Apr	7	14-May	7	28-May	7	11-Jun	7
MU1-OZ16	21-Apr	9	13-May	7	27-May	7	10-Jun	6
MU1-OZ17	24-Apr	6	15-May	6	29-May	6	12-Jun	6
MU1-OZ18	23-Apr	9	14-May	10	28-May	9	11-Jun	8
MU1-OZ19	22-Apr	29	15-May	20	29-May	15	12-Jun	13
MU1-OZ20	29-Apr	8	13-May	7	27-May	7	10-Jun	7
MU1-OZ21	29-Apr	10	14-May	11	28-May	8	11-Jun	7
MU1-OZ22	23-Apr	7	18-May	7	1-Jun	7	15-Jun	7
MU1-OZ23	29-Apr	10	14-May	8	28-May	6	11-Jun	5
MU1-OZ24	23-Apr	7	14-May	7	28-May	7	11-Jun	6
MU1-OZ25	23-Apr	10	14-May	9	28-May	8	11-Jun	8
MU1-OZ26	20-Apr	8	13-May	7	27-May	6	10-Jun	6

Suspected outlier based on visual screening

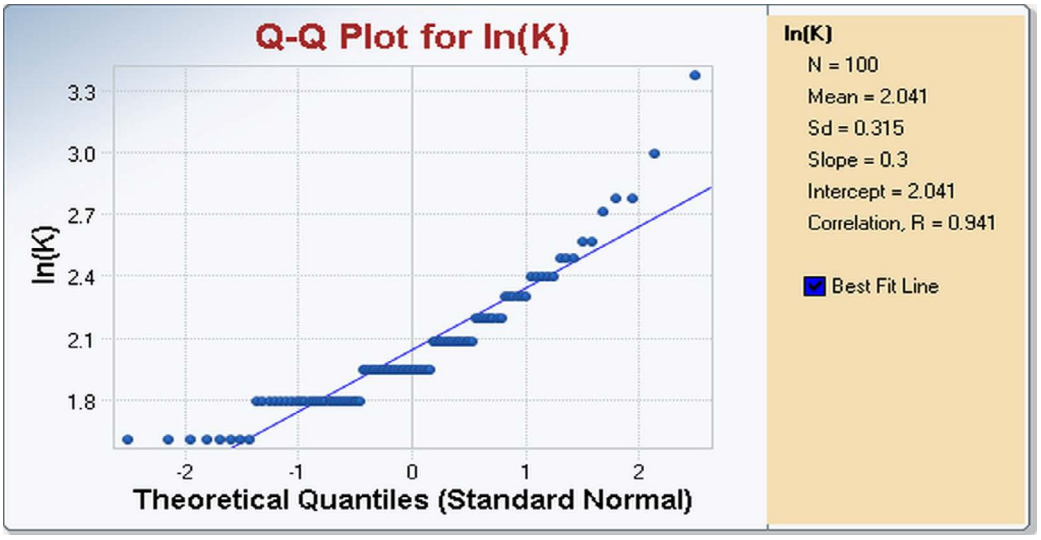
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



Improved linear fit; lognormal distribution assumption is reasonable with two suspected high outliers.

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	3.62
Standard deviation	0.31
Number of data	100
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ19	22-Apr	3.367	4.227	3.380	**Yes**
2	MU1-OZ19	15-May	2.996	3.374	3.380	**No**

* Calculated using natural logarithms of concentration values; 3.367 and 2.996 correspond to 29 and 20 mg/L, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	2.02	**Calculated without suspected outliers
Standard deviation**:	0.27	
n**	98	
k	2.9384	
Lower tolerance limit	1.22	
Upper tolerance limit	2.81	

For 5% significance level, there are two **Statistical Outliers: 3.367 (29 mg/L) and 2.996 (20 mg/L).**

* Calculated using natural logarithms of concentration values.

Step 3: Rationale for Removing or Keeping Statistical Outliers

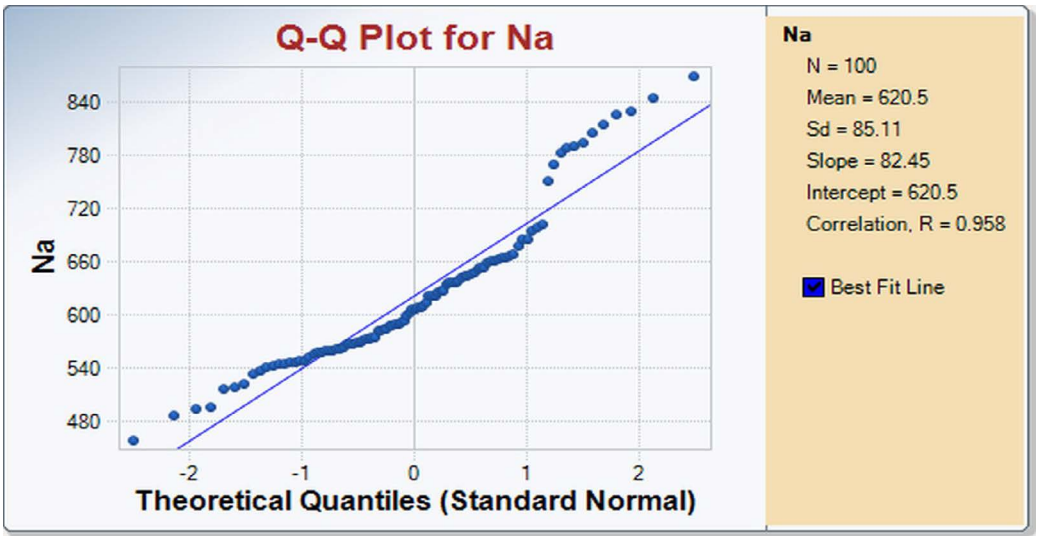
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
29	MU1-OZ19	**Remove**	Anomalously high value for this well.
20	MU1-OZ19	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Sodium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	607	14-May	621	28-May	620	11-Jun	624
MU1-OZ2	29-Apr	540	13-May	548	27-May	560	10-Jun	565
MU1-OZ3	21-Apr	805	14-May	768	28-May	750	11-Jun	788
MU1-OZ4	22-Apr	544	13-May	567	27-May	545	10-Jun	566
MU1-OZ6	20-Apr	844	14-May	824	28-May	829	11-Jun	867
MU1-OZ7	28-Apr	694	15-May	697	29-May	676	12-Jun	701
MU1-OZ8	22-Apr	517	15-May	535	29-May	520	12-Jun	557
MU1-OZ9	24-Apr	515	13-May	556	27-May	567	10-Jun	565
MU1-OZ10	23-Apr	598	14-May	634	28-May	652	15-Jun	636
MU1-OZ11	29-Apr	645	13-May	659	27-May	667	10-Jun	664
MU1-OZ12	29-Apr	652	14-May	665	29-May	663	11-Jun	685
MU1-OZ13	29-Apr	813	14-May	781	1-Jun	789	15-Jun	793
MU1-OZ14	20-Apr	571	15-May	550	29-May	533	12-Jun	544
MU1-OZ15	21-Apr	625	14-May	635	28-May	643	11-Jun	640
MU1-OZ16	21-Apr	559	13-May	545	27-May	590	10-Jun	609
MU1-OZ17	24-Apr	541	15-May	583	29-May	548	12-Jun	574
MU1-OZ18	23-Apr	555	14-May	592	28-May	571	11-Jun	606
MU1-OZ19	22-Apr	626	15-May	685	29-May	605	12-Jun	646
MU1-OZ20	29-Apr	562	13-May	587	27-May	560	10-Jun	587
MU1-OZ21	29-Apr	607	14-May	613	28-May	621	11-Jun	642
MU1-OZ22	23-Apr	458	18-May	495	1-Jun	486	15-Jun	493
MU1-OZ23	29-Apr	569	14-May	580	28-May	559	11-Jun	559
MU1-OZ24	23-Apr	573	14-May	635	28-May	638	11-Jun	650
MU1-OZ25	23-Apr	602	14-May	660	28-May	657	11-Jun	661
MU1-OZ26	20-Apr	583	13-May	580	27-May	588	10-Jun	588

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Normality assumption is reasonable with no suspected outliers; no need for formal testing.

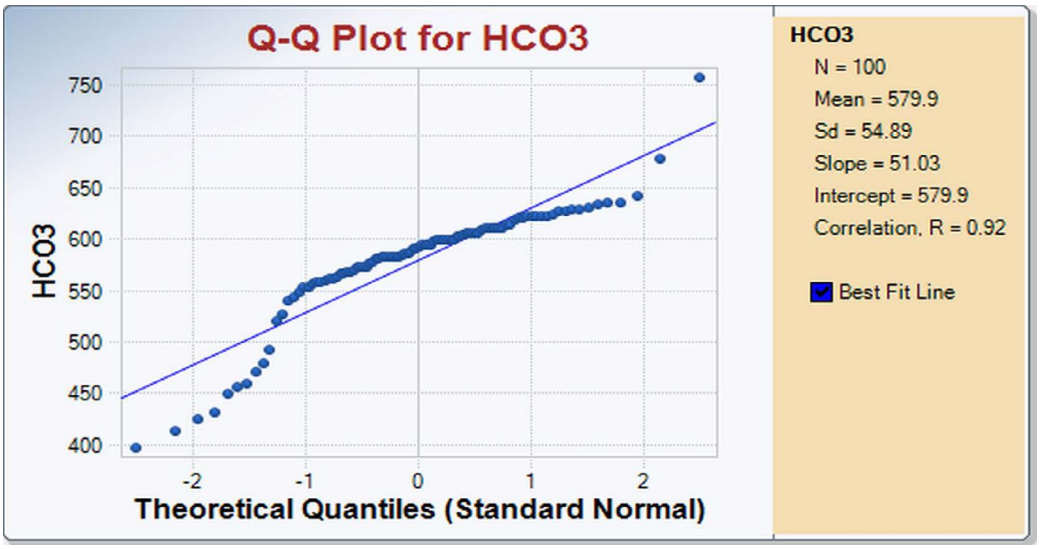
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Bicarbonate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	586	14-May	583	28-May	622	11-Jun	606
MU1-OZ2	29-Apr	594	13-May	599	27-May	606	10-Jun	621
MU1-OZ3	21-Apr	492	14-May	526	28-May	561	11-Jun	558
MU1-OZ4	22-Apr	572	13-May	582	27-May	592	10-Jun	586
MU1-OZ6	20-Apr	397	14-May	412	28-May	449	11-Jun	459
MU1-OZ7	28-Apr	573	15-May	677	29-May	580	12-Jun	590
MU1-OZ8	22-Apr	598	15-May	603	29-May	614	12-Jun	610
MU1-OZ9	24-Apr	539	13-May	547	27-May	597	10-Jun	569
MU1-OZ10	23-Apr	573	14-May	568	28-May	581	15-Jun	593
MU1-OZ11	29-Apr	558	13-May	626	27-May	583	10-Jun	598
MU1-OZ12	29-Apr	572	14-May	563	29-May	584	11-Jun	578
MU1-OZ13	29-Apr	471	14-May	479	1-Jun	561	15-Jun	556
MU1-OZ14	20-Apr	629	15-May	430	29-May	583	12-Jun	602
MU1-OZ15	21-Apr	553	14-May	543	28-May	620	11-Jun	565
MU1-OZ16	21-Apr	455	13-May	425	27-May	565	10-Jun	583
MU1-OZ17	24-Apr	621	15-May	610	29-May	641	12-Jun	626
MU1-OZ18	23-Apr	613	14-May	621	28-May	635	11-Jun	618
MU1-OZ19	22-Apr	520	15-May	610	29-May	560	12-Jun	552
MU1-OZ20	29-Apr	576	13-May	598	27-May	599	10-Jun	605
MU1-OZ21	29-Apr	568	14-May	590	28-May	630	11-Jun	594
MU1-OZ22	23-Apr	602	18-May	605	1-Jun	633	15-Jun	635
MU1-OZ23	29-Apr	587	14-May	610	28-May	610	11-Jun	620
MU1-OZ24	23-Apr	622	14-May	598	28-May	756	11-Jun	608
MU1-OZ25	23-Apr	582	14-May	582	28-May	623	11-Jun	593
MU1-OZ26	20-Apr	610	13-May	598	27-May	605	10-Jun	628

Suspected outlier based on visual screening

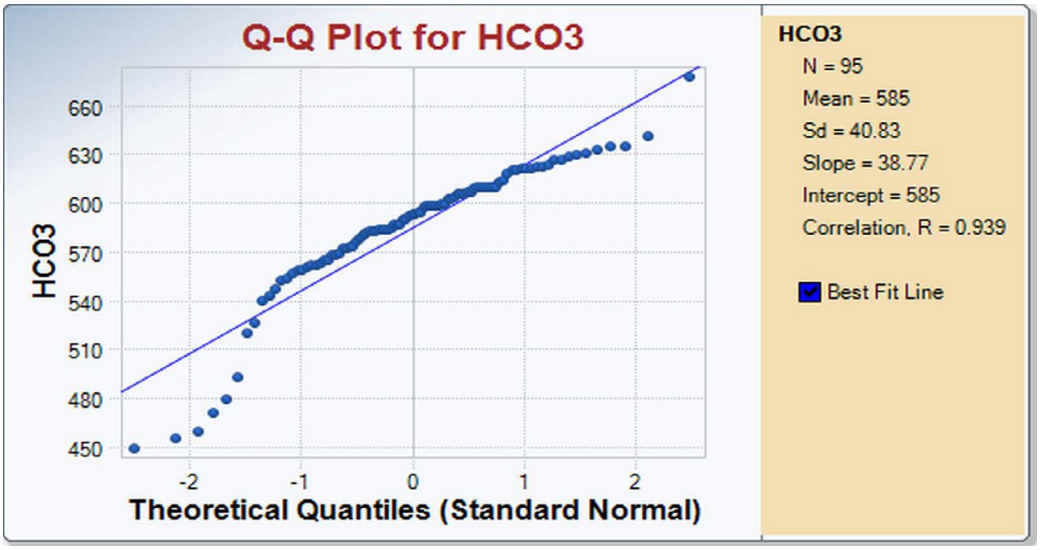
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high and four suspected low outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.
(Bicarbonate is pH-dependent, and low values all correspond to relatively high pH values.)

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	579.9
Standard deviation	54.9
Number of data	100
Number of suspected outliers	5

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ6	20-Apr	397	3.349	3.380	**Yes**
2	MU1-OZ24	28-May	756	3.354	3.380	**Yes**
3	MU1-OZ6	14-May	412	3.422	3.380	**Yes**
4	MU1-OZ16	13-May	425	3.389	3.370	**Yes**
5	MU1-OZ14	15-May	430	3.519	3.370	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	585.0	*Calculated without suspected outliers
Standard deviation*:	40.8	
n*	95	
k	2.945	
Lower tolerance limit	465	
Upper tolerance limit	705	

For 5% significance level, there are **8 Statistical Outliers: 397, 412, 425, 430, 449*, 455*, 459*, 756**

*Note that 449, 455 and 459 values were not identified from visual screening but are statistical outliers according to WDEQ/LQD Guideline 4 outlier test.

Step 3: Rationale for Removing or Keeping Statistical Outliers

Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
397	MU1-OZ6	**Keep**	Consistent with other results from this well.
412	MU1-OZ6	**Keep**	Consistent with other results from this well.
425	MU1-OZ16	**Keep**	Consistent with other results from this well.
430	MU1-OZ14	**Remove**	Anomalously low value for this well.
449	MU1-OZ6	**Keep**	Consistent with other results from this well.
455	MU1-OZ16	**Keep**	Consistent with other results from this well.
459	MU1-OZ6	**Keep**	Consistent with other results from this well.
756	MU1-OZ24	**Remove**	Anomalously high value for this well.

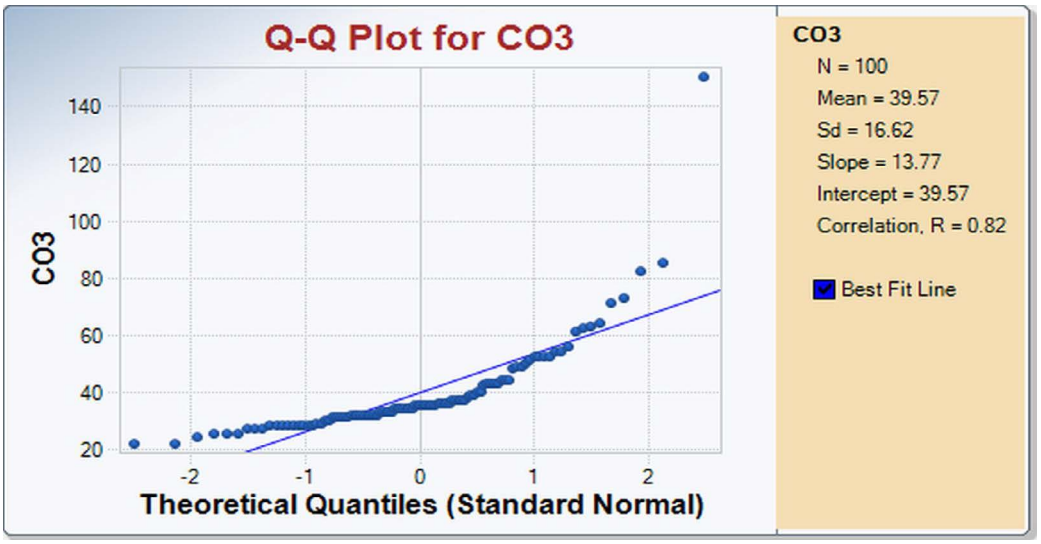
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Carbonate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	32	14-May	34	28-May	32	11-Jun	33
MU1-OZ2	29-Apr	36	13-May	27	27-May	28	10-Jun	25
MU1-OZ3	21-Apr	34	14-May	28	28-May	25	11-Jun	24
MU1-OZ4	22-Apr	35	13-May	38	27-May	33	10-Jun	48
MU1-OZ6	20-Apr	52	14-May	50	28-May	40	11-Jun	42
MU1-OZ7	28-Apr	28	15-May	52	29-May	22	12-Jun	27
MU1-OZ8	22-Apr	35	15-May	35	29-May	33	12-Jun	37
MU1-OZ9	24-Apr	62	13-May	63	27-May	52	10-Jun	56
MU1-OZ10	23-Apr	35	14-May	37	28-May	36	15-Jun	29
MU1-OZ11	29-Apr	51	13-May	32	27-May	35	10-Jun	28
MU1-OZ12	29-Apr	43	14-May	31	29-May	22	11-Jun	28
MU1-OZ13	29-Apr	71	14-May	61	1-Jun	36	15-Jun	29
MU1-OZ14	20-Apr	40	15-May	150	29-May	36	12-Jun	43
MU1-OZ15	21-Apr	37	14-May	44	28-May	32	11-Jun	39
MU1-OZ16	21-Apr	73	13-May	82	27-May	36	10-Jun	34
MU1-OZ17	24-Apr	34	15-May	43	29-May	32	12-Jun	37
MU1-OZ18	23-Apr	35	14-May	35	28-May	34	11-Jun	43
MU1-OZ19	22-Apr	85	15-May	64	29-May	49	12-Jun	52
MU1-OZ20	29-Apr	54	13-May	32	27-May	30	10-Jun	31
MU1-OZ21	29-Apr	44	14-May	54	28-May	31	11-Jun	34
MU1-OZ22	23-Apr	35	18-May	32	1-Jun	28	15-Jun	32
MU1-OZ23	29-Apr	49	14-May	37	28-May	33	11-Jun	31
MU1-OZ24	23-Apr	30	14-May	28	28-May	44	11-Jun	31
MU1-OZ25	23-Apr	32	14-May	39	28-May	28	11-Jun	33
MU1-OZ26	20-Apr	27	13-May	34	27-May	25	10-Jun	28

Suspected outlier based on visual screening

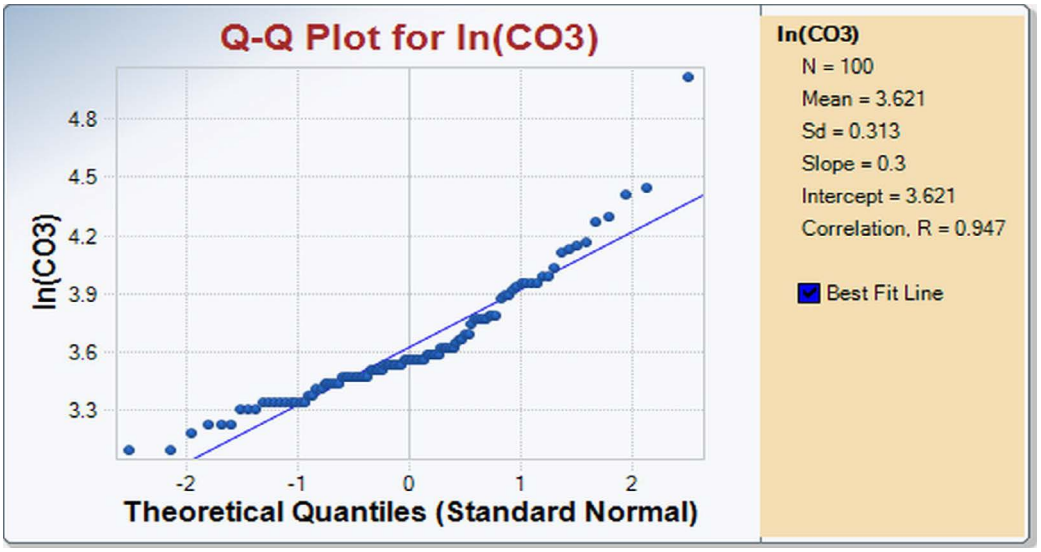
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



Improved linear fit; lognormal distribution assumption is reasonable with one suspected high outlier.

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	3.62
Standard deviation	0.31
Number of data	100
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ14	15-May	5.011	4.462	3.380	**Yes**

* Calculated using natural logarithms of concentration values; 5.011 corresponds to 150 mg/L.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	3.61	**Calculated without
Standard deviation**:	0.28	suspected outliers
n**	99	
k	2.9362	
Lower tolerance limit	2.8	
Upper tolerance limit	4.4	

For 5% significance level, there is one **Statistical Outlier: 5.011 (150 mg/L)**

* Calculated using natural logarithms of concentration values.

Step 3: Rationale for Removing or Keeping Statistical Outliers

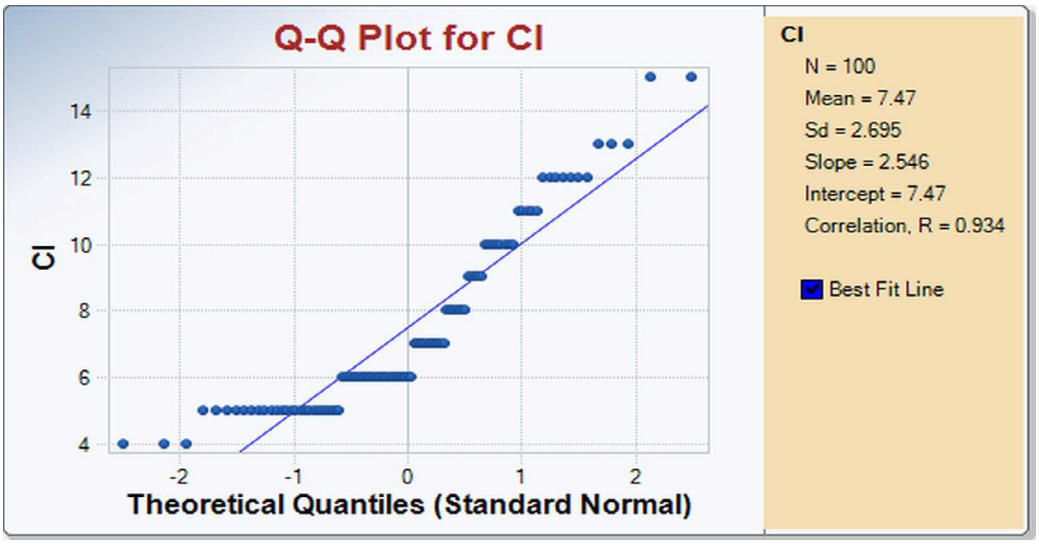
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
150	MU1-OZ14	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Chloride (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	7	14-May	7	28-May	6	11-Jun	6
MU1-OZ2	29-Apr	5	13-May	6	27-May	6	10-Jun	5
MU1-OZ3	21-Apr	13	14-May	12	28-May	11	11-Jun	12
MU1-OZ4	22-Apr	5	13-May	5	27-May	6	10-Jun	5
MU1-OZ6	20-Apr	15	14-May	15	28-May	13	11-Jun	13
MU1-OZ7	28-Apr	12	15-May	12	29-May	10	12-Jun	10
MU1-OZ8	22-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ9	24-Apr	5	13-May	5	27-May	5	10-Jun	5
MU1-OZ10	23-Apr	8	14-May	8	28-May	9	15-Jun	8
MU1-OZ11	29-Apr	9	13-May	10	27-May	9	10-Jun	9
MU1-OZ12	29-Apr	11	14-May	10	29-May	10	11-Jun	10
MU1-OZ13	29-Apr	12	14-May	12	1-Jun	12	15-Jun	11
MU1-OZ14	20-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ15	21-Apr	7	14-May	7	28-May	6	11-Jun	8
MU1-OZ16	21-Apr	7	13-May	6	27-May	6	10-Jun	6
MU1-OZ17	24-Apr	5	15-May	6	29-May	6	12-Jun	5
MU1-OZ18	23-Apr	6	14-May	6	28-May	5	11-Jun	5
MU1-OZ19	22-Apr	10	15-May	10	29-May	11	12-Jun	11
MU1-OZ20	29-Apr	5	13-May	6	27-May	7	10-Jun	5
MU1-OZ21	29-Apr	6	14-May	7	28-May	6	11-Jun	6
MU1-OZ22	23-Apr	4	18-May	5	1-Jun	4	15-Jun	4
MU1-OZ23	29-Apr	6	14-May	6	28-May	6	11-Jun	6
MU1-OZ24	23-Apr	7	14-May	7	28-May	6	11-Jun	7
MU1-OZ25	23-Apr	8	14-May	8	28-May	9	11-Jun	8
MU1-OZ26	20-Apr	6	13-May	7	27-May	6	10-Jun	5

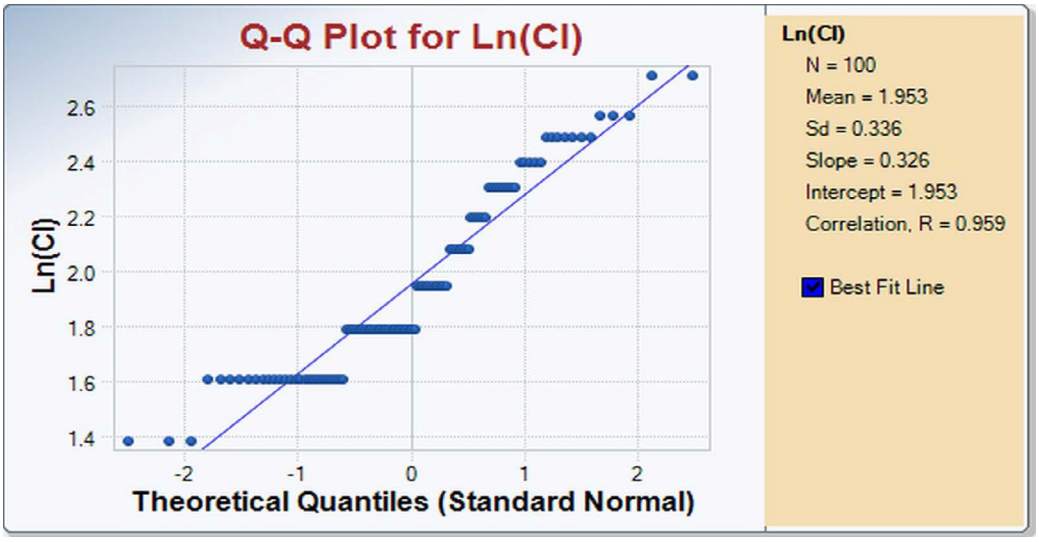
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with no suspected outliers.

Lognormal Probability Plot for All Data



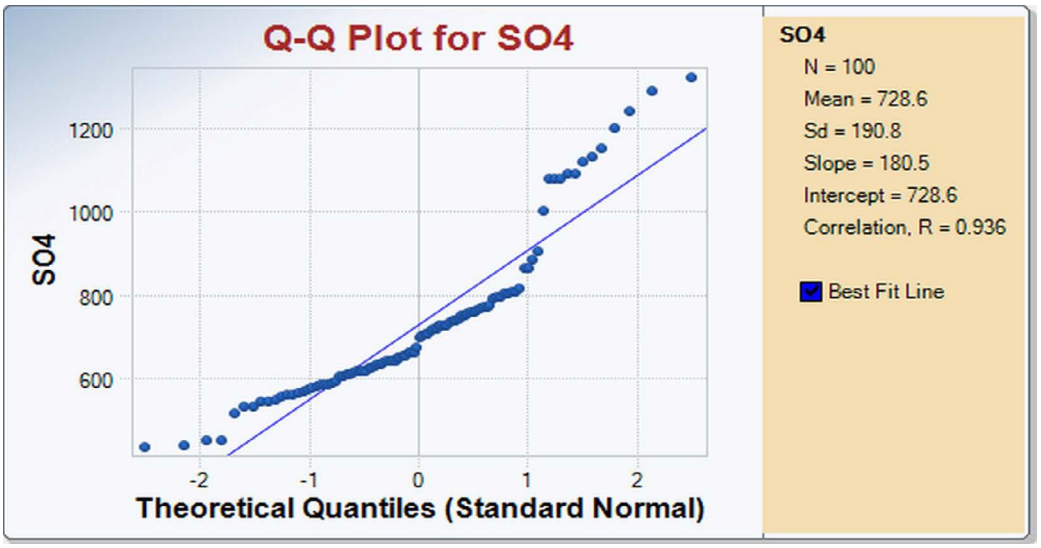
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Sulfate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	675	14-May	704	28-May	654	11-Jun	705
MU1-OZ2	29-Apr	573	13-May	560	27-May	583	10-Jun	583
MU1-OZ3	21-Apr	1,120	14-May	1,090	28-May	1,080	11-Jun	1,130
MU1-OZ4	22-Apr	592	13-May	607	27-May	610	10-Jun	619
MU1-OZ6	20-Apr	1,290	14-May	1,240	28-May	1,200	11-Jun	1,320
MU1-OZ7	28-Apr	1,000	15-May	883	29-May	864	12-Jun	906
MU1-OZ8	22-Apr	517	15-May	531	29-May	531	12-Jun	543
MU1-OZ9	24-Apr	564	13-May	575	27-May	550	10-Jun	587
MU1-OZ10	23-Apr	725	14-May	740	28-May	759	15-Jun	734
MU1-OZ11	29-Apr	795	13-May	773	27-May	793	10-Jun	803
MU1-OZ12	29-Apr	817	14-May	808	29-May	805	11-Jun	864
MU1-OZ13	29-Apr	1,090	14-May	1,080	1-Jun	1,150	15-Jun	1,080
MU1-OZ14	20-Apr	562	15-May	544	29-May	558	12-Jun	581
MU1-OZ15	21-Apr	742	14-May	750	28-May	716	11-Jun	755
MU1-OZ16	21-Apr	648	13-May	661	27-May	633	10-Jun	661
MU1-OZ17	24-Apr	607	15-May	626	29-May	625	12-Jun	638
MU1-OZ18	23-Apr	650	14-May	640	28-May	643	11-Jun	654
MU1-OZ19	22-Apr	728	15-May	769	29-May	739	12-Jun	795
MU1-OZ20	29-Apr	615	13-May	619	27-May	643	10-Jun	642
MU1-OZ21	29-Apr	717	14-May	773	28-May	661	11-Jun	726
MU1-OZ22	23-Apr	439	18-May	437	1-Jun	450	15-Jun	450
MU1-OZ23	29-Apr	617	14-May	619	28-May	568	11-Jun	584
MU1-OZ24	23-Apr	706	14-May	726	28-May	717	11-Jun	758
MU1-OZ25	23-Apr	750	14-May	774	28-May	765	11-Jun	807
MU1-OZ26	20-Apr	697	13-May	610	27-May	629	10-Jun	633

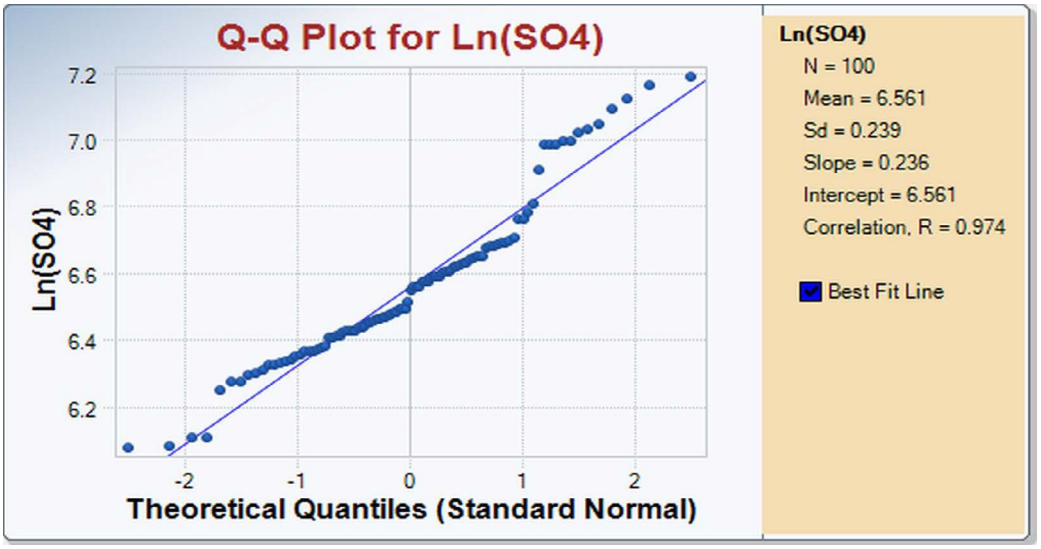
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with no suspected outliers.

Lognormal Probability Plot for All Data



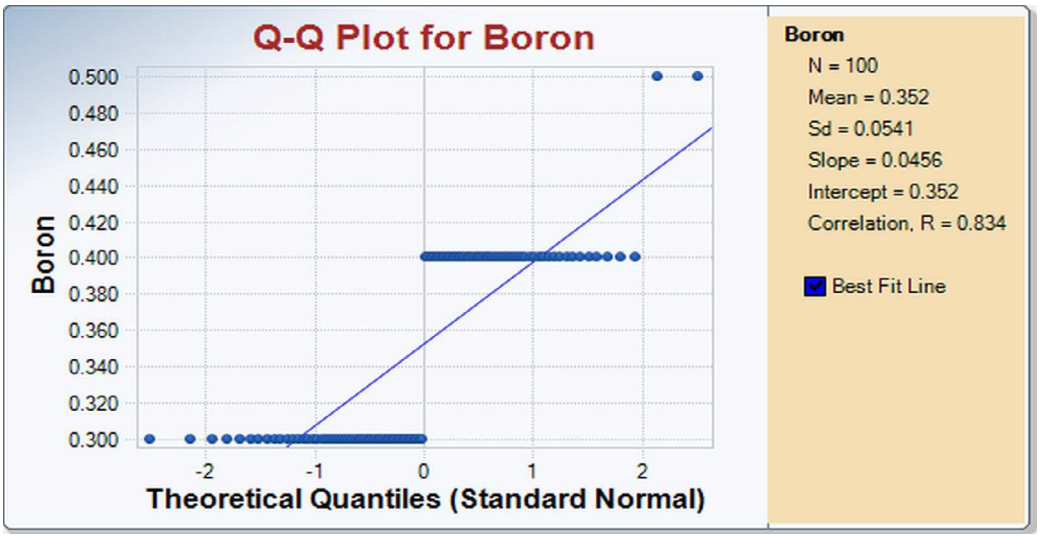
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Boron, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.5	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ2	29-Apr	0.4	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ3	21-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ4	22-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ6	20-Apr	0.3	14-May	0.4	28-May	0.3	11-Jun	0.4
MU1-OZ7	28-Apr	0.4	15-May	0.4	29-May	0.3	12-Jun	0.3
MU1-OZ8	22-Apr	0.3	15-May	0.3	29-May	0.3	12-Jun	0.3
MU1-OZ9	24-Apr	0.3	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-OZ10	23-Apr	0.4	14-May	0.4	28-May	0.4	15-Jun	0.4
MU1-OZ11	29-Apr	0.4	13-May	0.4	27-May	0.4	10-Jun	0.4
MU1-OZ12	29-Apr	0.4	14-May	0.4	29-May	0.4	11-Jun	0.4
MU1-OZ13	29-Apr	0.4	14-May	0.3	1-Jun	0.3	15-Jun	0.3
MU1-OZ14	20-Apr	0.4	15-May	0.4	29-May	0.3	12-Jun	0.3
MU1-OZ15	21-Apr	0.3	14-May	0.4	28-May	0.3	11-Jun	0.3
MU1-OZ16	21-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.4
MU1-OZ17	24-Apr	0.3	15-May	0.3	29-May	0.3	12-Jun	0.3
MU1-OZ18	23-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ19	22-Apr	0.4	15-May	0.4	29-May	0.4	12-Jun	0.4
MU1-OZ20	29-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-OZ21	29-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ22	23-Apr	0.4	18-May	0.4	1-Jun	0.4	15-Jun	0.4
MU1-OZ23	29-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ24	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.5
MU1-OZ25	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ26	20-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.4

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



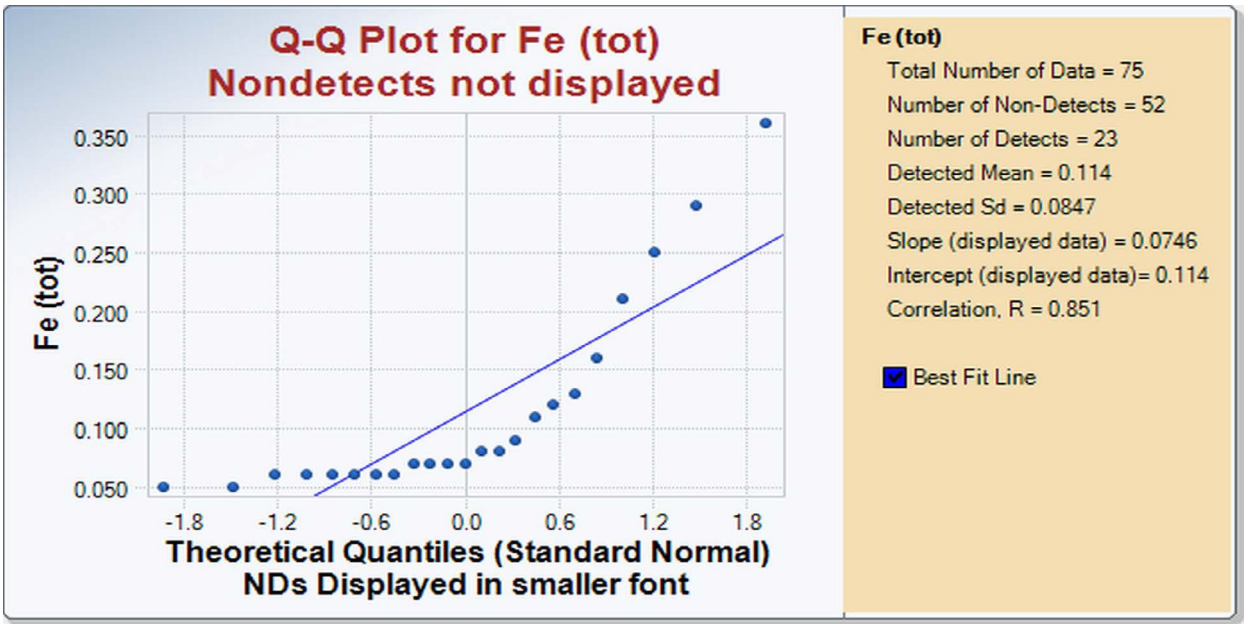
Normality assumption is reasonable with no suspected outliers; no need for formal testing. (Relatively low linear correlation is attributed to data precision - data points are grouped in 0.1 mg/L increments.)

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Iron, Total (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.06	14-May	0.06	28-May	<0.05	11-Jun	
MU1-OZ2	29-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	
MU1-OZ3	21-Apr	0.13	14-May	0.07	28-May	0.06	11-Jun	
MU1-OZ4	22-Apr	0.06	13-May	0.12	27-May	0.07	10-Jun	
MU1-OZ6	20-Apr	<0.05	14-May	<0.05	28-May	0.07	11-Jun	
MU1-OZ7	28-Apr	0.06	15-May	<0.05	29-May	<0.05	12-Jun	
MU1-OZ8	22-Apr	0.09	15-May	<0.05	29-May	0.06	12-Jun	
MU1-OZ9	24-Apr	<0.05	13-May	0.16	27-May	<0.05	10-Jun	
MU1-OZ10	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	15-Jun	
MU1-OZ11	29-Apr	0.08	13-May	<0.05	27-May	<0.05	10-Jun	
MU1-OZ12	29-Apr	<0.05	14-May	<0.05	29-May	0.07	11-Jun	
MU1-OZ13	29-Apr	<0.05	14-May	<0.05	1-Jun	0.29	15-Jun	
MU1-OZ14	20-Apr	0.21	15-May	0.36	29-May	0.25	12-Jun	
MU1-OZ15	21-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	
MU1-OZ16	21-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	
MU1-OZ17	24-Apr	<0.05	15-May	<0.05	29-May	0.05	12-Jun	
MU1-OZ18	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	
MU1-OZ19	22-Apr	<0.05	15-May	<0.05	29-May	<0.05	12-Jun	
MU1-OZ20	29-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	
MU1-OZ21	29-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	
MU1-OZ22	23-Apr	<0.05	18-May	0.08	1-Jun	0.05	15-Jun	
MU1-OZ23	29-Apr	<0.05	14-May	0.11	28-May	<0.05	11-Jun	
MU1-OZ24	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	
MU1-OZ25	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	
MU1-OZ26	20-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	

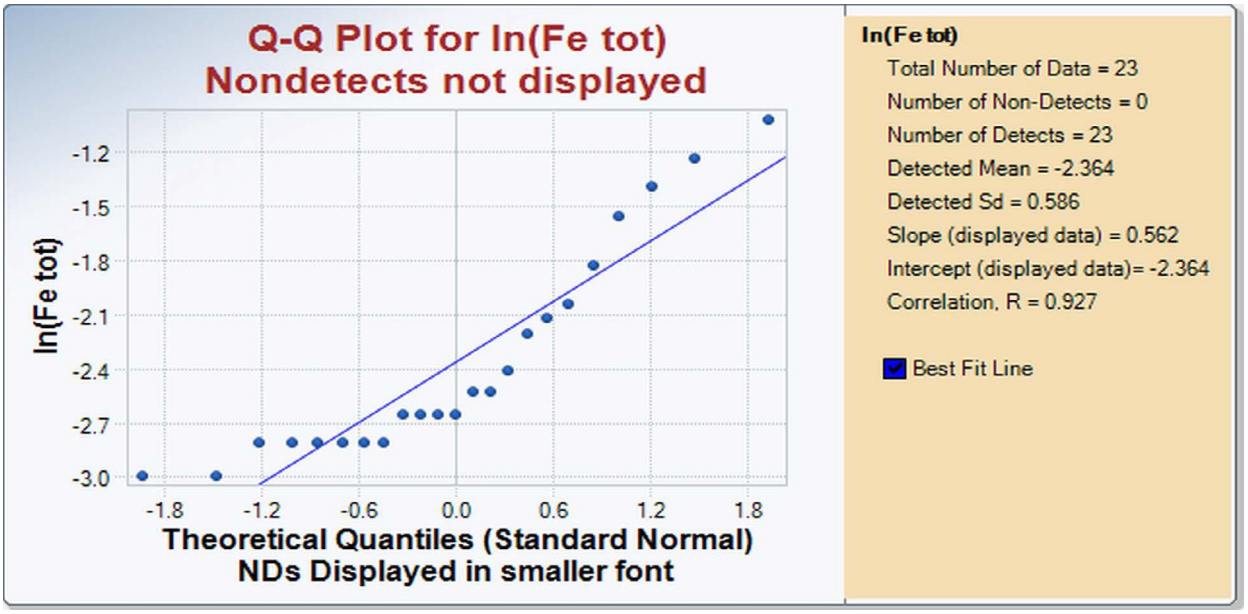
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



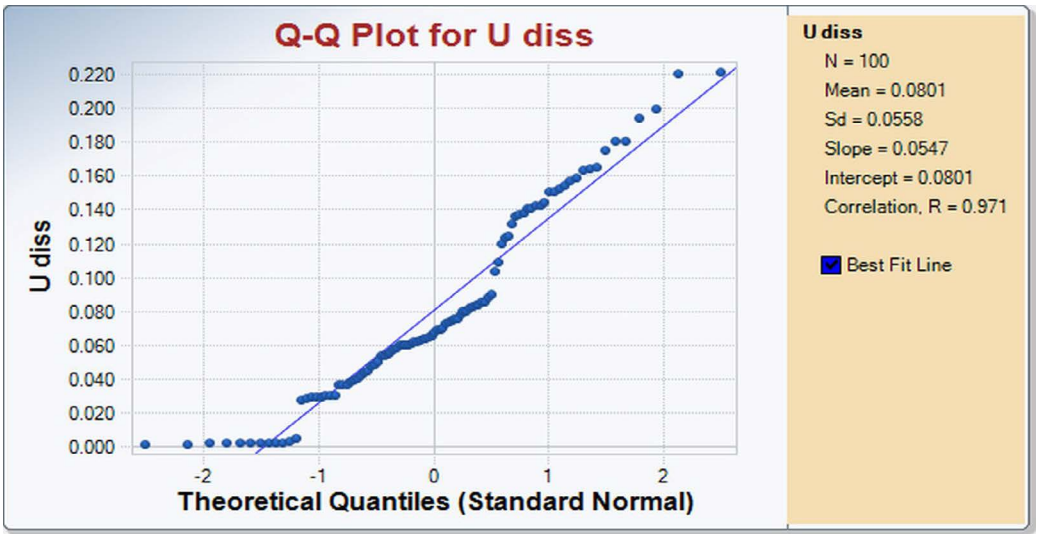
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Uranium, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.0849	14-May	0.0838	28-May	0.0539	11-Jun	0.0594
MU1-OZ2	29-Apr	0.0638	13-May	0.0613	27-May	0.0597	10-Jun	0.0620
MU1-OZ3	21-Apr	0.0573	14-May	0.0579	28-May	0.0545	11-Jun	0.0594
MU1-OZ4	22-Apr	0.0880	13-May	0.109	27-May	0.0897	10-Jun	0.103
MU1-OZ6	20-Apr	0.180	14-May	0.221	28-May	0.175	11-Jun	0.165
MU1-OZ7	28-Apr	0.150	15-May	0.159	29-May	0.131	12-Jun	0.123
MU1-OZ8	22-Apr	0.157	15-May	0.163	29-May	0.140	12-Jun	0.140
MU1-OZ9	24-Apr	0.0812	13-May	0.0797	27-May	0.0848	10-Jun	0.0780
MU1-OZ10	23-Apr	0.0301	14-May	0.0303	28-May	0.0296	15-Jun	0.0270
MU1-OZ11	29-Apr	0.0756	13-May	0.0753	27-May	0.0702	10-Jun	0.0674
MU1-OZ12	29-Apr	0.0012	14-May	0.0016	29-May	0.0017	11-Jun	0.0015
MU1-OZ13	29-Apr	0.0632	14-May	0.0747	1-Jun	0.0536	15-Jun	0.0472
MU1-OZ14	20-Apr	0.0832	15-May	0.0657	29-May	0.0646	12-Jun	0.0728
MU1-OZ15	21-Apr	0.154	14-May	0.164	28-May	0.144	11-Jun	0.138
MU1-OZ16	21-Apr	0.142	13-May	0.136	27-May	0.124	10-Jun	0.120
MU1-OZ17	24-Apr	0.199	15-May	0.220	29-May	0.194	12-Jun	0.180
MU1-OZ18	23-Apr	0.152	14-May	0.150	28-May	0.142	11-Jun	0.137
MU1-OZ19	22-Apr	0.0049	15-May	0.0026	29-May	0.0021	12-Jun	0.0020
MU1-OZ20	29-Apr	0.0291	13-May	0.0294	27-May	0.0291	10-Jun	0.0282
MU1-OZ21	29-Apr	0.0625	14-May	0.0692	28-May	0.0600	11-Jun	0.0609
MU1-OZ22	23-Apr	0.0794	18-May	0.0692	1-Jun	0.0821	15-Jun	0.0731
MU1-OZ23	29-Apr	0.0010	14-May	0.0017	28-May	0.0016	11-Jun	0.0015
MU1-OZ24	23-Apr	0.0384	14-May	0.0364	28-May	0.0363	11-Jun	0.0366
MU1-OZ25	23-Apr	0.0433	14-May	0.0389	28-May	0.0400	11-Jun	0.0413
MU1-OZ26	20-Apr	0.0553	13-May	0.0497	27-May	0.0480	10-Jun	0.0441

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



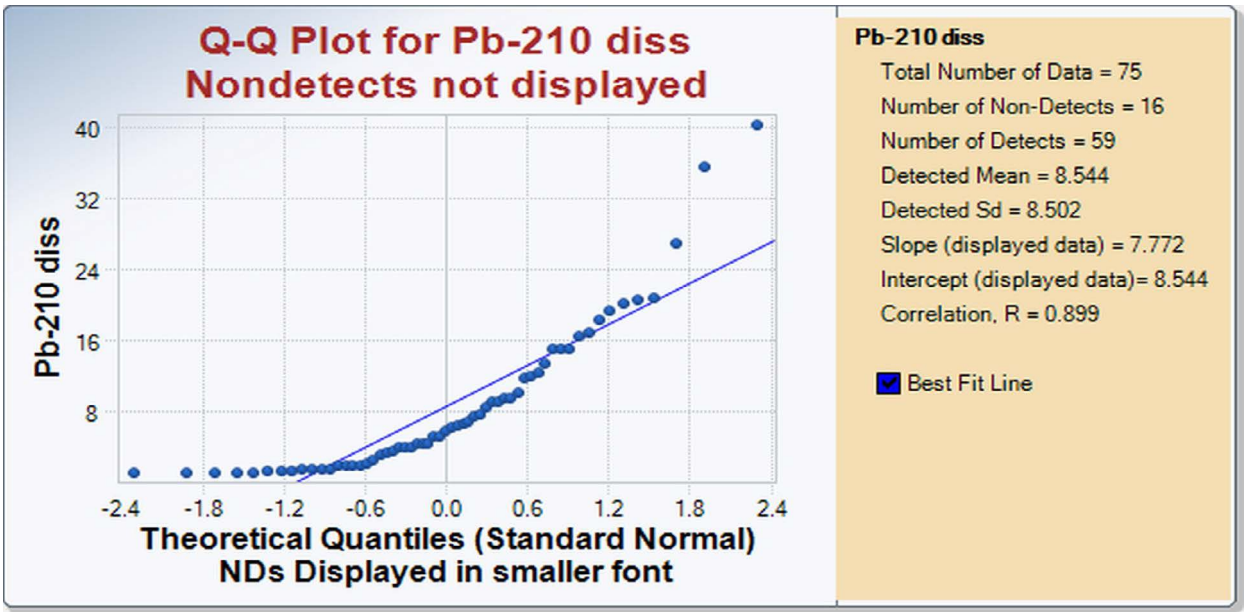
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Lead-210, Dissolved (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	13.4	14-May	20.2	28-May	12		
MU1-OZ2	29-Apr	1.4	13-May	2	27-May	4		
MU1-OZ3	21-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ4	22-Apr	5.7	13-May	1.3	27-May	4.4		
MU1-OZ6	20-Apr	1.8	14-May	9.5	28-May	9		
MU1-OZ7	28-Apr	15.1	15-May	8.5	29-May	<1		
MU1-OZ8	22-Apr	10.1	15-May	6.6	29-May	<1		
MU1-OZ9	24-Apr	12.3	13-May	9.4	27-May	11.8		
MU1-OZ10	23-Apr	<1	14-May	<1	28-May	1.5		
MU1-OZ11	29-Apr	1.1	13-May	3	27-May	1.8		
MU1-OZ12	29-Apr	<1	14-May	<1	29-May	<1		
MU1-OZ13	29-Apr	6.1	14-May	5.2	1-Jun	6.8	Not measured	
MU1-OZ14	20-Apr	1.4	15-May	1.9	29-May	<1		
MU1-OZ15	21-Apr	40.3	14-May	35.5	28-May	27		
MU1-OZ16	21-Apr	9	13-May	7.7	27-May	5.2		
MU1-OZ17	24-Apr	16.5	15-May	18.3	29-May	1.3		
MU1-OZ18	23-Apr	2.5	14-May	1.1	28-May	1.5		
MU1-OZ19	22-Apr	<1	15-May	1.1	29-May	<1		
MU1-OZ20	29-Apr	3.9	13-May	1.9	27-May	3.2		
MU1-OZ21	29-Apr	16.9	14-May	15	28-May	19.4		
MU1-OZ22	23-Apr	15	18-May	20.6	1-Jun	20.8		
MU1-OZ23	29-Apr	<1	14-May	<1	28-May	1		
MU1-OZ24	23-Apr	4.3	14-May	3.5	28-May	6.3		
MU1-OZ25	23-Apr	1.2	14-May	<1	28-May	1.1		
MU1-OZ26	20-Apr	4.4	13-May	7.4	27-May	3.9		

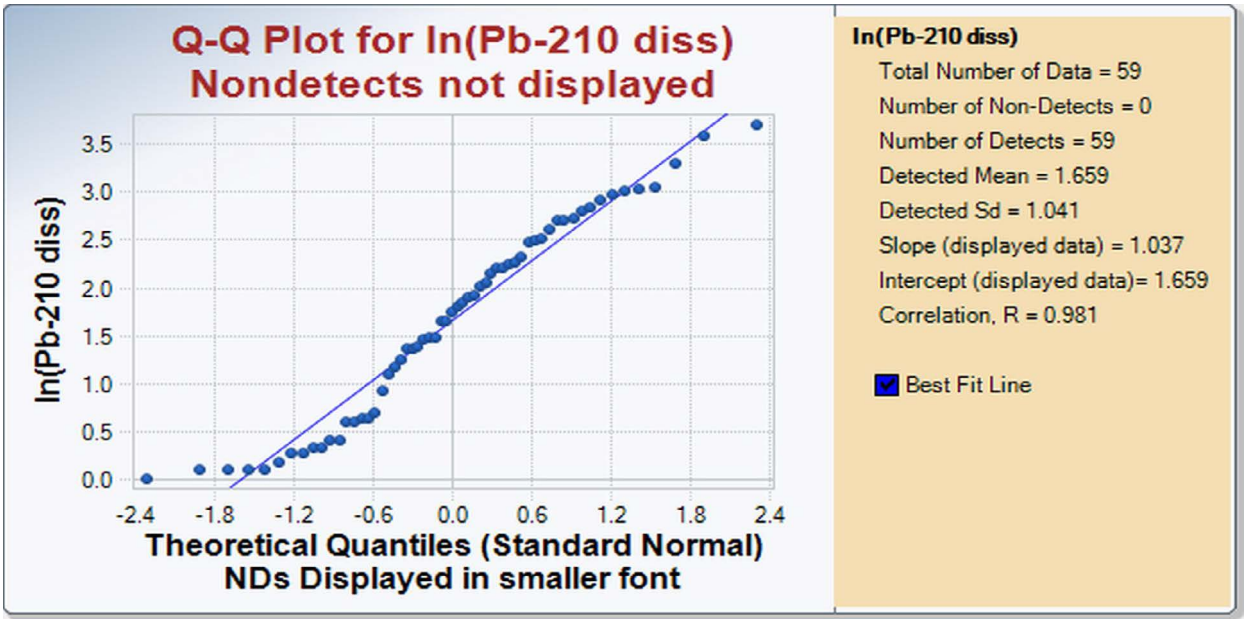
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



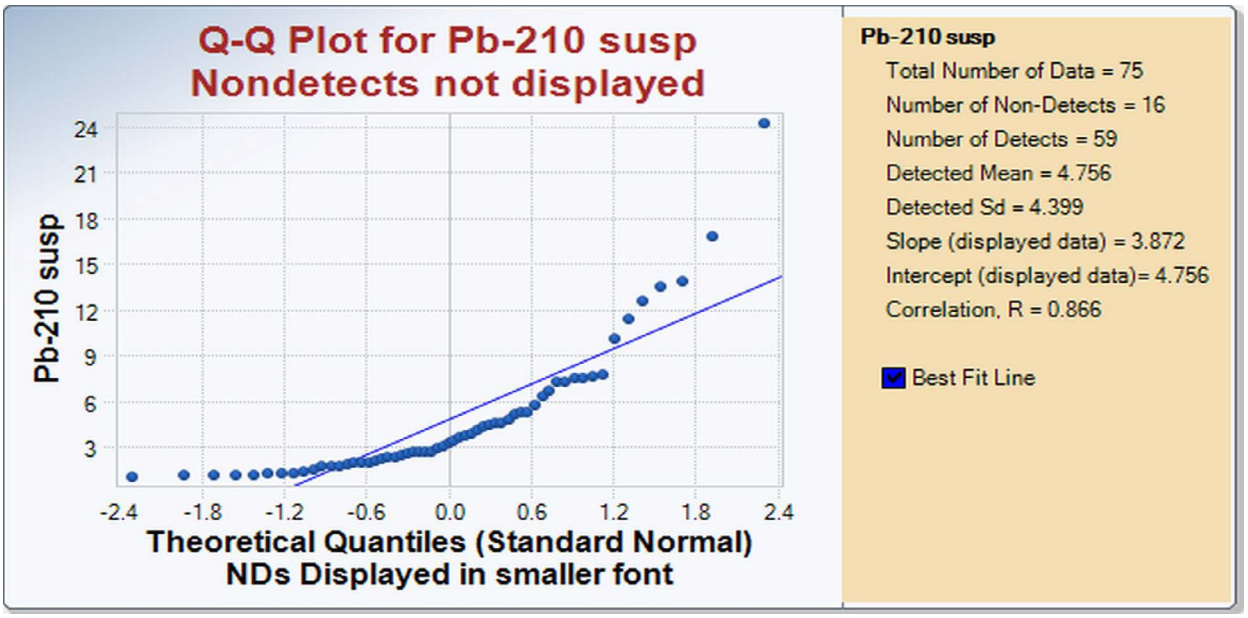
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Lead-210, Suspended (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	7.6	14-May	4.8	28-May	<1		
MU1-OZ2	29-Apr	<1	13-May	2	27-May	1		
MU1-OZ3	21-Apr	1.7	14-May	<1	28-May	1.5		
MU1-OZ4	22-Apr	2.3	13-May	3.4	27-May	1.7		
MU1-OZ6	20-Apr	5.7	14-May	5.2	28-May	4.1		
MU1-OZ7	28-Apr	7.5	15-May	12.5	29-May	16.8		
MU1-OZ8	22-Apr	2.7	15-May	6.3	29-May	7.3		
MU1-OZ9	24-Apr	<1	13-May	10.1	27-May	5.1		
MU1-OZ10	23-Apr	<1	14-May	1.7	28-May	<1		
MU1-OZ11	29-Apr	5.2	13-May	1.1	27-May	3.2		
MU1-OZ12	29-Apr	3.7	14-May	1.3	29-May	<1		
MU1-OZ13	29-Apr	6.6	14-May	7.5	1-Jun	2.9	Not measured	
MU1-OZ14	20-Apr	2.5	15-May	3.6	29-May	2.6		
MU1-OZ15	21-Apr	4.5	14-May	11.4	28-May	4.3		
MU1-OZ16	21-Apr	1.9	13-May	2.2	27-May	1.1		
MU1-OZ17	24-Apr	2.6	15-May	4.4	29-May	13.5		
MU1-OZ18	23-Apr	1.9	14-May	1.4	28-May	1.8		
MU1-OZ19	22-Apr	<1	15-May	<1	29-May	1.2		
MU1-OZ20	29-Apr	2.4	13-May	3	27-May	1.1		
MU1-OZ21	29-Apr	13.8	14-May	24.2	28-May	3.8		
MU1-OZ22	23-Apr	<1	18-May	4.5	1-Jun	7.7		
MU1-OZ23	29-Apr	1.2	14-May	<1	28-May	<1		
MU1-OZ24	23-Apr	2.3	14-May	7.3	28-May	2.1		
MU1-OZ25	23-Apr	1.1	14-May	<1	28-May	<1		
MU1-OZ26	20-Apr	<1	13-May	2.7	27-May	<1		

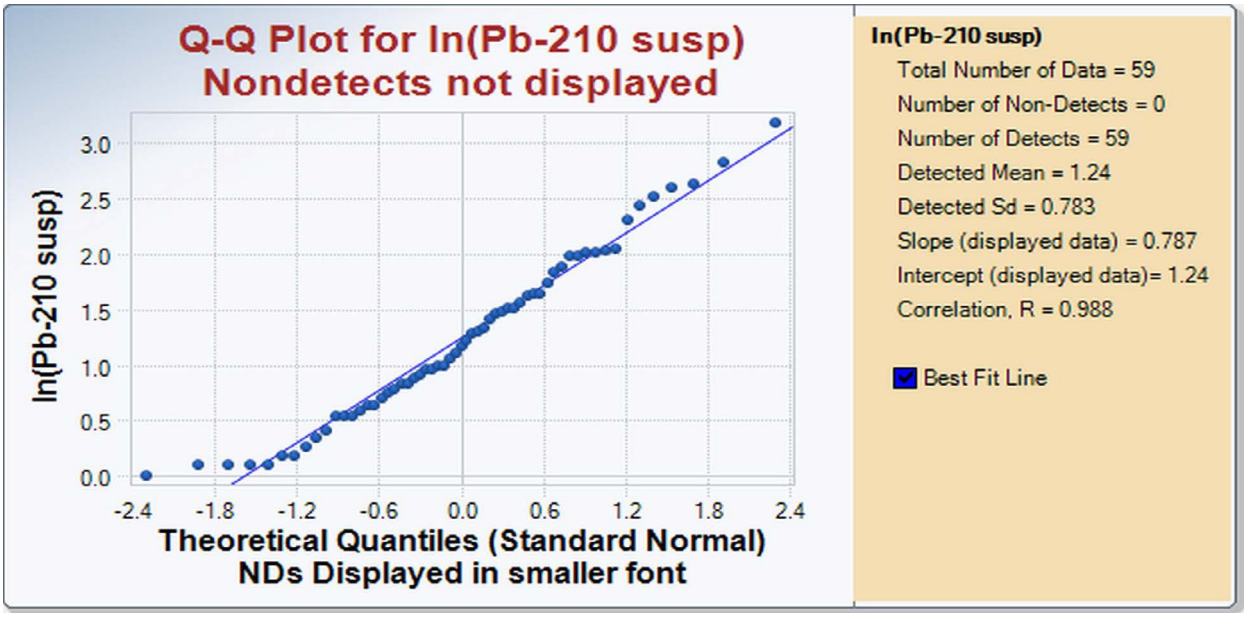
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



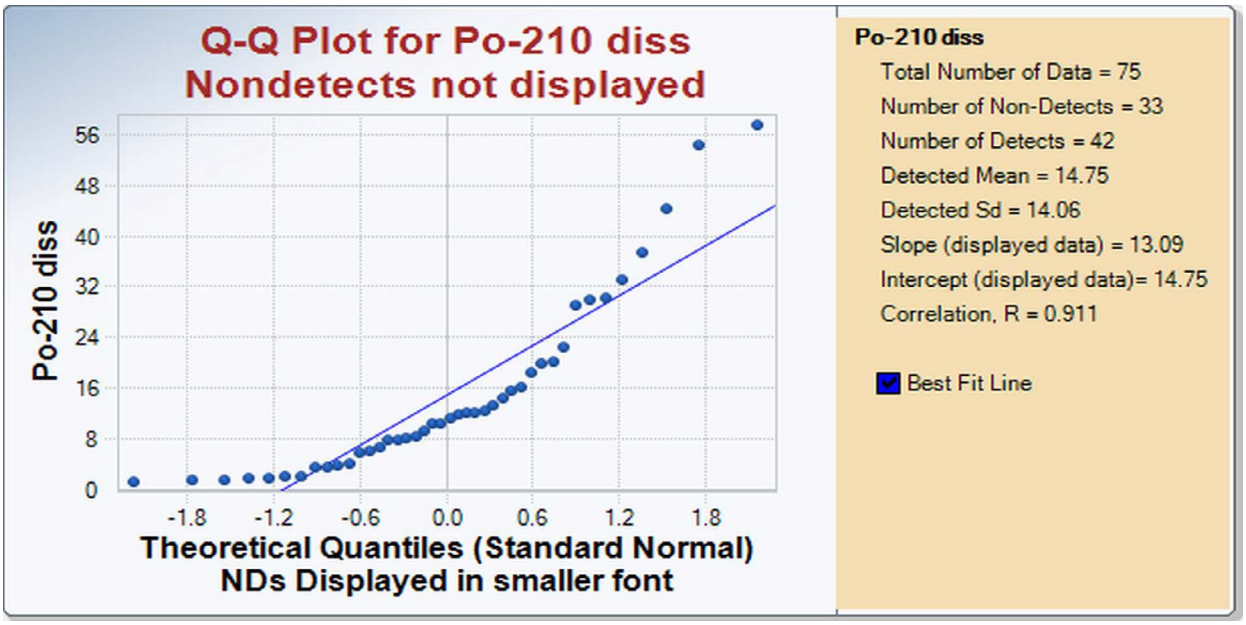
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Polonium-210, Dissolved (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	11.2	14-May	7.8	28-May	44.2		
MU1-OZ2	29-Apr	<1	13-May	<1	27-May	1.1		
MU1-OZ3	21-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ4	22-Apr	4	13-May	<1	27-May	1.7		
MU1-OZ6	20-Apr	<1	14-May	7.7	28-May	11.9		
MU1-OZ7	28-Apr	8.4	15-May	10.4	29-May	<1		
MU1-OZ8	22-Apr	20.2	15-May	3.5	29-May	<1		
MU1-OZ9	24-Apr	57.4	13-May	16	27-May	13.3		
MU1-OZ10	23-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ11	29-Apr	1.9	13-May	9.2	27-May	19.7		
MU1-OZ12	29-Apr	<1	14-May	<1	29-May	<1		
MU1-OZ13	29-Apr	1.3	14-May	<1	1-Jun	3.6	Not measured	
MU1-OZ14	20-Apr	<1	15-May	<1	29-May	<1		
MU1-OZ15	21-Apr	30.1	14-May	14.2	28-May	29.8		
MU1-OZ16	21-Apr	5.7	13-May	3.4	27-May	6.7		
MU1-OZ17	24-Apr	28.9	15-May	37.2	29-May	15.5		
MU1-OZ18	23-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ19	22-Apr	<1	15-May	<1	29-May	<1		
MU1-OZ20	29-Apr	<1	13-May	1.5	27-May	6.1		
MU1-OZ21	29-Apr	18.4	14-May	33	28-May	54.3		
MU1-OZ22	23-Apr	22.5	18-May	11.8	1-Jun	12.3		
MU1-OZ23	29-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ24	23-Apr	12.1	14-May	10.2	28-May	7.9		
MU1-OZ25	23-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ26	20-Apr	1.6	13-May	<1	27-May	2		

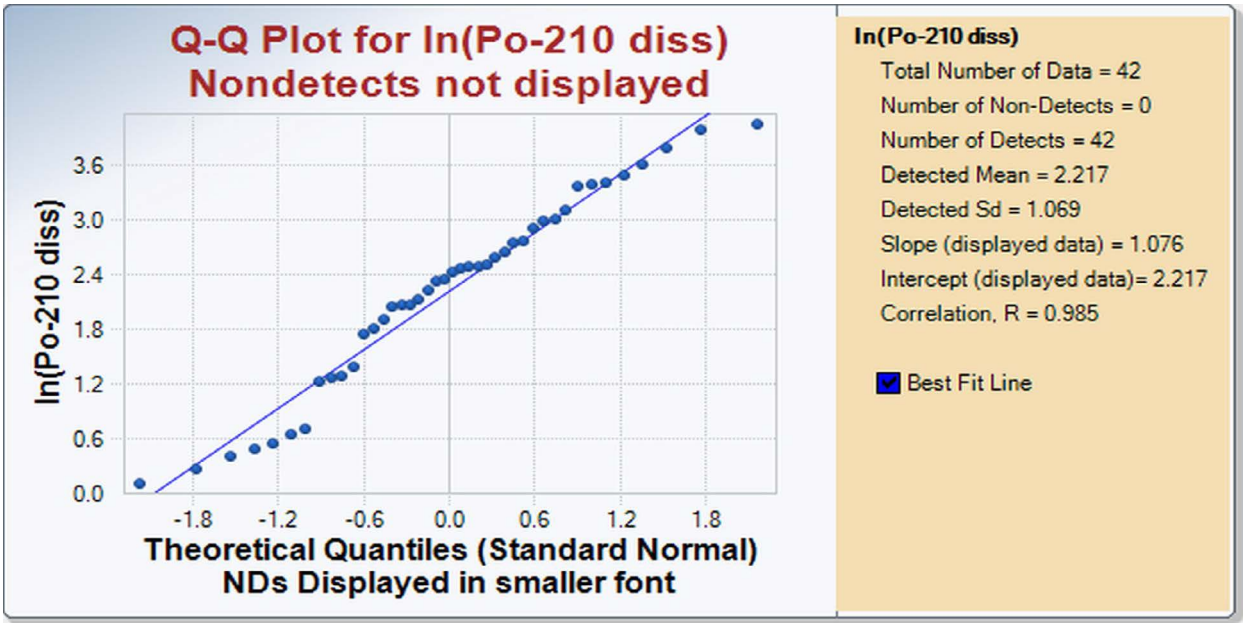
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



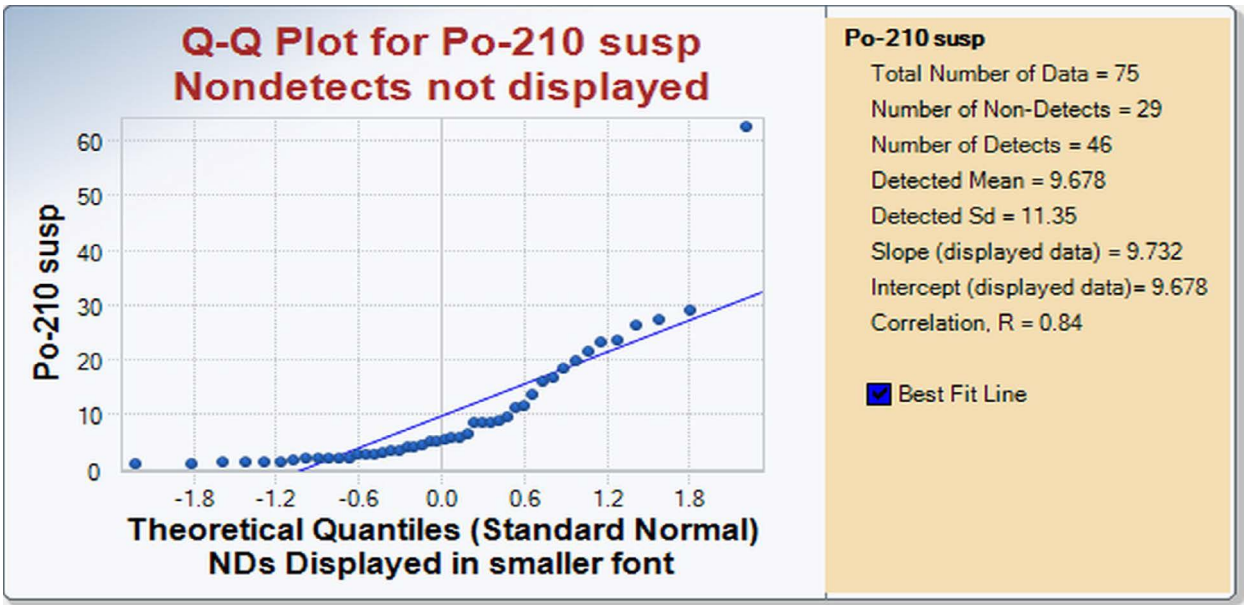
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Polonium-210, Suspended (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	62.3	14-May	28.9	28-May	16.5		
MU1-OZ2	29-Apr	<1	13-May	<1	27-May	<1		
MU1-OZ3	21-Apr	<1	14-May	1.1	28-May	1.2		
MU1-OZ4	22-Apr	<1	13-May	3	27-May	1.8		
MU1-OZ6	20-Apr	3.4	14-May	13.6	28-May	4.5		
MU1-OZ7	28-Apr	8.3	15-May	4.1	29-May	11.1		
MU1-OZ8	22-Apr	11.4	15-May	26.1	29-May	23.5		
MU1-OZ9	24-Apr	1.9	13-May	23.3	27-May	15.9		
MU1-OZ10	23-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ11	29-Apr	8.8	13-May	5.3	27-May	5		
MU1-OZ12	29-Apr	<1	14-May	<1	29-May	<1		
MU1-OZ13	29-Apr	2.6	14-May	2.8	1-Jun	1.1	Not measured	
MU1-OZ14	20-Apr	<1	15-May	<1	29-May	1.2		
MU1-OZ15	21-Apr	3.2	14-May	21.6	28-May	8.4		
MU1-OZ16	21-Apr	5.1	13-May	5.8	27-May	<1		
MU1-OZ17	24-Apr	2	15-May	5.8	29-May	18.5		
MU1-OZ18	23-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ19	22-Apr	<1	15-May	1.2	29-May	1.4		
MU1-OZ20	29-Apr	2.7	13-May	1.8	27-May	<1		
MU1-OZ21	29-Apr	27.4	14-May	19.9	28-May	8.3		
MU1-OZ22	23-Apr	1.9	18-May	3.9	1-Jun	1.7		
MU1-OZ23	29-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ24	23-Apr	<1	14-May	9.4	28-May	6.5		
MU1-OZ25	23-Apr	<1	14-May	<1	28-May	<1		
MU1-OZ26	20-Apr	<1	13-May	<1	27-May	<1		

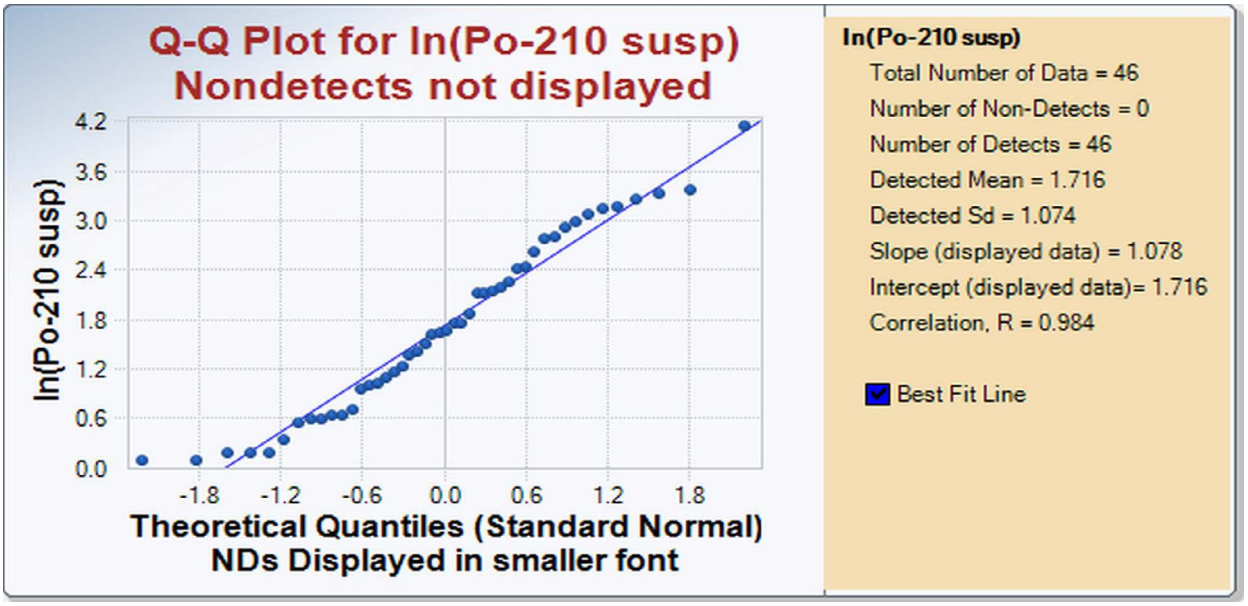
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

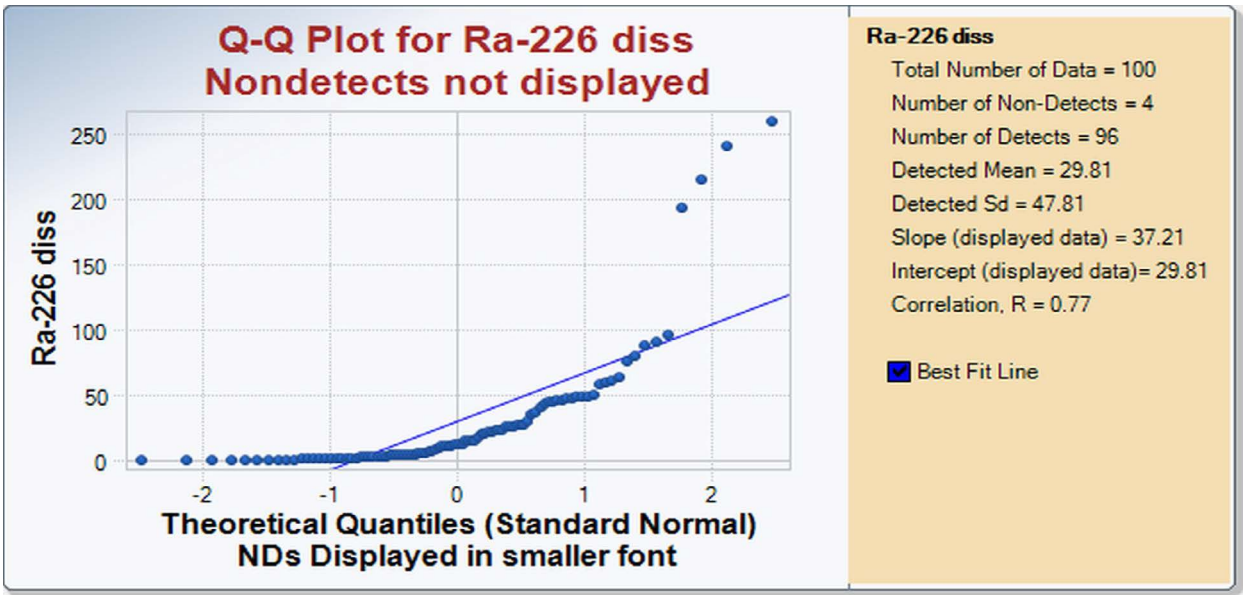
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Radium-226, Dissolved (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	48.6	14-May	45.3	28-May	48.7	11-Jun	47.1
MU1-OZ2	29-Apr	12.4	13-May	10.5	27-May	10.7	10-Jun	13
MU1-OZ3	21-Apr	3.3	14-May	3.2	28-May	4	11-Jun	3.8
MU1-OZ4	22-Apr	2	13-May	2	27-May	2.6	10-Jun	1.8
MU1-OZ6	20-Apr	50.4	14-May	40.7	28-May	43.5	11-Jun	47.4
MU1-OZ7	28-Apr	79.6	15-May	88.4	29-May	91.1	12-Jun	96.1
MU1-OZ8	22-Apr	12	15-May	11.9	29-May	12.8	12-Jun	15.9
MU1-OZ9	24-Apr	26.3	13-May	20.4	27-May	27.5	10-Jun	27
MU1-OZ10	23-Apr	1.2	14-May	1	28-May	1.7	15-Jun	1.4
MU1-OZ11	29-Apr	<0.2	13-May	7.3	27-May	6.9	10-Jun	8
MU1-OZ12	29-Apr	<0.2	14-May	0.4	29-May	4.2	11-Jun	1.5
MU1-OZ13	29-Apr	<0.2	14-May	26	1-Jun	37.2	15-Jun	44.9
MU1-OZ14	20-Apr	5.4	15-May	4.1	29-May	4.8	12-Jun	6.3
MU1-OZ15	21-Apr	260	14-May	194	28-May	215	11-Jun	241
MU1-OZ16	21-Apr	20.3	13-May	6.4	27-May	18.3	10-Jun	24.1
MU1-OZ17	24-Apr	61.3	15-May	60.3	29-May	63.4	12-Jun	76.6
MU1-OZ18	23-Apr	4.6	14-May	4	28-May	3.1	11-Jun	4.8
MU1-OZ19	22-Apr	0.8	15-May	0.4	29-May	0.6	12-Jun	0.5
MU1-OZ20	29-Apr	<0.2	13-May	1.6	27-May	1.8	10-Jun	2.2
MU1-OZ21	29-Apr	30.5	14-May	23.6	28-May	27.2	11-Jun	35
MU1-OZ22	23-Apr	48.9	18-May	48	1-Jun	45.8	15-Jun	59.2
MU1-OZ23	29-Apr	1.3	14-May	0.3	28-May	0.3	11-Jun	0.4
MU1-OZ24	23-Apr	22.5	14-May	24.1	28-May	22.1	11-Jun	25.9
MU1-OZ25	23-Apr	2.7	14-May	4.6	28-May	2.1	11-Jun	2.9
MU1-OZ26	20-Apr	15	13-May	11.5	27-May	15.6	10-Jun	14.8

Suspected outlier based on visual screening

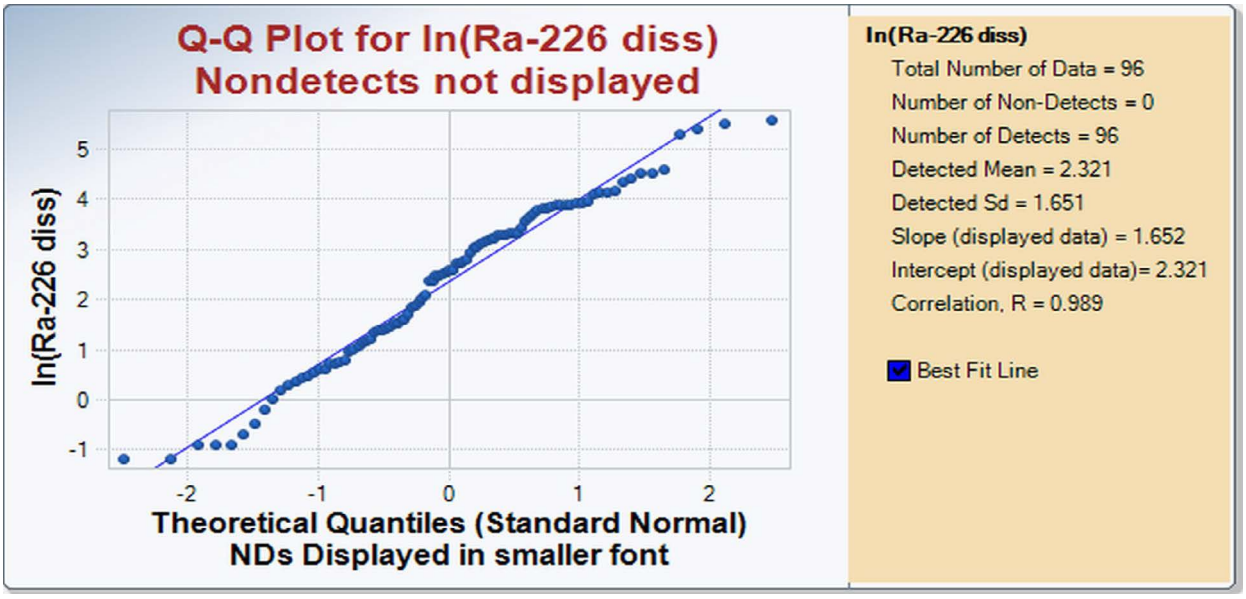
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers based on plot of all detectable data. However, two potential outliers were identified from visual screening based on anomalously low values for those wells. Therefore, all <0.2 pCi/L values were tested using 1/2 detection limit.

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	2.136
Standard deviation	1.856
Number of data	100
Number of suspected outliers	4

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ11	29-Apr	-2.303	2.403	3.380	**No**
2	MU1-OZ12	29-Apr	-2.303	2.477	3.380	**No**
3	MU1-OZ13	29-Apr	-2.303	2.572	3.380	**No**
4	MU1-OZ20	29-Apr	-2.303	2.679	3.370	**No**

* Calculated using natural logarithms of concentration values; -2.303 corresponds to 0.1 pCi/L.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean of detects**:	2.321
Standard deviation of detects**:	1.651
n**	96
k	2.9428
Lower tolerance limit	-2.54
Upper tolerance limit	7.18

**Calculated without suspected outliers

For 5% significance level, there are **no Statistical Outliers.**

* Calculated using natural logarithms of concentration values.

Step 3: Rationale for Removing or Keeping Statistical Outliers

Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
<0.2	MU1-OZ11	**Remove**	Anomalously low value for this well.
<0.2	MU1-OZ12	**Keep**	Consistent with other results from this well.
<0.2	MU1-OZ13	**Remove**	Anomalously low value for this well.
<0.2	MU1-OZ20	**Keep**	Consistent with other results from this well.

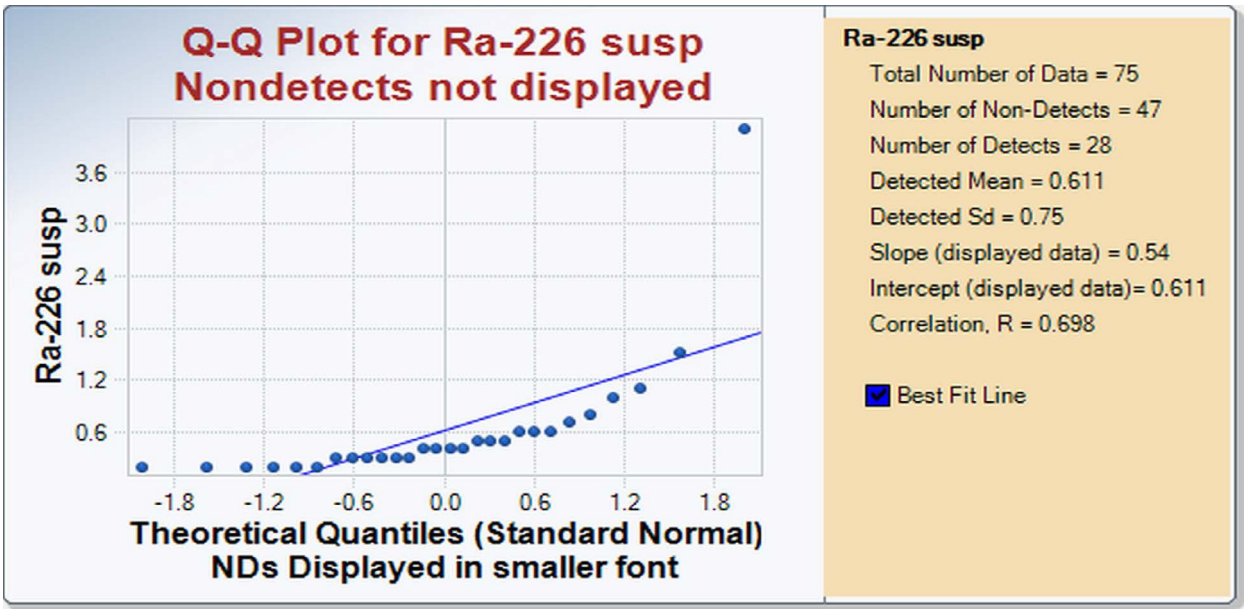
Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Radium-226, Suspended (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	1.5	14-May	0.3	28-May	<0.2		
MU1-OZ2	29-Apr	<0.2	13-May	<0.2	27-May	<0.2		
MU1-OZ3	21-Apr	0.2	14-May	<0.2	28-May	<0.2		
MU1-OZ4	22-Apr	0.2	13-May	<0.2	27-May	<0.2		
MU1-OZ6	20-Apr	0.4	14-May	0.6	28-May	0.7		
MU1-OZ7	28-Apr	4.1	15-May	0.4	29-May	1.0		
MU1-OZ8	22-Apr	0.6	15-May	<0.2	29-May	0.3		
MU1-OZ9	24-Apr	<0.2	13-May	0.3	27-May	0.3		
MU1-OZ10	23-Apr	<0.2	14-May	<0.2	28-May	<0.2		
MU1-OZ11	29-Apr	0.3	13-May	<0.2	27-May	<0.2		
MU1-OZ12	29-Apr	<0.2	14-May	<0.2	29-May	<0.2		
MU1-OZ13	29-Apr	<0.2	14-May	0.3	1-Jun	<0.2	Not measured	
MU1-OZ14	20-Apr	0.4	15-May	0.8	29-May	0.6		
MU1-OZ15	21-Apr	<0.2	14-May	0.4	28-May	0.5		
MU1-OZ16	21-Apr	<0.2	13-May	<0.2	27-May	<0.2		
MU1-OZ17	24-Apr	<0.2	15-May	0.2	29-May	1.1		
MU1-OZ18	23-Apr	<0.2	14-May	<0.2	28-May	<0.2		
MU1-OZ19	22-Apr	<0.2	15-May	<0.2	29-May	<0.2		
MU1-OZ20	29-Apr	<0.2	13-May	<0.2	27-May	<0.2		
MU1-OZ21	29-Apr	0.2	14-May	0.2	28-May	<0.2		
MU1-OZ22	23-Apr	0.2	18-May	0.5	1-Jun	0.5		
MU1-OZ23	29-Apr	<0.2	14-May	<0.2	28-May	<0.2		
MU1-OZ24	23-Apr	<0.2	14-May	<0.2	28-May	<0.2		
MU1-OZ25	23-Apr	<0.2	14-May	<0.2	28-May	<0.2		
MU1-OZ26	20-Apr	<0.2	13-May	<0.2	27-May	<0.2		

Suspected outlier based on visual screening

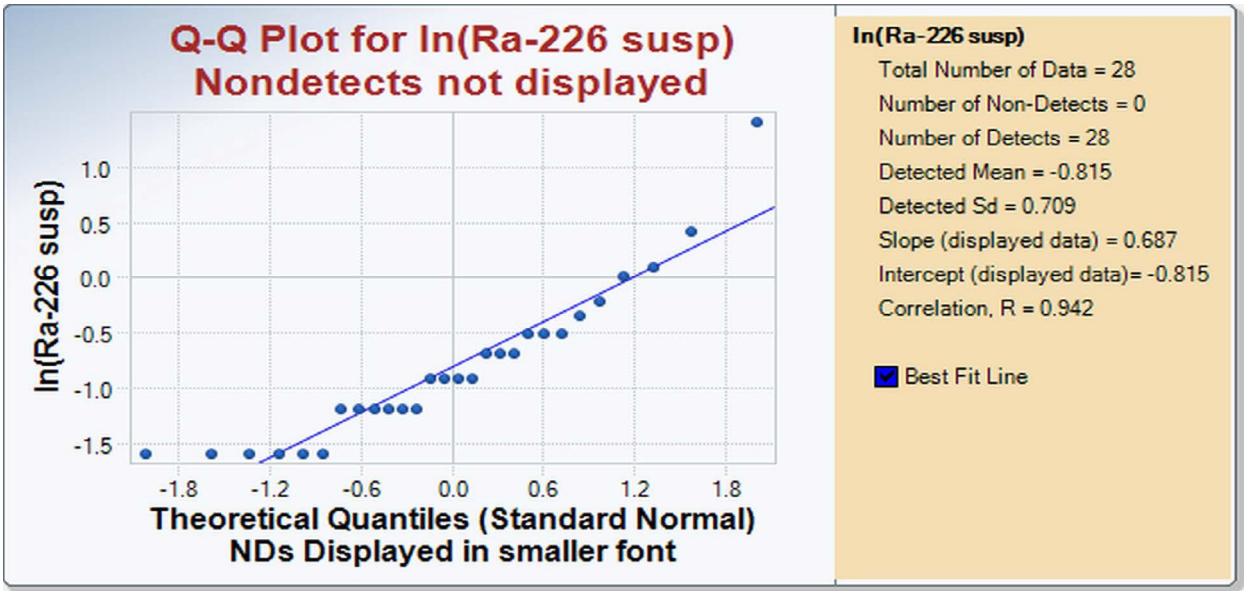
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with one suspected high outlier.

Step 2: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean of detects	-0.815
Standard deviation of detects	0.709
Number of detects	28
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-OZ7	28-Apr	1.4110	3.2	2.880	**Yes**

* Calculated using natural logarithm of concentration value; 1.4110 corresponds to 4.1 pCi/L.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean of detects**:	-0.898	**Calculated without
Standard deviation of detects**:	0.569	suspected outliers
n**	27	
k	3.4142	
Lower tolerance limit	-2.84	
Upper tolerance limit	1.04	

For 5% significance level, there is **one Statistical Outlier: 1.4110 (4.1 pCi/L)**

* Calculated using natural logarithm of concentration value.

Step 3: Rationale for Removing or Keeping Statistical Outliers

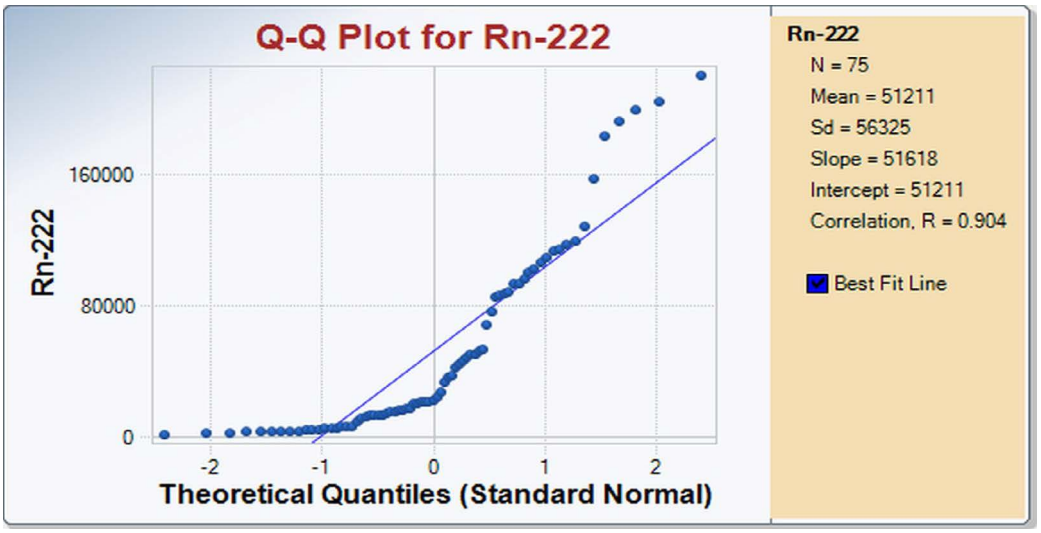
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
4.1	MU1-OZ7	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Radon-222 (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	75,700	14-May	84,900	28-May	92,300		
MU1-OZ2	29-Apr	14,600	13-May	12,700	27-May	13,900		
MU1-OZ3	21-Apr	5,490	14-May	6,040	28-May	4,540		
MU1-OZ4	22-Apr	19,800	13-May	22,200	27-May	20,600		
MU1-OZ6	20-Apr	68,100	14-May	86,200	28-May	99,700		
MU1-OZ7	28-Apr	119,000	15-May	117,000	29-May	106,000		
MU1-OZ8	22-Apr	43,800	15-May	45,900	29-May	49,800		
MU1-OZ9	24-Apr	87,700	13-May	95,200	27-May	85,400		
MU1-OZ10	23-Apr	3,540	14-May	3,350	28-May	3,960		
MU1-OZ11	29-Apr	15,600	13-May	16,700	27-May	16,300		
MU1-OZ12	29-Apr	2,740	14-May	2,460	29-May	2,710		
MU1-OZ13	29-Apr	52,600	14-May	51,300	1-Jun	37,000	Not measured	
MU1-OZ14	20-Apr	13,200	15-May	12,300	29-May	12,300		
MU1-OZ15	21-Apr	198,000	14-May	203,000	28-May	219,000		
MU1-OZ16	21-Apr	50,000	13-May	33,000	27-May	26,700		
MU1-OZ17	24-Apr	109,000	15-May	113,000	29-May	114,000		
MU1-OZ18	23-Apr	11,800	14-May	8,310	28-May	10,600		
MU1-OZ19	22-Apr	3,230	15-May	3,070	29-May	2,480		
MU1-OZ20	29-Apr	19,500	13-May	14,400	27-May	16,000		
MU1-OZ21	29-Apr	191,000	14-May	157,000	28-May	183,000		
MU1-OZ22	23-Apr	128,000	18-May	92,600	1-Jun	102,000		
MU1-OZ23	29-Apr	1,480	14-May	1,200	28-May	1,380		
MU1-OZ24	23-Apr	35,600	14-May	41,700	28-May	47,900		
MU1-OZ25	23-Apr	4,510	14-May	6,000	28-May	4,550		
MU1-OZ26	20-Apr	20,600	13-May	23,900	27-May	20,700		

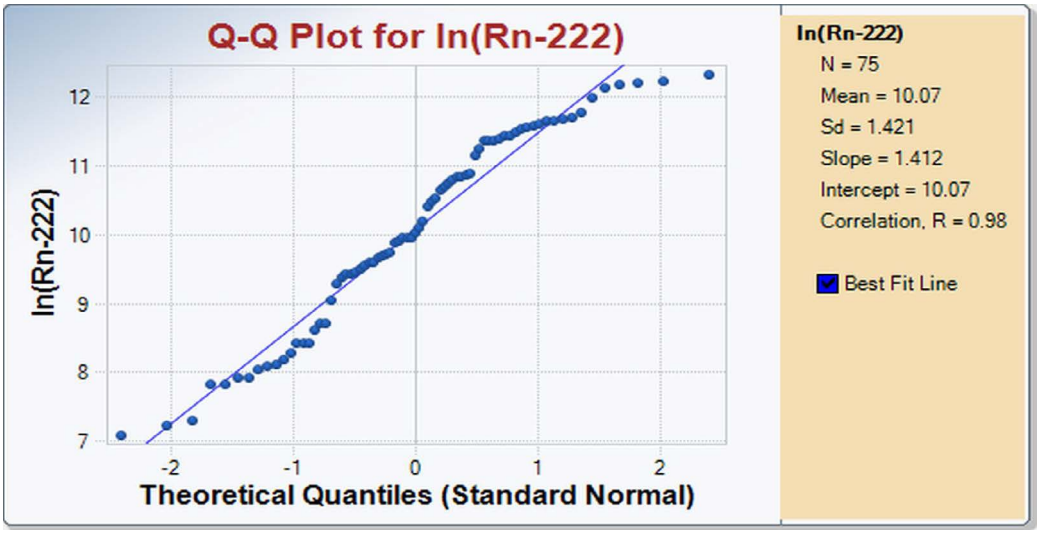
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



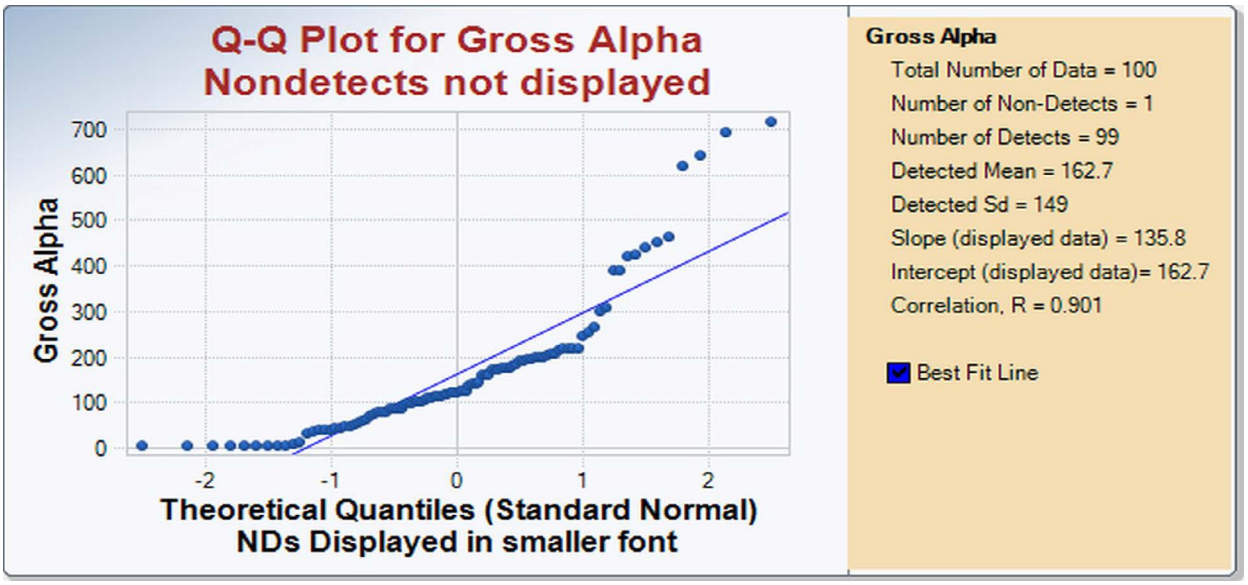
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Gross Alpha (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	218	14-May	190	28-May	217	11-Jun	253
MU1-OZ2	29-Apr	99.8	13-May	124	27-May	79.9	10-Jun	124
MU1-OZ3	21-Apr	73.1	14-May	79.2	28-May	62.4	11-Jun	77.3
MU1-OZ4	22-Apr	108	13-May	114	27-May	120	10-Jun	119
MU1-OZ6	20-Apr	217	14-May	206	28-May	263	11-Jun	301
MU1-OZ7	28-Apr	388	15-May	388	29-May	308	12-Jun	462
MU1-OZ8	22-Apr	198	15-May	182	29-May	179	12-Jun	201
MU1-OZ9	24-Apr	177	13-May	145	27-May	174	10-Jun	174
MU1-OZ10	23-Apr	35.6	14-May	45.9	28-May	32.5	15-Jun	44.7
MU1-OZ11	29-Apr	99.3	13-May	112	27-May	110	10-Jun	120
MU1-OZ12	29-Apr	5.5	14-May	2.6	29-May	8.2	11-Jun	5.2
MU1-OZ13	29-Apr	117	14-May	135	1-Jun	142	15-Jun	158
MU1-OZ14	20-Apr	99.5	15-May	84.2	29-May	84.9	12-Jun	91.7
MU1-OZ15	21-Apr	692	14-May	717	28-May	617	11-Jun	643
MU1-OZ16	21-Apr	214	13-May	171	27-May	172	10-Jun	196
MU1-OZ17	24-Apr	439	15-May	420	29-May	424	12-Jun	453
MU1-OZ18	23-Apr	141	14-May	200	28-May	160	11-Jun	192
MU1-OZ19	22-Apr	12.3	15-May	3.7	29-May	3.6	12-Jun	5.9
MU1-OZ20	29-Apr	40.2	13-May	38	27-May	38.5	10-Jun	41.7
MU1-OZ21	29-Apr	171	14-May	103	28-May	199	11-Jun	193
MU1-OZ22	23-Apr	205	18-May	159	1-Jun	219	15-Jun	247
MU1-OZ23	29-Apr	4.7	14-May	<2	28-May	3.9	11-Jun	2.8
MU1-OZ24	23-Apr	86.3	14-May	123	28-May	105	11-Jun	118
MU1-OZ25	23-Apr	46.4	14-May	59.7	28-May	53	11-Jun	51.3
MU1-OZ26	20-Apr	87.5	13-May	69.1	27-May	98.4	10-Jun	114

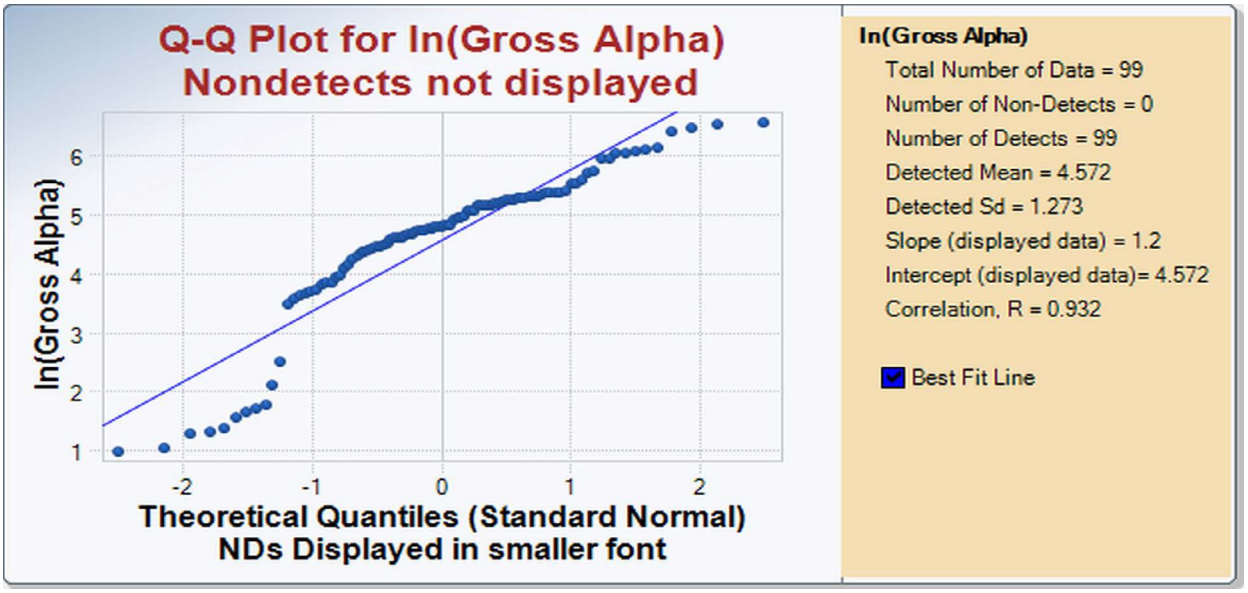
Note: all dates are 2015.
nm - not measured.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



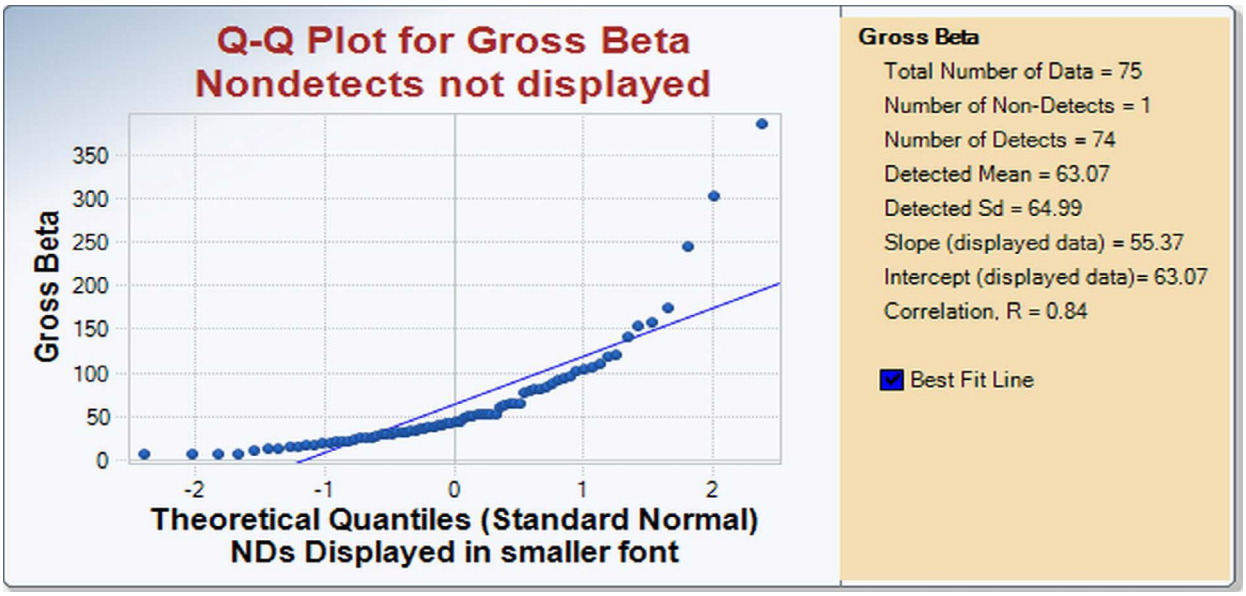
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Ore Zone (OZ)**
Parameter: **Gross Beta (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	106	14-May	95.1	28-May	79.9		
MU1-OZ2	29-Apr	30	13-May	33.9	27-May	29.4		
MU1-OZ3	21-Apr	24	14-May	51.9	28-May	24.9		
MU1-OZ4	22-Apr	27	13-May	23.6	27-May	29.6		
MU1-OZ6	20-Apr	101	14-May	87.7	28-May	103		
MU1-OZ7	28-Apr	173	15-May	141	29-May	109		
MU1-OZ8	22-Apr	60	15-May	50.9	29-May	50.6		
MU1-OZ9	24-Apr	63.1	13-May	61.7	27-May	75.7		
MU1-OZ10	23-Apr	64.4	14-May	41	28-May	17.8		
MU1-OZ11	29-Apr	21	13-May	34.1	27-May	34.8		
MU1-OZ12	29-Apr	5.4	14-May	<3	29-May	11.5		
MU1-OZ13	29-Apr	51	14-May	52.6	1-Jun	77.7	Not measured	
MU1-OZ14	20-Apr	40.6	15-May	16.3	29-May	25.4		
MU1-OZ15	21-Apr	302	14-May	385	28-May	243		
MU1-OZ16	21-Apr	81.7	13-May	36.7	27-May	48.8		
MU1-OZ17	24-Apr	120	15-May	157	29-May	152		
MU1-OZ18	23-Apr	39.6	14-May	44.1	28-May	38.1		
MU1-OZ19	22-Apr	29.6	15-May	15.2	29-May	9.4		
MU1-OZ20	29-Apr	16.9	13-May	14.5	27-May	17.5		
MU1-OZ21	29-Apr	63.4	14-May	46.9	28-May	79.7		
MU1-OZ22	23-Apr	90.6	18-May	93.5	1-Jun	118		
MU1-OZ23	29-Apr	6.5	14-May	5.4	28-May	5.3		
MU1-OZ24	23-Apr	40.2	14-May	44	28-May	30.2		
MU1-OZ25	23-Apr	13.3	14-May	19.8	28-May	20.8		
MU1-OZ26	20-Apr	49.8	13-May	30.4	27-May	33.1		

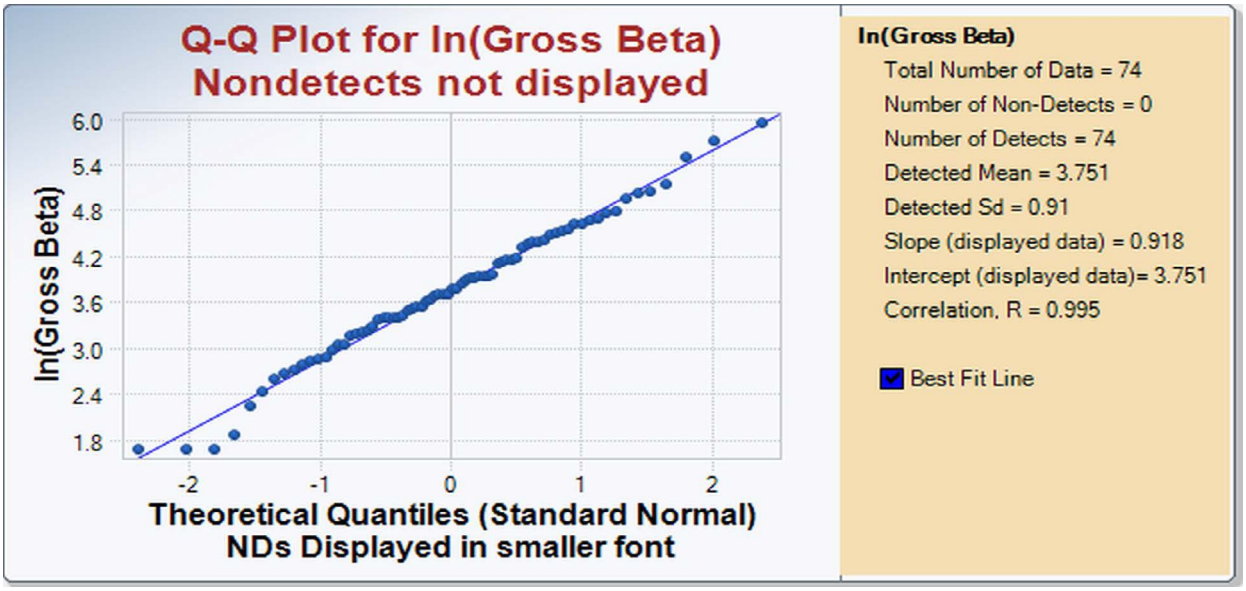
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter Monitor (PM)**

Note: The detection frequency for the following parameters was less than 25%; therefore, no attempt was made to fit these parameters to a data distribution or to perform visual screening or statistical evaluation of potential outliers.

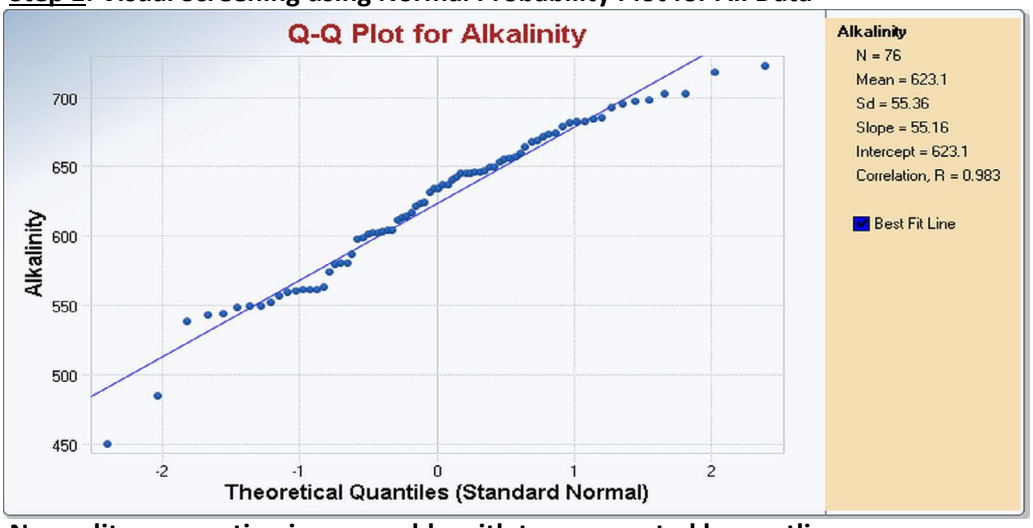
Parameter	Detection Frequency (%)
Nitrate/Nitrite as N	0
Aluminum, dissolved	1
Barium, dissolved	0
Cadmium, dissolved	0
Chromium, dissolved	0
Copper, dissolved	0
Iron, dissolved	13
Lead, dissolved	0
Manganese, dissolved	0
Manganese, total	0
Mercury, dissolved	0
Molybdenum, dissolved	0
Nickel, dissolved	0
Selenium, dissolved	0
Silver, dissolved	0
Uranium, suspended	4
Vanadium, dissolved	0
Zinc, dissolved	1
Polonium-210, dissolved	9
Polonium-210, suspended	5
Radium-226, suspended	12
Radium-228, dissolved	4
Thorium-230, dissolved	0
Thorium-230, suspended	0

Monitoring Interval: **Perimeter (PM)**
Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	603	13-May	574	27-May	580	10-Jun	631
MU1-PM2	27-Apr	548	14-May	549	28-May	556	11-Jun	561
MU1-PM3	27-Apr	560	14-May	637	28-May	561	11-Jun	646
MU1-PM4	28-Apr	613	14-May	634	28-May	604	11-Jun	647
MU1-PM5	28-Apr	634	14-May	624	28-May	679	11-Jun	702
MU1-PM6	24-Apr	552	14-May	602	28-May	559	11-Jun	645
MU1-PM7	23-Apr	659	14-May	664	28-May	649	11-Jun	656
MU1-PM8	27-Apr	601	13-May	602	27-May	597	10-Jun	611
MU1-PM9	24-Apr	623	13-May	484	27-May	561	10-Jun	604
MU1-PM10	27-Apr	617	13-May	655	27-May	544	10-Jun	586
MU1-PM11	28-Apr	579	15-May	645	29-May	702	12-Jun	669
MU1-PM12	28-Apr	640	13-May	682	27-May	653	10-Jun	668
MU1-PM13	29-Apr	692	13-May	681	27-May	682	10-Jun	698
MU1-PM14A	28-Apr	450	14-May	580	28-May	598	11-Jun	614
MU1-PM15	28-Apr	543	13-May	621	27-May	538	10-Jun	549
MU1-PM16	28-Apr	563	15-May	646	29-May	649	12-Jun	657
MU1-PM17	28-Apr	722	13-May	684	27-May	685	10-Jun	697
MU1-PM18	28-Apr	674	13-May	673	27-May	671	10-Jun	718
MU1-PM19	28-Apr	637	15-May	695	29-May	642	15-Jun	645

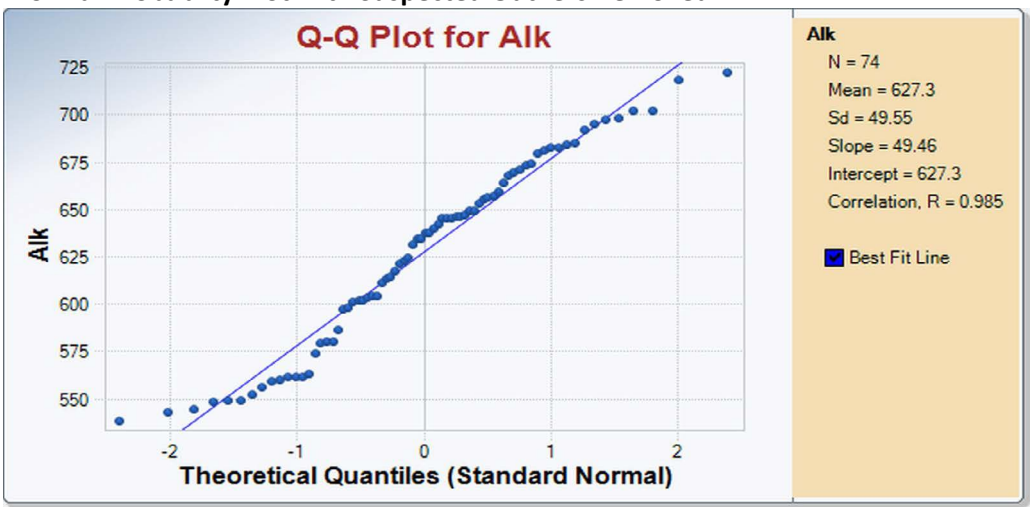
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Normality assumption is reasonable with two suspected low outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	623.1
Standard deviation	55.4
Number of data	76
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM14A	28-Apr	450	3.148	3.29	**No**
2	MU1-PM9	13-May	484	2.724	3.28	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	627.3	*Calculated without
Standard deviation*:	49.5	suspected outliers
n*	74	
k	3.0058	
Lower tolerance limit	478	
Upper tolerance limit	776	

For 5% significance level, there is **one Statistical Outlier: 450.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

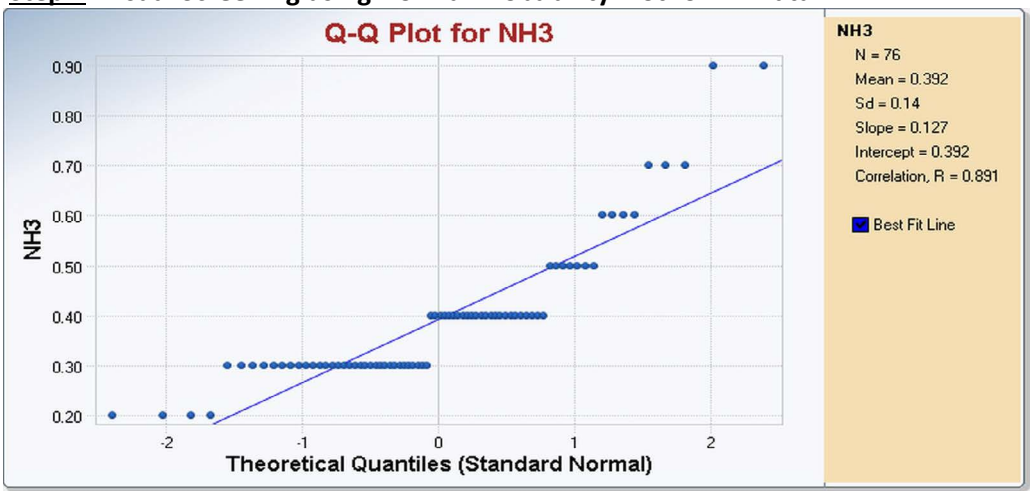
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
484	MU1-PM9	**Keep**	Not a statistical outlier.
450	MU1-PM14A	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Ammonia (mg/L as N)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-PM2	27-Apr	0.5	14-May	0.3	28-May	0.4	11-Jun	0.3
MU1-PM3	27-Apr	0.4	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-PM4	28-Apr	0.4	14-May	0.3	28-May	0.4	11-Jun	0.3
MU1-PM5	28-Apr	0.3	14-May	0.3	28-May	0.2	11-Jun	0.3
MU1-PM6	24-Apr	0.5	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-PM7	23-Apr	0.2	14-May	0.4	28-May	0.3	11-Jun	0.3
MU1-PM8	27-Apr	0.6	13-May	0.5	27-May	0.4	10-Jun	0.4
MU1-PM9	24-Apr	0.4	13-May	0.6	27-May	0.4	10-Jun	0.4
MU1-PM10	27-Apr	0.7	13-May	0.4	27-May	0.5	10-Jun	0.5
MU1-PM11	28-Apr	0.4	15-May	0.3	29-May	0.3	12-Jun	0.3
MU1-PM12	28-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.2
MU1-PM13	29-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-PM14A	28-Apr	0.6	14-May	0.7	28-May	0.5	11-Jun	0.5
MU1-PM15	28-Apr	0.9	13-May	0.9	27-May	0.6	10-Jun	0.7
MU1-PM16	28-Apr	0.4	15-May	0.4	29-May	0.4	12-Jun	0.4
MU1-PM17	28-Apr	0.4	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-PM18	28-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.2
MU1-PM19	28-Apr	0.4	15-May	0.3	29-May	0.3	15-Jun	0.3

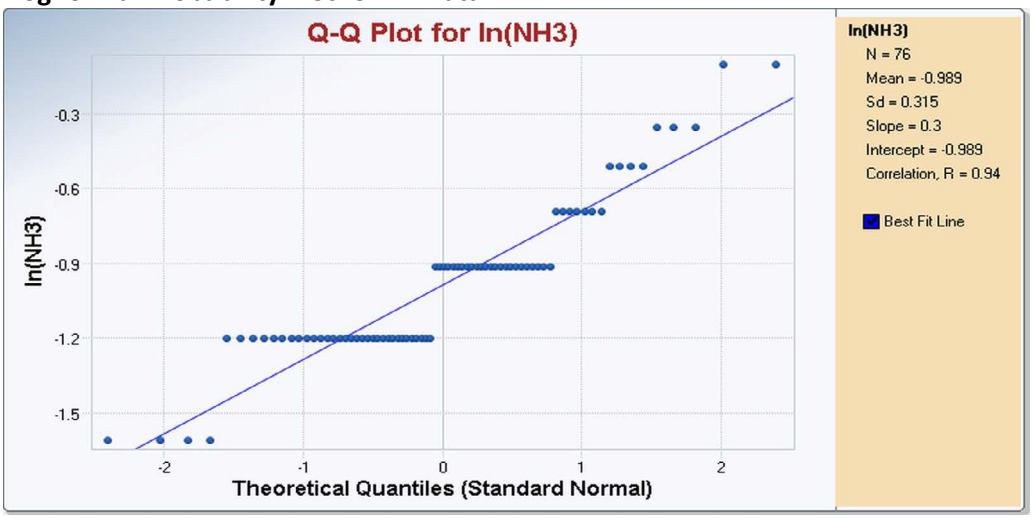
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected high outliers.

Lognormal Probability Plot for All Data



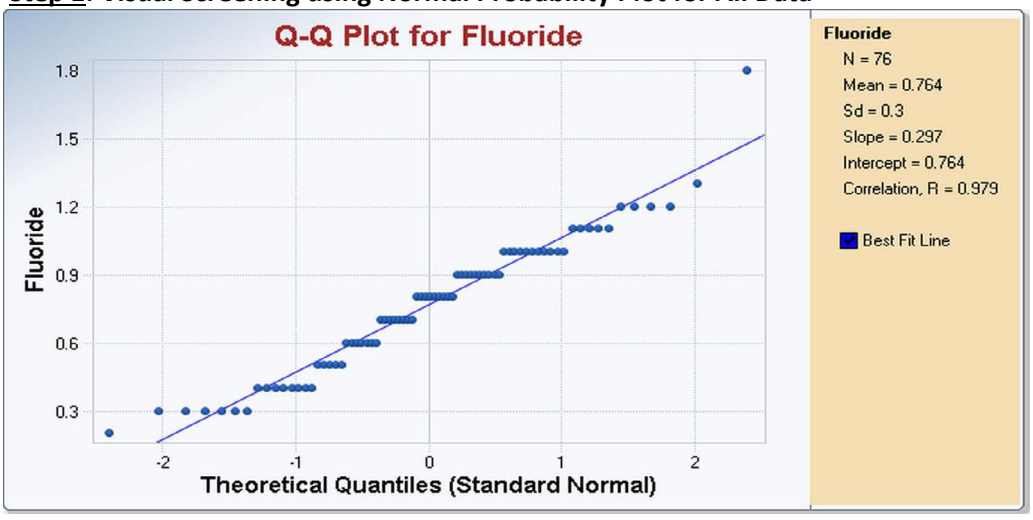
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Fluoride (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	1.0	13-May	0.7	27-May	0.7	10-Jun	0.8
MU1-PM2	27-Apr	0.6	14-May	0.8	28-May	0.8	11-Jun	0.7
MU1-PM3	27-Apr	0.7	14-May	1.1	28-May	0.7	11-Jun	1.0
MU1-PM4	28-Apr	0.9	14-May	1.1	28-May	0.9	11-Jun	1.0
MU1-PM5	28-Apr	1.0	14-May	1.2	28-May	1.1	11-Jun	1.2
MU1-PM6	24-Apr	0.6	14-May	1.0	28-May	0.6	11-Jun	0.7
MU1-PM7	23-Apr	0.9	14-May	1.1	28-May	0.9	11-Jun	0.8
MU1-PM8	27-Apr	0.3	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-PM9	24-Apr	0.4	13-May	0.3	27-May	0.4	10-Jun	0.4
MU1-PM10	27-Apr	0.4	13-May	0.9	27-May	0.5	10-Jun	0.5
MU1-PM11	28-Apr	0.5	15-May	0.7	29-May	0.8	12-Jun	0.8
MU1-PM12	28-Apr	0.6	13-May	0.6	27-May	0.5	10-Jun	0.6
MU1-PM13	29-Apr	0.8	13-May	0.9	27-May	1.8	10-Jun	0.8
MU1-PM14A	28-Apr	0.4	14-May	0.4	28-May	0.6	11-Jun	0.7
MU1-PM15	28-Apr	0.2	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-PM16	28-Apr	0.5	15-May	1.3	29-May	0.9	12-Jun	0.8
MU1-PM17	28-Apr	0.9	13-May	1.0	27-May	1.0	10-Jun	0.9
MU1-PM18	28-Apr	1.0	13-May	1.1	27-May	1.2	10-Jun	1.2
MU1-PM19	28-Apr	0.9	15-May	1.0	29-May	1.0	15-Jun	1.0

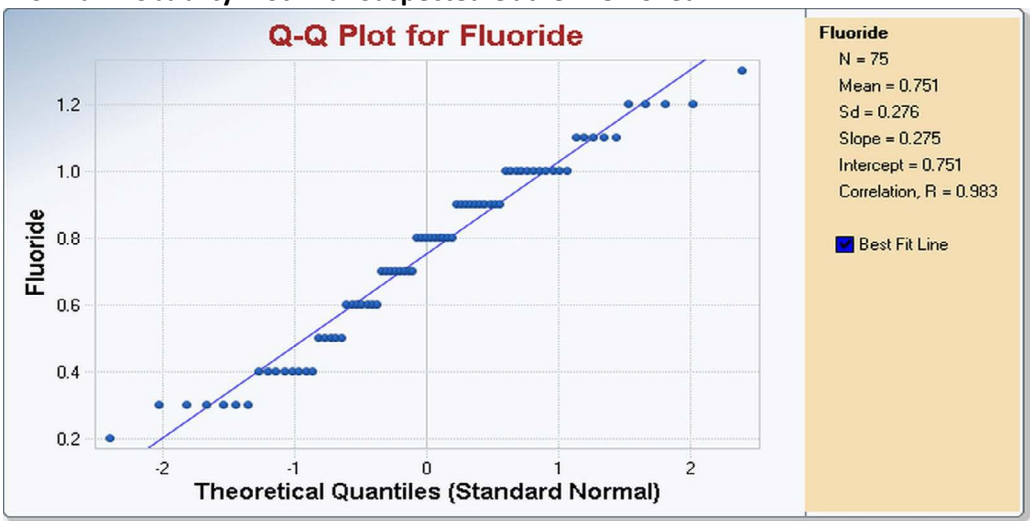
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	0.76
Standard deviation	0.30
Number of data	76
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM13	27-May	1.8	3.479	3.29	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	0.75	*Calculated without
Standard deviation*:	0.28	suspected outlier
n*	75	
k	3.002	
Lower tolerance limit	-0.08	
Upper tolerance limit	1.58	

For 5% significance level, there is **one Statistical Outlier: 1.8.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

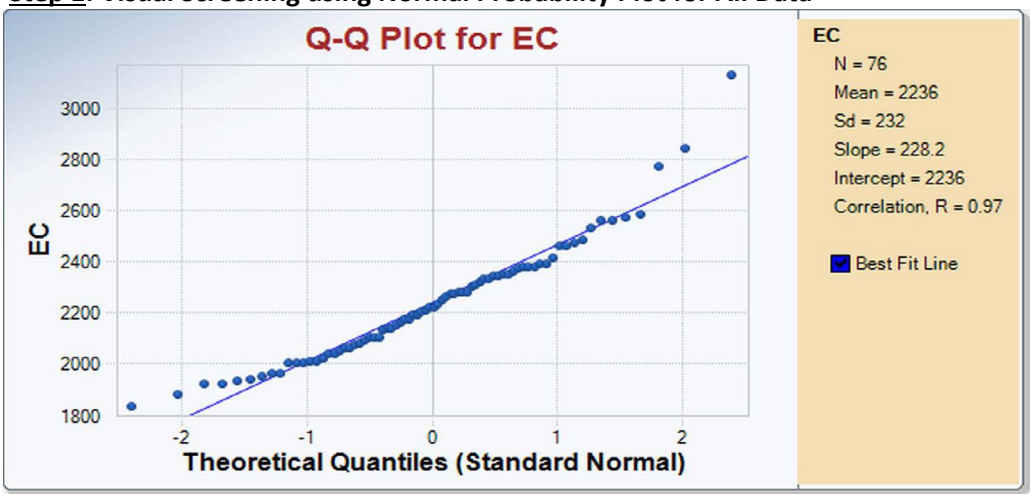
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
1.8	MU1-PM13	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Conductivity, Laboratory (µmhos/cm)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	2,280	13-May	2,480	27-May	2,330	10-Jun	2,460
MU1-PM2	27-Apr	2,470	14-May	2,390	28-May	2,340	11-Jun	2,390
MU1-PM3	27-Apr	2,310	14-May	2,170	28-May	2,330	11-Jun	2,140
MU1-PM4	28-Apr	2,220	14-May	2,380	28-May	2,280	11-Jun	2,320
MU1-PM5	28-Apr	1,950	14-May	2,010	28-May	1,920	11-Jun	1,960
MU1-PM6	24-Apr	2,360	14-May	2,230	28-May	2,380	11-Jun	2,350
MU1-PM7	23-Apr	2,020	14-May	2,140	28-May	2,060	11-Jun	2,170
MU1-PM8	27-Apr	2,460	13-May	2,570	27-May	2,350	10-Jun	2,560
MU1-PM9	24-Apr	2,410	13-May	3,130	27-May	2,530	10-Jun	2,560
MU1-PM10	27-Apr	2,580	13-May	2,280	27-May	2,770	10-Jun	2,840
MU1-PM11	28-Apr	2,190	15-May	2,100	29-May	2,000	12-Jun	2,010
MU1-PM12	28-Apr	1,940	13-May	2,040	27-May	1,880	10-Jun	2,000
MU1-PM13	29-Apr	1,930	13-May	1,960	27-May	1,830	10-Jun	1,920
MU1-PM14A	28-Apr	2,070	14-May	2,370	28-May	2,270	11-Jun	2,380
MU1-PM15	28-Apr	2,150	13-May	2,300	27-May	2,160	10-Jun	2,340
MU1-PM16	28-Apr	2,000	15-May	2,040	29-May	2,050	12-Jun	2,080
MU1-PM17	28-Apr	2,130	13-May	2,260	27-May	2,100	10-Jun	2,250
MU1-PM18	28-Apr	2,090	13-May	2,100	27-May	2,060	10-Jun	2,190
MU1-PM19	28-Apr	2,270	15-May	2,200	29-May	2,210	15-Jun	2,220

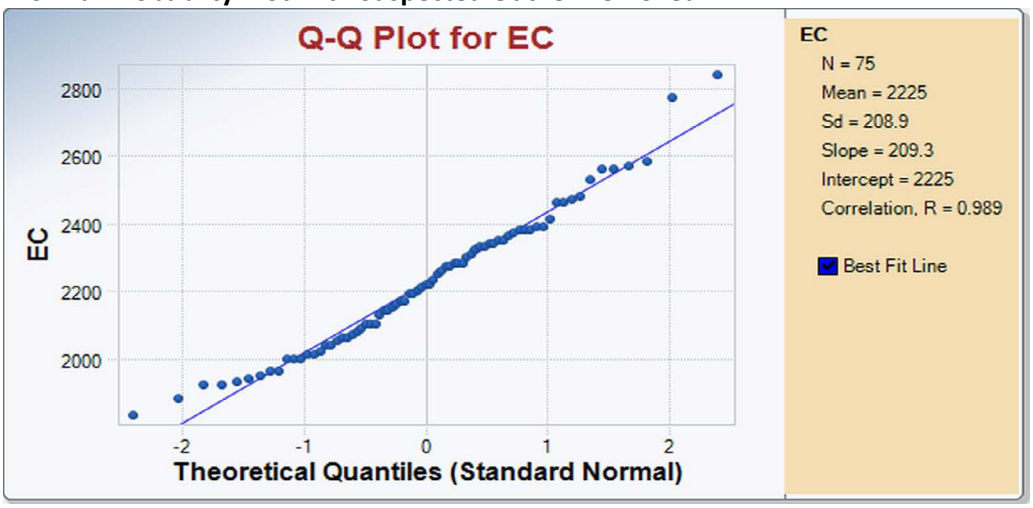
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	2,236
Standard deviation	232
Number of data	76
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM9	13-May	3,130	3.877	3.29	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	2,225	*Calculated without
Standard deviation*:	209	suspected outliers
n*	75	
k	3.002	
Lower tolerance limit	1,598	
Upper tolerance limit	2,852	

For 5% significance level, there is **one Statistical Outlier: 3,130.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

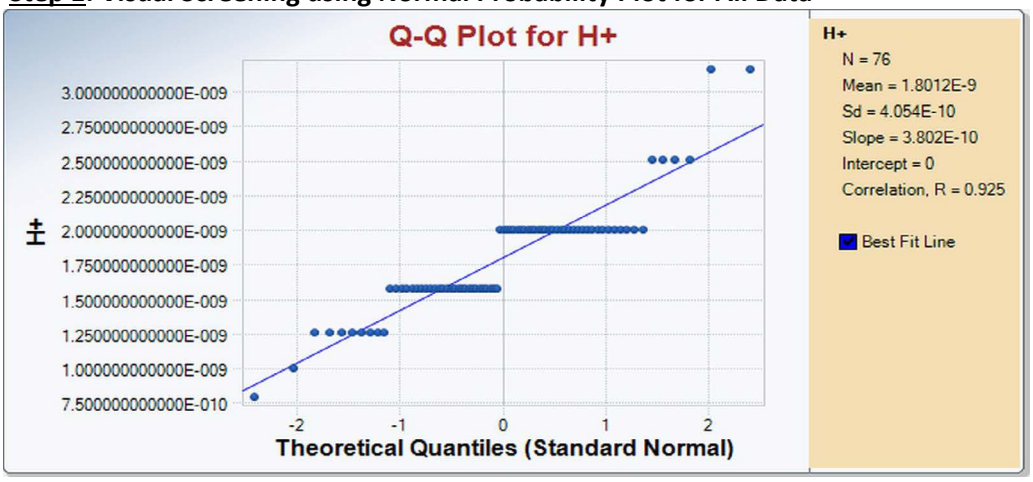
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
3,130	MU1-PM9	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **pH, Laboratory (s.u.)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	8.9	13-May	8.8	27-May	8.8	10-Jun	8.7
MU1-PM2	27-Apr	8.8	14-May	8.7	28-May	8.8	11-Jun	8.7
MU1-PM3	27-Apr	8.9	14-May	8.8	28-May	8.8	11-Jun	8.8
MU1-PM4	28-Apr	8.7	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-PM5	28-Apr	8.8	14-May	8.8	28-May	8.8	11-Jun	8.8
MU1-PM6	24-Apr	8.7	14-May	8.9	28-May	8.7	11-Jun	8.7
MU1-PM7	23-Apr	8.9	14-May	8.8	28-May	8.8	11-Jun	8.8
MU1-PM8	27-Apr	8.8	13-May	8.7	27-May	8.7	10-Jun	8.7
MU1-PM9	24-Apr	8.9	13-May	8.8	27-May	8.7	10-Jun	8.7
MU1-PM10	27-Apr	8.8	13-May	9.0	27-May	8.8	10-Jun	8.7
MU1-PM11	28-Apr	8.9	15-May	8.8	29-May	8.7	12-Jun	8.7
MU1-PM12	28-Apr	8.7	13-May	8.8	27-May	8.6	10-Jun	8.7
MU1-PM13	29-Apr	8.9	13-May	8.7	27-May	8.7	10-Jun	8.7
MU1-PM14A	28-Apr	9.1	14-May	8.7	28-May	8.8	11-Jun	8.8
MU1-PM15	28-Apr	8.7	13-May	8.6	27-May	8.5	10-Jun	8.5
MU1-PM16	28-Apr	8.8	15-May	8.9	29-May	8.8	12-Jun	8.8
MU1-PM17	28-Apr	8.7	13-May	8.7	27-May	8.6	10-Jun	8.7
MU1-PM18	28-Apr	8.8	13-May	8.7	27-May	8.6	10-Jun	8.7
MU1-PM19	28-Apr	8.7	15-May	8.7	29-May	8.7	15-Jun	8.7

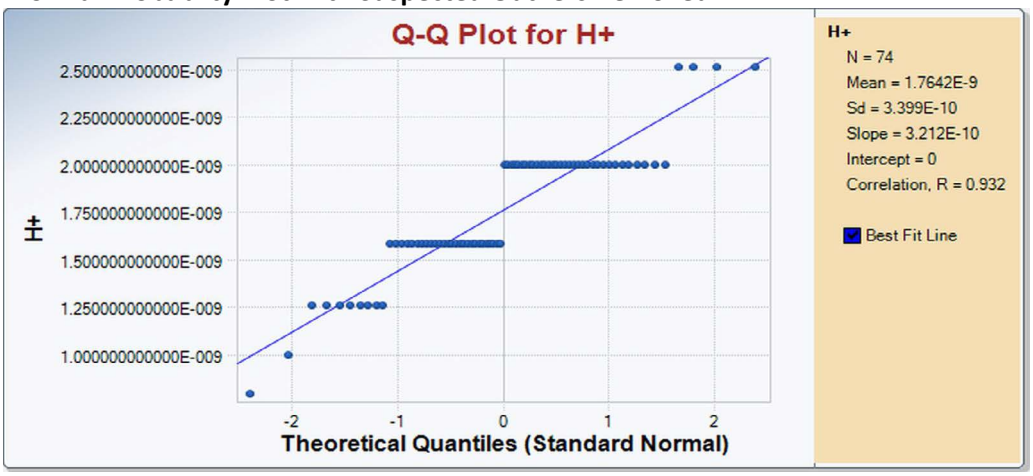
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear; there are two suspected high outliers.
(Note that hydrogen ion concentrations are plotted instead of pH values; accordingly, suspected high outlier H^+ concentrations correspond to suspected low outlier pH values.)

Normal Probabilty Plot with Suspected Outliers Removed



Normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	1.80E-09
Standard deviation	4.05E-10
Number of data	76
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM15	27-May	3.16E-09	3.374	3.29	**Yes**
2	MU1-PM15	10-Jun	3.16E-09	3.663	3.28	**Yes**

* Calculated using hydrogen ion concentrations; 3.16E-09 corresponds to pH 8.5.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	1.76E-09	**Calculated without
Standard deviation**:	3.40E-10	suspected outliers
n**	74	
k	3.0058	
Lower tolerance limit	7.43E-10	
Upper tolerance limit	2.79E-09	

For 5% significance level, there are **two Statistical Outliers: both 3.16E-09 (pH 8.5).**
* Calculated using hydrogen ion concentrations

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

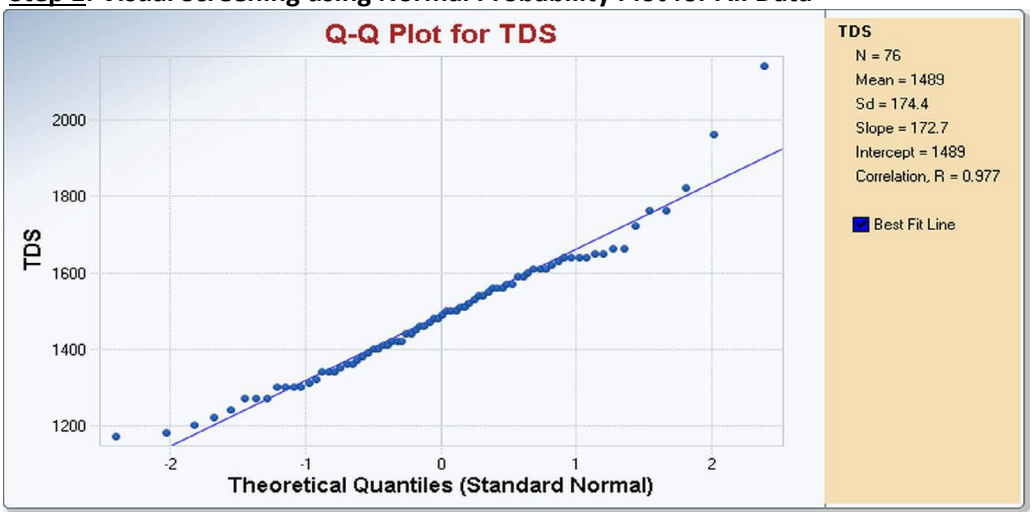
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
8.5	MU1-PM15	**Keep**	Consistent with other results from this well.
8.5	MU1-PM15	**Keep**	Consistent with other results from this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Total Dissolved Solids (TDS) (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	1,600	13-May	1,560	27-May	1,640	10-Jun	1,560
MU1-PM2	27-Apr	1,660	14-May	1,610	28-May	1,640	11-Jun	1,590
MU1-PM3	27-Apr	1,550	14-May	1,370	28-May	1,620	11-Jun	1,400
MU1-PM4	28-Apr	1,500	14-May	1,450	28-May	1,590	11-Jun	1,530
MU1-PM5	28-Apr	1,300	14-May	1,170	28-May	1,300	11-Jun	1,270
MU1-PM6	24-Apr	1,720	14-May	1,360	28-May	1,610	11-Jun	1,610
MU1-PM7	23-Apr	1,570	14-May	1,310	28-May	1,410	11-Jun	1,420
MU1-PM8	27-Apr	1,660	13-May	1,650	27-May	1,640	10-Jun	1,630
MU1-PM9	24-Apr	1,640	13-May	2,140	27-May	1,760	10-Jun	1,650
MU1-PM10	27-Apr	1,760	13-May	1,390	27-May	1,960	10-Jun	1,820
MU1-PM11	28-Apr	1,520	15-May	1,480	29-May	1,340	12-Jun	1,320
MU1-PM12	28-Apr	1,300	13-May	1,220	27-May	1,300	10-Jun	1,270
MU1-PM13	29-Apr	1,270	13-May	1,180	27-May	1,240	10-Jun	1,200
MU1-PM14A	28-Apr	1,440	14-May	1,510	28-May	1,560	11-Jun	1,570
MU1-PM15	28-Apr	1,500	13-May	1,460	27-May	1,540	10-Jun	1,510
MU1-PM16	28-Apr	1,340	15-May	1,360	29-May	1,380	12-Jun	1,350
MU1-PM17	28-Apr	1,470	13-May	1,410	27-May	1,460	10-Jun	1,420
MU1-PM18	28-Apr	1,440	13-May	1,340	27-May	1,420	10-Jun	1,400
MU1-PM19	28-Apr	1,540	15-May	1,500	29-May	1,480	15-Jun	1,490

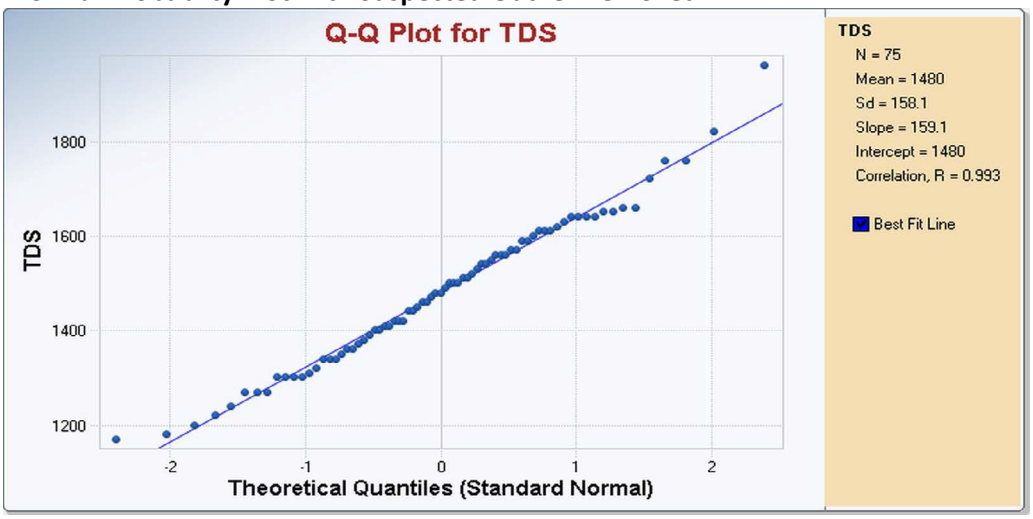
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	1,489
Standard deviation	174.4
Number of data	76
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM9	13-May	2,140	3.759	3.29	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	1,480	*Calculated without
Standard deviation*:	158.1	suspected outlier
n*	75	
k	3.002	
Lower tolerance limit	1,005	
Upper tolerance limit	1,955	

For 5% significance level, there is **one Statistical Outlier: 2,140.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

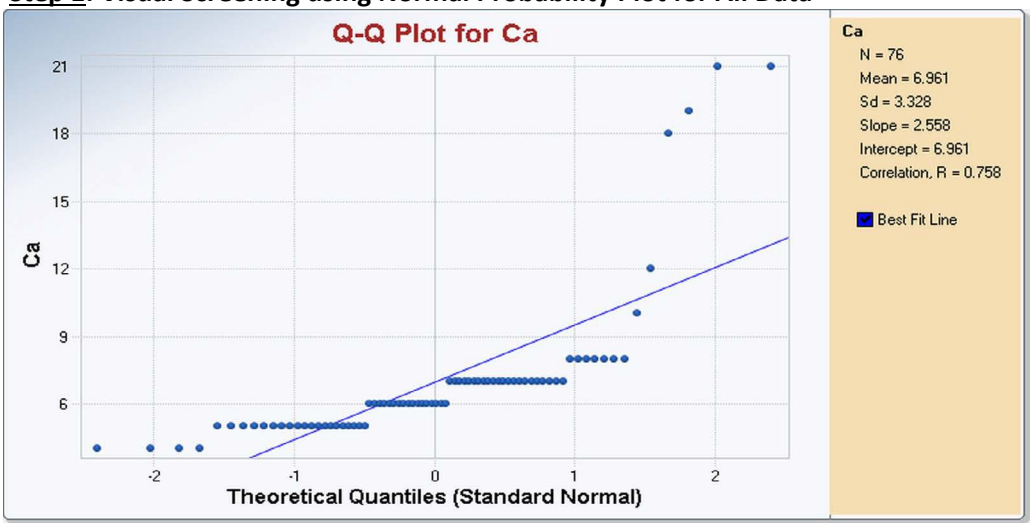
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
2,140	MU1-PM9	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Calcium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	7	13-May	8	27-May	8	10-Jun	8
MU1-PM2	27-Apr	8	14-May	7	28-May	7	11-Jun	7
MU1-PM3	27-Apr	4	14-May	5	28-May	5	11-Jun	5
MU1-PM4	28-Apr	6	14-May	7	28-May	7	11-Jun	7
MU1-PM5	28-Apr	5	14-May	5	28-May	5	11-Jun	5
MU1-PM6	24-Apr	5	14-May	5	28-May	6	11-Jun	6
MU1-PM7	23-Apr	5	14-May	5	28-May	5	11-Jun	5
MU1-PM8	27-Apr	6	13-May	7	27-May	6	10-Jun	7
MU1-PM9	24-Apr	4	13-May	7	27-May	6	10-Jun	7
MU1-PM10	27-Apr	7	13-May	4	27-May	7	10-Jun	8
MU1-PM11	28-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-PM12	28-Apr	6	13-May	6	27-May	6	10-Jun	6
MU1-PM13	29-Apr	6	13-May	5	27-May	6	10-Jun	6
MU1-PM14A	28-Apr	6	14-May	12	28-May	8	11-Jun	10
MU1-PM15	28-Apr	18	13-May	21	27-May	19	10-Jun	21
MU1-PM16	28-Apr	4	15-May	5	29-May	5	12-Jun	6
MU1-PM17	28-Apr	7	13-May	7	27-May	7	10-Jun	8
MU1-PM18	28-Apr	6	13-May	7	27-May	6	10-Jun	7
MU1-PM19	28-Apr	7	15-May	7	29-May	7	15-Jun	7

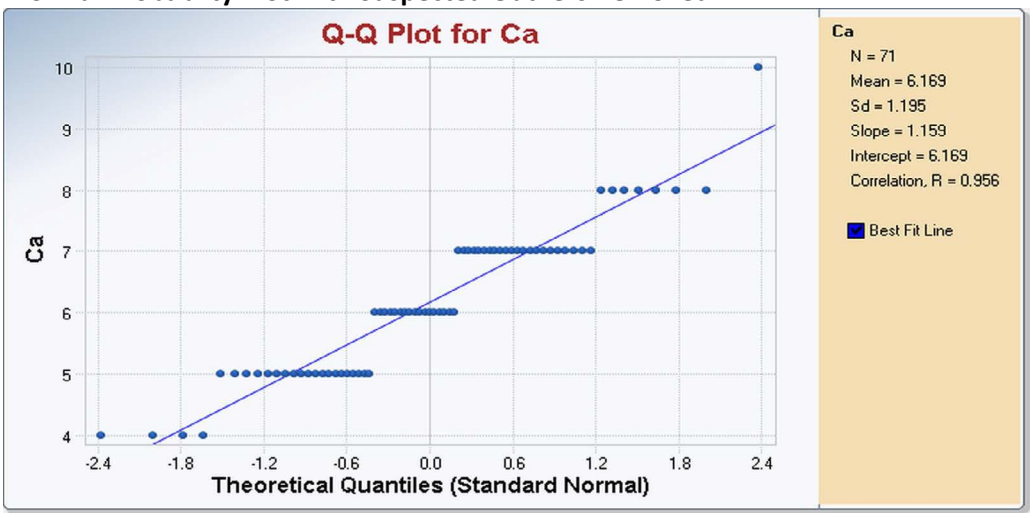
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with five suspected high outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	6.96
Standard deviation	3.33
Number of data	76
Number of suspected outliers	5

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM15	13-May	21	4.246	3.29	**Yes**
2	MU1-PM15	10-Jun	21	4.871	3.28	**Yes**
3	MU1-PM15	27-May	19	5.141	3.28	**Yes**
4	MU1-PM15	28-Apr	18	5.988	3.27	**Yes**
5	MU1-PM14A	14-May	12	4.193	3.27	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	6.17	*Calculated without
Standard deviation*:	1.20	suspected outlier
n*	71	
k	3.0172	
Lower tolerance limit	2.6	
Upper tolerance limit	9.8	

For 5% significance level, there are **six Statistical Outliers: 21, 21, 19, 18, 12, and 10*.**
*Note that 10 was not identified from visual screening but is a statistical outlier according to the WDEQ/LQD Guideline 4 outlier test.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

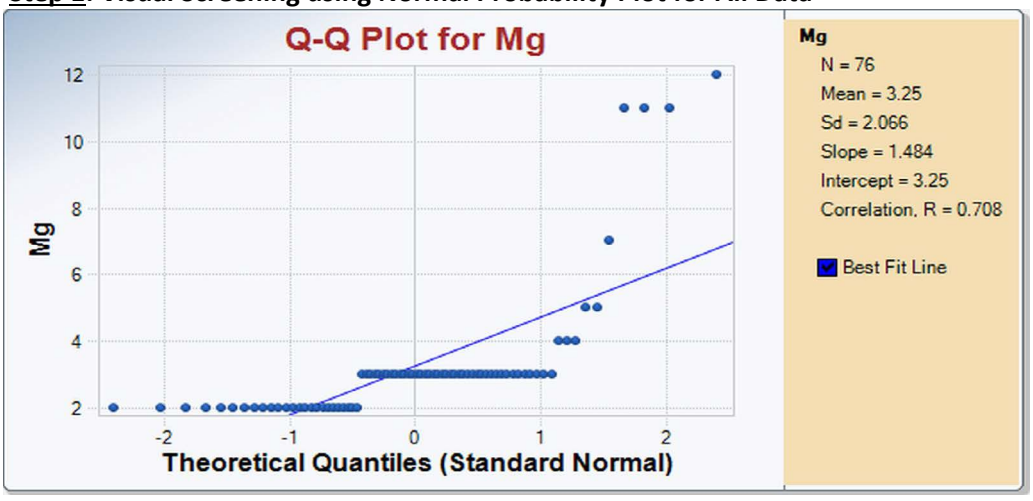
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
21	MU1-PM15	**Keep**	Consistent with other results from this well.
21	MU1-PM15	**Keep**	Consistent with other results from this well.
19	MU1-PM15	**Keep**	Consistent with other results from this well.
18	MU1-PM15	**Keep**	Consistent with other results from this well.
12	MU1-PM14A	**Keep**	Consistent with other results from this well.
10	MU1-PM14A	**Keep**	Consistent with other results from this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Magnesium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-PM2	27-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-PM3	27-Apr	2	14-May	2	28-May	3	11-Jun	2
MU1-PM4	28-Apr	2	14-May	3	28-May	3	11-Jun	3
MU1-PM5	28-Apr	2	14-May	2	28-May	2	11-Jun	2
MU1-PM6	24-Apr	2	14-May	2	28-May	3	11-Jun	3
MU1-PM7	23-Apr	2	14-May	2	28-May	2	11-Jun	2
MU1-PM8	27-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-PM9	24-Apr	2	13-May	4	27-May	3	10-Jun	3
MU1-PM10	27-Apr	3	13-May	2	27-May	4	10-Jun	4
MU1-PM11	28-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-PM12	28-Apr	2	13-May	3	27-May	3	10-Jun	3
MU1-PM13	29-Apr	2	13-May	2	27-May	2	10-Jun	2
MU1-PM14A	28-Apr	3	14-May	7	28-May	5	11-Jun	5
MU1-PM15	28-Apr	11	13-May	12	27-May	11	10-Jun	11
MU1-PM16	28-Apr	3	15-May	3	29-May	3	12-Jun	3
MU1-PM17	28-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-PM18	28-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-PM19	28-Apr	3	15-May	3	29-May	3	15-Jun	3

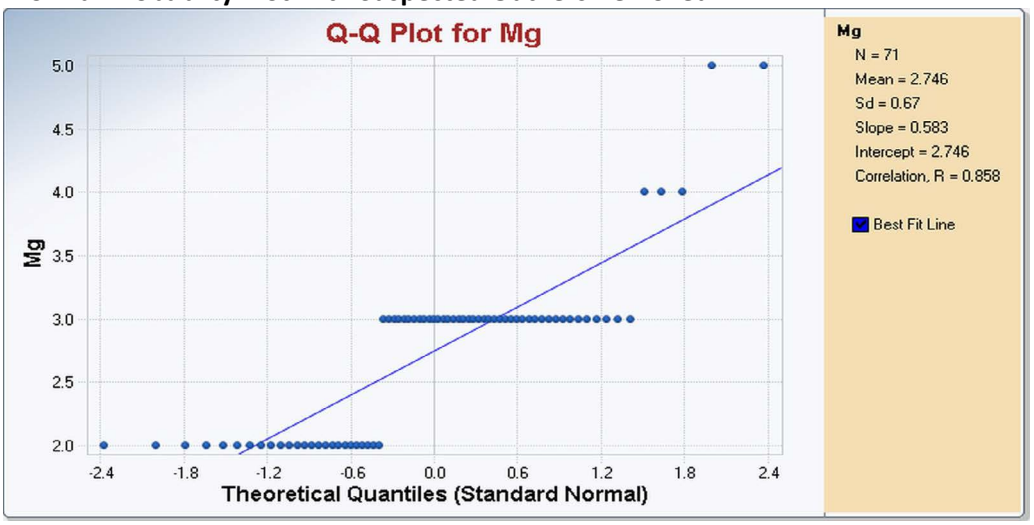
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with five suspected high outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	3.25
Standard deviation	2.07
Number of data	76
Number of suspected outliers	5

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM15	13-May	12	4.263	3.29	**Yes**
2	MU1-PM15	28-Apr	11	4.344	3.28	**Yes**
3	MU1-PM15	27-May	11	5.078	3.28	**Yes**
4	MU1-PM15	10-Jun	11	6.381	3.27	**Yes**
5	MU1-PM14A	14-May	7	5.035	3.27	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	2.75	*Calculated without
Standard deviation*:	0.67	suspected outliers
n*	71	
k	3.0172	
Lower tolerance limit	0.72	
Upper tolerance limit	4.77	

For 5% significance level, there are **seven Statistical Outliers: 12, 11, 11, 11, 7, 5* and 5*.**
*Note the 5 values were not identified from visual screening but are statistical outliers according to the WDEQ/LQD Guideline 4 outlier test.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

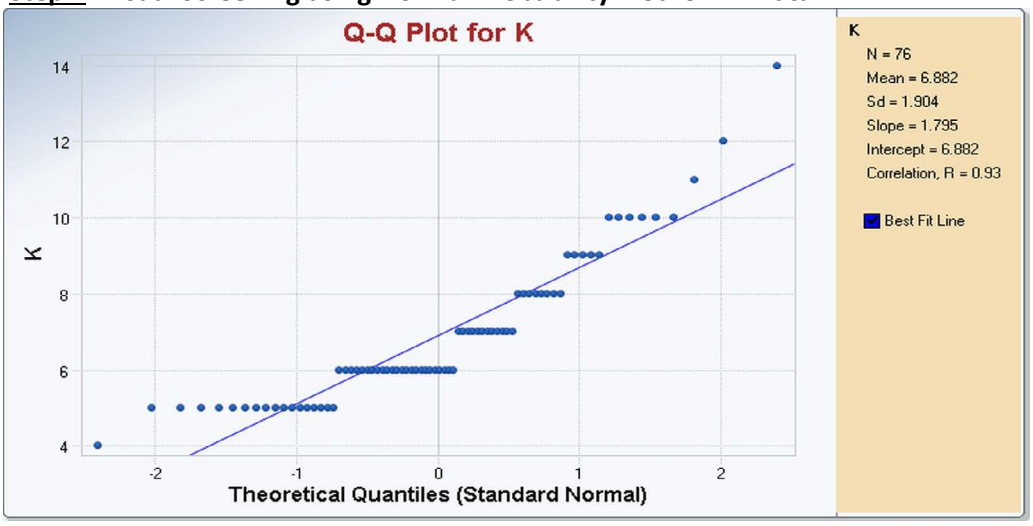
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
12	MU1-PM15	**Keep**	Consistent with other results from this well.
11	MU1-PM15	**Keep**	Consistent with other results from this well.
11	MU1-PM15	**Keep**	Consistent with other results from this well.
11	MU1-PM15	**Keep**	Consistent with other results from this well.
7	MU1-PM14A	**Keep**	Consistent with other results from this well.
5	MU1-PM14A	**Keep**	Consistent with other results from this well.
5	MU1-PM14A	**Keep**	Consistent with other results from this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Potassium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	9	13-May	7	27-May	7	10-Jun	7
MU1-PM2	27-Apr	5	14-May	5	28-May	6	11-Jun	5
MU1-PM3	27-Apr	9	14-May	8	28-May	7	11-Jun	9
MU1-PM4	28-Apr	5	14-May	5	28-May	5	11-Jun	5
MU1-PM5	28-Apr	7	14-May	5	28-May	6	11-Jun	5
MU1-PM6	24-Apr	6	14-May	6	28-May	6	11-Jun	5
MU1-PM7	23-Apr	8	14-May	6	28-May	7	11-Jun	6
MU1-PM8	27-Apr	6	13-May	6	27-May	6	10-Jun	6
MU1-PM9	24-Apr	9	13-May	10	27-May	8	10-Jun	7
MU1-PM10	27-Apr	8	13-May	7	27-May	8	10-Jun	7
MU1-PM11	28-Apr	8	15-May	7	29-May	6	12-Jun	6
MU1-PM12	28-Apr	6	13-May	6	27-May	5	10-Jun	6
MU1-PM13	29-Apr	5	13-May	4	27-May	5	10-Jun	5
MU1-PM14A	28-Apr	10	14-May	8	28-May	8	11-Jun	7
MU1-PM15	28-Apr	11	13-May	9	27-May	10	10-Jun	10
MU1-PM16	28-Apr	14	15-May	12	29-May	10	12-Jun	10
MU1-PM17	28-Apr	7	13-May	6	27-May	6	10-Jun	6
MU1-PM18	28-Apr	6	13-May	5	27-May	5	10-Jun	6
MU1-PM19	28-Apr	6	15-May	5	29-May	6	15-Jun	6

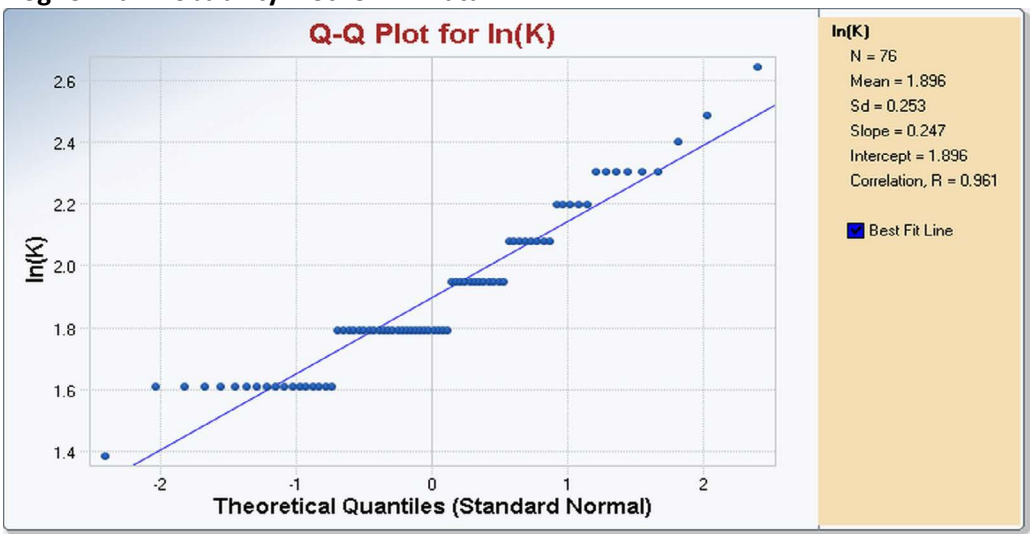
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Lognormal Probability Plot for All Data



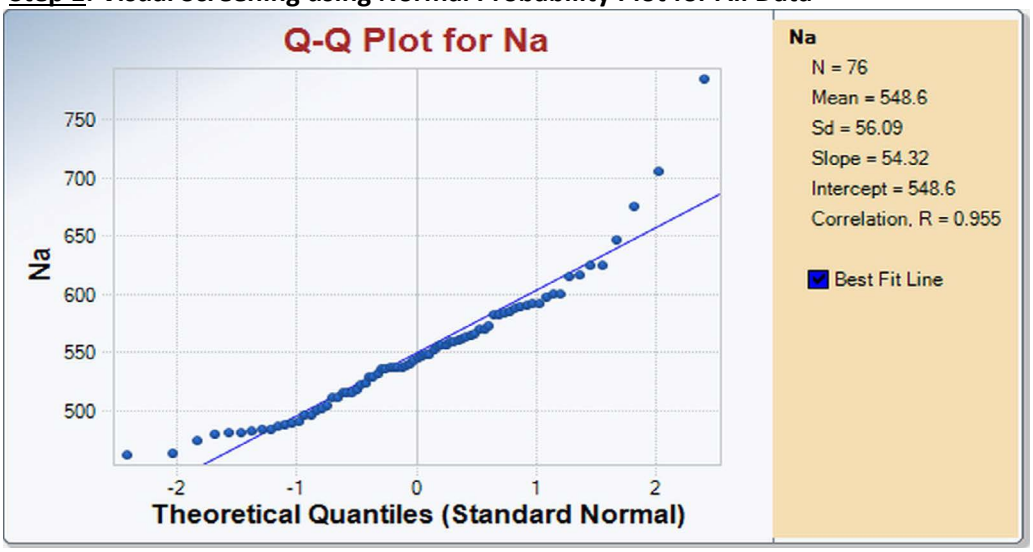
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Sodium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	564	13-May	587	27-May	590	10-Jun	597
MU1-PM2	27-Apr	592	14-May	570	28-May	583	11-Jun	599
MU1-PM3	27-Apr	555	14-May	523	28-May	582	11-Jun	546
MU1-PM4	28-Apr	542	14-May	563	28-May	570	11-Jun	565
MU1-PM5	28-Apr	479	14-May	487	28-May	486	11-Jun	490
MU1-PM6	24-Apr	548	14-May	537	28-May	582	11-Jun	572
MU1-PM7	23-Apr	463	14-May	515	28-May	515	11-Jun	521
MU1-PM8	27-Apr	589	13-May	615	27-May	599	10-Jun	616
MU1-PM9	24-Apr	556	13-May	785	27-May	646	10-Jun	624
MU1-PM10	27-Apr	625	13-May	529	27-May	705	10-Jun	675
MU1-PM11	28-Apr	536	15-May	511	29-May	495	12-Jun	531
MU1-PM12	28-Apr	483	13-May	480	27-May	501	10-Jun	499
MU1-PM13	29-Apr	461	13-May	474	27-May	480	10-Jun	482
MU1-PM14A	28-Apr	495	14-May	561	28-May	537	11-Jun	585
MU1-PM15	28-Apr	503	13-May	517	27-May	538	10-Jun	539
MU1-PM16	28-Apr	483	15-May	510	29-May	488	12-Jun	515
MU1-PM17	28-Apr	536	13-May	551	27-May	560	10-Jun	556
MU1-PM18	28-Apr	529	13-May	548	27-May	535	10-Jun	545
MU1-PM19	28-Apr	558	15-May	591	29-May	535	15-Jun	558

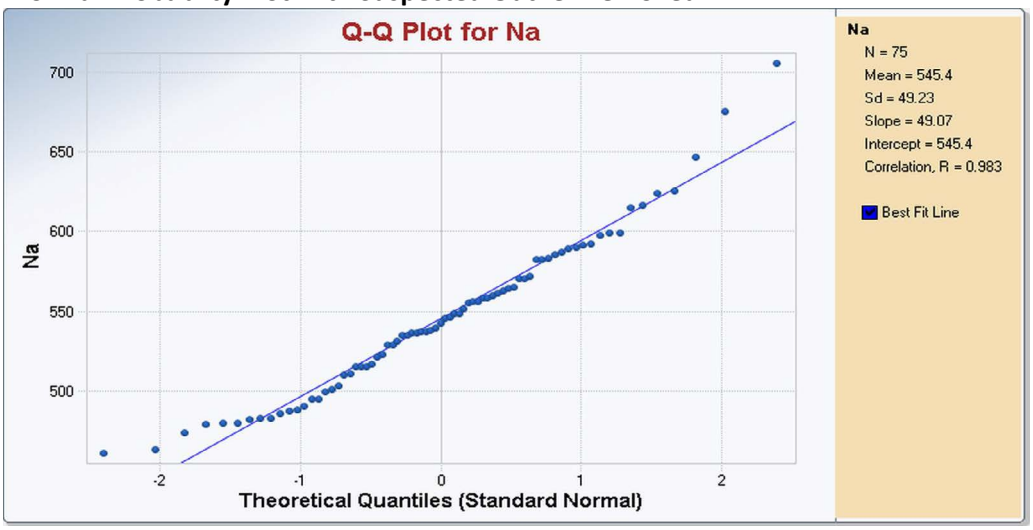
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	548.6
Standard deviation	56.1
Number of data	76
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM9	13-May	785	4.243	3.29	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	545.4	*Calculated without
Standard deviation*:	49.2	suspected outlier
n*	75	
k	3.002	
Lower tolerance limit	398	
Upper tolerance limit	693	

For 5% significance level, there are **two Statistical Outliers: 785 and 705*.**

*Note that 705 was not identified from visual screening but is a statistical outlier according to the WDEQ/LQD Guideline 4 outlier test.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

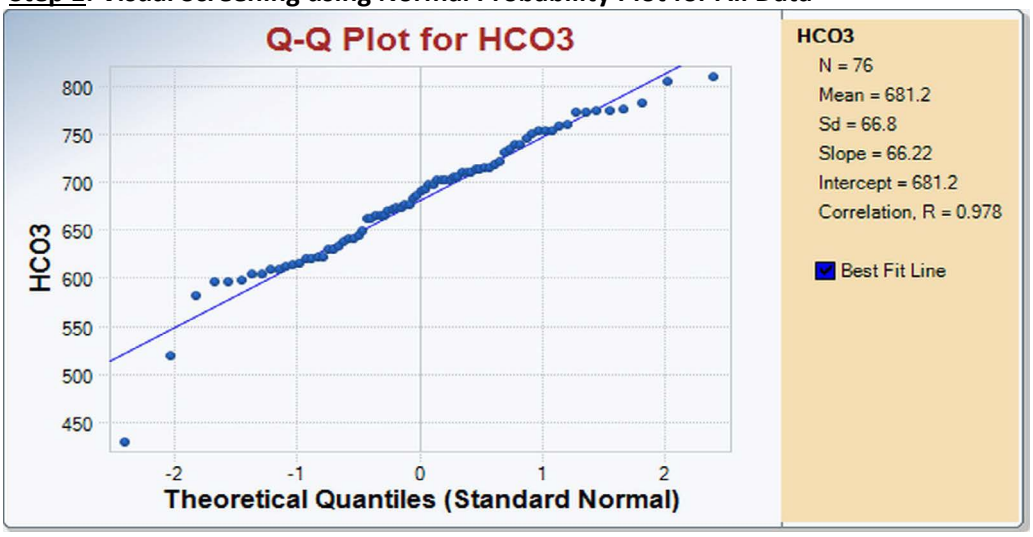
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
785	MU1-PM9	**Remove**	Anomalously high value for this well.
705	MU1-PM10	**Keep**	Conistent with other results from this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Bicarbonate (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	640	13-May	621	27-May	630	10-Jun	702
MU1-PM2	27-Apr	595	14-May	612	28-May	604	11-Jun	620
MU1-PM3	27-Apr	597	14-May	686	28-May	614	11-Jun	697
MU1-PM4	28-Apr	683	14-May	692	28-May	664	11-Jun	715
MU1-PM5	28-Apr	690	14-May	672	28-May	738	11-Jun	772
MU1-PM6	24-Apr	608	14-May	630	28-May	615	11-Jun	713
MU1-PM7	23-Apr	705	14-May	718	28-May	697	11-Jun	712
MU1-PM8	27-Apr	644	13-May	672	27-May	661	10-Jun	676
MU1-PM9	24-Apr	665	13-May	519	27-May	619	10-Jun	676
MU1-PM10	27-Apr	662	13-May	670	27-May	595	10-Jun	641
MU1-PM11	28-Apr	609	15-May	702	29-May	773	12-Jun	730
MU1-PM12	28-Apr	709	13-May	753	27-May	734	10-Jun	745
MU1-PM13	29-Apr	714	13-May	750	27-May	759	10-Jun	774
MU1-PM14A	28-Apr	429	14-May	637	28-May	649	11-Jun	664
MU1-PM15	28-Apr	582	13-May	704	27-May	621	10-Jun	632
MU1-PM16	28-Apr	604	15-May	671	29-May	702	12-Jun	701
MU1-PM17	28-Apr	809	13-May	757	27-May	772	10-Jun	782
MU1-PM18	28-Apr	738	13-May	753	27-May	753	10-Jun	804
MU1-PM19	28-Apr	709	15-May	775	29-May	710	15-Jun	720

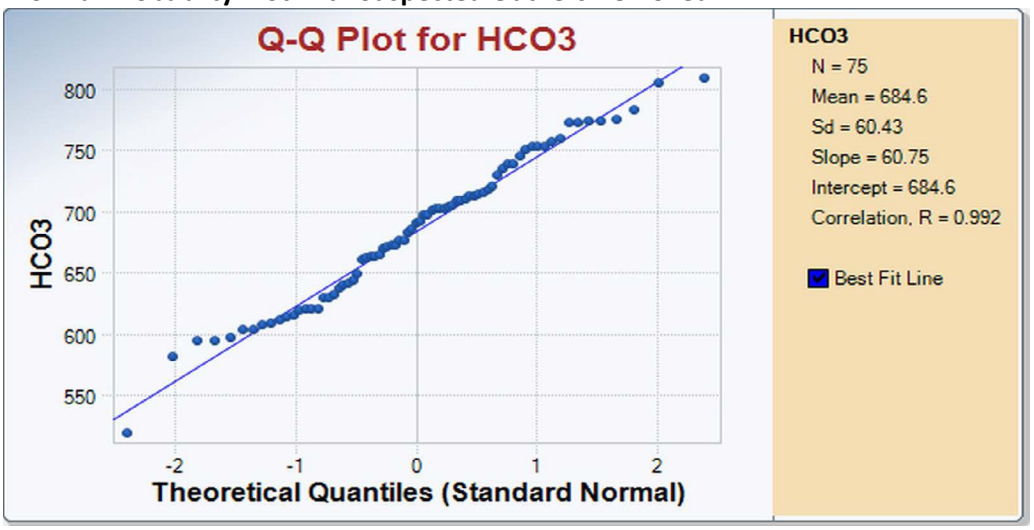
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected low outlier.

Normal Probabilty Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	681.2
Standard deviation	66.8
Number of data	76
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM14A	28-Apr	429	3.801	3.29	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	684.6	*Calculated without
Standard deviation*:	60.4	suspected outlier
n*	75	
k	3.002	
Lower tolerance limit	503	
Upper tolerance limit	866	

For 5% significance level, there is **one Statistical Outlier: 429.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

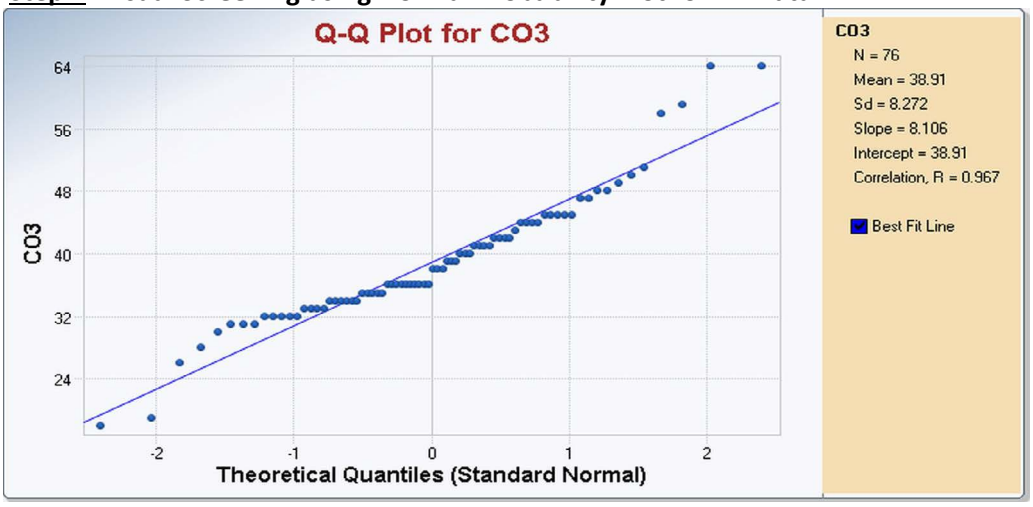
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
429	MU1-PM14A	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Carbonate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	48	13-May	39	27-May	38	10-Jun	34
MU1-PM2	27-Apr	36	14-May	28	28-May	36	11-Jun	32
MU1-PM3	27-Apr	43	14-May	45	28-May	35	11-Jun	45
MU1-PM4	28-Apr	32	14-May	40	28-May	36	11-Jun	36
MU1-PM5	28-Apr	41	14-May	44	28-May	45	11-Jun	42
MU1-PM6	24-Apr	32	14-May	51	28-May	33	11-Jun	36
MU1-PM7	23-Apr	49	14-May	45	28-May	47	11-Jun	44
MU1-PM8	27-Apr	44	13-May	31	27-May	33	10-Jun	34
MU1-PM9	24-Apr	47	13-May	35	27-May	32	10-Jun	30
MU1-PM10	27-Apr	45	13-May	64	27-May	34	10-Jun	36
MU1-PM11	28-Apr	48	15-May	42	29-May	41	12-Jun	42
MU1-PM12	28-Apr	35	13-May	39	27-May	31	10-Jun	34
MU1-PM13	29-Apr	64	13-May	40	27-May	36	10-Jun	38
MU1-PM14A	28-Apr	59	14-May	35	28-May	40	11-Jun	42
MU1-PM15	28-Apr	39	13-May	26	27-May	18	10-Jun	19
MU1-PM16	28-Apr	41	15-May	58	29-May	44	12-Jun	50
MU1-PM17	28-Apr	35	13-May	38	27-May	31	10-Jun	33
MU1-PM18	28-Apr	41	13-May	34	27-May	32	10-Jun	36
MU1-PM19	28-Apr	34	15-May	36	29-May	36	15-Jun	33

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



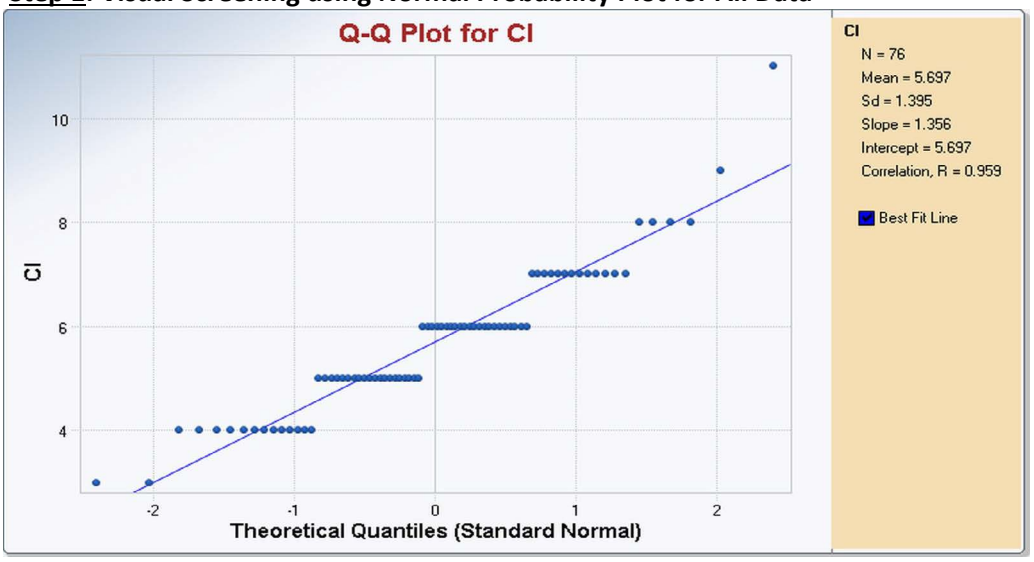
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Choride (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	7	13-May	7	27-May	6	10-Jun	6
MU1-PM2	27-Apr	7	14-May	6	28-May	6	11-Jun	5
MU1-PM3	27-Apr	6	14-May	5	28-May	6	11-Jun	5
MU1-PM4	28-Apr	7	14-May	6	28-May	6	11-Jun	6
MU1-PM5	28-Apr	6	14-May	4	28-May	4	11-Jun	4
MU1-PM6	24-Apr	6	14-May	6	28-May	6	11-Jun	7
MU1-PM7	23-Apr	6	14-May	5	28-May	5	11-Jun	4
MU1-PM8	27-Apr	6	13-May	7	27-May	6	10-Jun	6
MU1-PM9	24-Apr	7	13-May	11	27-May	8	10-Jun	6
MU1-PM10	27-Apr	8	13-May	5	27-May	9	10-Jun	7
MU1-PM11	28-Apr	7	15-May	4	29-May	4	12-Jun	4
MU1-PM12	28-Apr	5	13-May	4	27-May	5	10-Jun	4
MU1-PM13	29-Apr	4	13-May	4	27-May	3	10-Jun	3
MU1-PM14A	28-Apr	7	14-May	6	28-May	5	11-Jun	5
MU1-PM15	28-Apr	8	13-May	7	27-May	8	10-Jun	7
MU1-PM16	28-Apr	6	15-May	5	29-May	5	12-Jun	5
MU1-PM17	28-Apr	6	13-May	5	27-May	5	10-Jun	4
MU1-PM18	28-Apr	6	13-May	5	27-May	5	10-Jun	4
MU1-PM19	28-Apr	7	15-May	5	29-May	5	15-Jun	5

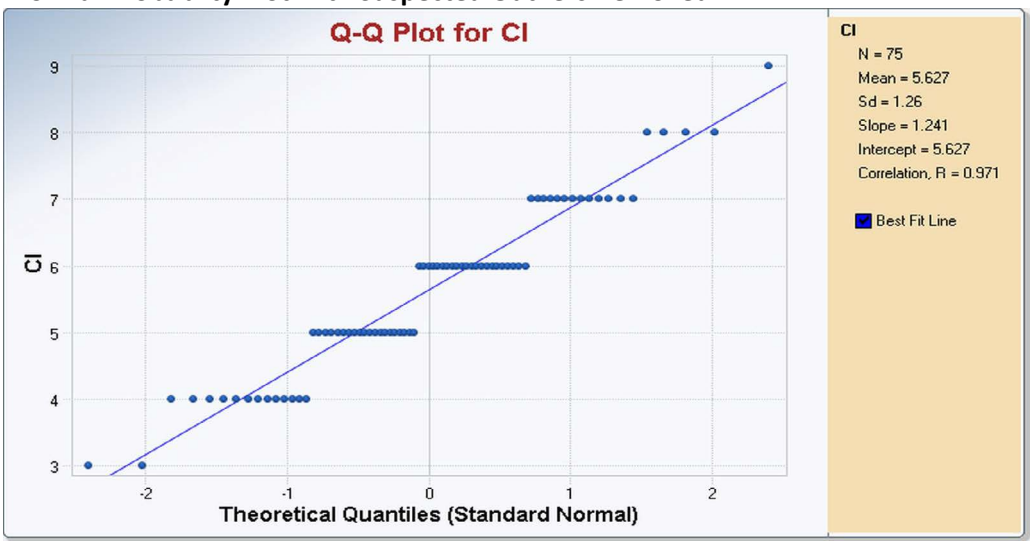
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	5.70
Standard deviation	1.40
Number of data	76
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM9	13-May	11	3.825	3.29	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	5.63	*Calculated without
Standard deviation*:	1.26	suspected outlier
n*	75	
k	3.002	
Lower tolerance limit	1.8	
Upper tolerance limit	9.4	

For 5% significance level, there is **one Statistical Outlier: 11.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

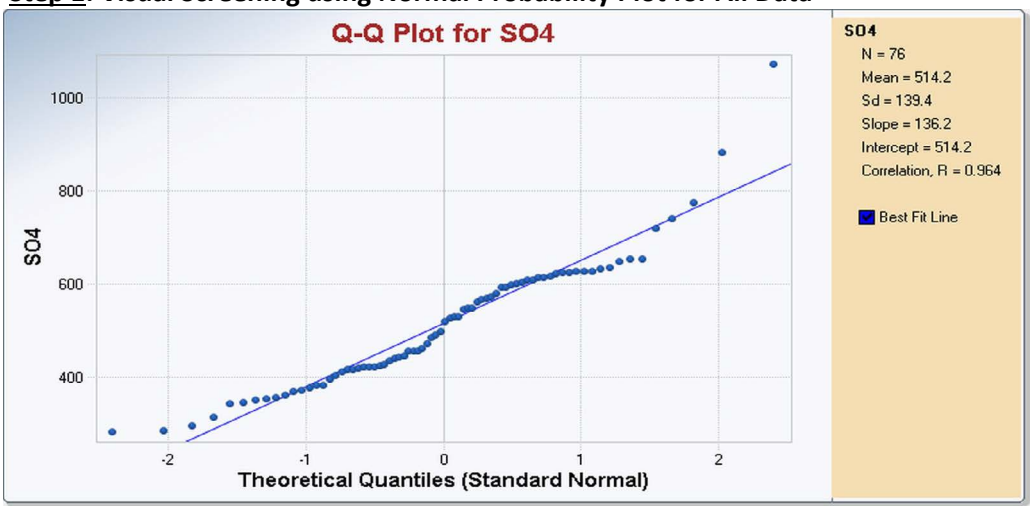
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
11	MU1-PM9	**Keep**	Consistent with other results from this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Sulfate (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	608	13-May	609	27-May	597	10-Jun	614
MU1-PM2	27-Apr	652	14-May	617	28-May	628	11-Jun	631
MU1-PM3	27-Apr	548	14-May	418	28-May	600	11-Jun	439
MU1-PM4	28-Apr	519	14-May	527	28-May	545	11-Jun	529
MU1-PM5	28-Apr	372	14-May	346	28-May	344	11-Jun	353
MU1-PM6	24-Apr	625	14-May	457	28-May	628	11-Jun	593
MU1-PM7	23-Apr	383	14-May	369	28-May	411	11-Jun	446
MU1-PM8	27-Apr	571	13-May	654	27-May	626	10-Jun	636
MU1-PM9	24-Apr	604	13-May	1,070	27-May	739	10-Jun	648
MU1-PM10	27-Apr	719	13-May	472	27-May	882	10-Jun	773
MU1-PM11	28-Apr	580	15-May	402	29-May	383	12-Jun	395
MU1-PM12	28-Apr	376	13-May	360	27-May	352	10-Jun	356
MU1-PM13	29-Apr	315	13-May	281	27-May	285	10-Jun	295
MU1-PM14A	28-Apr	621	14-May	561	28-May	568	11-Jun	567
MU1-PM15	28-Apr	623	13-May	549	27-May	593	10-Jun	614
MU1-PM16	28-Apr	461	15-May	427	29-May	421	12-Jun	421
MU1-PM17	28-Apr	455	13-May	417	27-May	435	10-Jun	443
MU1-PM18	28-Apr	455	13-May	421	27-May	417	10-Jun	425
MU1-PM19	28-Apr	530	15-May	499	29-May	486	15-Jun	490

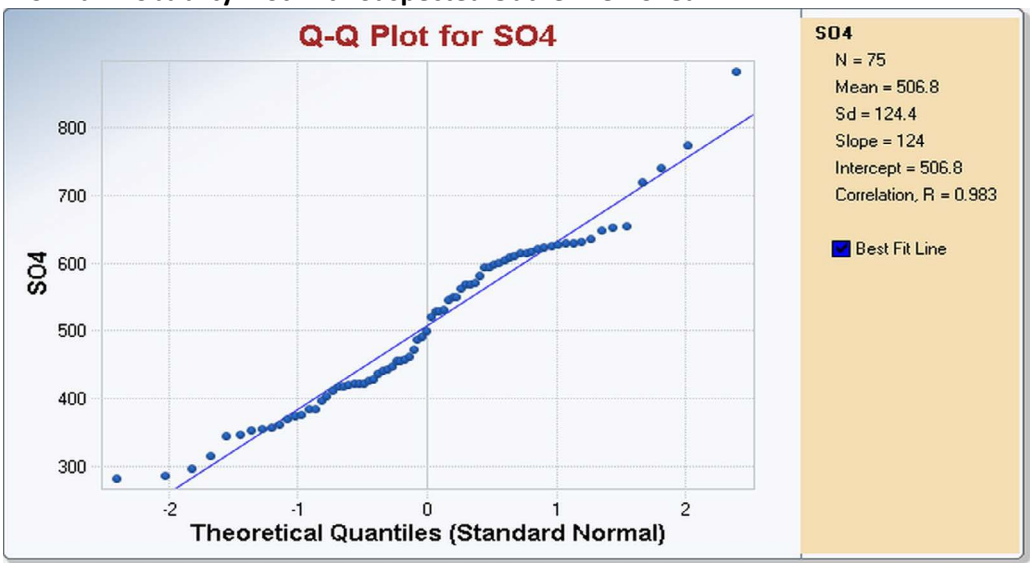
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	514.2
Standard deviation	139.4
Number of data	76
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM9	13-May	1,070	4.013	3.29	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	506.8	*Calculated without
Standard deviation*:	124.4	suspected outlier
n*	75	
k	3.002	
Lower tolerance limit	133	
Upper tolerance limit	880	

For 5% significance level, there are two **Statistical Outliers: 1,070 and 882*.**
*Note that 882 was not identified from visual screening but is a statistical outlier according to the WDEQ/LQD Guideline 4 outlier test.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
1,070	MU1-PM9	**Remove**	Anomalously high value for this well.
882	MU1-PM10	**Keep**	Consistent with other results from this well; inconclusive statistical test results*.

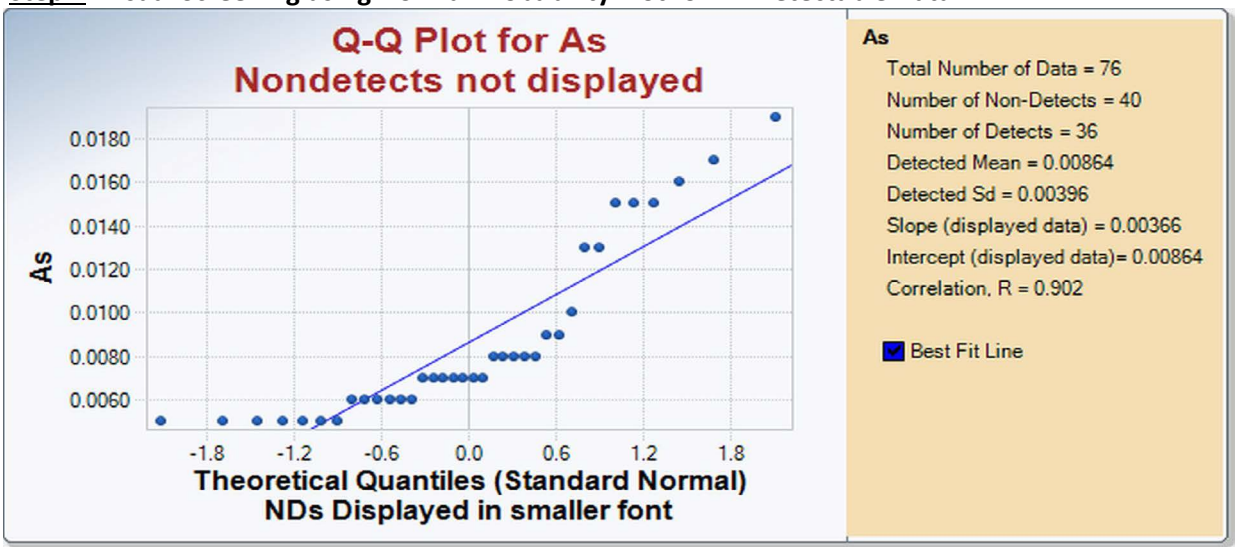
* Rosner's test was repeated for two potential outliers, and it was determined that 882 is not a statistical outlier at a 95% confidence level.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Arsenic (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-PM2	27-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-PM3	27-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-PM4	28-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-PM5	28-Apr	0.005	14-May	0.007	28-May	<0.005	11-Jun	0.007
MU1-PM6	24-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-PM7	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-PM8	27-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-PM9	24-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-PM10	27-Apr	0.006	13-May	0.013	27-May	0.007	10-Jun	0.007
MU1-PM11	28-Apr	0.008	15-May	0.007	29-May	0.007	12-Jun	0.007
MU1-PM12	28-Apr	0.006	13-May	0.006	27-May	0.005	10-Jun	0.006
MU1-PM13	29-Apr	0.013	13-May	0.017	27-May	0.015	10-Jun	0.019
MU1-PM14A	28-Apr	<0.005	14-May	<0.005	28-May	0.008	11-Jun	0.010
MU1-PM15	28-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-PM16	28-Apr	0.009	15-May	0.015	29-May	0.015	12-Jun	0.016
MU1-PM17	28-Apr	0.005	13-May	<0.005	27-May	0.005	10-Jun	0.005
MU1-PM18	28-Apr	0.008	13-May	0.008	27-May	0.009	10-Jun	0.008
MU1-PM19	28-Apr	0.005	15-May	0.005	29-May	0.006	15-Jun	0.006

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



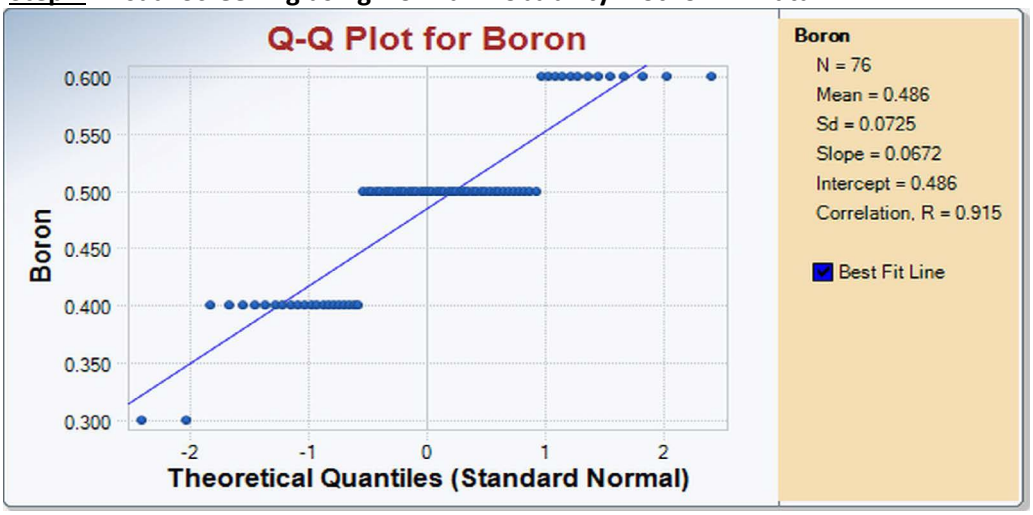
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Boron (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	0.5	13-May	0.5	27-May	0.5	10-Jun	0.5
MU1-PM2	27-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.5
MU1-PM3	27-Apr	0.5	14-May	0.6	28-May	0.5	11-Jun	0.5
MU1-PM4	28-Apr	0.5	14-May	0.6	28-May	0.5	11-Jun	0.5
MU1-PM5	28-Apr	0.5	14-May	0.6	28-May	0.5	11-Jun	0.6
MU1-PM6	24-Apr	0.4	14-May	0.6	28-May	0.4	11-Jun	0.5
MU1-PM7	23-Apr	0.5	14-May	0.6	28-May	0.5	11-Jun	0.5
MU1-PM8	27-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-PM9	24-Apr	0.4	13-May	0.4	27-May	0.4	10-Jun	0.4
MU1-PM10	27-Apr	0.4	13-May	0.5	27-May	0.4	10-Jun	0.5
MU1-PM11	28-Apr	0.4	15-May	0.5	29-May	0.5	12-Jun	0.5
MU1-PM12	28-Apr	0.4	13-May	0.5	27-May	0.4	10-Jun	0.5
MU1-PM13	29-Apr	0.5	13-May	0.5	27-May	0.5	10-Jun	0.5
MU1-PM14A	28-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.5
MU1-PM15	28-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-PM16	28-Apr	0.5	15-May	0.6	29-May	0.5	12-Jun	0.5
MU1-PM17	28-Apr	0.5	13-May	0.5	27-May	0.5	10-Jun	0.6
MU1-PM18	28-Apr	0.6	13-May	0.6	27-May	0.5	10-Jun	0.6
MU1-PM19	28-Apr	0.6	15-May	0.6	29-May	0.5	15-Jun	0.5

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



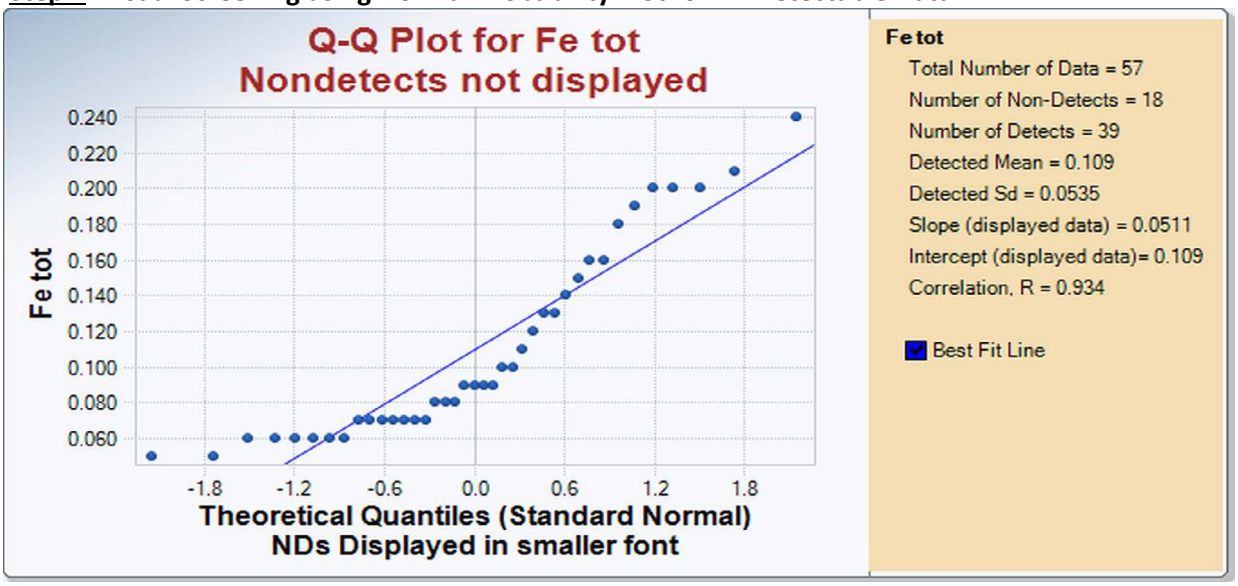
Normality assumption is reasonable with no suspected outliers; no need for formal testing. (Relatively low linear correlation is attributed to data precision.)

Monitoring Interval: **Perimeter (PM)**
Parameter: **Iron, Total (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	0.19	13-May	0.05	27-May	<0.05		
MU1-PM2	27-Apr	0.16	14-May	0.16	28-May	0.07		
MU1-PM3	27-Apr	0.06	14-May	0.18	28-May	<0.05		
MU1-PM4	28-Apr	<0.05	14-May	0.06	28-May	<0.05		
MU1-PM5	28-Apr	<0.05	14-May	0.08	28-May	<0.05		
MU1-PM6	24-Apr	0.09	14-May	<0.05	28-May	0.08		
MU1-PM7	23-Apr	<0.05	14-May	<0.05	28-May	<0.05		
MU1-PM8	27-Apr	<0.05	13-May	<0.05	27-May	<0.05		
MU1-PM9	24-Apr	0.09	13-May	<0.05	27-May	<0.05		
MU1-PM10	27-Apr	0.10	13-May	<0.05	27-May	<0.05	Not measured	
MU1-PM11	28-Apr	0.06	15-May	0.07	29-May	0.13		
MU1-PM12	28-Apr	0.12	13-May	0.06	27-May	0.06		
MU1-PM13	29-Apr	0.07	13-May	0.11	27-May	0.09		
MU1-PM14A	28-Apr	0.21	14-May	0.14	28-May	0.10		
MU1-PM15	28-Apr	0.20	13-May	0.24	27-May	0.20		
MU1-PM16	28-Apr	0.20	15-May	<0.05	29-May	0.06		
MU1-PM17	28-Apr	0.07	13-May	0.07	27-May	0.07		
MU1-PM18	28-Apr	0.15	13-May	0.09	27-May	0.07		
MU1-PM19	28-Apr	0.05	15-May	0.13	29-May	0.08		

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



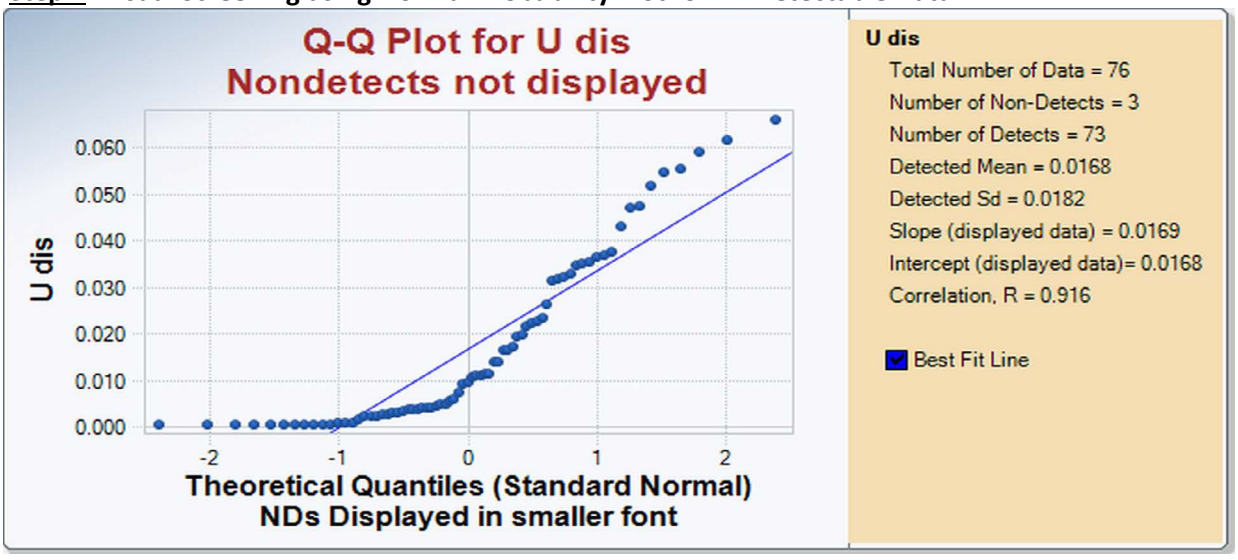
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Uranium, Dissolved (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	0.0073	13-May	0.0110	27-May	0.0198	10-Jun	0.0165
MU1-PM2	27-Apr	0.0263	14-May	0.0165	28-May	0.0226	11-Jun	0.0172
MU1-PM3	27-Apr	0.0234	14-May	0.0050	28-May	0.0314	11-Jun	0.0091
MU1-PM4	28-Apr	0.0031	14-May	0.0040	28-May	0.0056	11-Jun	0.0048
MU1-PM5	28-Apr	0.0028	14-May	0.0004	28-May	0.0112	11-Jun	0.0010
MU1-PM6	24-Apr	0.0547	14-May	0.0216	28-May	0.0517	11-Jun	0.0471
MU1-PM7	23-Apr	0.0115	14-May	0.0037	28-May	0.0140	11-Jun	0.0327
MU1-PM8	27-Apr	0.0588	13-May	0.0554	27-May	0.0615	10-Jun	0.0660
MU1-PM9	24-Apr	0.0473	13-May	0.0194	27-May	0.0364	10-Jun	0.0429
MU1-PM10	27-Apr	0.0375	13-May	0.0060	27-May	0.0221	10-Jun	0.0322
MU1-PM11	28-Apr	0.0110	15-May	0.0041	29-May	0.0023	12-Jun	0.0029
MU1-PM12	28-Apr	0.0004	13-May	0.0004	27-May	0.0003	10-Jun	0.0004
MU1-PM13	29-Apr	0.0034	13-May	0.0023	27-May	0.0022	10-Jun	0.0027
MU1-PM14A	28-Apr	0.0039	14-May	0.0045	28-May	0.0037	11-Jun	0.0040
MU1-PM15	28-Apr	0.0346	13-May	0.0350	27-May	0.0354	10-Jun	0.0369
MU1-PM16	28-Apr	0.0316	15-May	0.0138	29-May	0.0108	12-Jun	0.0094
MU1-PM17	28-Apr	0.0015	13-May	0.0005	27-May	0.0005	10-Jun	0.0004
MU1-PM18	28-Apr	0.0009	13-May	0.0003	27-May	<0.0003	10-Jun	<0.0003
MU1-PM19	28-Apr	0.0005	15-May	<0.0003	29-May	0.0003	15-Jun	0.0008

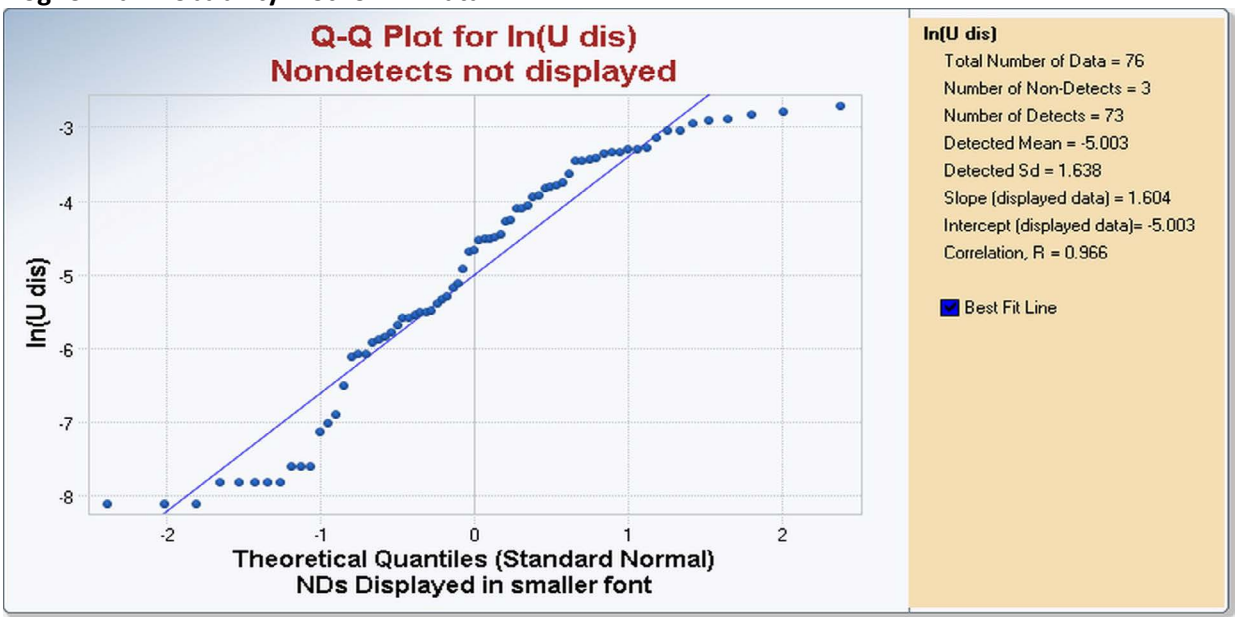
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



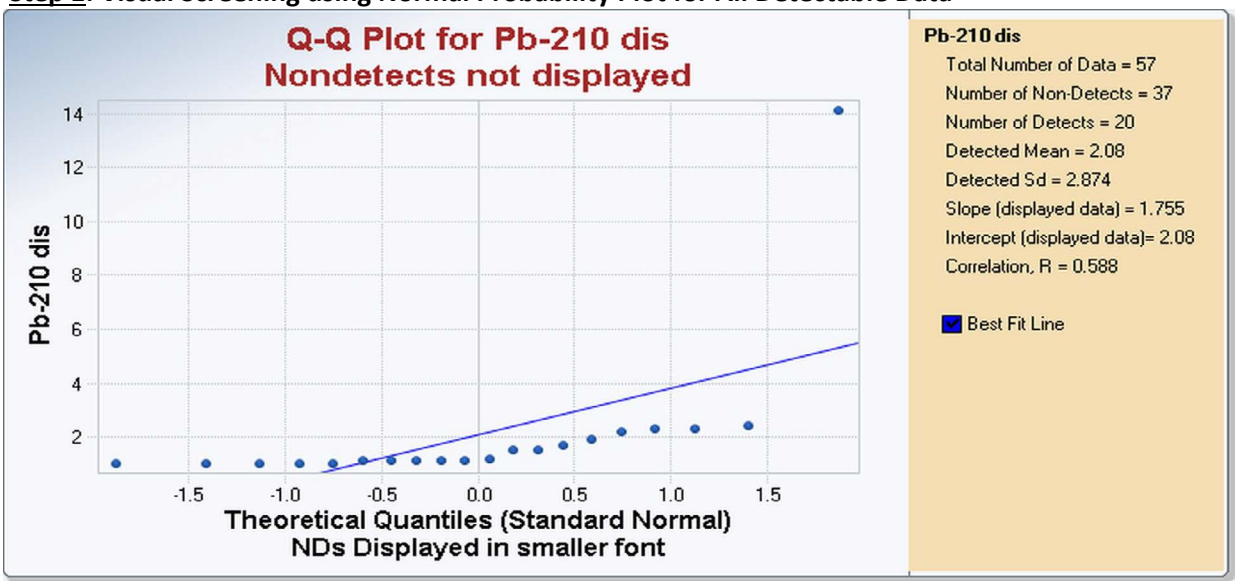
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Lead-210, Dissolved (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	1.1	13-May	<1	27-May	1.1		
MU1-PM2	27-Apr	<1	14-May	<1	28-May	1.5		
MU1-PM3	27-Apr	<1	14-May	<1	28-May	<1		
MU1-PM4	28-Apr	<1	14-May	<1	28-May	1		
MU1-PM5	28-Apr	<1	14-May	<1	28-May	<1		
MU1-PM6	24-Apr	<1	14-May	<1	28-May	1.7		
MU1-PM7	23-Apr	14.1	14-May	<1	28-May	<1		
MU1-PM8	27-Apr	1	13-May	1.1	27-May	2.2		
MU1-PM9	24-Apr	1.1	13-May	<1	27-May	<1		
MU1-PM10	27-Apr	<1	13-May	<1	27-May	1	Not measured	
MU1-PM11	28-Apr	<1	15-May	1.5	29-May	<1		
MU1-PM12	28-Apr	2.3	13-May	<1	27-May	<1		
MU1-PM13	29-Apr	<1	13-May	1	27-May	<1		
MU1-PM14A	28-Apr	<1	14-May	1.1	28-May	<1		
MU1-PM15	28-Apr	2.4	13-May	1.9	27-May	<1		
MU1-PM16	28-Apr	<1	15-May	<1	29-May	<1		
MU1-PM17	28-Apr	1	13-May	<1	27-May	2.3		
MU1-PM18	28-Apr	1.2	13-May	<1	27-May	<1		
MU1-PM19	28-Apr	<1	15-May	<1	29-May	<1		

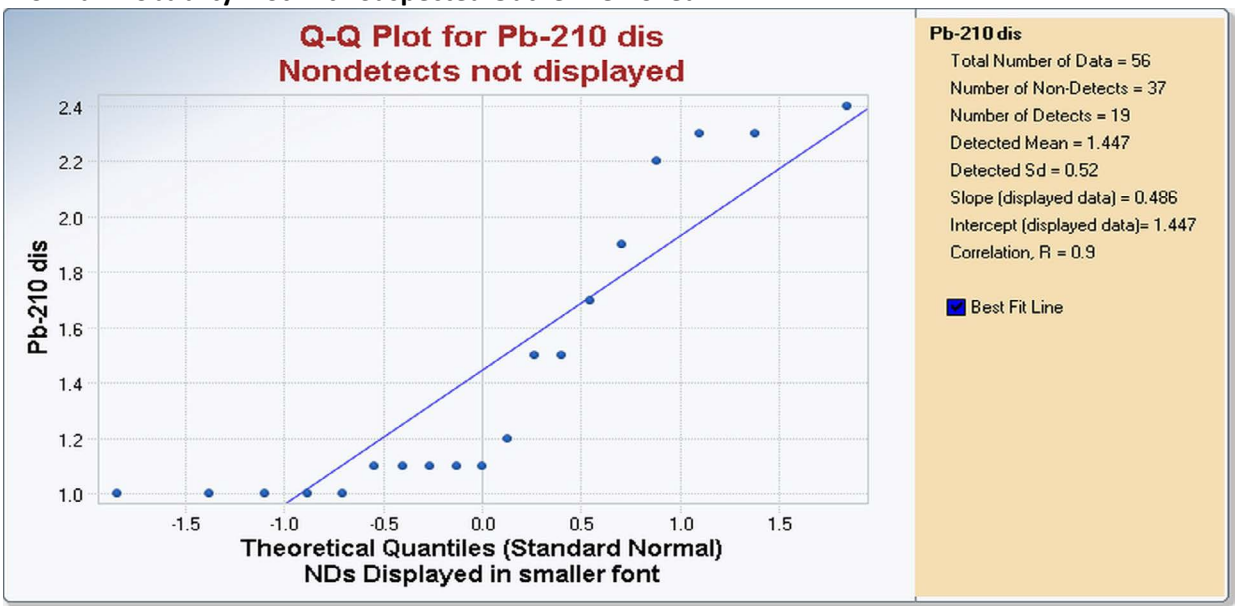
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Dixon's Test (Excluding Non-Detects) (α = 0.05, Calculated using ProUCL)

Number of detectable values	20
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM7	23-Apr	14.1	0.901	0.450	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	1.45
Standard deviation*:	0.52
n*	19
k	3.656
Lower tolerance limit	-0.45
Upper tolerance limit	3.35

*Calculated without suspected outlier using detectable concentrations

For 5% significance level, there is one **Statistical Outlier: 14.1.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

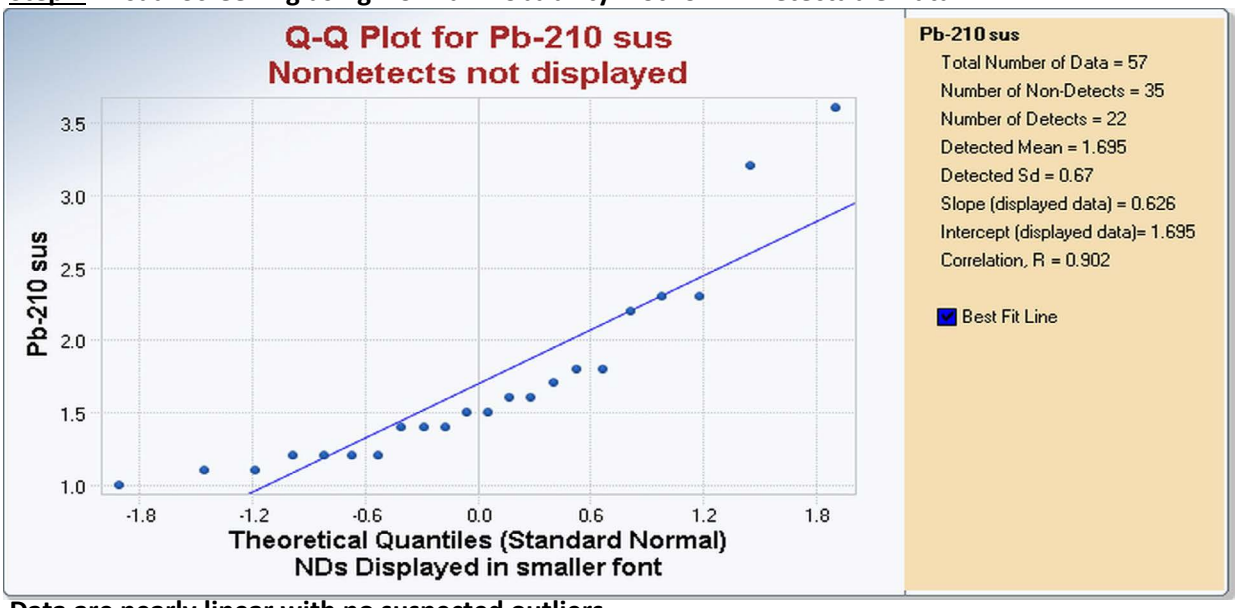
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
14.1	MU1-PM7	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Lead-210, Suspended (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	<1	13-May	1.5	27-May	1.6		
MU1-PM2	27-Apr	<1	14-May	<1	28-May	<1		
MU1-PM3	27-Apr	<1	14-May	<1	28-May	<1		
MU1-PM4	28-Apr	1.8	14-May	<1	28-May	<1		
MU1-PM5	28-Apr	3.2	14-May	<1	28-May	1.2		
MU1-PM6	24-Apr	2.3	14-May	1.1	28-May	1		
MU1-PM7	23-Apr	<1	14-May	1.4	28-May	<1		
MU1-PM8	27-Apr	<1	13-May	1.7	27-May	<1		
MU1-PM9	24-Apr	2.2	13-May	1.8	27-May	<1		
MU1-PM10	27-Apr	<1	13-May	<1	27-May	<1	Not measured	
MU1-PM11	28-Apr	<1	15-May	1.1	29-May	1.4		
MU1-PM12	28-Apr	<1	13-May	<1	27-May	<1		
MU1-PM13	29-Apr	1.2	13-May	2.3	27-May	<1		
MU1-PM14A	28-Apr	<1	14-May	<1	28-May	1.2		
MU1-PM15	28-Apr	<1	13-May	3.6	27-May	1.4		
MU1-PM16	28-Apr	1.5	15-May	<1	29-May	1.6		
MU1-PM17	28-Apr	<1	13-May	1.2	27-May	<1		
MU1-PM18	28-Apr	<1	13-May	<1	27-May	<1		
MU1-PM19	28-Apr	<1	15-May	<1	29-May	<1		

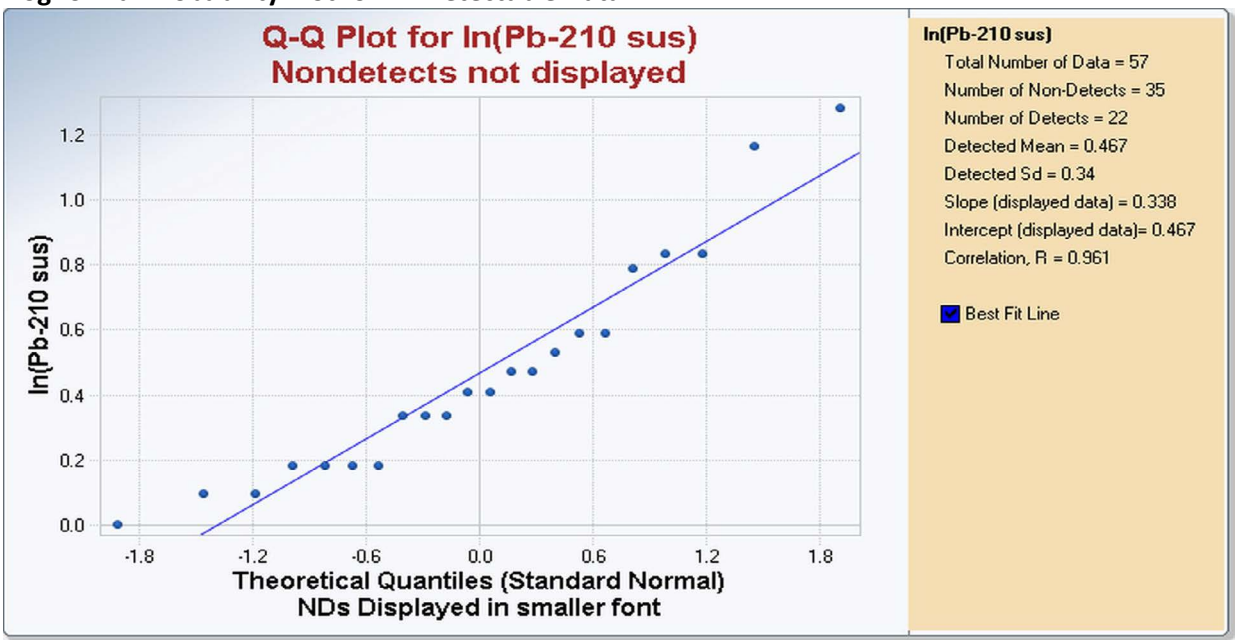
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with no suspected outliers.

Lognormal Probability Plot for All Detectable Data



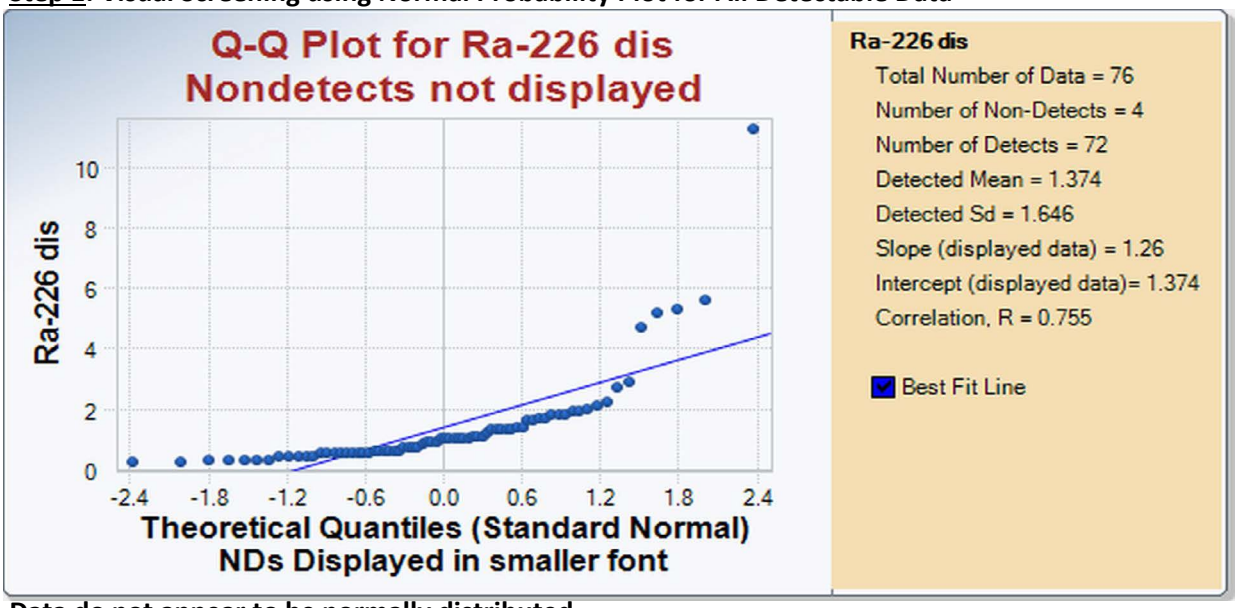
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Radium-226, Dissolved (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	1.2	13-May	2.1	27-May	1.9	10-Jun	2.7
MU1-PM2	27-Apr	1.8	14-May	1.4	28-May	1.0	11-Jun	0.7
MU1-PM3	27-Apr	0.6	14-May	2.2	28-May	0.7	11-Jun	0.5
MU1-PM4	28-Apr	0.5	14-May	0.4	28-May	0.5	11-Jun	0.5
MU1-PM5	28-Apr	0.3	14-May	1.0	28-May	0.3	11-Jun	0.3
MU1-PM6	24-Apr	0.9	14-May	0.9	28-May	1.0	11-Jun	0.6
MU1-PM7	23-Apr	0.4	14-May	0.6	28-May	0.5	11-Jun	1.0
MU1-PM8	27-Apr	1.3	13-May	1.3	27-May	1.7	10-Jun	1.3
MU1-PM9	24-Apr	1.0	13-May	1.1	27-May	1.1	10-Jun	1.3
MU1-PM10	27-Apr	1.9	13-May	0.9	27-May	1.4	10-Jun	1.6
MU1-PM11	28-Apr	0.7	15-May	0.5	29-May	2.0	12-Jun	1.7
MU1-PM12	28-Apr	<0.2	13-May	0.5	27-May	0.2	10-Jun	<0.2
MU1-PM13	29-Apr	<0.2	13-May	0.8	27-May	0.5	10-Jun	0.4
MU1-PM14A	28-Apr	1.8	14-May	2.9	28-May	11.3	11-Jun	1.8
MU1-PM15	28-Apr	4.7	13-May	5.2	27-May	5.3	10-Jun	5.6
MU1-PM16	28-Apr	1.1	15-May	1.0	29-May	1.6	12-Jun	1.3
MU1-PM17	28-Apr	0.5	13-May	0.4	27-May	0.6	10-Jun	0.4
MU1-PM18	28-Apr	0.3	13-May	0.6	27-May	0.7	10-Jun	0.3
MU1-PM19	28-Apr	0.2	15-May	1.0	29-May	<0.2	15-Jun	0.6

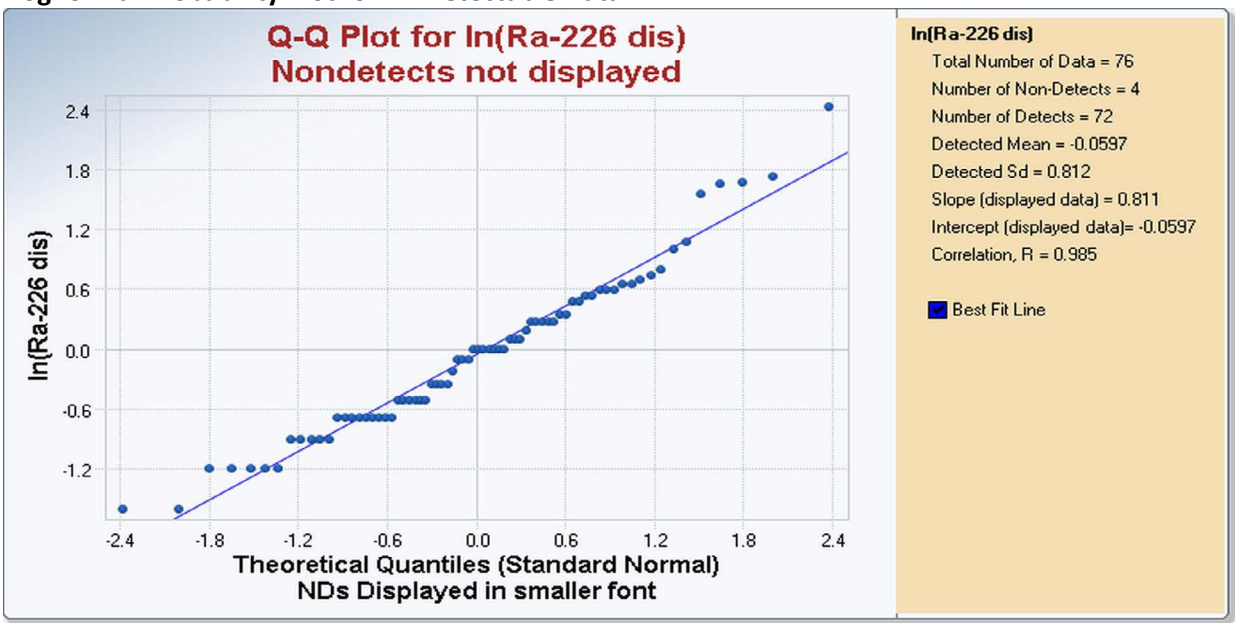
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with one suspected high outlier.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean*	-0.0597	*Calculated using natural
Standard deviation*	0.812	logarithm of detectable concentrations
Number of data	72	
Number of suspected outliers	1	

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM14A	28-May	2.425	3.08	3.27	**No**

* Calculated using natural logarithm of concentration values; 2.425 corresponds to 11.3 pCi/L.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	-0.18	**Calculated without
Standard deviation**:	0.82	suspected outlier using
n**	75	detectable concentrations
k	3.002	
Lower tolerance limit	-2.63	
Upper tolerance limit	2.27	

For 5% significance level, there is **one Statistical Outlier: 2.425 (11.3 pCi/L).**
* Calculated using natural logarithm of concentration values.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

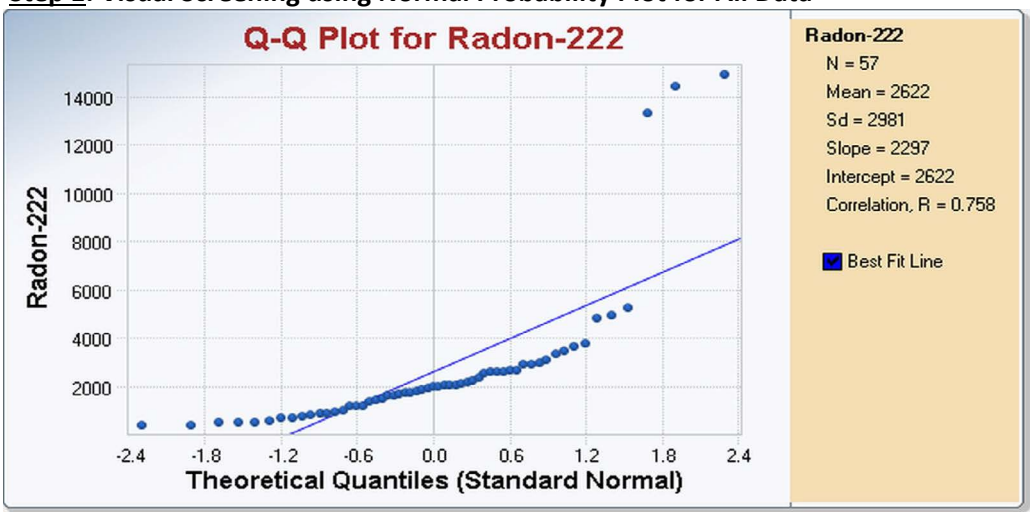
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
11.3	MU1-PM14A	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Radon-222 (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	3,360	13-May	5,250	27-May	4,960	Not measured	
MU1-PM2	27-Apr	2,630	14-May	2,060	28-May	1,910		
MU1-PM3	27-Apr	1,770	14-May	1,630	28-May	2,050		
MU1-PM4	28-Apr	1,980	14-May	1,180	28-May	1,380		
MU1-PM5	28-Apr	973	14-May	742	28-May	1,740		
MU1-PM6	24-Apr	2,680	14-May	484	28-May	1,680		
MU1-PM7	23-Apr	2,160	14-May	1,190	28-May	1,710		
MU1-PM8	27-Apr	2,570	13-May	2,910	27-May	2,600		
MU1-PM9	24-Apr	2,350	13-May	2,060	27-May	1,990		
MU1-PM10	27-Apr	2,120	13-May	1,860	27-May	2,200		
MU1-PM11	28-Apr	2,550	15-May	2,900	29-May	2,970		
MU1-PM12	28-Apr	561	13-May	679	27-May	859		
MU1-PM13	29-Apr	1,640	13-May	1,520	27-May	1,450		
MU1-PM14A	28-Apr	3,100	14-May	3,430	28-May	2,590		
MU1-PM15	28-Apr	13,300	13-May	14,400	27-May	14,900		
MU1-PM16	28-Apr	4,780	15-May	3,650	29-May	3,770		
MU1-PM17	28-Apr	1,170	13-May	912	27-May	810		
MU1-PM18	28-Apr	505	13-May	855	27-May	530		
MU1-PM19	28-Apr	697	15-May	377	29-May	379		

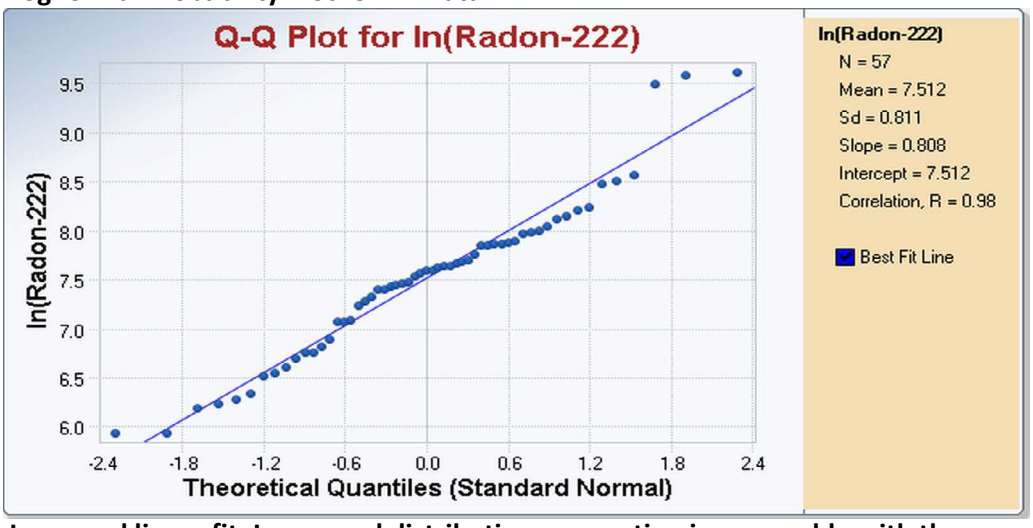
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



Improved linear fit. Lognormal distribution assumption is reasonable with three suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean*	7.51
Standard deviation*	0.81
Number of data	57
Number of suspected outliers	3

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-PM15	27-May	9.609	2.610	3.179	**No**
2	MU1-PM15	13-May	9.575	2.740	3.169	**No**
3	MU1-PM15	28-Apr	9.496	2.868	3.166	**No**

* Calculated using natural logarithm of concentration values; 9.609, 9.575, and 9.496 correspond to 14,900, 14,400, and 13,300 pCi/L, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	7.40
Standard deviation**:	0.67
n**	54
k	3.1004
Lower tolerance limit	5.33
Upper tolerance limit	9.46

**Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are three **Statistical Outlier: 9.609 (14,900 pCi/L), 9.575 (14,400 pCi/L), and 9.496 (13,300 pCi/L).**

* Calculated using natural logarithm of concentration value.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

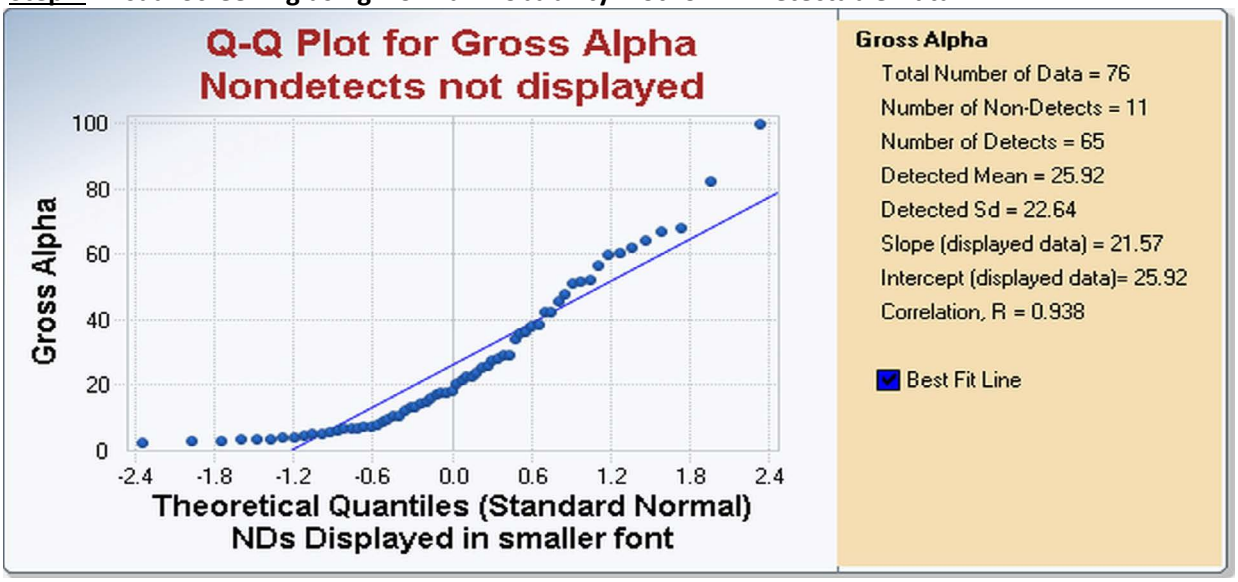
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
14,900	MU1-PM15	**Keep**	Consitent with other results from this well; inconclusive statistical test results
14,400	MU1-PM15	**Keep**	Consitent with other results from this well; inconclusive statistical test results
13,300	MU1-PM15	**Keep**	Consitent with other results from this well; inconclusive statistical test results

Monitoring Interval: **Perimeter (PM)**
Parameter: **Gross Alpha (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	14.6	13-May	28.8	27-May	23.6	10-Jun	33.8
MU1-PM2	27-Apr	38.2	14-May	21.0	28-May	25.3	11-Jun	25.8
MU1-PM3	27-Apr	36.1	14-May	12.9	28-May	8.5	11-Jun	15.5
MU1-PM4	28-Apr	6.0	14-May	6.4	28-May	7.4	11-Jun	12.0
MU1-PM5	28-Apr	3.5	14-May	<2	28-May	17.8	11-Jun	3.1
MU1-PM6	24-Apr	59.4	14-May	20.2	28-May	52.2	11-Jun	50.8
MU1-PM7	23-Apr	22.1	14-May	3.9	28-May	27.2	11-Jun	35.4
MU1-PM8	27-Apr	66.8	13-May	64.1	27-May	99.4	10-Jun	82.3
MU1-PM9	24-Apr	47.8	13-May	22.1	27-May	56.5	10-Jun	67.9
MU1-PM10	27-Apr	42.1	13-May	7.0	27-May	28.0	10-Jun	42.3
MU1-PM11	28-Apr	17.3	15-May	6.3	29-May	10.4	12-Jun	5.0
MU1-PM12	28-Apr	2.3	13-May	<2	27-May	<2	10-Jun	<2
MU1-PM13	29-Apr	4.6	13-May	5.4	27-May	4.0	10-Jun	6.5
MU1-PM14A	28-Apr	13.3	14-May	16.8	28-May	29.0	11-Jun	9.2
MU1-PM15	28-Apr	51.2	13-May	61.7	27-May	45.1	10-Jun	60.3
MU1-PM16	28-Apr	37.8	15-May	13.9	29-May	17.2	12-Jun	10.3
MU1-PM17	28-Apr	7.0	13-May	2.7	27-May	3.4	10-Jun	<2
MU1-PM18	28-Apr	2.6	13-May	3.4	27-May	<2	10-Jun	<2
MU1-PM19	28-Apr	<2	15-May	<2	29-May	<2	15-Jun	<2

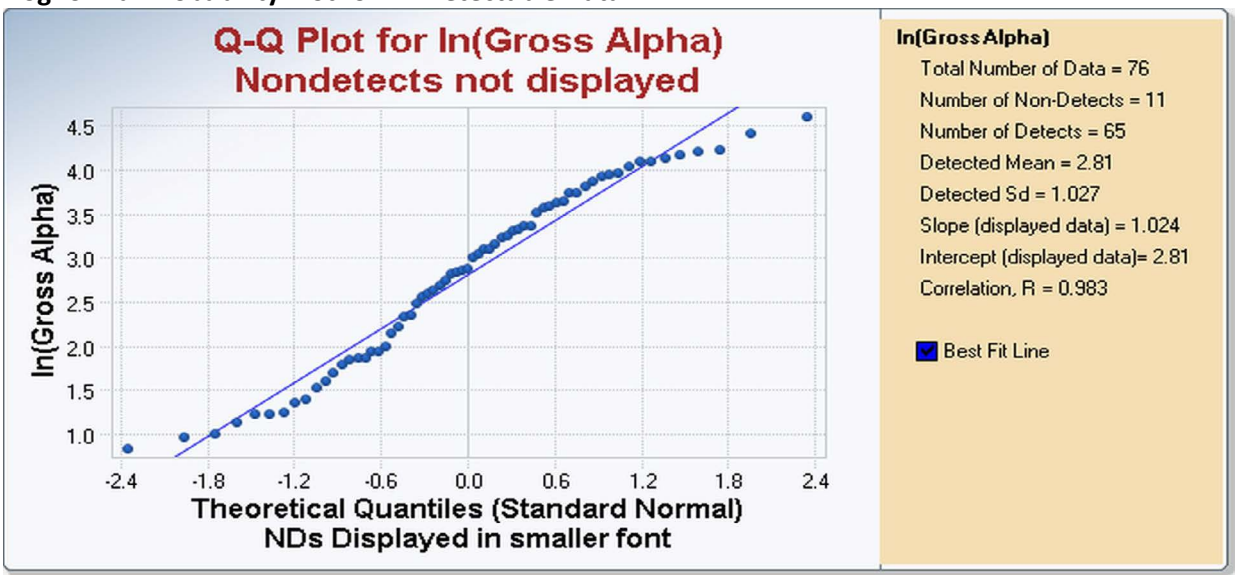
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with no suspected outliers.

Lognormal Probability Plot for All Detectable Data



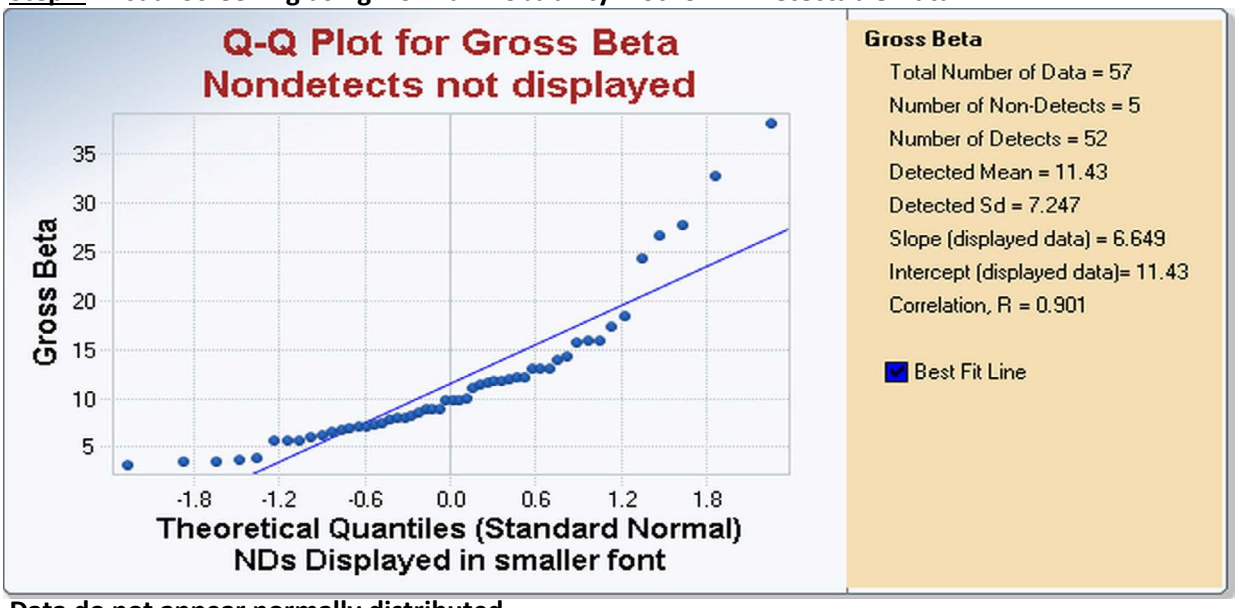
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Perimeter (PM)**
Parameter: **Gross Beta (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	9.8	13-May	11.4	27-May	7.9		
MU1-PM2	27-Apr	13.0	14-May	<3	28-May	7.4		
MU1-PM3	27-Apr	12.0	14-May	7.8	28-May	7.9		
MU1-PM4	28-Apr	5.7	14-May	12.0	28-May	8.4		
MU1-PM5	28-Apr	8.2	14-May	3.5	28-May	6.1		
MU1-PM6	24-Apr	15.9	14-May	9.7	28-May	15.9		
MU1-PM7	23-Apr	38	14-May	3.9	28-May	11.7		
MU1-PM8	27-Apr	24.3	13-May	13.0	27-May	26.6		
MU1-PM9	24-Apr	13.8	13-May	11.7	27-May	11.8		
MU1-PM10	27-Apr	13.0	13-May	8.8	27-May	11.6	Not measured	
MU1-PM11	28-Apr	9.8	15-May	6.7	29-May	5.6		
MU1-PM12	28-Apr	7.0	13-May	<3	27-May	<3		
MU1-PM13	29-Apr	5.9	13-May	<3	27-May	3.7		
MU1-PM14A	28-Apr	11.0	14-May	9.9	28-May	15.7		
MU1-PM15	28-Apr	27.7	13-May	17.2	27-May	14.2		
MU1-PM16	28-Apr	18.4	15-May	32.7	29-May	8.8		
MU1-PM17	28-Apr	6.9	13-May	3.5	27-May	3.1		
MU1-PM18	28-Apr	6.5	13-May	5.7	27-May	7.1		
MU1-PM19	28-Apr	<3	15-May	8.9	29-May	7.3		

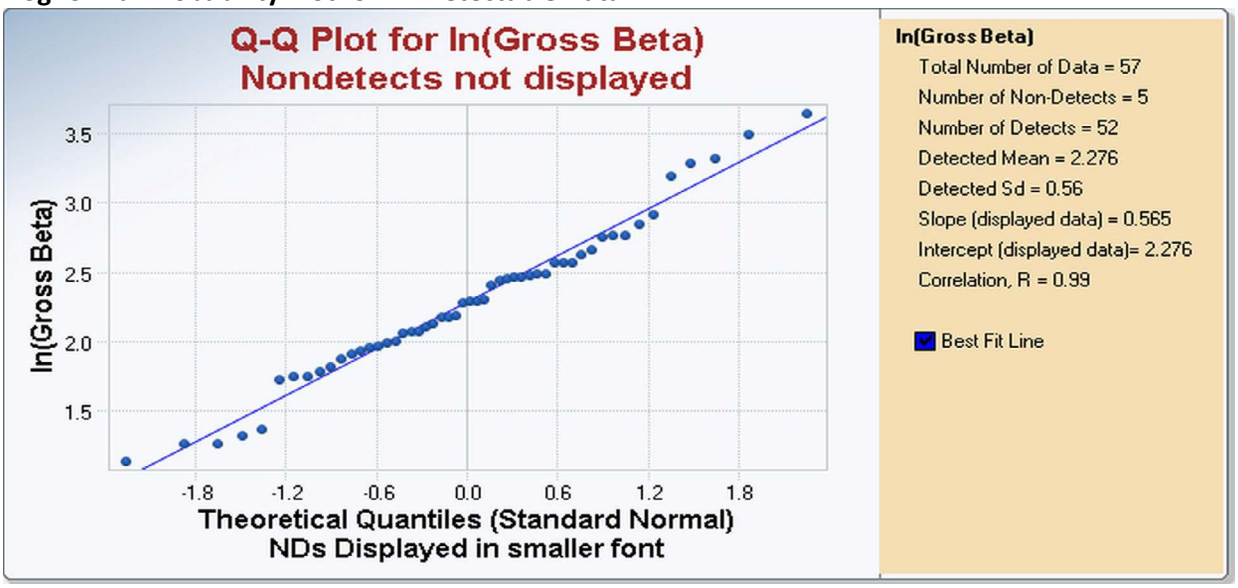
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**

Note: The detection frequency for the following parameters was less than 25%; therefore, no attempt was made to fit these parameters to a data distribution or to perform visual screening or statistical evaluation of potential outliers.

Parameter	Detection Frequency (%)
Nitrate/Nitrite as N	4
Aluminum, dissolved	9
Barium, dissolved	0
Cadmium, dissolved	0
Chromium, dissolved	0
Copper, dissolved	0
Iron, dissolved	16
Lead, dissolved	0
Manganese, dissolved	0
Manganese, total	7
Mercury, dissolved	0
Molybdenum, dissolved	0
Nickel, dissolved	0
Selenium, dissolved	0
Silver, dissolved	0
Uranium, suspended	7
Vanadium, dissolved	0
Zinc, dissolved	5
Lead-210, dissolved	24
Lead-210, suspended	17
Polonium-210, dissolved	0
Polonium-210, suspended	0
Radium-226, suspended	14
Radium-228, dissolved	9
Thorium-230, dissolved	2
Thorium-230, suspended	2

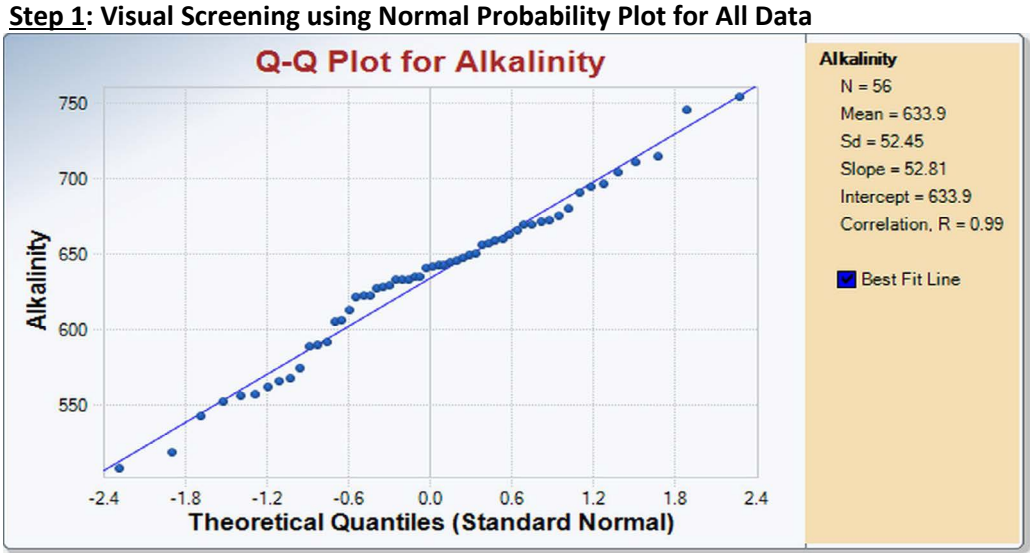
Monitoring Interval: **Shallow Monitor (SM)**

Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	508	15-May	557	29-May	518	12-Jun	542
MU1-SM2	23-Apr	622	15-May	671	29-May	589	12-Jun	621
MU1-SM3	29-Apr	642	14-May	641	28-May	642	11-Jun	656
MU1-SM4	29-Apr	690	13-May	710	27-May	703	10-Jun	679
MU1-SM5	20-Apr	634	14-May	628	28-May	634	11-Jun	644
MU1-SM6	21-Apr	669	15-May	658	29-May	649	12-Jun	753
MU1-SM7	22-Apr	629	15-May	647	29-May	655	12-Jun	672
MU1-SM8	20-Apr	627	15-May	645	29-May	632	15-Jun	632
MU1-SM9	20-Apr	675	15-May	696	29-May	745	12-Jun	714
MU1-SM10	23-Apr	552	14-May	606	28-May	567	11-Jun	574
MU1-SM11	29-Apr	588	15-May	605	29-May	622	12-Jun	591
MU1-SM12	29-Apr	659	14-May	632	28-May	640	11-Jun	650
MU1-SM13	29-Apr	612	13-May	561	27-May	556	10-Jun	565
MU1-SM14	21-Apr	694	14-May	669	28-May	662	11-Jun	665

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



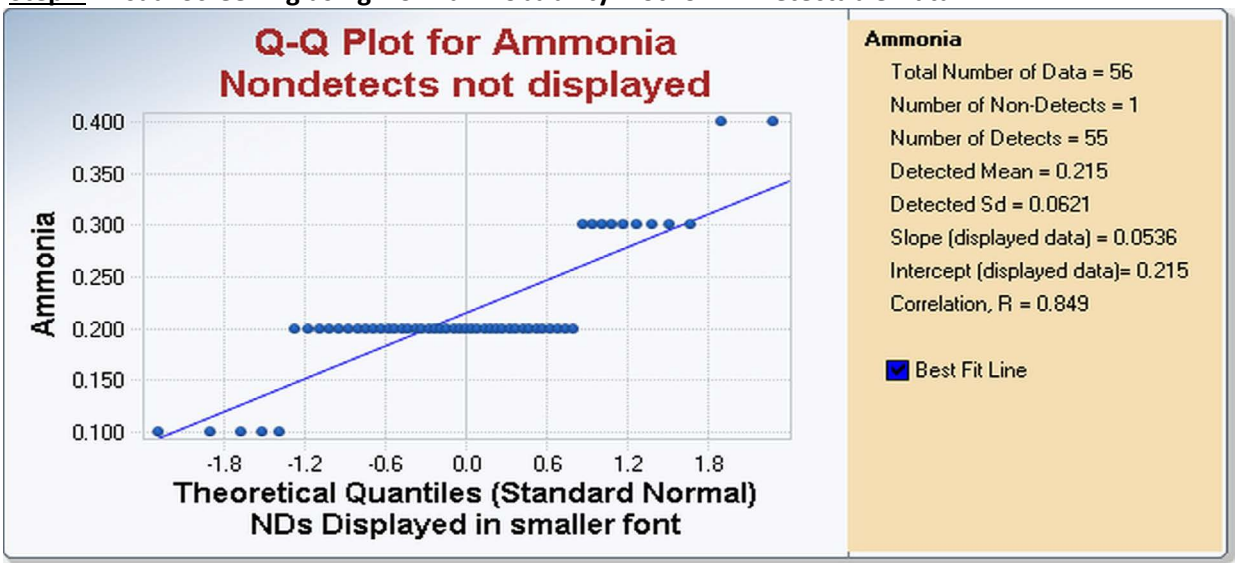
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Ammonia (mg/L as N)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	0.2	15-May	0.2	29-May	<0.1	12-Jun	0.1
MU1-SM2	23-Apr	0.2	15-May	0.2	29-May	0.2	12-Jun	0.2
MU1-SM3	29-Apr	0.2	14-May	0.3	28-May	0.2	11-Jun	0.4
MU1-SM4	29-Apr	0.4	13-May	0.3	27-May	0.2	10-Jun	0.2
MU1-SM5	20-Apr	0.3	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-SM6	21-Apr	0.3	15-May	0.3	29-May	0.2	12-Jun	0.2
MU1-SM7	22-Apr	0.3	15-May	0.2	29-May	0.2	12-Jun	0.2
MU1-SM8	20-Apr	0.2	15-May	0.2	29-May	0.2	15-Jun	0.2
MU1-SM9	20-Apr	0.3	15-May	0.2	29-May	0.2	12-Jun	0.2
MU1-SM10	23-Apr	0.1	14-May	0.2	28-May	0.1	11-Jun	0.2
MU1-SM11	29-Apr	0.2	15-May	0.2	29-May	0.1	12-Jun	0.2
MU1-SM12	29-Apr	0.3	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-SM13	29-Apr	0.3	13-May	0.2	27-May	0.1	10-Jun	0.2
MU1-SM14	21-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2

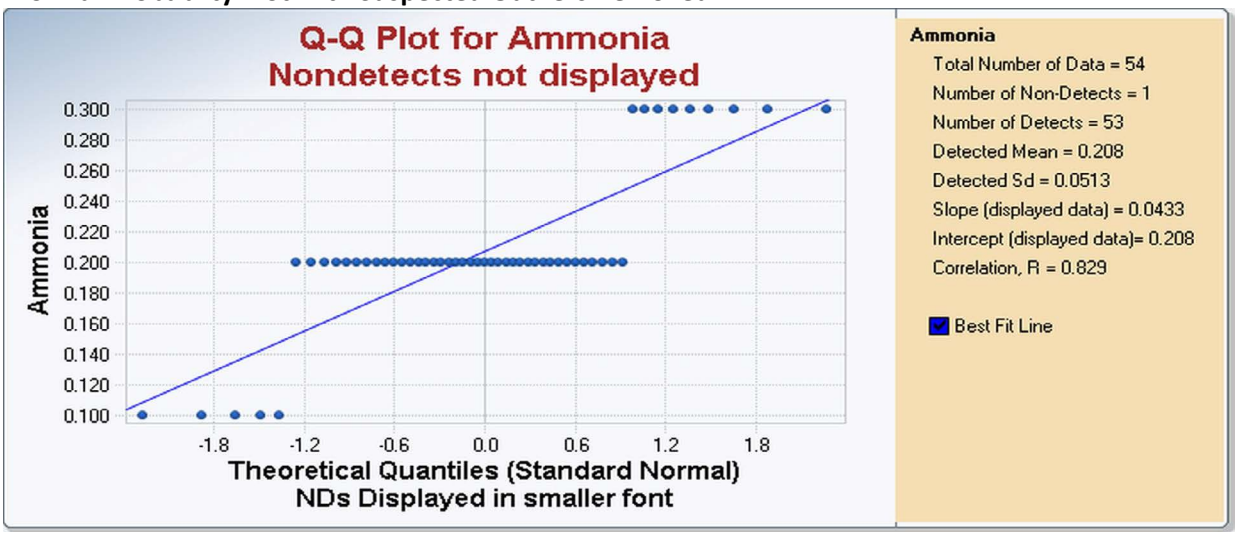
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with two suspected high outliers.

Normal Probabilty Plot with Suspected Outliers Removed



Slightly reduced linear fit correlation; normality assumption is reasonable.
(Relatively low linear correlation is attributed to data precision - data points are grouped in 0.1 mg/L increments.)

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	0.22
Standard deviation	0.06
Number of data	55
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM3	11-Jun	0.4	3.013	3.165	**Yes**
2	MU1-SM4	29-Apr	0.4	3.303	3.155	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	0.21
Standard deviation*:	0.05
n*	53
k	3.1068
Lower tolerance limit	0.048
Upper tolerance limit	0.367

*Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are **two Statistical Outliers: 0.4 and 0.4.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

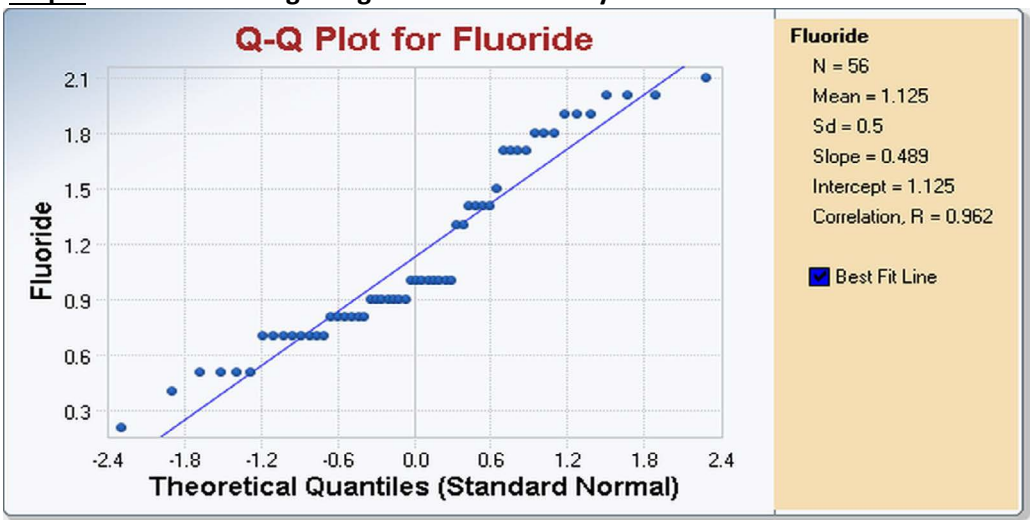
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.4	MU1-SM3	**Keep**	Consistent with other results from this well.
0.4	MU1-SM4	**Keep**	Consistent with other results from this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Fluoride (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	1.7	15-May	0.2	29-May	1.7	12-Jun	1.8
MU1-SM2	23-Apr	1.4	15-May	1.3	29-May	0.8	12-Jun	1.3
MU1-SM3	29-Apr	1.0	14-May	1.0	28-May	1.0	11-Jun	1.0
MU1-SM4	29-Apr	1.0	13-May	0.9	27-May	0.9	10-Jun	0.9
MU1-SM5	20-Apr	0.8	14-May	0.8	28-May	0.7	11-Jun	0.8
MU1-SM6	21-Apr	1.0	15-May	0.9	29-May	0.9	12-Jun	0.7
MU1-SM7	22-Apr	0.7	15-May	0.7	29-May	0.7	12-Jun	0.7
MU1-SM8	20-Apr	0.9	15-May	0.9	29-May	1.0	15-Jun	1.0
MU1-SM9	20-Apr	0.8	15-May	0.7	29-May	0.7	12-Jun	0.8
MU1-SM10	23-Apr	1.7	14-May	1.9	28-May	0.4	11-Jun	1.7
MU1-SM11	29-Apr	2.1	15-May	2.0	29-May	2.0	12-Jun	1.8
MU1-SM12	29-Apr	1.4	14-May	1.4	28-May	1.4	11-Jun	1.5
MU1-SM13	29-Apr	1.8	13-May	1.9	27-May	2.0	10-Jun	1.9
MU1-SM14	21-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.5

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



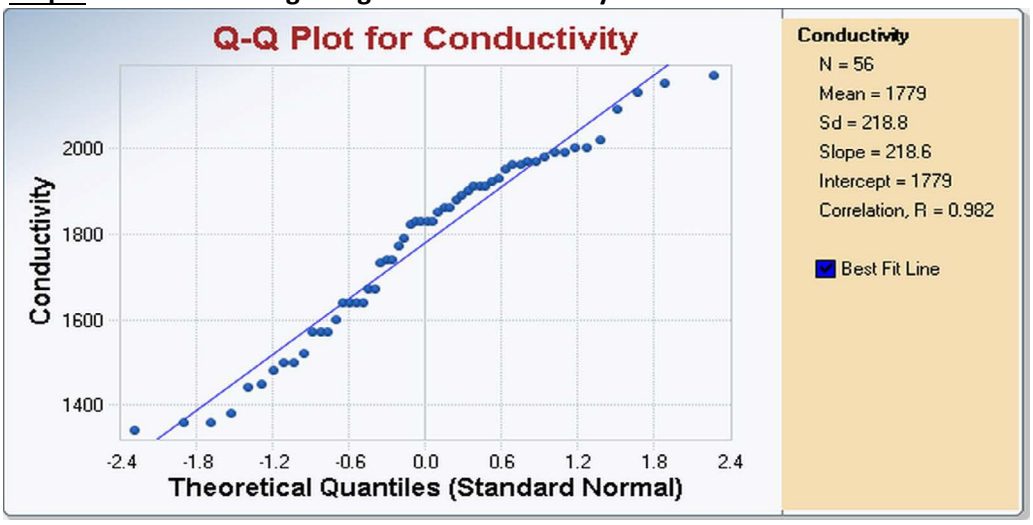
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Conductivity, Laboratory (µmhos/cm)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	1,440	15-May	1,360	29-May	1,360	12-Jun	1,340
MU1-SM2	23-Apr	1,670	15-May	1,830	29-May	1,730	12-Jun	1,740
MU1-SM3	29-Apr	1,910	14-May	1,990	28-May	1,850	11-Jun	1,960
MU1-SM4	29-Apr	1,890	13-May	1,910	27-May	1,820	10-Jun	1,920
MU1-SM5	20-Apr	1,900	14-May	1,970	28-May	1,830	11-Jun	1,860
MU1-SM6	21-Apr	2,020	15-May	2,000	29-May	1,970	12-Jun	1,910
MU1-SM7	22-Apr	1,960	15-May	1,990	29-May	2,000	12-Jun	1,980
MU1-SM8	20-Apr	1,740	15-May	1,640	29-May	1,640	15-Jun	1,640
MU1-SM9	20-Apr	2,170	15-May	2,150	29-May	2,130	12-Jun	2,090
MU1-SM10	23-Apr	1,600	14-May	1,670	28-May	1,570	11-Jun	1,640
MU1-SM11	29-Apr	1,570	15-May	1,520	29-May	1,500	12-Jun	1,480
MU1-SM12	29-Apr	1,830	14-May	1,860	28-May	1,770	11-Jun	1,830
MU1-SM13	29-Apr	1,570	13-May	1,500	27-May	1,380	10-Jun	1,450
MU1-SM14	21-Apr	1,950	14-May	1,790	28-May	1,880	11-Jun	1,930

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



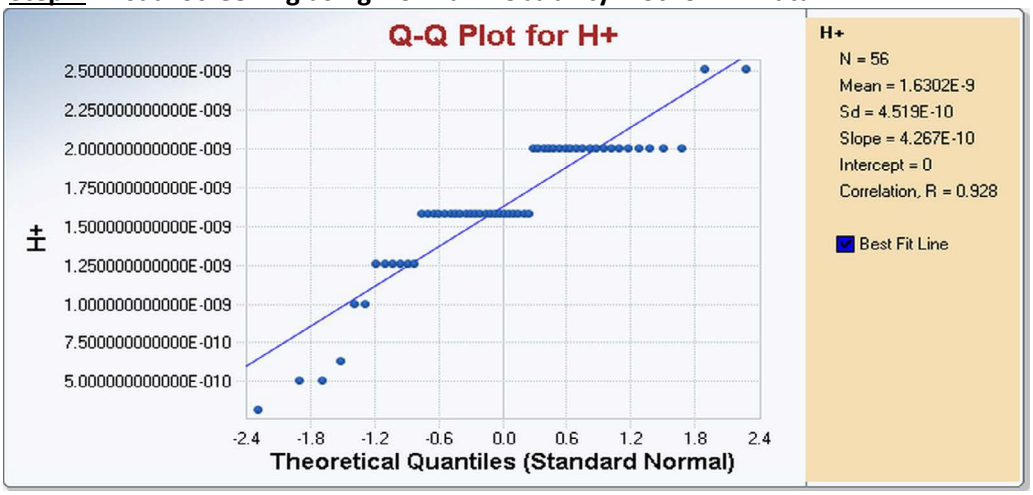
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **pH, Laboratory (s.u.)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	8.9	15-May	8.8	29-May	8.9	12-Jun	8.8
MU1-SM2	23-Apr	8.8	15-May	8.9	29-May	8.8	12-Jun	8.8
MU1-SM3	29-Apr	8.9	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-SM4	29-Apr	9	13-May	8.7	27-May	8.8	10-Jun	8.7
MU1-SM5	20-Apr	8.7	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-SM6	21-Apr	8.9	15-May	8.8	29-May	8.8	12-Jun	8.8
MU1-SM7	22-Apr	8.7	15-May	8.7	29-May	8.7	12-Jun	8.6
MU1-SM8	20-Apr	8.7	15-May	8.8	29-May	8.8	15-Jun	8.7
MU1-SM9	20-Apr	8.7	15-May	8.7	29-May	8.7	12-Jun	8.6
MU1-SM10	23-Apr	8.7	14-May	8.8	28-May	8.7	11-Jun	8.8
MU1-SM11	29-Apr	9	15-May	8.8	29-May	8.8	12-Jun	8.8
MU1-SM12	29-Apr	8.9	14-May	8.7	28-May	8.7	11-Jun	8.8
MU1-SM13	29-Apr	9.3	13-May	9.5	27-May	9.3	10-Jun	9.2
MU1-SM14	21-Apr	8.8	14-May	8.8	28-May	8.8	11-Jun	8.7

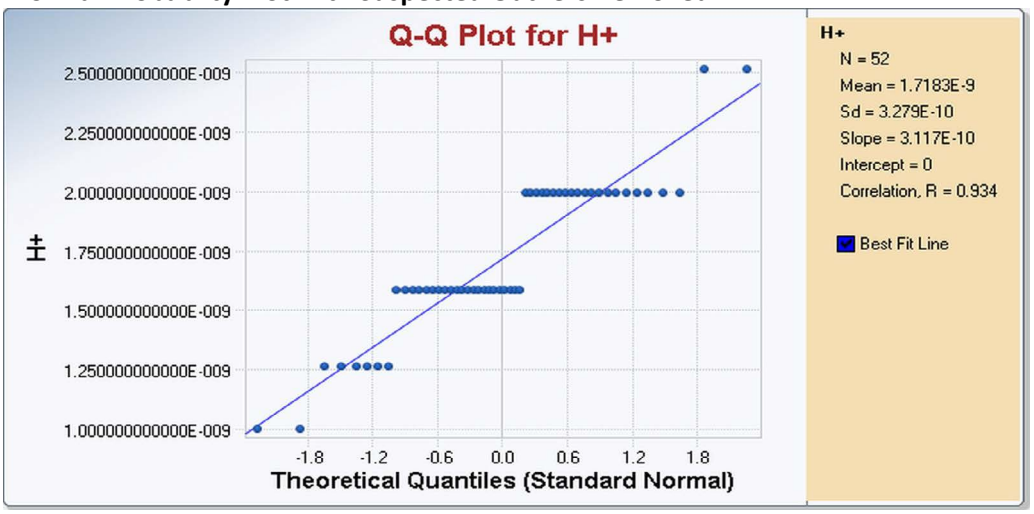
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly normal; there are four suspected low outliers.
(Note that hydrogen ion concentrations are plotted instead of pH values; accordingly, suspected low outlier H^+ concentrations correspond to suspected high outlier pH values.)

Normal Probabilty Plot with Suspected Outliers Removed



Normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	1.63E-09
Standard deviation	4.51E-10
Number of data	56
Number of suspected outliers	4

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM13	13-May	3.16E-10	2.944	3.172	**No**
2	MU1-SM13	29-Apr	5.01E-10	2.763	3.162	**No**
3	MU1-SM13	27-May	5.01E-10	3.014	3.158	**No**
4	MU1-SM13	10-Jun	6.31E-10	2.985	3.148	**No**

* Calculated using hydrogen ion concentrations; 3.16E-10, 5.01E-10, 5.01E-10 and 6.31E-10 correspond to pH 9.5, 9.3, 9.3, and 9.2, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	1.72E-09	**Calculated without suspected outliers
Standard deviation**:	3.28E-10	
n**	52	
k	3.1132	
Lower tolerance limit	6.97E-10	
Upper tolerance limit	2.74E-09	

For 5% significance level, there are **four Statistical Outliers: 3.16E-10 (pH 9.5), 5.01E-10 (pH 9.3), 5.01E-10 (pH 9.3), and 6.31E-10 (pH 9.2).**

* Calculated using hydrogen ion concentrations

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

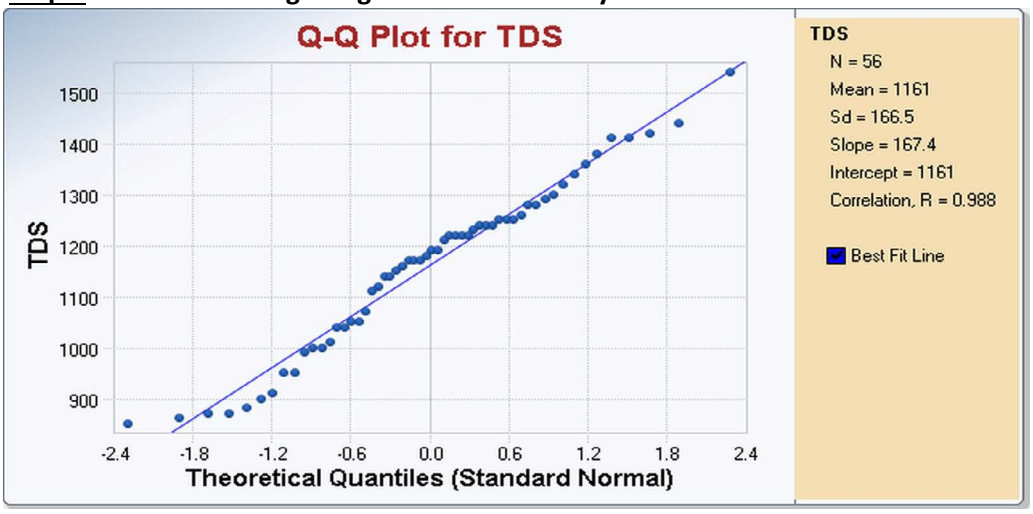
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
9.5	MU1-SM13	**Keep**	Consistent with other results from this well; inconclusive statistical test results.
9.3	MU1-SM13	**Keep**	Consistent with other results from this well; inconclusive statistical test results.
9.3	MU1-SM13	**Keep**	Consistent with other results from this well; inconclusive statistical test results.
9.2	MU1-SM13	**Keep**	Consistent with other results from this well; inconclusive statistical test results.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Total Dissolved Solids (TDS) (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	850	15-May	860	29-May	910	12-Jun	870
MU1-SM2	23-Apr	1,220	15-May	1,220	29-May	1,140	12-Jun	1,150
MU1-SM3	29-Apr	1,290	14-May	1,280	28-May	1,240	11-Jun	1,260
MU1-SM4	29-Apr	1,220	13-May	1,180	27-May	1,230	10-Jun	1,170
MU1-SM5	20-Apr	1,220	14-May	1,170	28-May	1,240	11-Jun	1,190
MU1-SM6	21-Apr	1,540	15-May	1,240	29-May	1,300	12-Jun	1,250
MU1-SM7	22-Apr	1,250	15-May	1,380	29-May	1,320	12-Jun	1,340
MU1-SM8	20-Apr	1,120	15-May	1,070	29-May	1,040	15-Jun	1,050
MU1-SM9	20-Apr	1,410	15-May	1,440	29-May	1,420	12-Jun	1,410
MU1-SM10	23-Apr	1,170	14-May	1,000	28-May	1,050	11-Jun	1,040
MU1-SM11	29-Apr	1,010	15-May	990	29-May	950	12-Jun	950
MU1-SM12	29-Apr	1,190	14-May	1,140	28-May	1,210	11-Jun	1,160
MU1-SM13	29-Apr	1,000	13-May	870	27-May	900	10-Jun	880
MU1-SM14	21-Apr	1,360	14-May	1,110	28-May	1,280	11-Jun	1,250

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



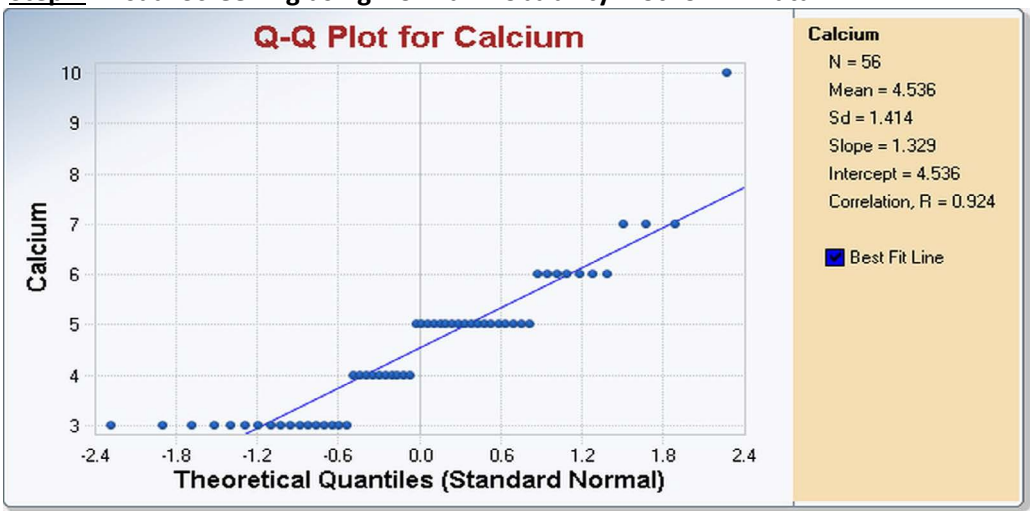
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Calcium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	3	15-May	3	29-May	3	12-Jun	3
MU1-SM2	23-Apr	3	15-May	3	29-May	3	12-Jun	3
MU1-SM3	29-Apr	6	14-May	5	28-May	5	11-Jun	5
MU1-SM4	29-Apr	5	13-May	5	27-May	5	10-Jun	5
MU1-SM5	20-Apr	5	14-May	5	28-May	6	11-Jun	5
MU1-SM6	21-Apr	3	15-May	3	29-May	3	12-Jun	4
MU1-SM7	22-Apr	6	15-May	7	29-May	6	12-Jun	6
MU1-SM8	20-Apr	4	15-May	5	29-May	4	15-Jun	4
MU1-SM9	20-Apr	7	15-May	7	29-May	6	12-Jun	6
MU1-SM10	23-Apr	4	14-May	4	28-May	4	11-Jun	4
MU1-SM11	29-Apr	4	15-May	3	29-May	3	12-Jun	3
MU1-SM12	29-Apr	5	14-May	5	28-May	5	11-Jun	5
MU1-SM13	29-Apr	3	13-May	4	27-May	3	10-Jun	3
MU1-SM14	21-Apr	5	14-May	5	28-May	5	11-Jun	10

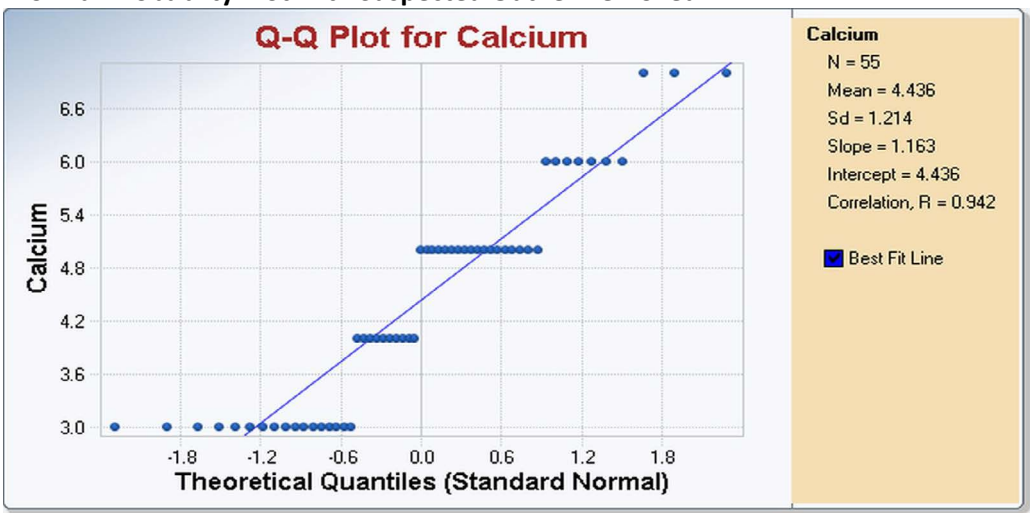
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected high outlier.

Normal Probabilty Plot with Suspected Outlier Removed



Normality assumption is reasonable. (Relatively low linear correlation is attributed to data precision.)

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	4.5
Standard deviation	1.4
Number of data	56
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM14	11-Jun	10	3.9	3.172	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	4.44	*Calculated without
Standard deviation*:	1.21	suspected outlier
n*	55	
k	3.094	
Lower tolerance limit	0.7	
Upper tolerance limit	8.2	

For 5% significance level, there is **one Statistical Outlier: 10.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

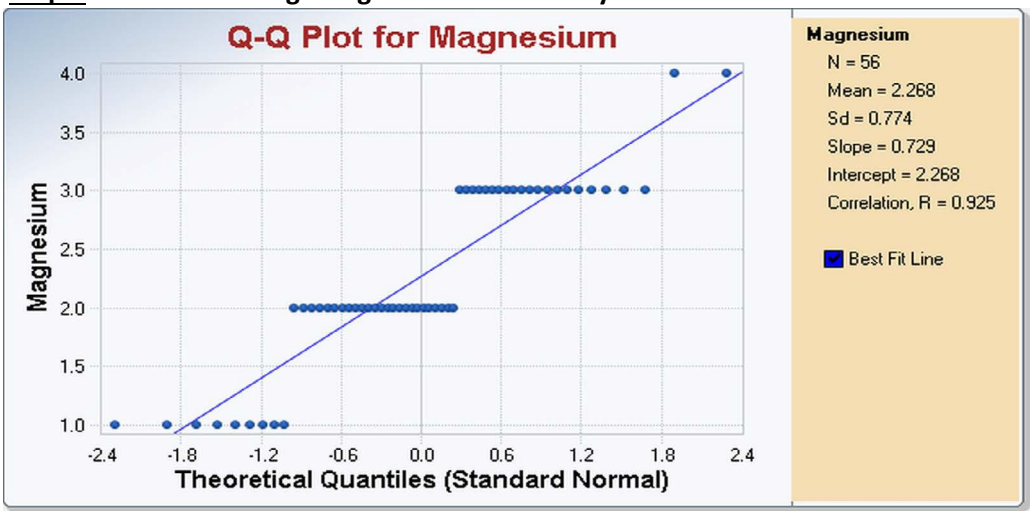
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
10	MU1-SM14	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Magnesium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	1	15-May	1	29-May	1	12-Jun	1
MU1-SM2	23-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-SM3	29-Apr	3	14-May	3	28-May	2	11-Jun	3
MU1-SM4	29-Apr	3	13-May	2	27-May	3	10-Jun	3
MU1-SM5	20-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-SM6	21-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-SM7	22-Apr	3	15-May	4	29-May	3	12-Jun	3
MU1-SM8	20-Apr	2	15-May	3	29-May	2	15-Jun	2
MU1-SM9	20-Apr	3	15-May	4	29-May	3	12-Jun	3
MU1-SM10	23-Apr	2	14-May	2	28-May	2	11-Jun	2
MU1-SM11	29-Apr	2	15-May	2	29-May	2	12-Jun	1
MU1-SM12	29-Apr	2	14-May	2	28-May	2	11-Jun	2
MU1-SM13	29-Apr	1	13-May	1	27-May	1	10-Jun	1
MU1-SM14	21-Apr	3	14-May	3	28-May	2	11-Jun	3

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



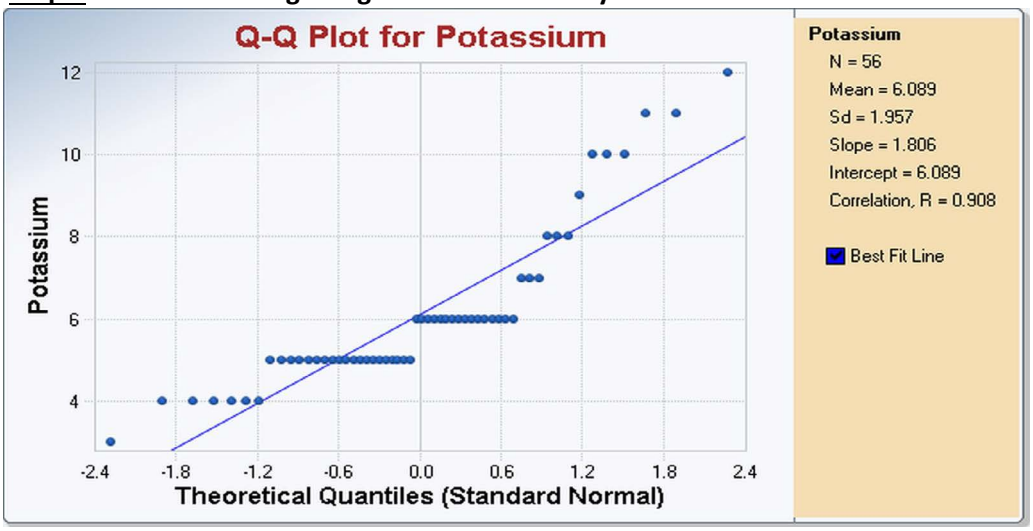
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Potassium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	4	15-May	5	29-May	5	12-Jun	5
MU1-SM2	23-Apr	10	15-May	11	29-May	10	12-Jun	10
MU1-SM3	29-Apr	6	14-May	5	28-May	5	11-Jun	5
MU1-SM4	29-Apr	6	13-May	5	27-May	6	10-Jun	5
MU1-SM5	20-Apr	5	14-May	5	28-May	6	11-Jun	5
MU1-SM6	21-Apr	11	15-May	9	29-May	8	12-Jun	12
MU1-SM7	22-Apr	7	15-May	6	29-May	6	12-Jun	6
MU1-SM8	20-Apr	6	15-May	6	29-May	5	15-Jun	5
MU1-SM9	20-Apr	6	15-May	6	29-May	6	12-Jun	6
MU1-SM10	23-Apr	4	14-May	4	28-May	5	11-Jun	4
MU1-SM11	29-Apr	5	15-May	4	29-May	4	12-Jun	3
MU1-SM12	29-Apr	5	14-May	6	28-May	6	11-Jun	5
MU1-SM13	29-Apr	8	13-May	8	27-May	7	10-Jun	7
MU1-SM14	21-Apr	5	14-May	6	28-May	5	11-Jun	5

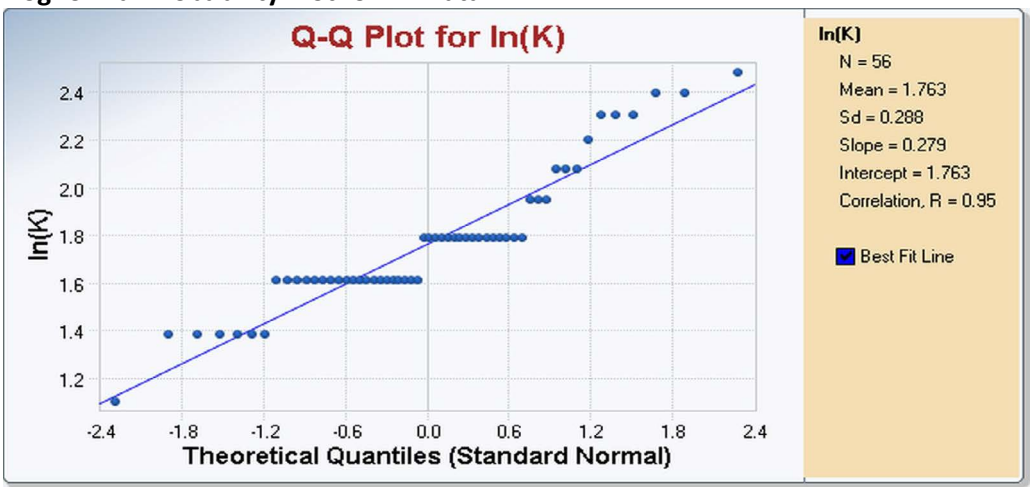
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot



Data are nearly linear with no suspected outliers.

Lognormal Probability Plot for All Data



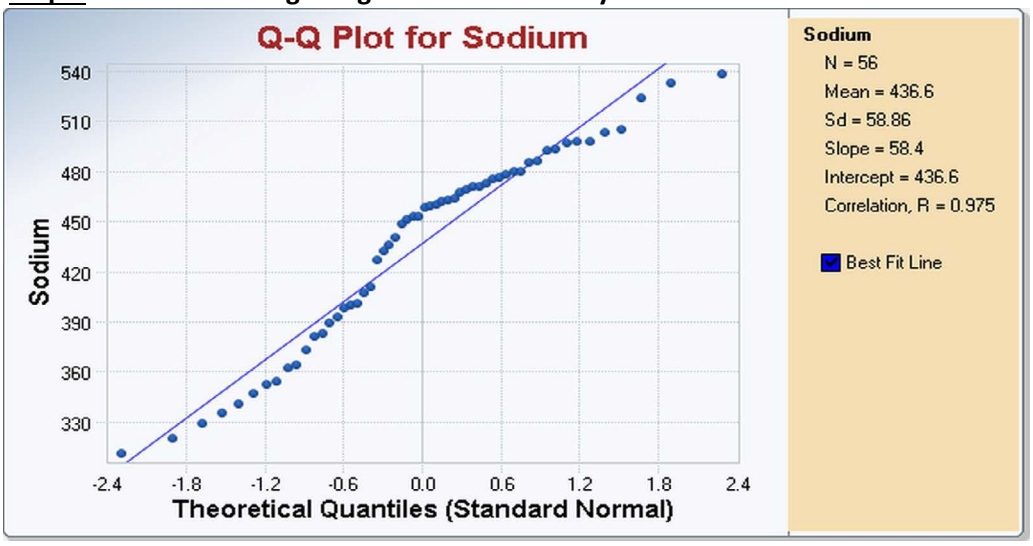
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Sodium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	320	15-May	329	29-May	311	12-Jun	335
MU1-SM2	23-Apr	381	15-May	475	29-May	407	12-Jun	436
MU1-SM3	29-Apr	462	14-May	473	28-May	448	11-Jun	493
MU1-SM4	29-Apr	451	13-May	459	27-May	471	10-Jun	480
MU1-SM5	20-Apr	478	14-May	469	28-May	471	11-Jun	480
MU1-SM6	21-Apr	476	15-May	498	29-May	467	12-Jun	497
MU1-SM7	22-Apr	463	15-May	492	29-May	460	12-Jun	505
MU1-SM8	20-Apr	427	15-May	440	29-May	393	15-Jun	411
MU1-SM9	20-Apr	524	15-May	533	29-May	503	12-Jun	538
MU1-SM10	23-Apr	364	14-May	400	28-May	401	11-Jun	389
MU1-SM11	29-Apr	373	15-May	383	29-May	362	12-Jun	347
MU1-SM12	29-Apr	432	14-May	453	28-May	458	11-Jun	453
MU1-SM13	29-Apr	398	13-May	340	27-May	352	10-Jun	354
MU1-SM14	21-Apr	498	14-May	486	28-May	485	11-Jun	464

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



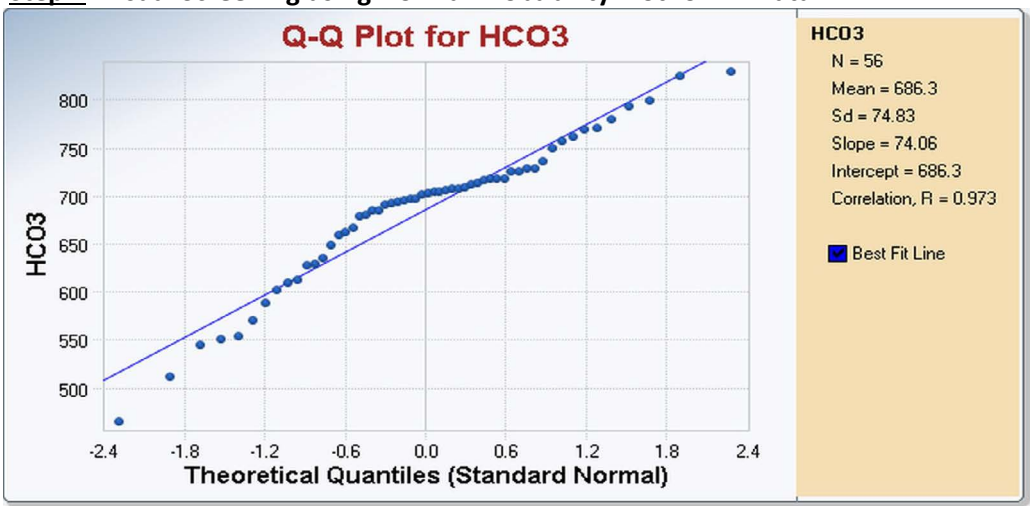
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Bicarbonate (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	550	15-May	602	29-May	553	12-Jun	589
MU1-SM2	23-Apr	679	15-May	717	29-May	629	12-Jun	662
MU1-SM3	29-Apr	684	14-May	707	28-May	716	11-Jun	729
MU1-SM4	29-Apr	707	13-May	793	27-May	779	10-Jun	762
MU1-SM5	20-Apr	702	14-May	680	28-May	696	11-Jun	708
MU1-SM6	21-Apr	705	15-May	717	29-May	701	12-Jun	824
MU1-SM7	22-Apr	696	15-May	718	29-May	725	12-Jun	750
MU1-SM8	20-Apr	692	15-May	711	29-May	694	15-Jun	695
MU1-SM9	20-Apr	757	15-May	770	29-May	829	12-Jun	799
MU1-SM10	23-Apr	613	14-May	666	28-May	627	11-Jun	635
MU1-SM11	29-Apr	609	15-May	659	29-May	685	12-Jun	648
MU1-SM12	29-Apr	690	14-May	704	28-May	704	11-Jun	713
MU1-SM13	29-Apr	571	13-May	465	27-May	511	10-Jun	545
MU1-SM14	21-Apr	769	14-May	729	28-May	725	11-Jun	736

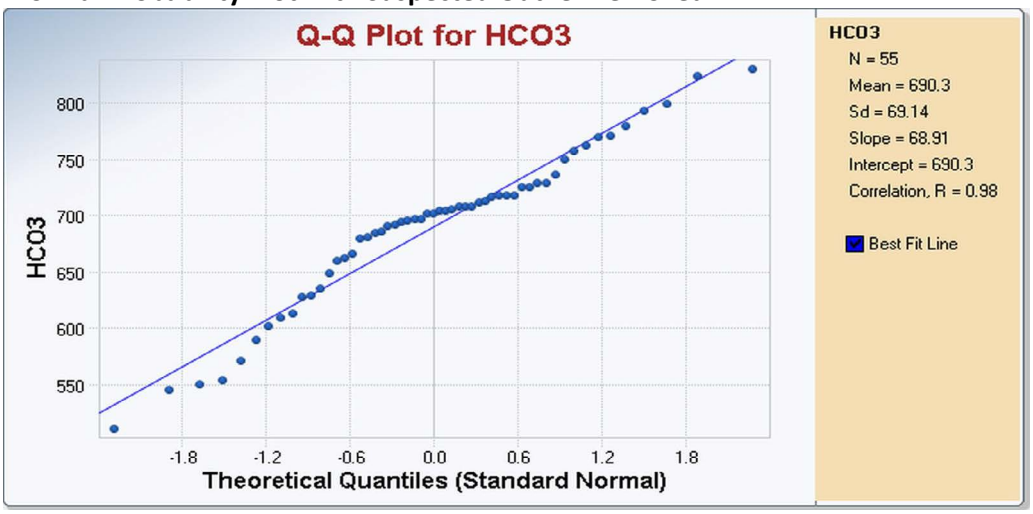
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected low outlier.

Normal Probability Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	686.3
Standard deviation	74.8
Number of data	56
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM13	13-May	465	2.984	3.172	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	690.3	*Calculated without
Standard deviation*:	69.1	suspected outlier
n*	55	
k	3.094	
Lower tolerance limit	476	
Upper tolerance limit	904	

For 5% significance level, there is **one Statistical Outlier: 465.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

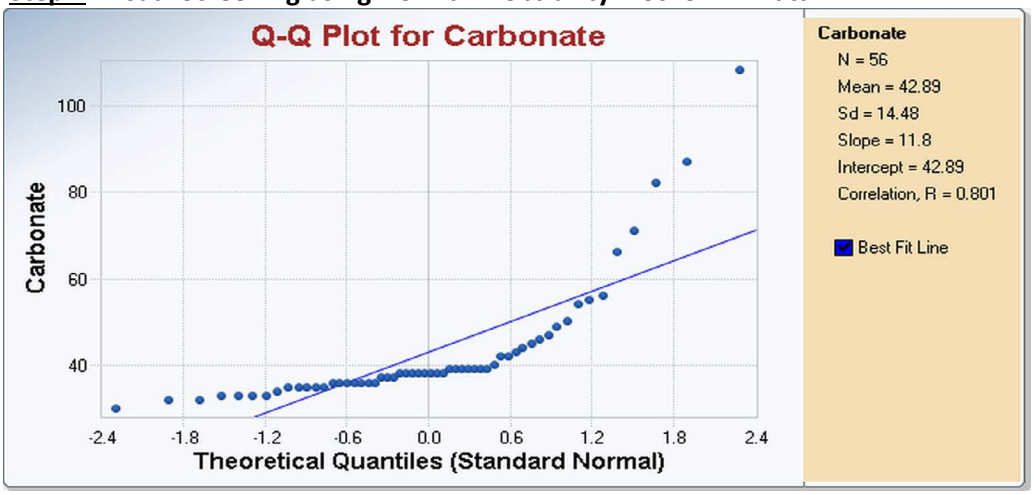
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
465	MU1-SM13	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Carbonate (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	35	15-May	38	29-May	39	12-Jun	36
MU1-SM2	23-Apr	39	15-May	50	29-May	44	12-Jun	47
MU1-SM3	29-Apr	49	14-May	37	28-May	33	11-Jun	35
MU1-SM4	29-Apr	66	13-May	36	27-May	39	10-Jun	33
MU1-SM5	20-Apr	35	14-May	42	28-May	38	11-Jun	38
MU1-SM6	21-Apr	55	15-May	42	29-May	45	12-Jun	46
MU1-SM7	22-Apr	35	15-May	35	29-May	36	12-Jun	34
MU1-SM8	20-Apr	36	15-May	38	29-May	38	15-Jun	38
MU1-SM9	20-Apr	33	15-May	39	29-May	39	12-Jun	36
MU1-SM10	23-Apr	30	14-May	36	28-May	32	11-Jun	32
MU1-SM11	29-Apr	54	15-May	39	29-May	37	12-Jun	36
MU1-SM12	29-Apr	56	14-May	33	28-May	38	11-Jun	39
MU1-SM13	29-Apr	87	13-May	108	27-May	82	10-Jun	71
MU1-SM14	21-Apr	38	14-May	43	28-May	40	11-Jun	37

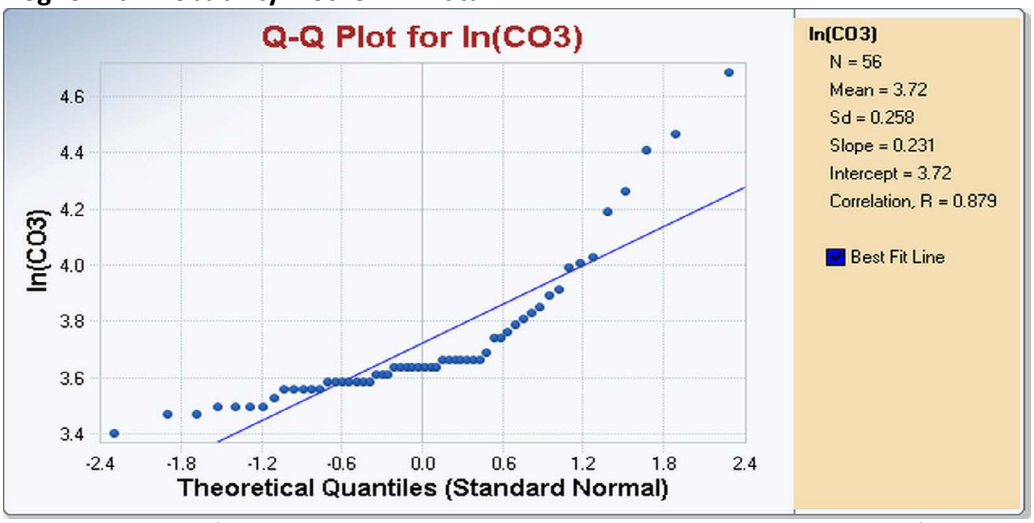
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



Improved linear fit; lognormal distribution assumption is reasonable with five suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	3.62
Standard deviation	0.31
Number of data	100
Number of suspected outliers	5

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM13	13-May	4.682	3.757	3.172	**Yes**
2	MU1-SM13	29-Apr	4.466	3.395	3.162	**Yes**
3	MU1-SM13	27-May	4.407	3.578	3.158	**Yes**
4	MU1-SM13	10-Jun	4.263	3.341	3.148	**Yes**
5	MU1-SM4	29-Apr	4.19	3.138	3.138	**Yes**

* Calculated using natural logarithms of concentration values; 4.682, 4.466, 4.407, 4.263 and 4.19 correspond to 108, 87, 82, 71 and 66 mg/L, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	3.65	**Calculated without
Standard deviation**:	0.14	suspected outliers
n**	51	
k	3.1196	
Lower tolerance limit	3.2	
Upper tolerance limit	4.1	

For 5% significance level, there are **five Statistical Outliers: 4.682 (108 mg/L), 4.466 (87 mg/L), 4.407 (82 mg/L), 4.263 (71 mg/L), and 4.19 (66 mg/L).**

* Calculated using natural logarithms of concentration values.

Step 3: Rationale for Removing or Keeping Statistical Outliers

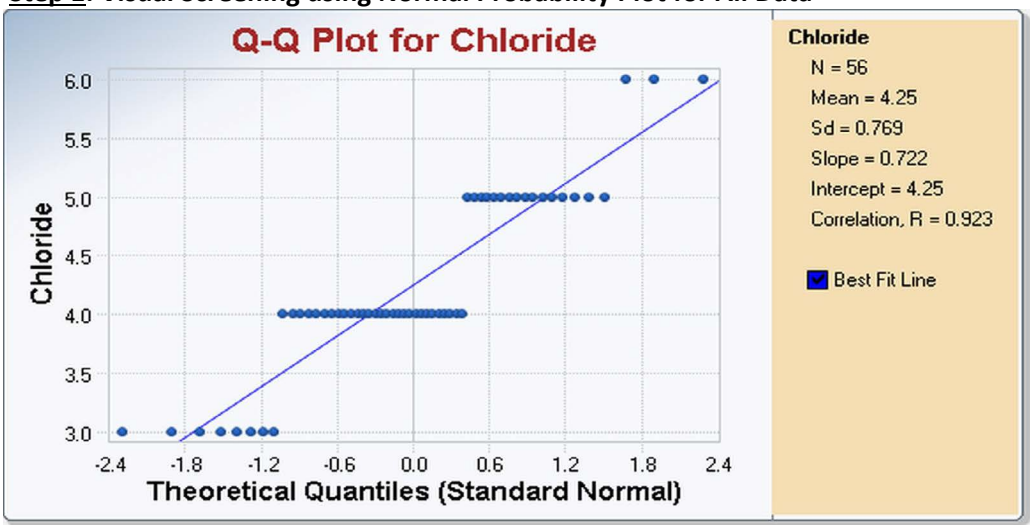
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
108	MU1-SM13	**Keep**	Consistent with other values from this well.
87	MU1-SM13	**Keep**	Consistent with other values from this well.
82	MU1-SM13	**Keep**	Consistent with other values from this well.
71	MU1-SM13	**Keep**	Consistent with other values from this well.
66	MU1-SM4	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Choride (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	4	15-May	5	29-May	4	12-Jun	4
MU1-SM2	23-Apr	4	15-May	4	29-May	5	12-Jun	4
MU1-SM3	29-Apr	3	14-May	4	28-May	4	11-Jun	4
MU1-SM4	29-Apr	3	13-May	4	27-May	4	10-Jun	3
MU1-SM5	20-Apr	5	14-May	4	28-May	4	11-Jun	4
MU1-SM6	21-Apr	5	15-May	5	29-May	5	12-Jun	4
MU1-SM7	22-Apr	5	15-May	5	29-May	4	12-Jun	5
MU1-SM8	20-Apr	4	15-May	4	29-May	3	15-Jun	3
MU1-SM9	20-Apr	4	15-May	4	29-May	4	12-Jun	4
MU1-SM10	23-Apr	5	14-May	6	28-May	5	11-Jun	6
MU1-SM11	29-Apr	5	15-May	6	29-May	5	12-Jun	5
MU1-SM12	29-Apr	4	14-May	5	28-May	4	11-Jun	4
MU1-SM13	29-Apr	4	13-May	3	27-May	3	10-Jun	3
MU1-SM14	21-Apr	5	14-May	4	28-May	4	11-Jun	4

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



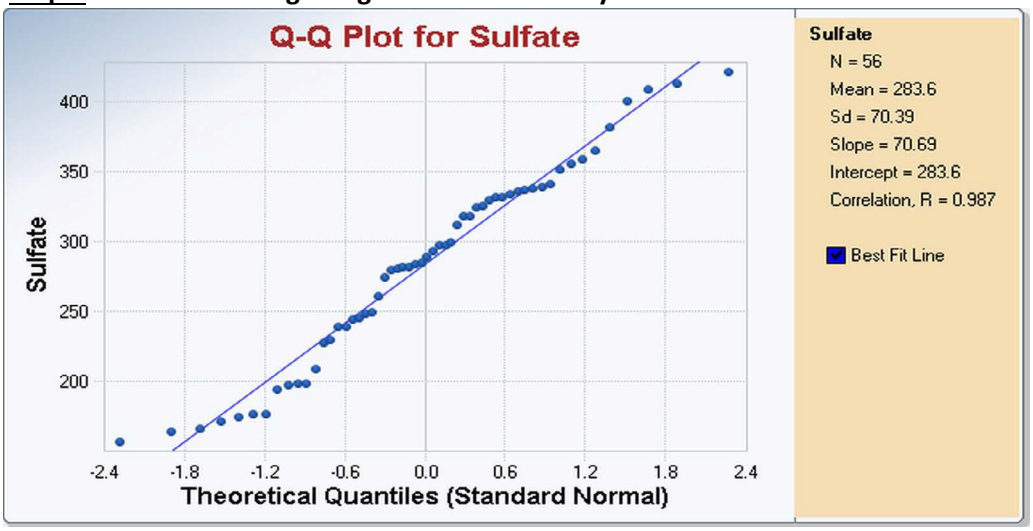
Normality assumption is reasonable with no suspected outliers; no need for formal testing. (Relatively low correlation is attributed to data precision.)

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Sulfate (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	171	15-May	176	29-May	174	12-Jun	176
MU1-SM2	23-Apr	261	15-May	297	29-May	282	12-Jun	297
MU1-SM3	29-Apr	337	14-May	325	28-May	336	11-Jun	334
MU1-SM4	29-Apr	289	13-May	284	27-May	285	10-Jun	293
MU1-SM5	20-Apr	338	14-May	332	28-May	312	11-Jun	332
MU1-SM6	21-Apr	341	15-May	352	29-May	356	12-Jun	330
MU1-SM7	22-Apr	339	15-May	359	29-May	365	12-Jun	382
MU1-SM8	20-Apr	245	15-May	239	29-May	230	15-Jun	227
MU1-SM9	20-Apr	401	15-May	413	29-May	409	12-Jun	421
MU1-SM10	23-Apr	249	14-May	239	28-May	244	11-Jun	248
MU1-SM11	29-Apr	209	15-May	194	29-May	198	12-Jun	198
MU1-SM12	29-Apr	274	14-May	282	28-May	280	11-Jun	281
MU1-SM13	29-Apr	197	13-May	164	27-May	157	10-Jun	166
MU1-SM14	21-Apr	318	14-May	299	28-May	318	11-Jun	324

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



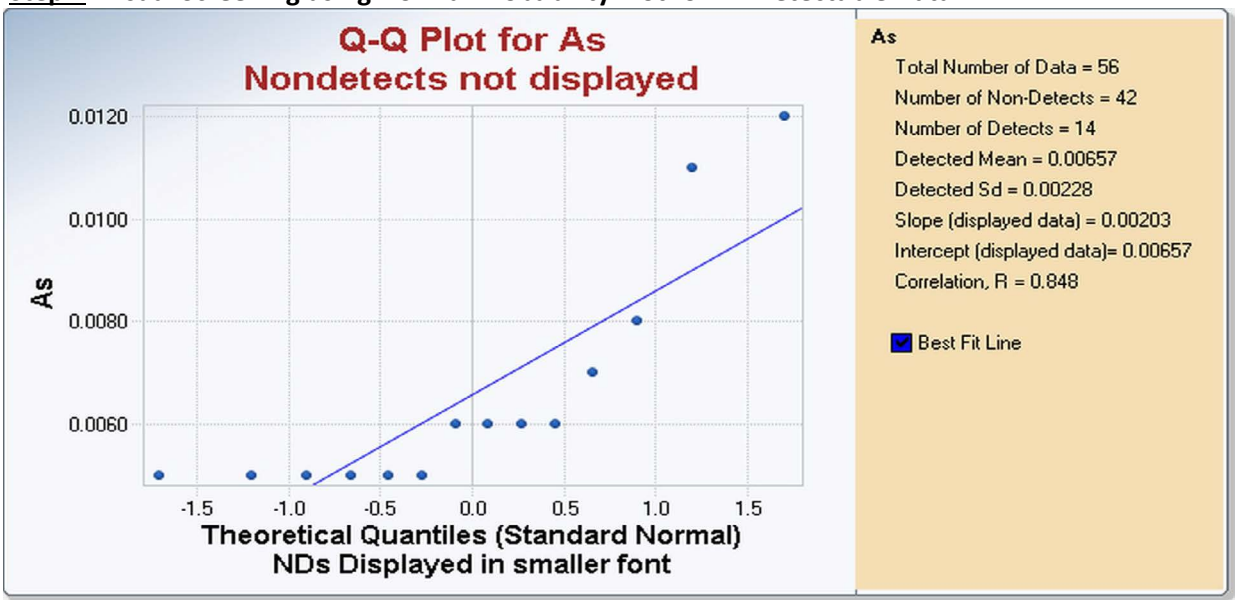
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Arsenic (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-SM2	23-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-SM3	29-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-SM4	29-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-SM5	20-Apr	0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-SM6	21-Apr	0.011	15-May	0.007	29-May	0.006	12-Jun	0.005
MU1-SM7	22-Apr	0.012	15-May	0.008	29-May	0.006	12-Jun	0.006
MU1-SM8	20-Apr	0.005	15-May	<0.005	29-May	<0.005	15-Jun	<0.005
MU1-SM9	20-Apr	0.006	15-May	0.005	29-May	<0.005	12-Jun	<0.005
MU1-SM10	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-SM11	29-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-SM12	29-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-SM13	29-Apr	0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-SM14	21-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005

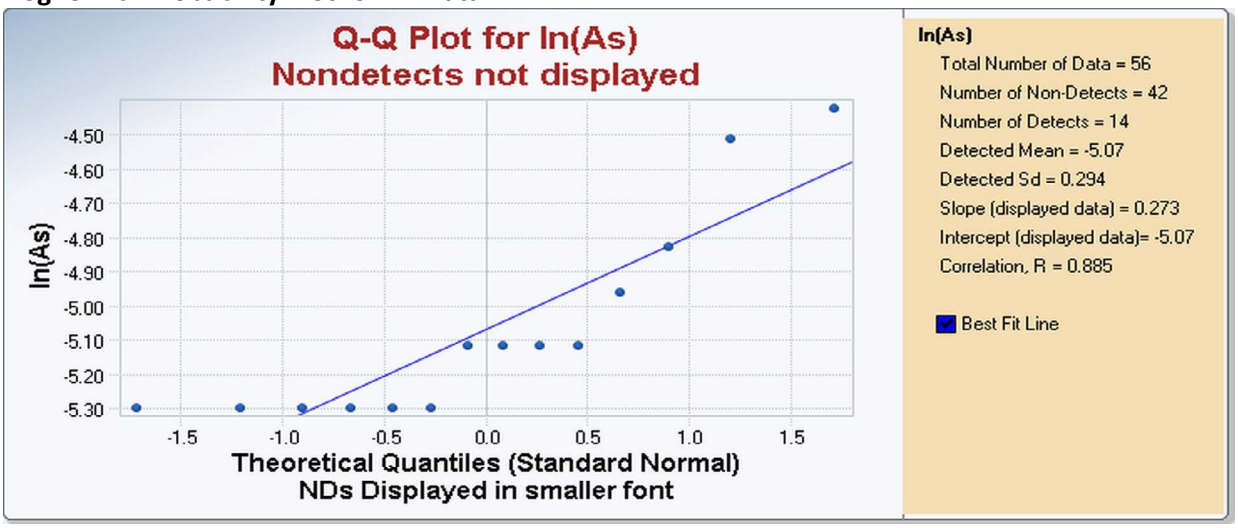
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to fit normal distribution.

Lognormal Probability Plot for All Data



Improved linear fit. Lognormal distribution assumption is reasonable with two suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Dixon's Test* (Excluding Non-Detects) (α = 0.05, Calculated using ProUCL)

Number of detectable values	13
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM6	21-Apr	-4.51	0.573	0.521	**Yes**

* Calculated using natural logarithm of concentration value; -4.51 corresponds to 0.011 mg/L.
Note: Dixon's test evaluated the least extreme outlier; since 0.011 mg/L is a statistical outlier, the more extreme value (0.012 mg/L) also is a statistical outlier.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	-5.17
Standard deviation**:	0.16
n**	12
k	4.15
Lower tolerance limit	-5.82
Upper tolerance limit	-4.52

**Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are **two Statistical Outliers: -4.42 (0.012 mg/L) and -4.51 (0.011 mg/L)**
* Calculated using natural logarithms of concentration values.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

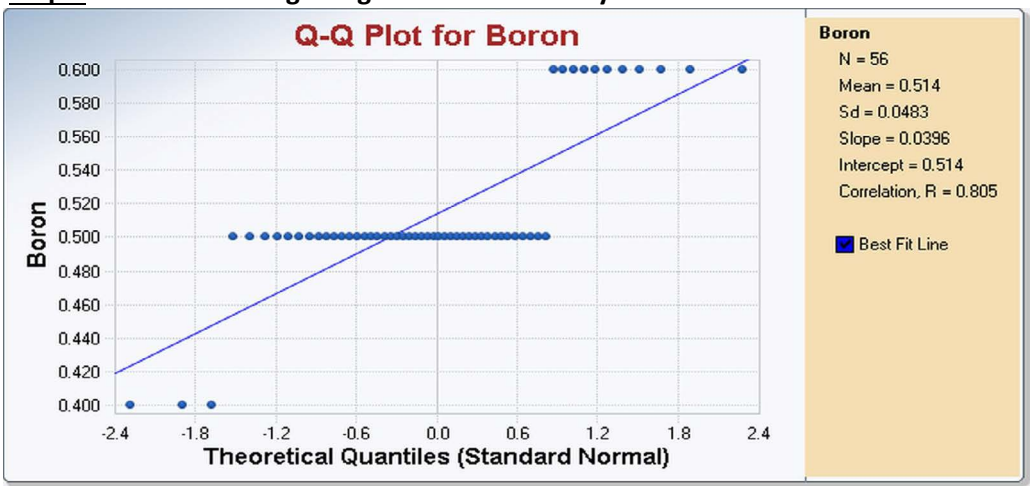
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.012	MU1-SM7	**Remove**	Anomalously high value for this well.
0.011	MU1-SM6	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Boron (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	0.5	15-May	0.5	29-May	0.5	12-Jun	0.5
MU1-SM2	23-Apr	0.5	15-May	0.5	29-May	0.5	12-Jun	0.5
MU1-SM3	29-Apr	0.6	14-May	0.5	28-May	0.6	11-Jun	0.5
MU1-SM4	29-Apr	0.6	13-May	0.5	27-May	0.5	10-Jun	0.6
MU1-SM5	20-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.5
MU1-SM6	21-Apr	0.5	15-May	0.5	29-May	0.5	12-Jun	0.5
MU1-SM7	22-Apr	0.5	15-May	0.5	29-May	0.4	12-Jun	0.5
MU1-SM8	20-Apr	0.5	15-May	0.5	29-May	0.5	15-Jun	0.5
MU1-SM9	20-Apr	0.5	15-May	0.5	29-May	0.5	12-Jun	0.5
MU1-SM10	23-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.5
MU1-SM11	29-Apr	0.6	15-May	0.5	29-May	0.5	12-Jun	0.5
MU1-SM12	29-Apr	0.6	14-May	0.6	28-May	0.6	11-Jun	0.6
MU1-SM13	29-Apr	0.5	13-May	0.6	27-May	0.5	10-Jun	0.6
MU1-SM14	21-Apr	0.4	14-May	0.5	28-May	0.4	11-Jun	0.5

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



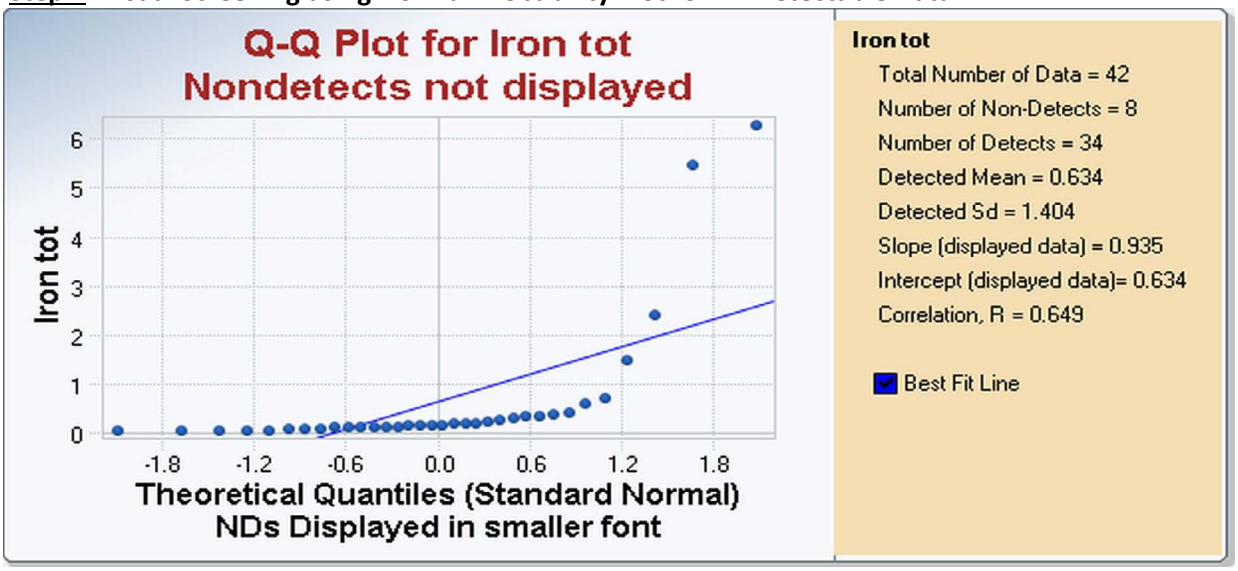
Normality assumption is reasonable with no suspected outliers; no need for formal testing. (Relatively low correlation is attributed to data precision.)

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Iron, Total (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	<0.05	15-May	0.16	29-May	0.17	Not measured	
MU1-SM2	23-Apr	0.06	15-May	2.39	29-May	1.49		
MU1-SM3	29-Apr	5.45	14-May	0.1	28-May	0.34		
MU1-SM4	29-Apr	0.72	13-May	0.09	27-May	0.05		
MU1-SM5	20-Apr	0.59	14-May	0.32	28-May	0.38		
MU1-SM6	21-Apr	<0.05	15-May	0.05	29-May	<0.05		
MU1-SM7	22-Apr	<0.05	15-May	0.12	29-May	0.1		
MU1-SM8	20-Apr	0.31	15-May	6.26	29-May	0.41		
MU1-SM9	20-Apr	0.14	15-May	0.13	29-May	0.2		
MU1-SM10	23-Apr	<0.05	14-May	0.06	28-May	<0.05		
MU1-SM11	29-Apr	<0.05	15-May	0.08	29-May	0.21		
MU1-SM12	29-Apr	0.06	14-May	0.19	28-May	0.13		
MU1-SM13	29-Apr	<0.05	13-May	0.15	27-May	0.2		
MU1-SM14	21-Apr	0.09	14-May	0.25	28-May	0.11		

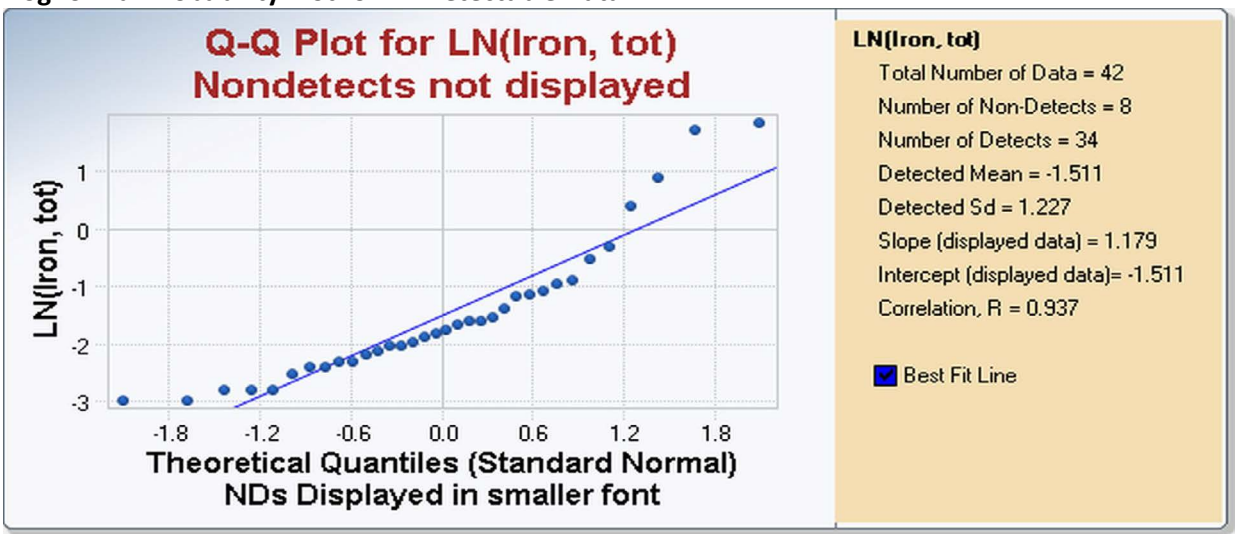
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with three suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	-1.51
Standard deviation	1.23
Number of data	34
Number of suspected outliers	3

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM8	15-May	1.834	2.768	2.97	**Yes**
2	MU1-SM3	29-Apr	1.696	3.03	2.95	**Yes**
3	MU1-SM2	15-May	0.871	2.78	2.94	**No**

* Calculated using natural logarithm of concentration values; 1.834, 1.696, and 0.871 correspond to 6.26, 5.45, and 2.39 mg/L, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	-1.80	**Calculated without suspected outliers using detectable concentrations
Standard deviation**:	0.82	
n**	31	
k	3.3344	
Lower tolerance limit	-4.52	
Upper tolerance limit	0.92	

For 5% significance level, there are **two Statistical Outliers: 1.834 (6.26 mg/L) and 1.696 (5.45 mg/L).**
* Calculated using natural logarithm of concentration value.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

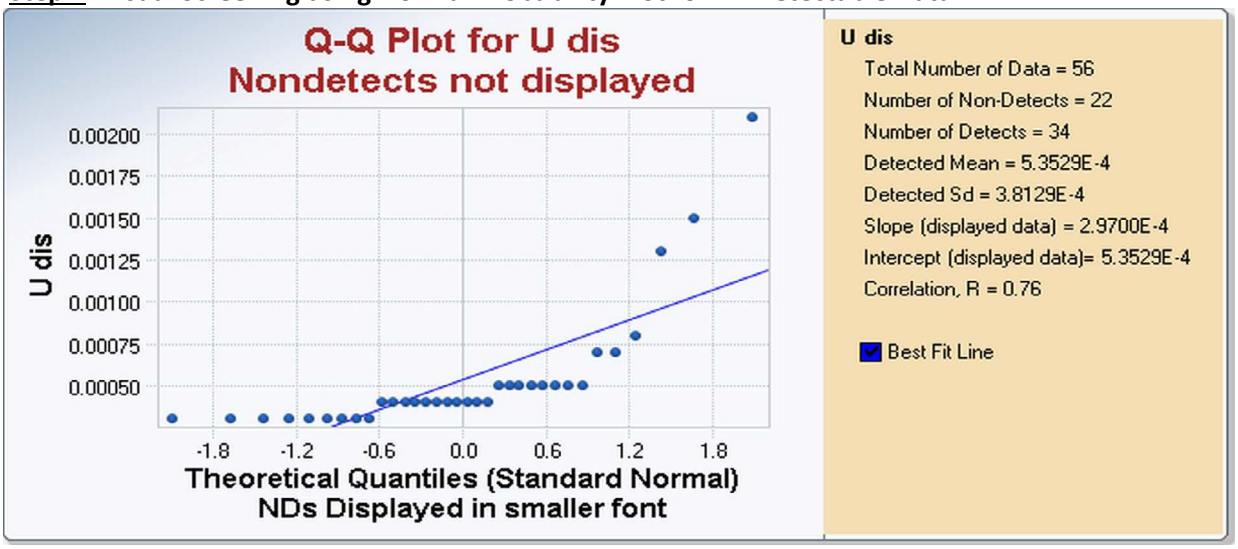
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
6.26	MU1-SM8	**Remove**	Anomalously high value for this well.
5.45	MU1-SM3	**Remove**	Anomalously high value for this well.
2.39	MU1-SM2	**Keep**	Not a statistical outlier; consistent with other results from this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Uranium, Dissolved (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	0.0005	15-May	0.0004	29-May	0.0003	12-Jun	<0.0003
MU1-SM2	23-Apr	0.0004	15-May	0.0004	29-May	0.0004	12-Jun	0.0003
MU1-SM3	29-Apr	<0.0003	14-May	<0.0003	28-May	<0.0003	11-Jun	<0.0003
MU1-SM4	29-Apr	<0.0003	13-May	0.0003	27-May	0.0013	10-Jun	0.0005
MU1-SM5	20-Apr	0.0004	14-May	<0.0003	28-May	0.0021	11-Jun	0.0003
MU1-SM6	21-Apr	0.0008	15-May	0.0005	29-May	0.0004	12-Jun	0.0004
MU1-SM7	22-Apr	0.0015	15-May	0.0007	29-May	0.0005	12-Jun	0.0005
MU1-SM8	20-Apr	<0.0003	15-May	0.0005	29-May	<0.0003	15-Jun	<0.0003
MU1-SM9	20-Apr	<0.0003	15-May	<0.0003	29-May	<0.0003	12-Jun	<0.0003
MU1-SM10	23-Apr	0.0007	14-May	0.0003	28-May	0.0003	11-Jun	0.0003
MU1-SM11	29-Apr	<0.0003	15-May	0.0004	29-May	0.0004	12-Jun	0.0003
MU1-SM12	29-Apr	<0.0003	14-May	<0.0003	28-May	<0.0003	11-Jun	<0.0003
MU1-SM13	29-Apr	0.0003	13-May	0.0004	27-May	0.0004	10-Jun	<0.0003
MU1-SM14	21-Apr	<0.0003	14-May	0.0005	28-May	0.0005	11-Jun	<0.0003

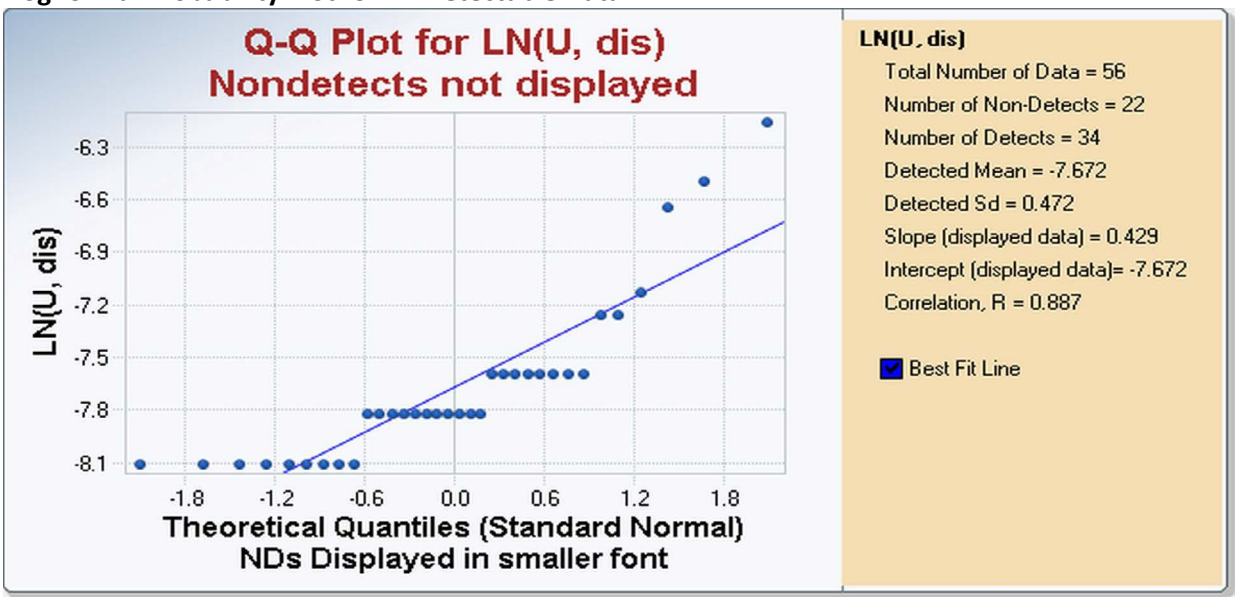
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with three suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean*	-7.67
Standard deviation*	0.47
Number of data	34
Number of suspected outliers	3

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM5	28-May	-6.166	3.239	2.97	**Yes**
2	MU1-SM7	22-Apr	-6.502	3.071	2.95	**Yes**
3	MU1-SM4	27-May	-6.645	3.309	2.94	**Yes**

* Calculated using natural logarithm of concentration values; -6.166, -6.502, and -6.645 correspond to 0.0021, 0.0015, and 0.0013 mg/L, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	-7.79	**Calculated without suspected outliers using detectable concentrations
Standard deviation**:	0.27	
n**	31	
k	3.3344	
Lower tolerance limit	-8.70	
Upper tolerance limit	-6.89	

For 5% significance level, there are **three Statistical Outliers: -6.166 (0.0021 mg/L), -6.502 (0.0015 mg/L) and -6.645 (0.0013 mg/L).**

* Calculated using natural logarithm of concentration values.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

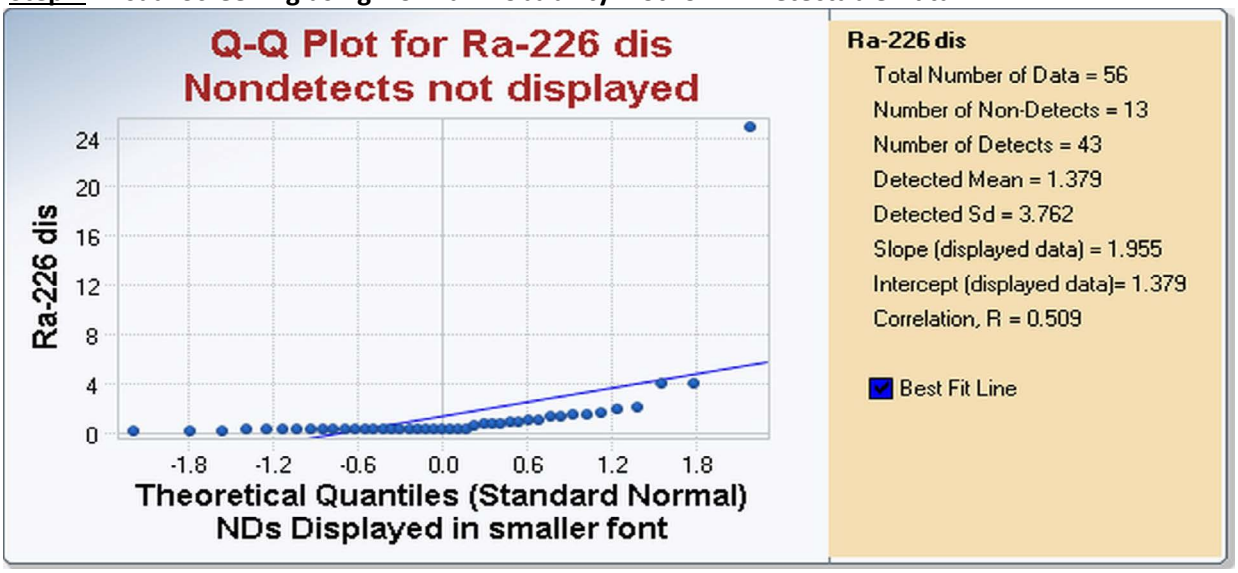
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.0021	MU1-SM5	**Remove**	Anomalously high value for this well.
0.0015	MU1-SM7	**Remove**	Anomalously high value for this well.
0.0013	MU1-SM4	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Radium-226, Dissolved (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	0.4	15-May	4.1	29-May	<0.2	12-Jun	0.3
MU1-SM2	23-Apr	0.4	15-May	0.4	29-May	1.1	12-Jun	0.9
MU1-SM3	29-Apr	0.4	14-May	1.6	28-May	0.4	11-Jun	0.2
MU1-SM4	29-Apr	<0.2	13-May	<0.2	27-May	<0.2	10-Jun	0.3
MU1-SM5	20-Apr	1.3	14-May	1.5	28-May	24.8	11-Jun	4.1
MU1-SM6	21-Apr	0.4	15-May	<0.2	29-May	<0.2	12-Jun	0.4
MU1-SM7	22-Apr	0.8	15-May	0.3	29-May	<0.2	12-Jun	0.3
MU1-SM8	20-Apr	0.7	15-May	0.3	29-May	<0.2	15-Jun	0.3
MU1-SM9	20-Apr	0.7	15-May	2.1	29-May	0.4	12-Jun	0.3
MU1-SM10	23-Apr	0.2	14-May	0.3	28-May	0.4	11-Jun	0.3
MU1-SM11	29-Apr	<0.2	15-May	0.4	29-May	<0.2	12-Jun	0.4
MU1-SM12	29-Apr	<0.2	14-May	1.3	28-May	1.5	11-Jun	0.6
MU1-SM13	29-Apr	<0.2	13-May	0.9	27-May	2	10-Jun	<0.2
MU1-SM14	21-Apr	0.3	14-May	1	28-May	0.2	11-Jun	0.3

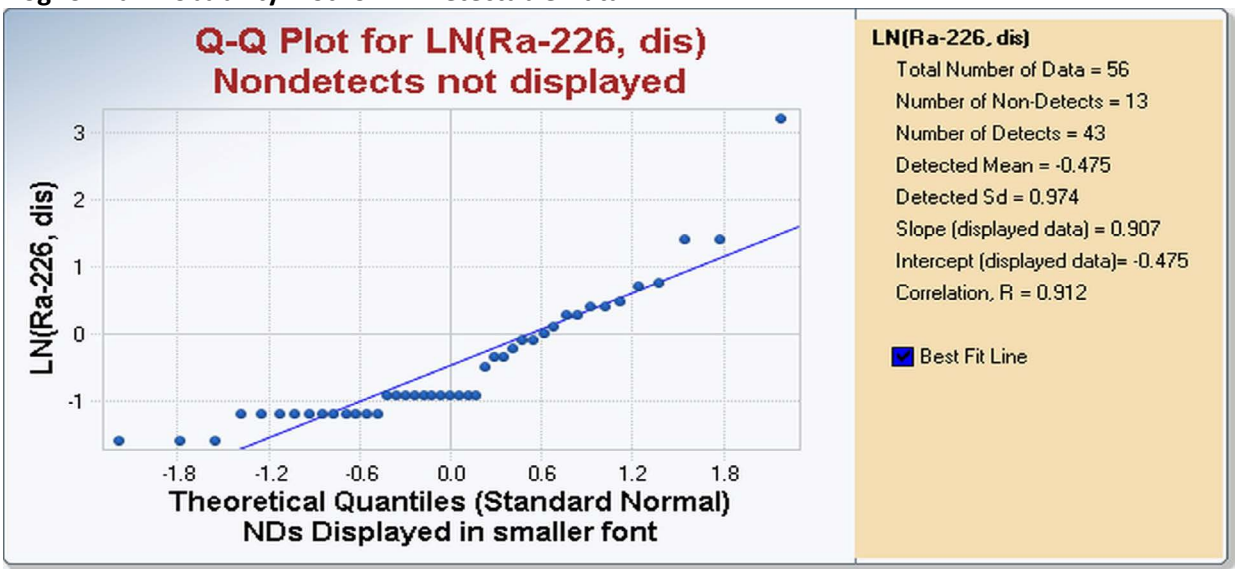
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with three suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean*	-0.475
Standard deviation*	0.974
Number of data	43
Number of suspected outliers	3

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM5	28-May	3.211	3.83	3.07	**Yes**
2	MU1-SM5	11-Jun	1.411	2.482	3.06	**No**
3	MU1-SM1	15-May	1.411	2.731	3.05	**No**

* Calculated using natural logarithm of concentration values; 3.211, 1.411, and 1.411 correspond to 24.8, 4.1, and 4.1 pCi/L, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	-0.66	**Calculated without suspected outlier using detectable concentrations
Standard deviation**:	0.67	
n**	40	
k	3.213	
Lower tolerance limit	-2.829	
Upper tolerance limit	1.505	

For 5% significance level, there is **one Statistical Outlier: 3.211 (24.8 pCi/L).**
* Calculated using natural logarithm of concentration values.

Step 3: Rationale for Removing or Keeping Statistical Outliers

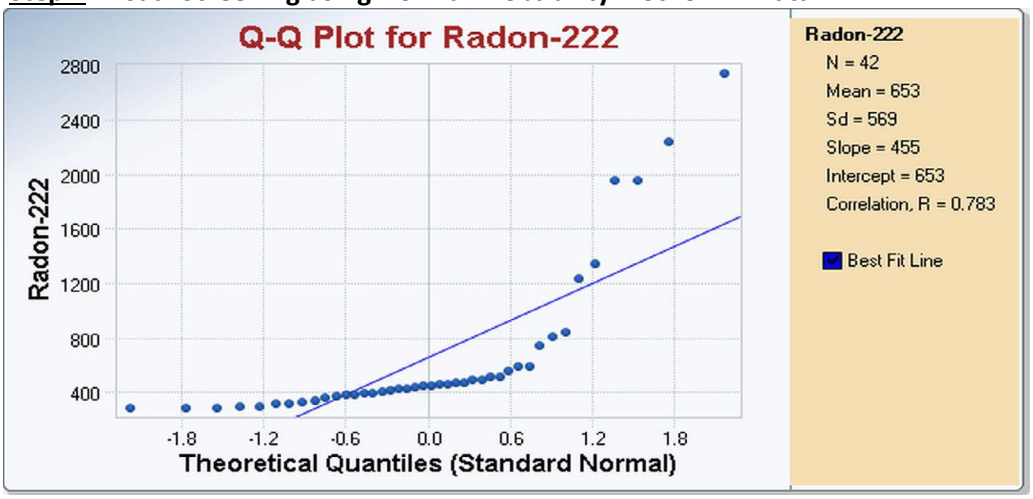
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
24.8	MU1-SM5	**Remove**	Anomalously high value for this well.
4.1	MU1-SM1	**Keep**	Not a statistical outlier.
4.1	MU1-SM5	**Keep**	Not a statistical outlier.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Radon-222 (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	464	15-May	492	29-May	279	Not measured	
MU1-SM2	23-Apr	439	15-May	451	29-May	1,230		
MU1-SM3	29-Apr	465	14-May	1,950	28-May	379		
MU1-SM4	29-Apr	510	13-May	593	27-May	552		
MU1-SM5	20-Apr	453	14-May	840	28-May	2,240		
MU1-SM6	21-Apr	491	15-May	317	29-May	286		
MU1-SM7	22-Apr	394	15-May	323	29-May	288		
MU1-SM8	20-Apr	319	15-May	355	29-May	297		
MU1-SM9	20-Apr	400	15-May	590	29-May	295		
MU1-SM10	23-Apr	462	14-May	1,340	28-May	515		
MU1-SM11	29-Apr	374	15-May	417	29-May	421		
MU1-SM12	29-Apr	389	14-May	420	28-May	2,740		
MU1-SM13	29-Apr	449	13-May	740	27-May	801		
MU1-SM14	21-Apr	382	14-May	1,950	28-May	332		

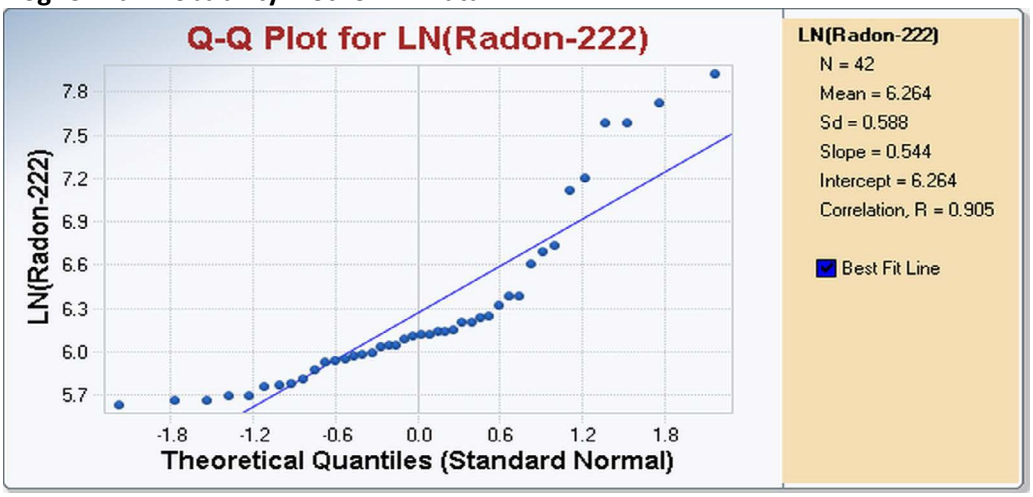
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



Improved linear fit. Lognormal distribution assumption is reasonable with six suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean*	6.26
Standard deviation*	0.59
Number of data	42
Number of suspected outliers	6

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM12	28-May	7.916	2.842	3.06	**Yes**
2	MU1-SM5	28-May	7.714	2.793	3.05	**Yes**
3	MU1-SM3	14-May	7.576	2.873	3.04	**Yes**
4	MU1-SM14	14-May	7.576	3.287	3.03	**Yes**
5	MU1-SM10	14-May	7.2	2.941	3.01	**Yes**
6	MU1-SM2	29-May	7.115	3.156	2.998	**Yes**

* Calculated using natural logarithm of concentration values; 7.916, 7.714, 7.576, 7.576 , 7.2, and 7.115 correspond to 2,740, 2,240, 1,950, 1,950, 1,340, and 1,230 pCi/L, respectively.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	6.05	**Calculated without
Standard deviation**:	0.28	suspected outliers
n**	36	
k	3.2602	
Lower tolerance limit	5.1	
Upper tolerance limit	7.0	

For 5% significance level, there are **six Statistical Outliers: 7.915 (2,740 pCi/L), 7.714 (2,240 pCi/L), 7.576 (1,950 pCi/L), 7.576 (1,950 pCi/L), 7.2 (1,340 pCi/L), and 7.115 (1,230 pCi/L).**
* Calculated using natural logarithm of concentration value.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

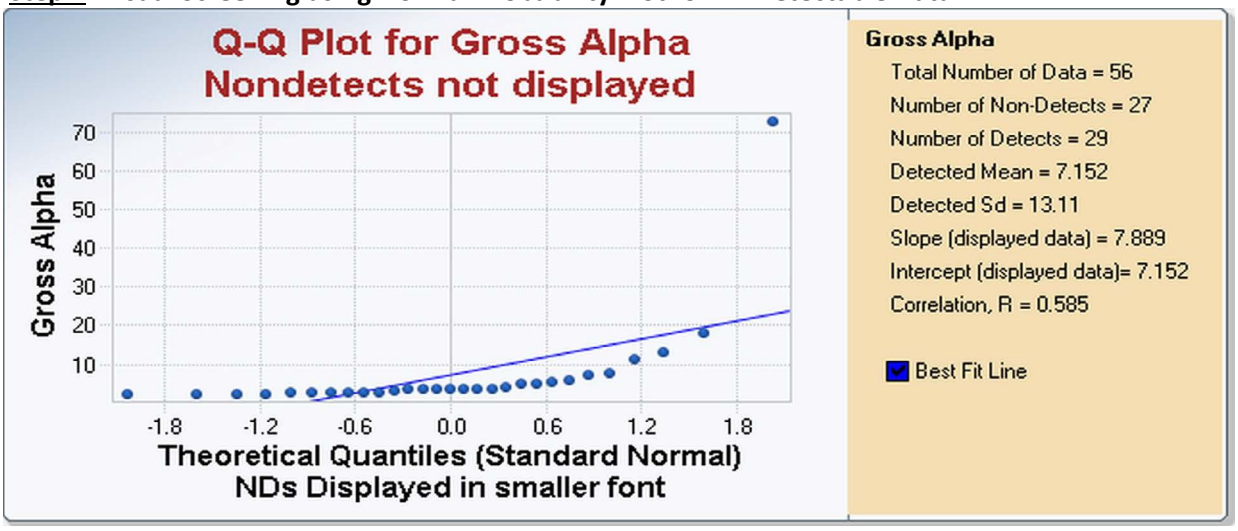
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
2,740	MU1-SM12	**Remove**	Anomalously high value for this well.
2,240	MU1-SM5	**Remove**	Anomalously high value for this well.
1,950	MU1-SM3	**Remove**	Anomalously high value for this well.
1,950	MU1-SM14	**Remove**	Anomalously high value for this well.
1,340	MU1-SM10	**Remove**	Anomalously high value for this well.
1,230	MU1-SM2	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Gross Alpha (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	7.5	15-May	11.4	29-May	<2	12-Jun	2.8
MU1-SM2	23-Apr	2.6	15-May	<2	29-May	5.3	12-Jun	3.7
MU1-SM3	29-Apr	2.1	14-May	3.7	28-May	<2	11-Jun	<2
MU1-SM4	29-Apr	2.5	13-May	<2	27-May	<2	10-Jun	<2
MU1-SM5	20-Apr	3.3	14-May	7.1	28-May	72.7	11-Jun	17.9
MU1-SM6	21-Apr	2.1	15-May	<2	29-May	<2	12-Jun	<2
MU1-SM7	22-Apr	2.8	15-May	<2	29-May	3.4	12-Jun	3.7
MU1-SM8	20-Apr	13	15-May	2.3	29-May	<2	15-Jun	<2
MU1-SM9	20-Apr	5	15-May	3.7	29-May	<2	12-Jun	<2
MU1-SM10	23-Apr	<2	14-May	<2	28-May	3.6	11-Jun	<2
MU1-SM11	29-Apr	<2	15-May	<2	29-May	<2	12-Jun	<2
MU1-SM12	29-Apr	<2	14-May	4.9	28-May	3.9	11-Jun	<2
MU1-SM13	29-Apr	<2	13-May	2.7	27-May	5.8	10-Jun	<2
MU1-SM14	21-Apr	2.2	14-May	2.8	28-May	<2	11-Jun	2.9

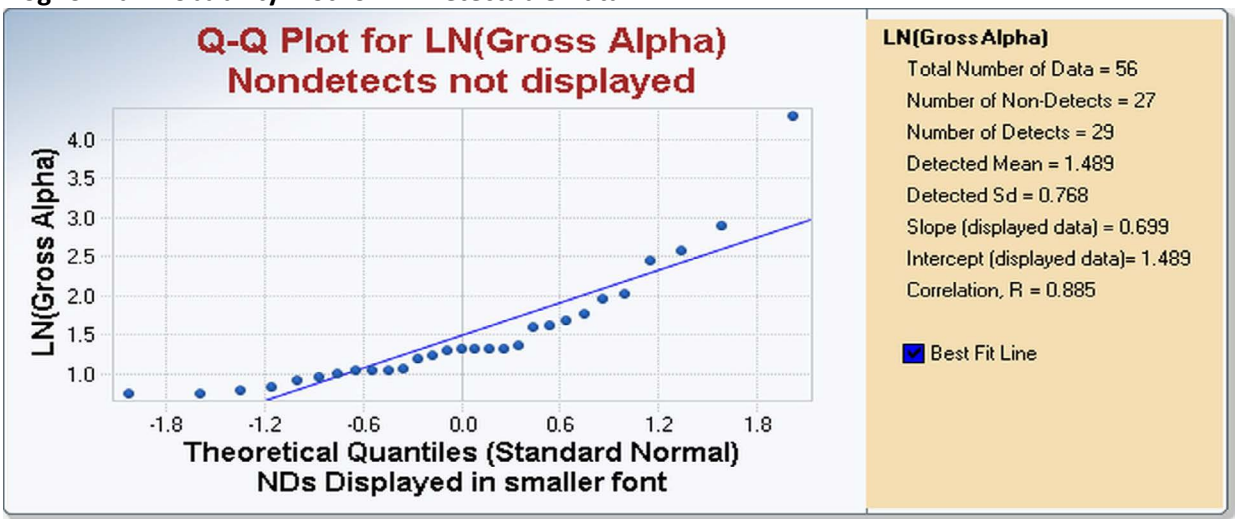
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with one suspected high outlier.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean*	1.489
Standard deviation*	0.768
Number of data	29
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM5	28-May	4.286	3.708	2.89	**Yes**

* Calculated using natural logarithm of concentration values; 4.286 corresponds to 72.7 pCi/L.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	1.39
Standard deviation**:	0.56
n**	28
k	3.3928
Lower tolerance limit	-0.50
Upper tolerance limit	3.28

**Calculated without suspected outlier using detectable concentrations

For 5% significance level, there is **one Statistical Outlier: 4.286 (72.7 pCi/L).**
* Calculated using natural logarithm of concentration values.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

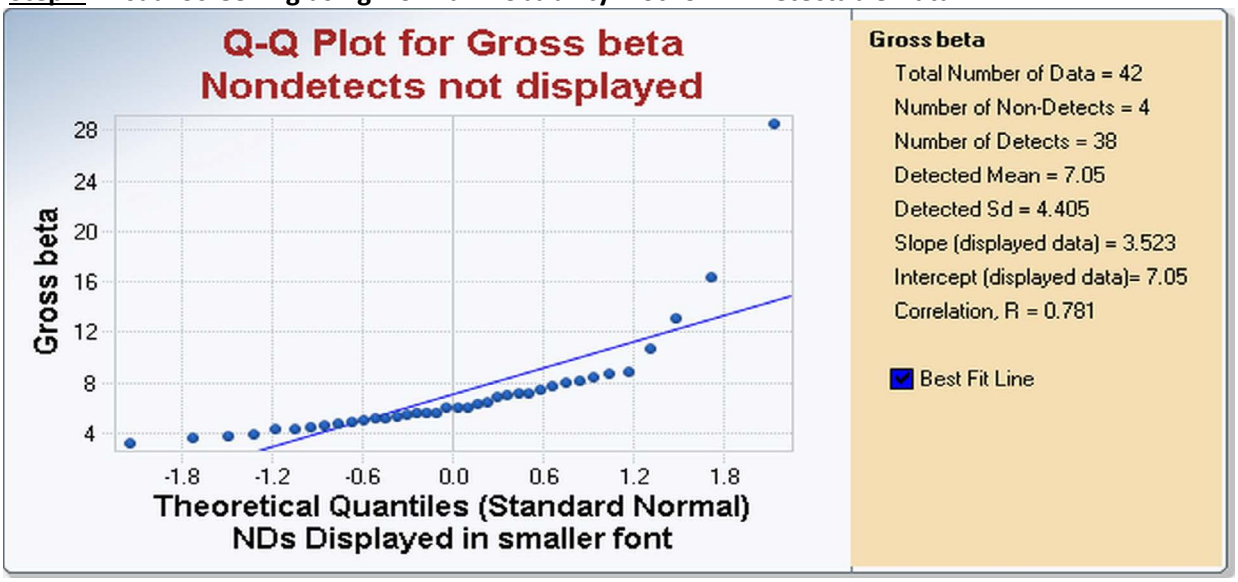
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
72.7	MU1-SM5	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Gross Beta (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	8.7	15-May	6.2	29-May	7.4	Not measured	
MU1-SM2	23-Apr	7.1	15-May	8.4	29-May	8.8		
MU1-SM3	29-Apr	5.1	14-May	5.0	28-May	<3		
MU1-SM4	29-Apr	4.4	13-May	5.6	27-May	4.2		
MU1-SM5	20-Apr	5.2	14-May	6.0	28-May	28.4		
MU1-SM6	21-Apr	8.0	15-May	16.3	29-May	5.4		
MU1-SM7	22-Apr	4.7	15-May	6.8	29-May	5.6		
MU1-SM8	20-Apr	13.1	15-May	7.6	29-May	3.2		
MU1-SM9	20-Apr	10.7	15-May	5.5	29-May	3.7		
MU1-SM10	23-Apr	6.0	14-May	4.6	28-May	5.9		
MU1-SM11	29-Apr	5.1	15-May	4.2	29-May	<3		
MU1-SM12	29-Apr	3.9	14-May	6.4	28-May	<3		
MU1-SM13	29-Apr	7.1	13-May	7.0	27-May	8.1		
MU1-SM14	21-Apr	3.6	14-May	4.9	28-May	<3		

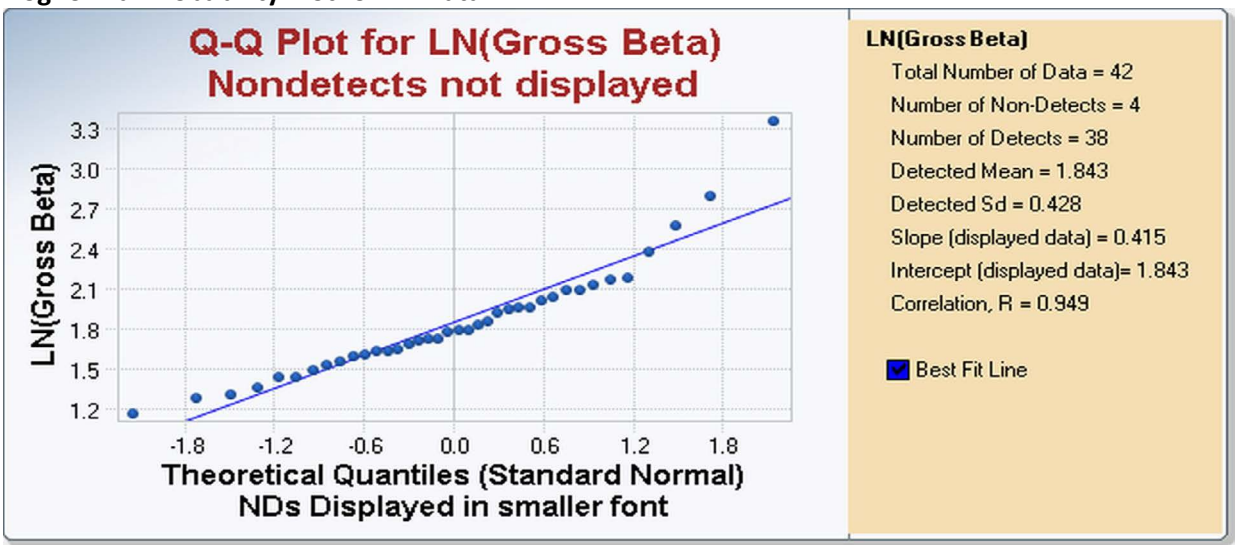
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



Improved linear fit. Lognormal distribution assumption is reasonable with one suspected high outlier.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean*	1.84
Standard deviation*	0.43
Number of data	38
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-SM5	28-May	3.346	3.563	3.01	**Yes**

* Calculated using natural logarithm of concentration values; 3.346 corresponds to 28.4 pCi/L.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	1.73
Standard deviation**:	0.39
n**	41
k	3.2034
Lower tolerance limit	0.47
Upper tolerance limit	3.00

**Calculated without suspected outlier using detectable concentrations

For 5% significance level, there is **one Statistical Outlier: 3.346 (28.4 pCi/L).**
* Calculated using natural logarithm of concentration values.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
28.4	MU1-SM5	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Deep Monitor (DM)**

Note: The detection frequency for the following parameters was less than 25%; therefore, no attempt was made to fit these parameters to a data distribution or to perform visual screening or statistical evaluation of potential outliers.

Parameter	Detection Frequency (%)
Nitrate/Nitrite as N	9
Barium, dissolved	0
Cadmium, dissolved	0
Chromium, dissolved	0
Copper, dissolved	20
Lead, dissolved	0
Manganese, dissolved	0
Mercury, dissolved	0
Molybdenum, dissolved	2
Nickel, dissolved	0
Selenium, dissolved	0
Silver, dissolved	2
Uranium, suspended	10
Vanadium, dissolved	0
Lead-210, dissolved	24
Lead-210, suspended	17
Polonium-210, dissolved	0
Polonium-210, suspended	0
Radium-228, dissolved	4
Thorium-230, dissolved	0
Thorium-230, suspended	7

Monitoring Interval: **Deep Monitor (DM)**

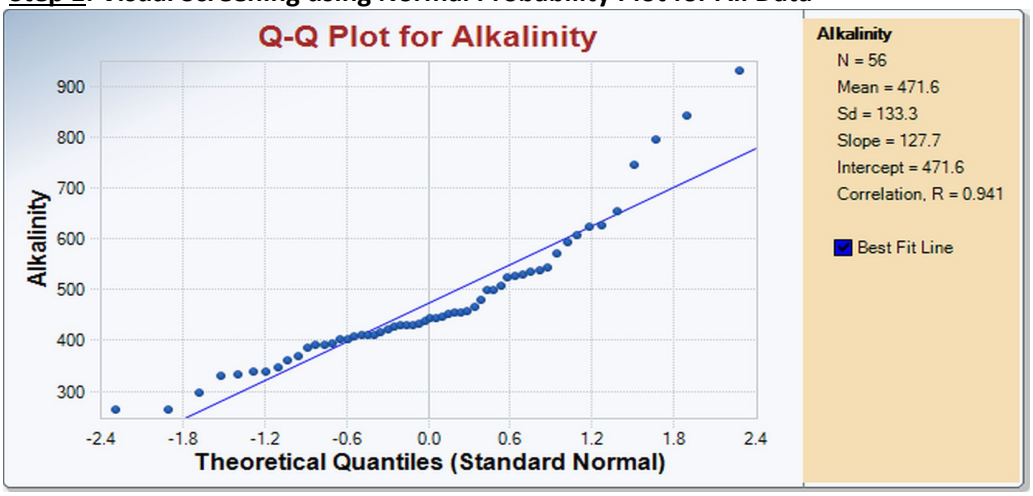
Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	329	14-May	361	28-May	390	11-Jun	385
MU1-DM2	29-Apr	338	14-May	444	28-May	455	11-Jun	429
MU1-DM3A	28-Apr	368	15-May	263	29-May	295	12-Jun	331
MU1-DM4	29-Apr	410	14-May	420	28-May	450	11-Jun	414
MU1-DM5	29-Apr	263	14-May	339	28-May	389	11-Jun	409
MU1-DM6	28-Apr	347	15-May	406	29-May	400	12-Jun	430
MU1-DM7	28-Apr	401	15-May	543	29-May	428	12-Jun	526
MU1-DM8	28-Apr	458	15-May	437	29-May	433	12-Jun	426
MU1-DM9	28-Apr	653	15-May	453	29-May	523	12-Jun	537
MU1-DM10	28-Apr	393	15-May	410	29-May	446	12-Jun	465
MU1-DM11	28-Apr	497	15-May	507	29-May	499	12-Jun	533
MU1-DM12	28-Apr	607	14-May	529	28-May	479	11-Jun	443
MU1-DM13	28-Apr	569	14-May	592	28-May	624	11-Jun	795
MU1-DM14	28-Apr	930	15-May	626	29-May	744	12-Jun	841

Suspected outlier based on visual screening

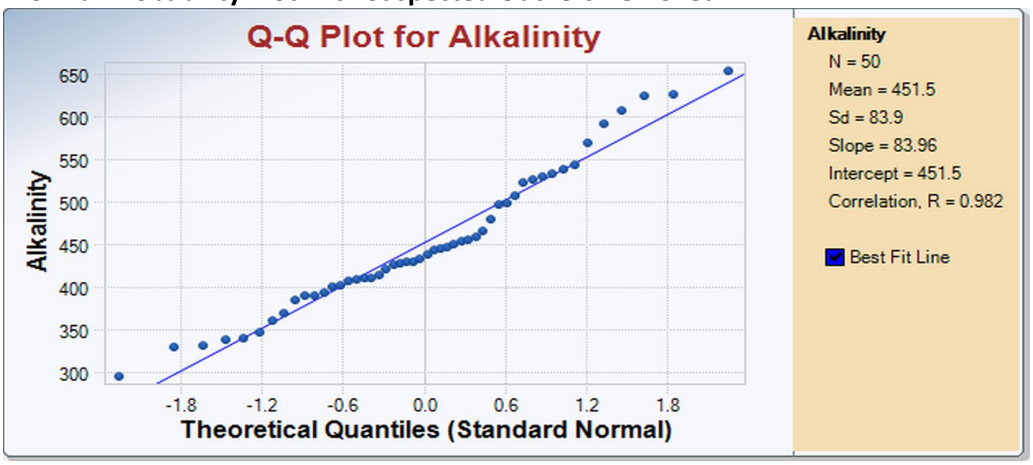
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected low outliers and four suspected high outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	471.6
Standard deviation	133.3
Number of data	56
Number of suspected outliers	6

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM14	28-Apr	930	3.469	3.172	**Yes**
2	MU1-DM14	12-Jun	841	3.176	3.162	**Yes**
3	MU1-DM13	11-Jun	795	3.136	3.158	**No**
4	MU1-DM14	29-May	744	2.995	3.148	**No**
5	MU1-DM3A	15-May	263	nc*	nc*	**nc***
6	MU1-DM5	29-Apr	263	nc*	nc*	**nc***

*nc - not calculated, since ProUCL does not recognize this value as a potential outlier.

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	451.5	*Calculated without
Standard deviation*:	83.9	suspected outliers
n*	50	
k	3.126	
Lower tolerance limit	189	
Upper tolerance limit	714	

For 5% significance level, there are **four Statistical Outliers: 930, 841, 795, and 744.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

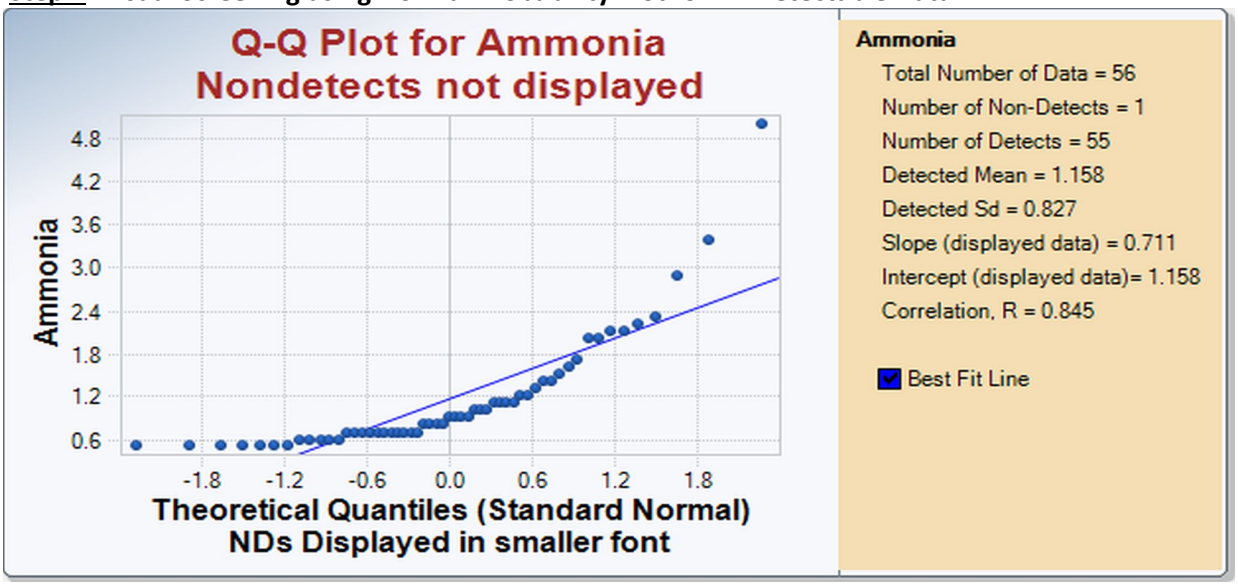
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
930	MU1-DM14	**Remove**	Anomalously high value for this well.
841	MU1-DM14	**Remove**	Anomalously high value for this well.
795	MU1-DM13	**Remove**	Anomalously high value for this well.
744	MU1-DM14	**Keep**	Inconclusive statistical results; consistent with other results from this well.
263	MU1-DM3A	**Keep**	Consistent with other results from this well.
263	MU1-DM5	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Ammonia (mg/L as N)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	1.1	14-May	0.8	28-May	0.5	11-Jun	0.6
MU1-DM2	29-Apr	0.7	14-May	0.7	28-May	0.7	11-Jun	1.0
MU1-DM3A	28-Apr	5.0	15-May	2.1	29-May	1.0	12-Jun	0.8
MU1-DM4	29-Apr	0.5	14-May	0.7	28-May	0.5	11-Jun	0.5
MU1-DM5	29-Apr	2.9	14-May	0.9	28-May	0.7	11-Jun	0.7
MU1-DM6	28-Apr	1.1	15-May	0.7	29-May	0.7	12-Jun	0.7
MU1-DM7	28-Apr	2.0	15-May	0.9	29-May	0.8	12-Jun	0.7
MU1-DM8	28-Apr	2.1	15-May	1.4	29-May	1.1	12-Jun	0.8
MU1-DM9	28-Apr	2.3	15-May	1.6	29-May	<0.1	12-Jun	1.2
MU1-DM10	28-Apr	1.0	15-May	0.6	29-May	0.6	12-Jun	0.6
MU1-DM11	28-Apr	0.6	15-May	0.5	29-May	0.5	12-Jun	0.5
MU1-DM12	28-Apr	3.4	14-May	2.2	28-May	1.7	11-Jun	1.5
MU1-DM13	28-Apr	1.2	14-May	0.9	28-May	0.7	11-Jun	0.9
MU1-DM14	28-Apr	2.0	15-May	1.1	29-May	1.4	12-Jun	1.3

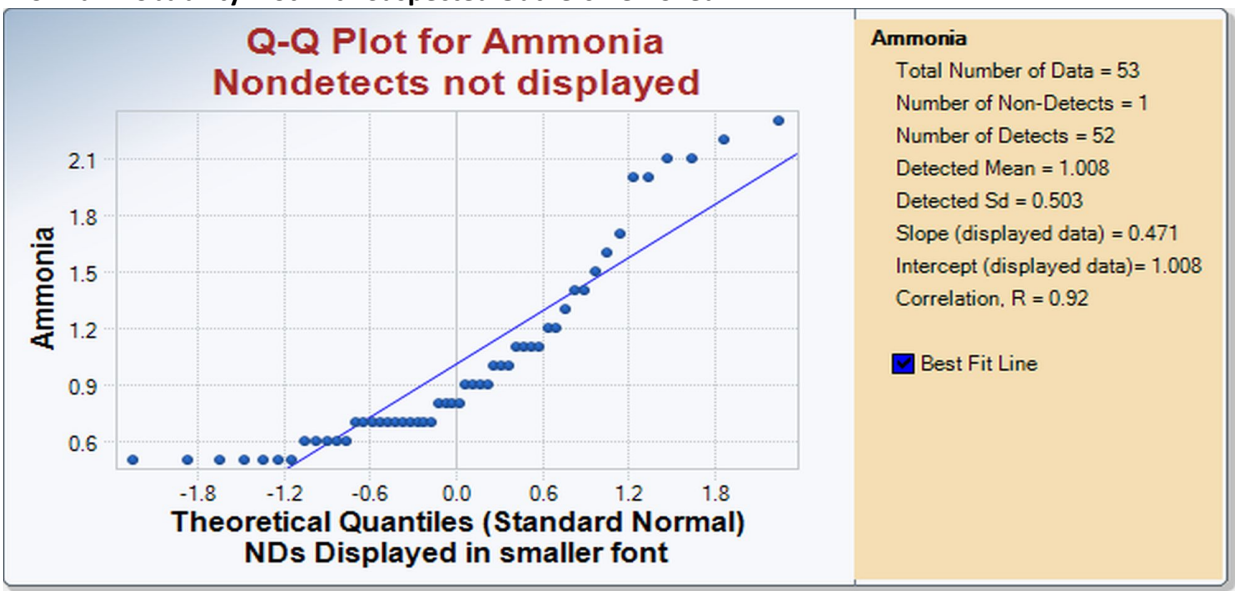
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with three suspected high outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	1.2
Standard deviation	0.8
Number of data	55
Number of suspected outliers	3

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM3A	28-Apr	5.0	4.689	3.165	**Yes**
2	MU1-DM12	28-Apr	3.4	3.6	3.155	**Yes**
3	MU1-DM5	29-Apr	2.9	3.303	3.150	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	1.0
Standard deviation*:	0.5
n*	52
k	3.1132
Lower tolerance limit	-0.6
Upper tolerance limit	2.6

*Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are **three Statistical Outliers: 5.0, 3.4 and 2.9.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

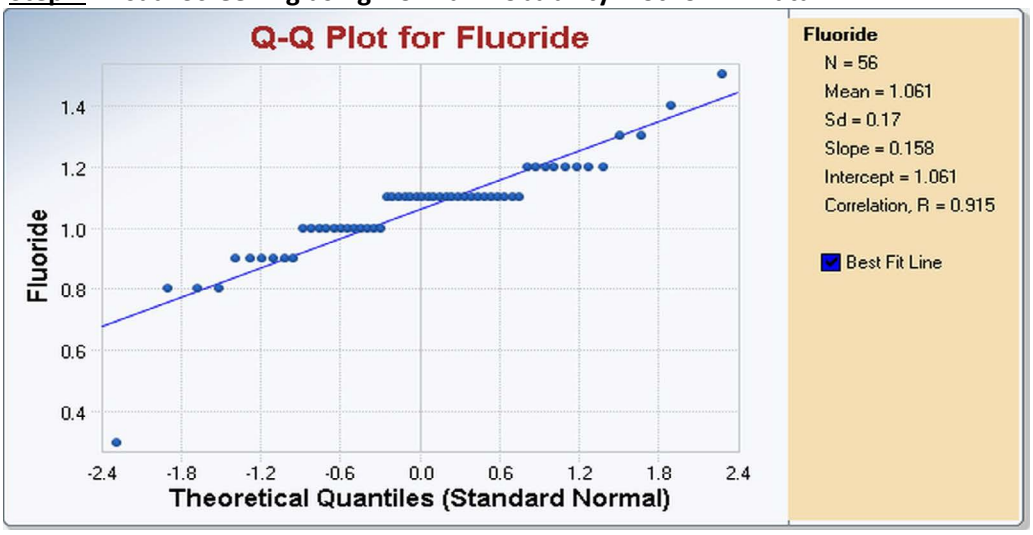
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
5.0	MU1-DM3A	**Remove**	Anomalously high value for this well.
3.4	MU1-DM12	**Remove**	Anomalously high value for this well.
2.9	MU1-DM5	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Fluoride (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	1.3	14-May	1.0	28-May	1.0	11-Jun	0.9
MU1-DM2	29-Apr	1.1	14-May	1.1	28-May	1.1	11-Jun	1.1
MU1-DM3A	28-Apr	1.1	15-May	1.0	29-May	0.9	12-Jun	1.0
MU1-DM4	29-Apr	1.2	14-May	1.2	28-May	1.2	11-Jun	1.3
MU1-DM5	29-Apr	1.2	14-May	1.1	28-May	1.1	11-Jun	1.1
MU1-DM6	28-Apr	1.0	15-May	1.1	29-May	1.1	12-Jun	1.1
MU1-DM7	28-Apr	1.2	15-May	0.3	29-May	1.2	12-Jun	1.1
MU1-DM8	28-Apr	1.0	15-May	1.1	29-May	1.0	12-Jun	1.0
MU1-DM9	28-Apr	0.9	15-May	1.1	29-May	1.4	12-Jun	1.5
MU1-DM10	28-Apr	1.1	15-May	1.1	29-May	1.1	12-Jun	1.0
MU1-DM11	28-Apr	1.1	15-May	1.1	29-May	1.2	12-Jun	1.2
MU1-DM12	28-Apr	0.8	14-May	0.9	28-May	0.9	11-Jun	0.8
MU1-DM13	28-Apr	1.1	14-May	1.1	28-May	1.1	11-Jun	1.0
MU1-DM14	28-Apr	0.8	15-May	1.0	29-May	1.0	12-Jun	0.9

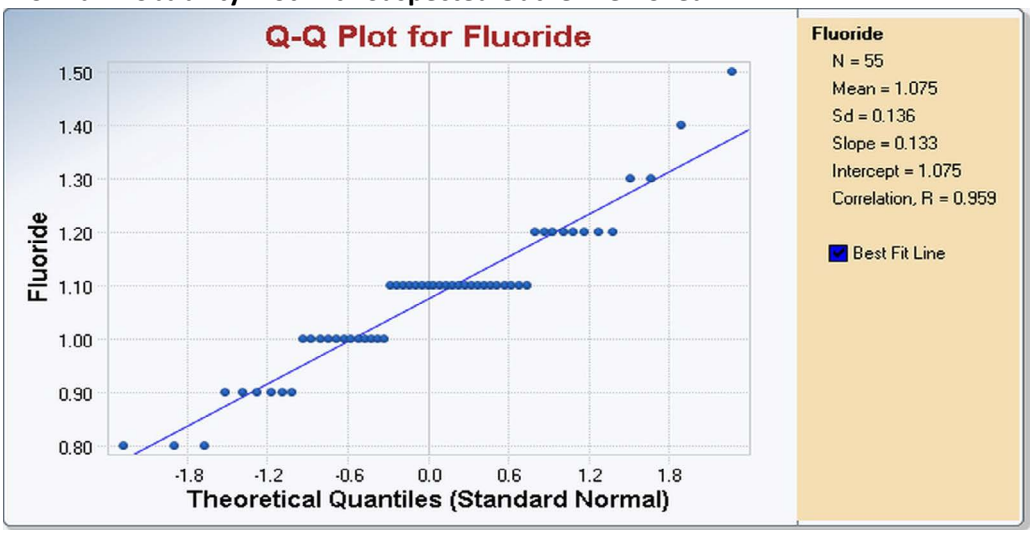
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with one suspected low outlier.

Normal Probability Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	1.061
Standard deviation	0.17
Number of data	56
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM7	15-May	0.3	4.51	3.172	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	1.07	*Calculated without
Standard deviation*:	0.14	suspected outlier
n*	55	
k	3.094	
Lower tolerance limit	0.65	
Upper tolerance limit	1.50	

For 5% significance level, there is **one Statistical Outlier: 0.3**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

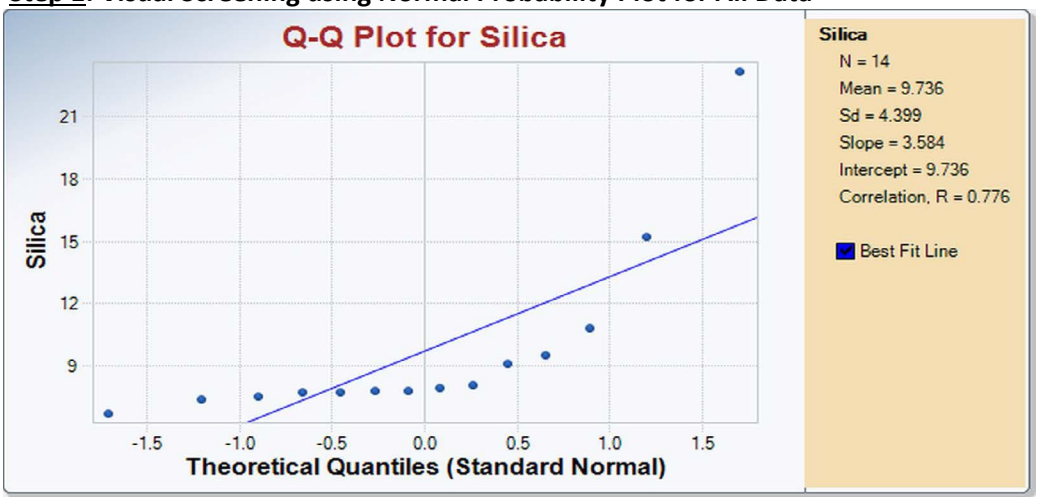
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.3	MU1-DM7	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Silica (mg/L as SiO_2)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	Not measured		Not measured		Not measured		11-Jun	7.4
MU1-DM2							11-Jun	7.5
MU1-DM3A							12-Jun	9.5
MU1-DM4							11-Jun	7.7
MU1-DM5							11-Jun	9.1
MU1-DM6							12-Jun	8.1
MU1-DM7							12-Jun	15.2
MU1-DM8							12-Jun	7.8
MU1-DM9							12-Jun	23.1
MU1-DM10							12-Jun	10.8
MU1-DM11							12-Jun	7.9
MU1-DM12							11-Jun	7.8
MU1-DM13							11-Jun	7.7
MU1-DM14							12-Jun	6.7

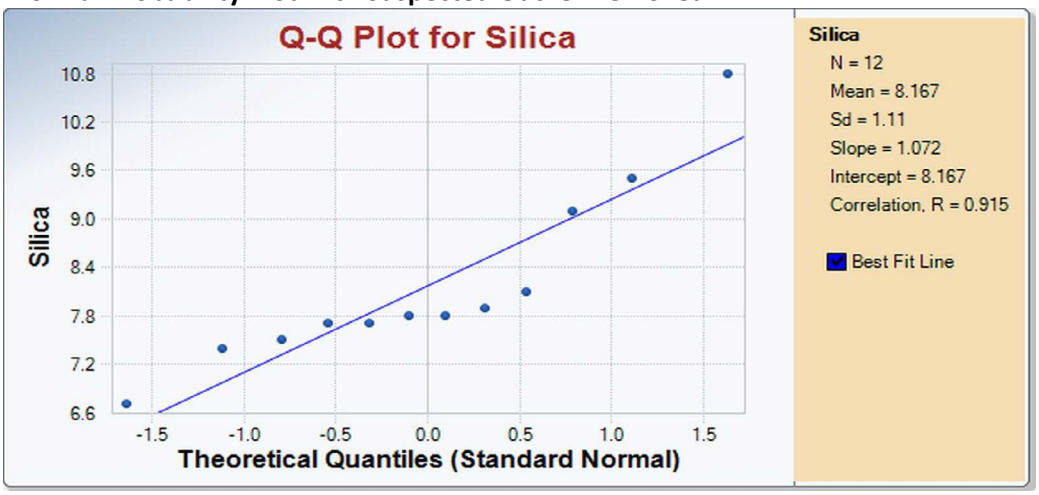
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected high outliers.

Normal Probability Plot with Suspected Outlier Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Dixon's Test* (Excluding Non-Detects) (α = 0.05, Calculated using ProUCL)

Number of detectable values	13
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM7	12-Jun	15.2	0.731	0.521	**Yes**

Note: Dixon's test evaluated the least extreme outlier; since 15..2 mg/L is a statistical outlier, the most extreme value (23.1 mg/L) also is a statistical outlier.

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	7.9
Standard deviation*:	0.8
n*	11
k	4.277
Lower tolerance limit	4.6
Upper tolerance limit	11.2

*Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are **two statistical outliers: 23.1 and 15.2.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

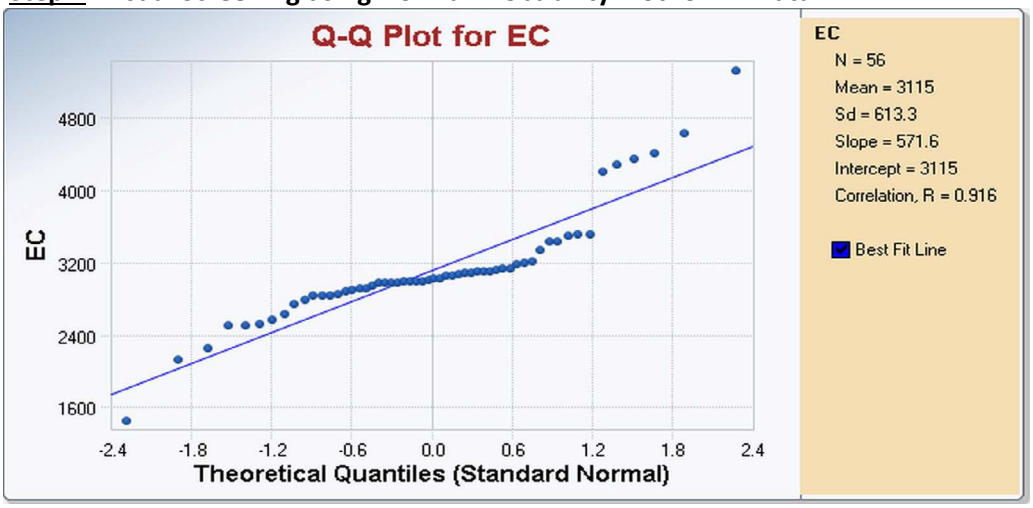
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
23.1	MU1-DM9	**Keep**	Inconclusive without additional data.
15.2	MU1-DM7	**Keep**	Inconclusive without additional data.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Conductivity, Laboratory (µmhos/cm)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	1,450	14-May	2,790	28-May	2,840	11-Jun	2,920
MU1-DM2	29-Apr	2,130	14-May	2,980	28-May	2,890	11-Jun	2,950
MU1-DM3A	28-Apr	3,130	15-May	3,330	29-May	3,510	12-Jun	3,500
MU1-DM4	29-Apr	2,630	14-May	2,880	28-May	2,740	11-Jun	2,850
MU1-DM5	29-Apr	2,830	14-May	3,140	28-May	3,060	11-Jun	3,200
MU1-DM6	28-Apr	2,840	15-May	2,970	29-May	2,990	12-Jun	2,970
MU1-DM7	28-Apr	3,050	15-May	2,250	29-May	2,990	12-Jun	3,110
MU1-DM8	28-Apr	3,100	15-May	3,070	29-May	3,090	12-Jun	3,100
MU1-DM9	28-Apr	4,410	15-May	3,210	29-May	3,180	12-Jun	3,090
MU1-DM10	28-Apr	2,990	15-May	2,970	29-May	2,990	12-Jun	3,030
MU1-DM11	28-Apr	2,560	15-May	2,510	29-May	2,500	12-Jun	2,520
MU1-DM12	28-Apr	5,320	14-May	4,630	28-May	4,280	11-Jun	4,340
MU1-DM13	28-Apr	2,920	14-May	3,030	28-May	3,000	11-Jun	3,430
MU1-DM14	28-Apr	4,210	15-May	3,100	29-May	3,430	12-Jun	3,510

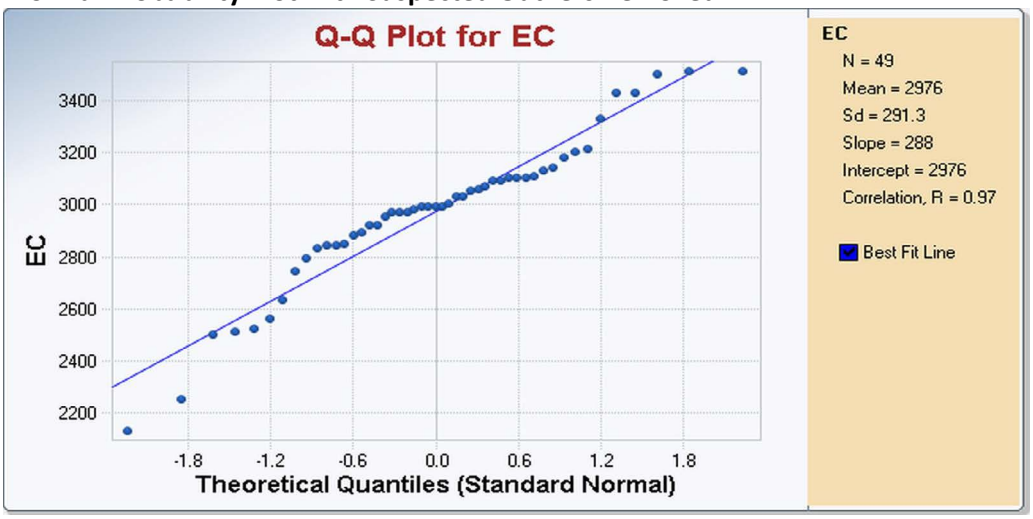
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with three suspected low outliers and six suspected high outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	3,115
Standard deviation	613.3
Number of data	56
Number of suspected outliers	7

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM12	28-Apr	5,320	3.628	3.172	**Yes**
2	MU1-DM1	29-Apr	1,450	3.01	3.162	**Yes**
3	MU1-DM12	14-May	4,630	3.073	3.158	**Yes**
4	MU1-DM9	28-Apr	4,410	2.943	3.148	**Yes**
5	MU1-DM12	11-Jun	4,340	3.092	3.138	**Yes**
6	MU1-DM12	28-May	4,280	3.313	3.131	**Yes**
7	MU1-DM14	28-Apr	4,210	3.589	3.124	**Yes**
8	MU1-DM2	29-Apr	2,130	2.902	3.118	**No**
9	MU1-DM7	15-May	2,250	2.786	3.111	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	3,009	*Calculated without suspected outliers
Standard deviation*:	245.8	
n*	47	
k	3.1494	
Lower tolerance limit	2,235	
Upper tolerance limit	3,783	

For 5% significance level, there are **eight Statistical Outliers: 5,320, 4,630, 4,410, 4,340, 4,280, 4,210, 2,130, and 1,450.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

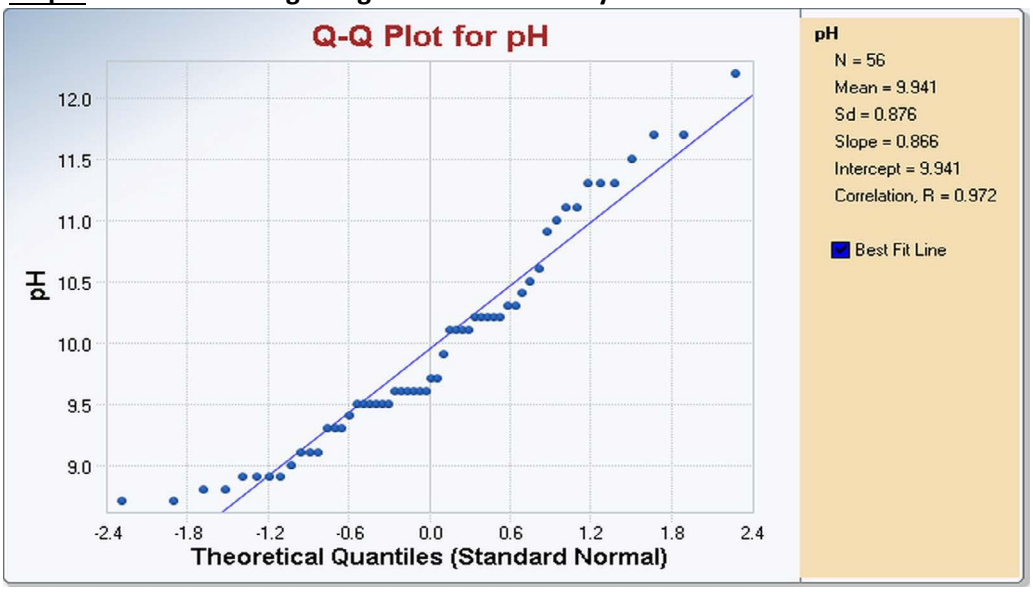
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
5,320	MU1-DM12	**Remove**	Anomalously high value for this well.
4,630	MU1-DM12	**Keep**	Consistent with other results from this well.
4,410	MU1-DM9	**Remove**	Anomalously high value for this well.
4,340	MU1-DM12	**Keep**	Consistent with other results from this well.
4,280	MU1-DM12	**Keep**	Consistent with other results from this well.
4,210	MU1-DM14	**Remove**	Anomalously high value for this well.
2,250	MU1-DM7	**Remove**	Anomalously low value for this well.
2,130	MU1-DM2	**Remove**	Anomalously low value for this well.
1,450	MU1-DM1	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **pH, Laboratory (s.u.)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	9.6	14-May	9.3	28-May	9.0	11-Jun	9.1
MU1-DM2	29-Apr	9.1	14-May	8.9	28-May	8.9	11-Jun	9.1
MU1-DM3A	28-Apr	10.9	15-May	10.5	29-May	9.6	12-Jun	9.6
MU1-DM4	29-Apr	8.8	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-DM5	29-Apr	10.4	14-May	9.9	28-May	9.6	11-Jun	9.6
MU1-DM6	28-Apr	10.2	15-May	9.7	29-May	9.5	12-Jun	9.5
MU1-DM7	28-Apr	11.0	15-May	8.9	29-May	10.2	12-Jun	10.3
MU1-DM8	28-Apr	10.1	15-May	10.3	29-May	9.7	12-Jun	9.5
MU1-DM9	28-Apr	12.2	15-May	10.1	29-May	11.5	12-Jun	11.3
MU1-DM10	28-Apr	10.2	15-May	9.6	29-May	9.5	12-Jun	9.5
MU1-DM11	28-Apr	9.5	15-May	9.4	29-May	9.3	12-Jun	9.3
MU1-DM12	28-Apr	8.9	14-May	11.7	28-May	11.3	11-Jun	11.3
MU1-DM13	28-Apr	10.2	14-May	10.2	28-May	10.1	11-Jun	11.1
MU1-DM14	28-Apr	11.7	15-May	10.1	29-May	10.6	12-Jun	11.1

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



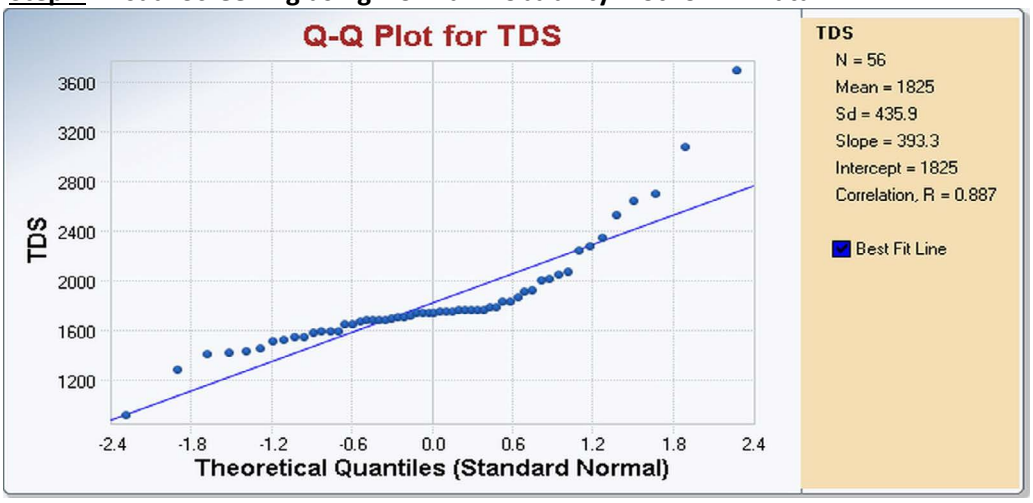
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Total Dissolved Solids (TDS) (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	910	14-May	1,540	28-May	1,710	11-Jun	1,690
MU1-DM2	29-Apr	1,280	14-May	1,670	28-May	1,820	11-Jun	1,760
MU1-DM3A	28-Apr	2,040	15-May	2,060	29-May	2,240	12-Jun	2,270
MU1-DM4	29-Apr	1,510	14-May	1,520	28-May	1,590	11-Jun	1,570
MU1-DM5	29-Apr	1,780	14-May	1,780	28-May	1,910	11-Jun	1,920
MU1-DM6	28-Apr	1,580	15-May	1,640	29-May	1,730	12-Jun	1,680
MU1-DM7	28-Apr	1,680	15-May	1,700	29-May	1,680	12-Jun	1,760
MU1-DM8	28-Apr	1,760	15-May	1,760	29-May	1,730	12-Jun	1,730
MU1-DM9	28-Apr	3,690	15-May	1,540	29-May	1,680	12-Jun	1,580
MU1-DM10	28-Apr	1,760	15-May	1,740	29-May	1,730	12-Jun	1,750
MU1-DM11	28-Apr	1,450	15-May	1,400	29-May	1,420	12-Jun	1,410
MU1-DM12	28-Apr	3,070	14-May	2,520	28-May	2,690	11-Jun	2,640
MU1-DM13	28-Apr	1,700	14-May	1,640	28-May	1,750	11-Jun	1,820
MU1-DM14	28-Apr	2,340	15-May	1,860	29-May	2,000	12-Jun	2,010

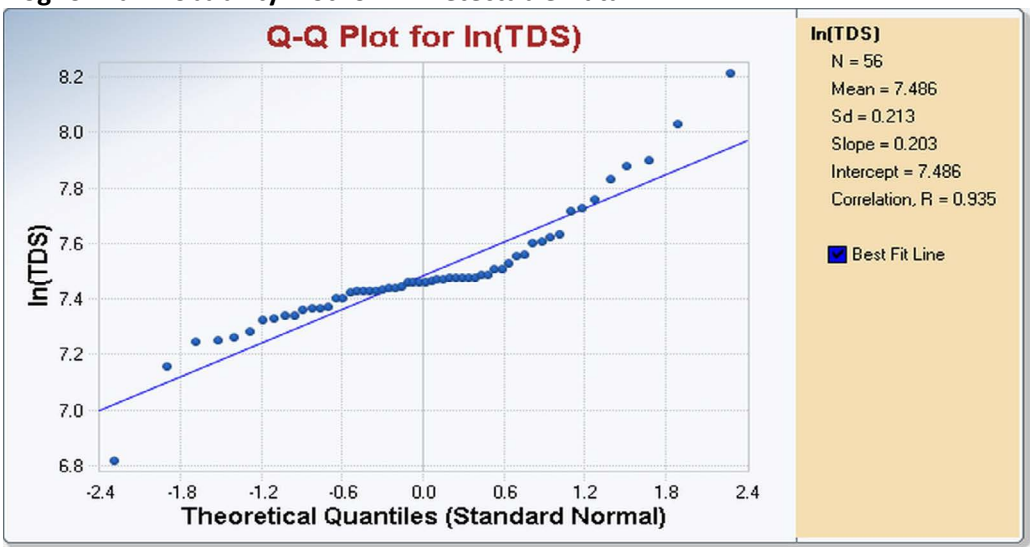
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected low outliers and two suspected high outliers.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with two suspected low outliers and two suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test* (α = 0.05, Calculated using ProUCL)

Mean	7.49
Standard deviation	0.21
Number of data	56
Number of suspected outliers	4

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM9	28-Apr	8.213	3.443	3.172	**Yes**
2	MU1-DM1	29-Apr	6.813	3.455	3.162	**Yes**
3	MU1-DM12	28-Apr	8.029	3.216	3.158	**Yes**
4	MU1-DM2	29-Apr	7.155	nc**	nc**	**nc****

*Calculated using natural logarithms of concentration values; 8.213, 6.813, 8.029, and 7.155 correspond to 3,690, 910, 3,070, and 1,280 mg/L, respectively.

**nc - not calculated, since ProUCL does not recognize this value as a potential outlier.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	7.48	**Calculated without suspected outliers
Standard deviation**:	0.15	
n**	52	
k	3.1132	
Lower tolerance limit	7.02	
Upper tolerance limit	7.94	

For 5% significance level, there are **three Statistical Outliers: 8.213 (3,690 mg/L), 8.029 (3,070 mg/L), and 6.813 (910 mg/L).**

* Calculated using natural logarithm of concentration value.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

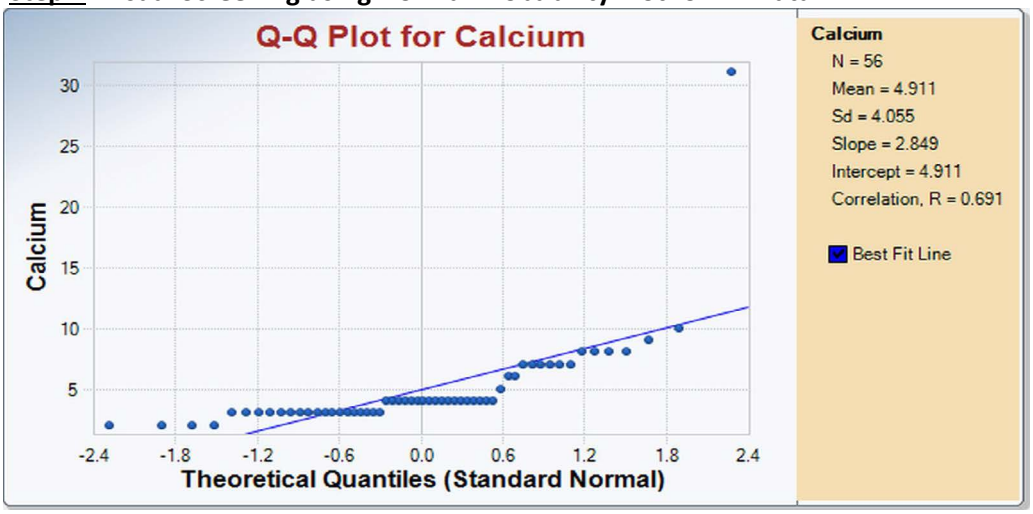
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
3,690	MU1-DM9	**Remove**	Anomalously high value for this well.
3,070	MU1-DM12	**Remove**	Anomalously high value for this well.
1,280	MU1-DM2	**Remove**	Anomalously low value for this well.
910	MU1-DM1	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Calcium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	4	14-May	6	28-May	8	11-Jun	7
MU1-DM2	29-Apr	7	14-May	8	28-May	8	11-Jun	8
MU1-DM3A	28-Apr	10	15-May	4	29-May	4	12-Jun	4
MU1-DM4	29-Apr	7	14-May	7	28-May	7	11-Jun	7
MU1-DM5	29-Apr	4	14-May	2	28-May	4	11-Jun	3
MU1-DM6	28-Apr	2	15-May	3	29-May	4	12-Jun	3
MU1-DM7	28-Apr	3	15-May	4	29-May	4	12-Jun	3
MU1-DM8	28-Apr	3	15-May	3	29-May	3	12-Jun	3
MU1-DM9	28-Apr	31	15-May	6	29-May	4	12-Jun	3
MU1-DM10	28-Apr	2	15-May	4	29-May	4	12-Jun	4
MU1-DM11	28-Apr	4	15-May	3	29-May	3	12-Jun	3
MU1-DM12	28-Apr	9	14-May	5	28-May	3	11-Jun	2
MU1-DM13	28-Apr	3	14-May	4	28-May	3	11-Jun	3
MU1-DM14	28-Apr	4	15-May	4	29-May	3	12-Jun	4

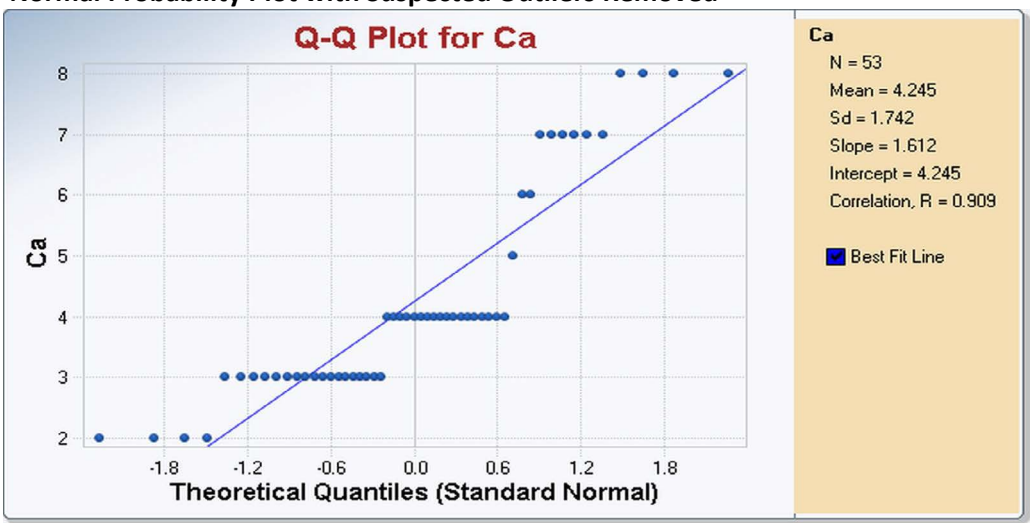
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with three suspected high outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear correlation; normality assumption is reasonable.
(Relatively low linear correlation is attributed to data precision - data points are grouped in 1 mg/L increments.)

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	4.911
Standard deviation	4.055
Number of data	56
Number of suspected outliers	3

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM9	28-Apr	31	6.491	3.172	**Yes**
2	MU1-DM3A	28-Apr	10	2.811	3.162	**No**
3	MU1-DM12	28-Apr	9	2.532	3.158	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	4.2	*Calculated without
Standard deviation*:	1.7	suspected outliers
n*	53	
k	3.1068	
Lower tolerance limit	-1.2	
Upper tolerance limit	9.7	

For 5% significance level, there are **two Statistical Outliers: 31 and 10.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

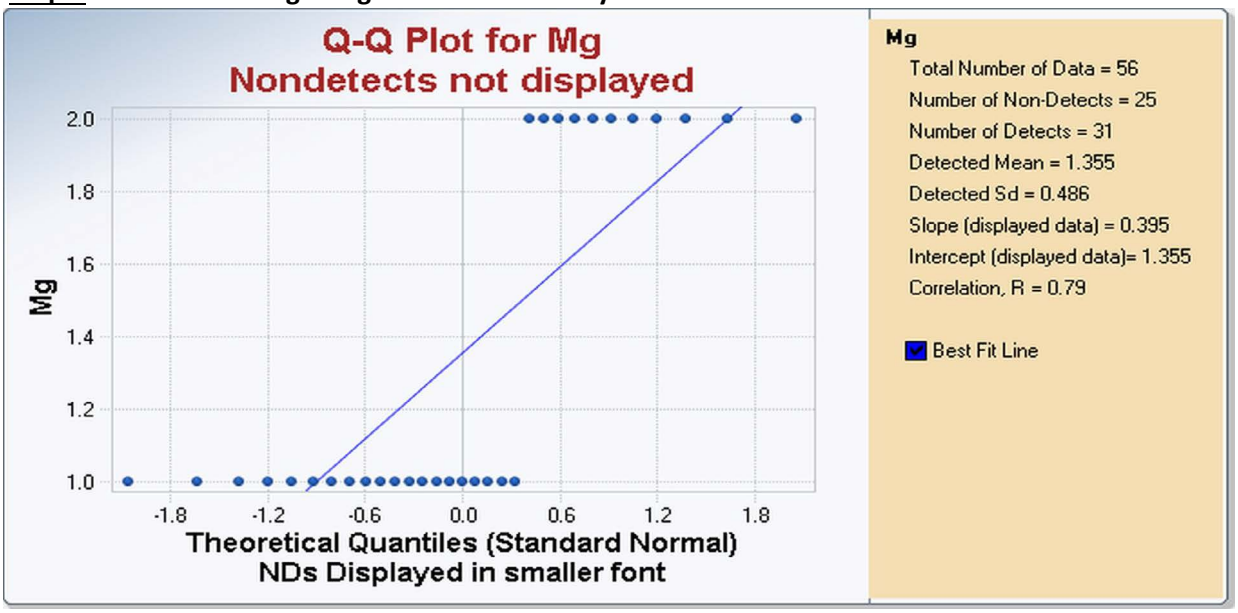
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
31	MU1-DM9	**Remove**	Anomalously high value for this well.
10	MU1-DM3A	**Remove**	Anomalously high value for this well.
9	MU1-DM12	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Magnesium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	<1	14-May	1	28-May	2	11-Jun	2
MU1-DM2	29-Apr	2	14-May	2	28-May	2	11-Jun	2
MU1-DM3A	28-Apr	<1	15-May	<1	29-May	<1	12-Jun	<1
MU1-DM4	29-Apr	2	14-May	2	28-May	2	11-Jun	2
MU1-DM5	29-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-DM6	28-Apr	<1	15-May	1	29-May	1	12-Jun	1
MU1-DM7	28-Apr	<1	15-May	<1	29-May	1	12-Jun	<1
MU1-DM8	28-Apr	1	15-May	1	29-May	1	12-Jun	1
MU1-DM9	28-Apr	<1	15-May	<1	29-May	<1	12-Jun	<1
MU1-DM10	28-Apr	<1	15-May	1	29-May	2	12-Jun	1
MU1-DM11	28-Apr	1	15-May	1	29-May	1	12-Jun	1
MU1-DM12	28-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-DM13	28-Apr	1	14-May	1	28-May	1	11-Jun	<1
MU1-DM14	28-Apr	<1	15-May	1	29-May	<1	12-Jun	1

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



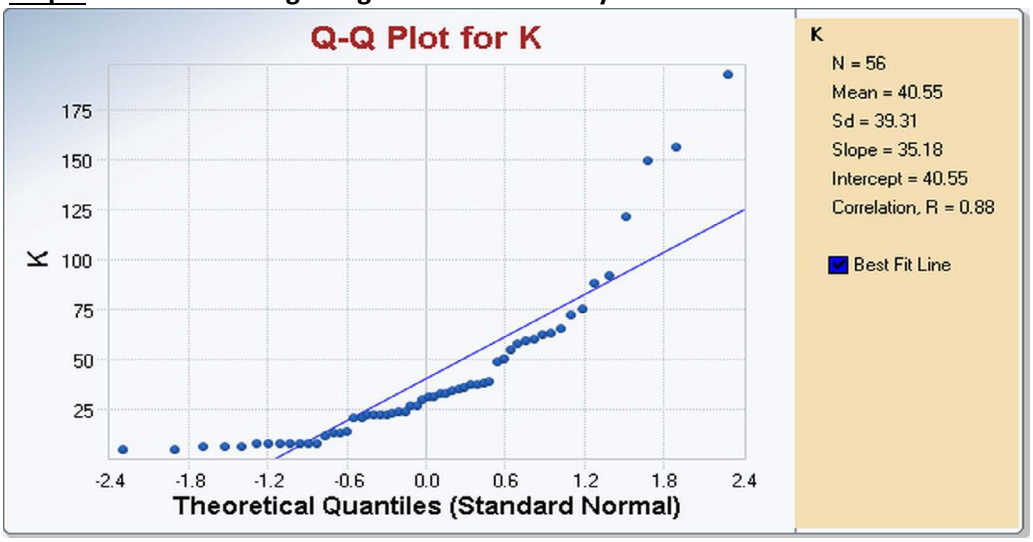
Normality assumption is reasonable with no suspected outliers; no need for formal testing. (Relatively low linear correlation is attributed to data precision - data points are grouped in 1 mg/L increments.)

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Potassium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	5	14-May	8	28-May	8	11-Jun	8
MU1-DM2	29-Apr	8	14-May	8	28-May	8	11-Jun	8
MU1-DM3A	28-Apr	21	15-May	22	29-May	24	12-Jun	21
MU1-DM4	29-Apr	6	14-May	6	28-May	6	11-Jun	5
MU1-DM5	29-Apr	14	14-May	13	28-May	13	11-Jun	12
MU1-DM6	28-Apr	34	15-May	31	29-May	22	12-Jun	27
MU1-DM7	28-Apr	37	15-May	39	29-May	33	12-Jun	63
MU1-DM8	28-Apr	27	15-May	35	29-May	22	12-Jun	23
MU1-DM9	28-Apr	65	15-May	59	29-May	55	12-Jun	72
MU1-DM10	28-Apr	33	15-May	24	29-May	22	12-Jun	31
MU1-DM11	28-Apr	38	15-May	36	29-May	30	12-Jun	37
MU1-DM12	28-Apr	60	14-May	49	28-May	58	11-Jun	50
MU1-DM13	28-Apr	75	14-May	88	28-May	92	11-Jun	149
MU1-DM14	28-Apr	192	15-May	62	29-May	121	12-Jun	156

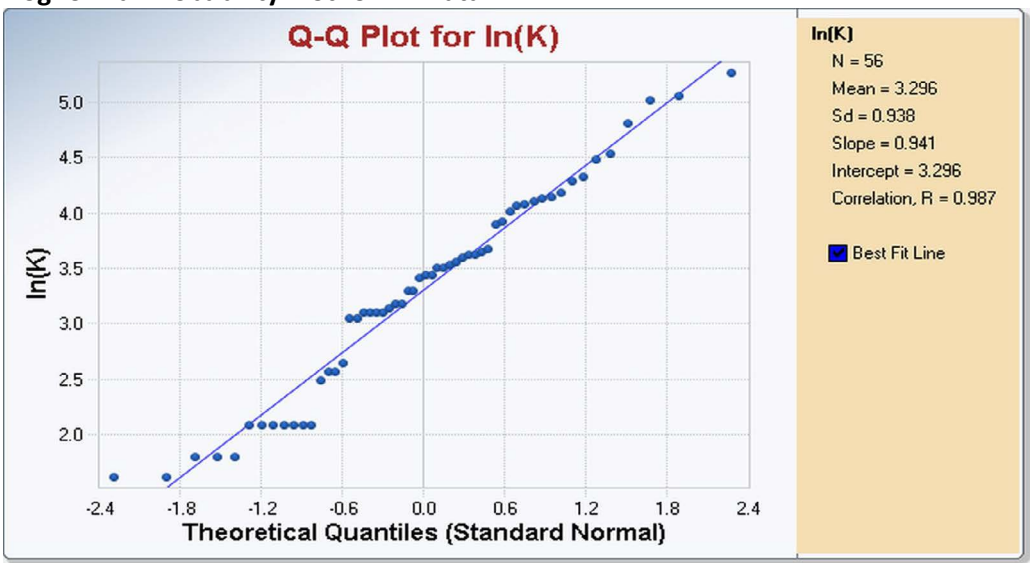
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



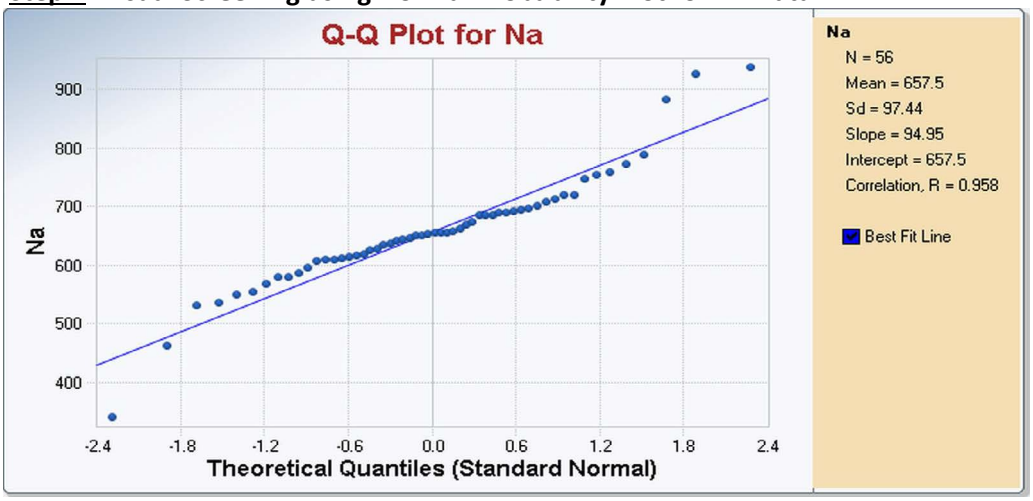
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Sodium (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	339	14-May	611	28-May	645	11-Jun	662
MU1-DM2	29-Apr	462	14-May	657	28-May	685	11-Jun	690
MU1-DM3A	28-Apr	691	15-May	719	29-May	753	12-Jun	771
MU1-DM4	29-Apr	579	14-May	618	28-May	628	11-Jun	650
MU1-DM5	29-Apr	609	14-May	694	28-May	719	11-Jun	757
MU1-DM6	28-Apr	606	15-May	640	29-May	654	12-Jun	685
MU1-DM7	28-Apr	614	15-May	697	29-May	616	12-Jun	685
MU1-DM8	28-Apr	637	15-May	746	29-May	654	12-Jun	701
MU1-DM9	28-Apr	535	15-May	594	29-May	578	12-Jun	608
MU1-DM10	28-Apr	624	15-May	712	29-May	655	12-Jun	690
MU1-DM11	28-Apr	553	15-May	550	29-May	530	12-Jun	568
MU1-DM12	28-Apr	788	14-May	936	28-May	925	11-Jun	883
MU1-DM13	28-Apr	586	14-May	653	28-May	674	11-Jun	668
MU1-DM14	28-Apr	708	15-May	649	29-May	633	12-Jun	644

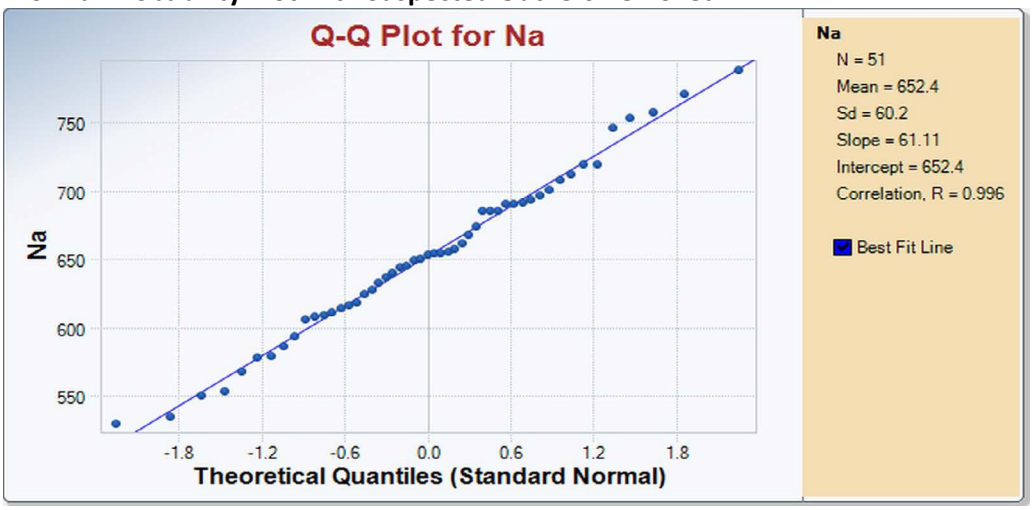
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with two suspected low outliers and three suspected high outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	657.5
Standard deviation	97.4
Number of data	56
Number of suspected outliers	5

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM1	29-Apr	339	3.298	3.172	**Yes**
2	MU1-DM12	14-May	936	3.097	3.162	**Yes**
3	MU1-DM12	28-May	925	3.316	3.158	**Yes**
4	MU1-DM12	11-Jun	883	3.186	3.148	**Yes**
5	MU1-DM2	29-Apr	462	2.864	3.138	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	652.4	*Calculated without
Std dev*:	60.2	suspected outliers
n*	51	
k	3.1196	
Lower tolerance limit	465	
Upper tolerance limit	840	

For 5% significance level, there are **five Statistical Outliers: 339, 462, 936, 925, and 883.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

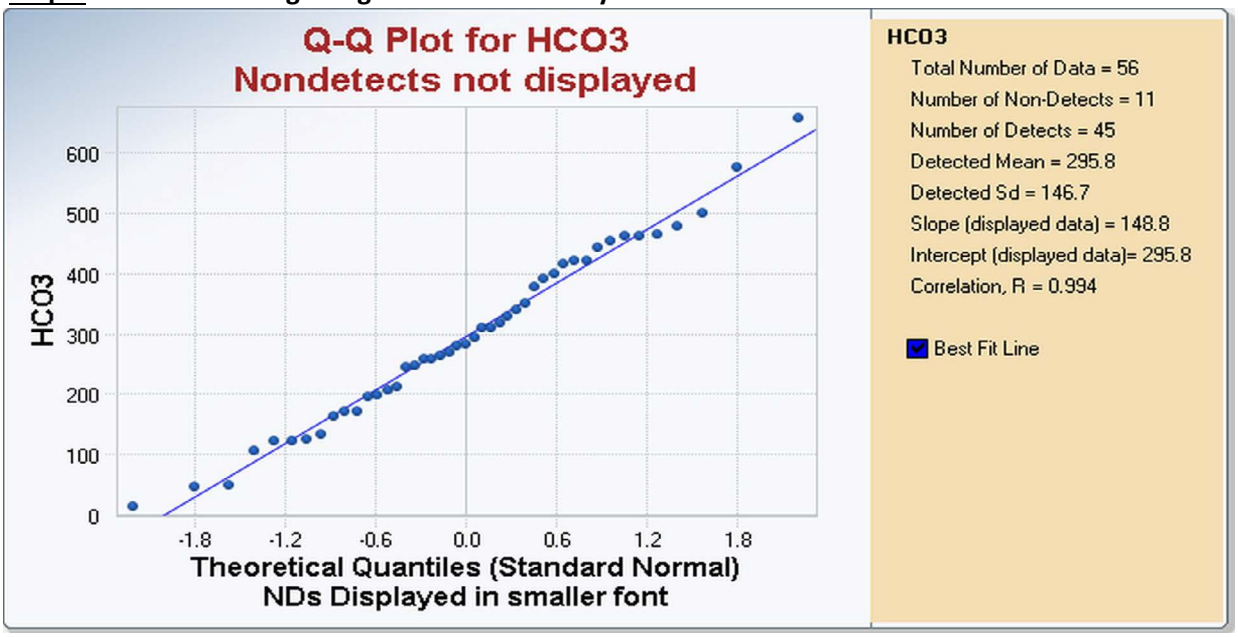
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
936	MU1-DM12	**Keep**	Consistent with other results from this well.
925	MU1-DM12	**Keep**	Consistent with other results from this well.
883	MU1-DM12	**Keep**	Consistent with other results from this well.
462	MU1-DM2	**Remove**	Anomalously low value for this well.
339	MU1-DM1	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Bicarbonate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	247	14-May	311	28-May	399	11-Jun	378
MU1-DM2	29-Apr	329	14-May	462	28-May	478	11-Jun	422
MU1-DM3A	28-Apr	<5	15-May	13	29-May	197	12-Jun	213
MU1-DM4	29-Apr	442	14-May	463	28-May	500	11-Jun	455
MU1-DM5	29-Apr	49	14-May	162	28-May	268	11-Jun	244
MU1-DM6	28-Apr	106	15-May	258	29-May	281	12-Jun	317
MU1-DM7	28-Apr	<5	15-May	577	29-May	125	12-Jun	121
MU1-DM8	28-Apr	172	15-May	121	29-May	264	12-Jun	310
MU1-DM9	28-Apr	<5	15-May	170	29-May	<5	12-Jun	<5
MU1-DM10	28-Apr	133	15-May	292	29-May	340	12-Jun	351
MU1-DM11	28-Apr	391	15-May	422	29-May	417	12-Jun	465
MU1-DM12	28-Apr	658	14-May	<5	28-May	<5	11-Jun	<5
MU1-DM13	28-Apr	206	14-May	195	28-May	259	11-Jun	<5
MU1-DM14	28-Apr	<5	15-May	283	29-May	45	12-Jun	<5

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



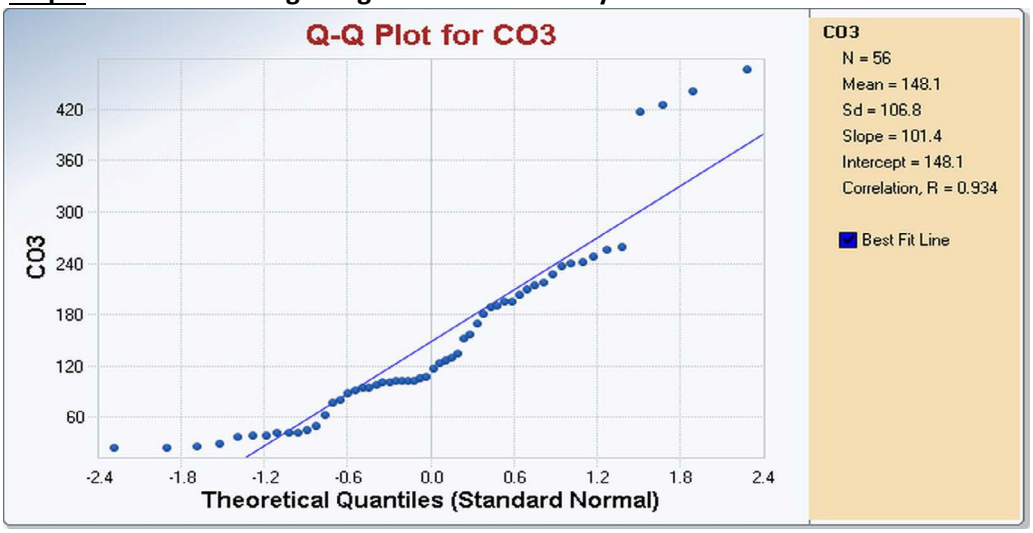
Normality assumption is reasonable with no suspected outliers; no need for formal testing. Bicarbonate is dependent on pH, and variability in bicarbonate concentration within wells (e.g., MU1-DM12) is attributed to variability in pH.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Carbonate (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	76	14-May	63	28-May	37	11-Jun	45
MU1-DM2	29-Apr	41	14-May	39	28-May	38	11-Jun	50
MU1-DM3A	28-Apr	194	15-May	152	29-May	80	12-Jun	94
MU1-DM4	29-Apr	29	14-May	24	28-May	24	11-Jun	25
MU1-DM5	29-Apr	134	14-May	123	28-May	101	11-Jun	126
MU1-DM6	28-Apr	156	15-May	117	29-May	102	12-Jun	102
MU1-DM7	28-Apr	217	15-May	42	29-May	195	12-Jun	256
MU1-DM8	28-Apr	190	15-May	203	29-May	130	12-Jun	103
MU1-DM9	28-Apr	88	15-May	188	29-May	209	12-Jun	241
MU1-DM10	28-Apr	170	15-May	103	29-May	100	12-Jun	107
MU1-DM11	28-Apr	106	15-May	97	29-May	95	12-Jun	91
MU1-DM12	28-Apr	41	14-May	180	28-May	227	11-Jun	214
MU1-DM13	28-Apr	240	14-May	259	28-May	247	11-Jun	441
MU1-DM14	28-Apr	416	15-May	237	29-May	424	12-Jun	466

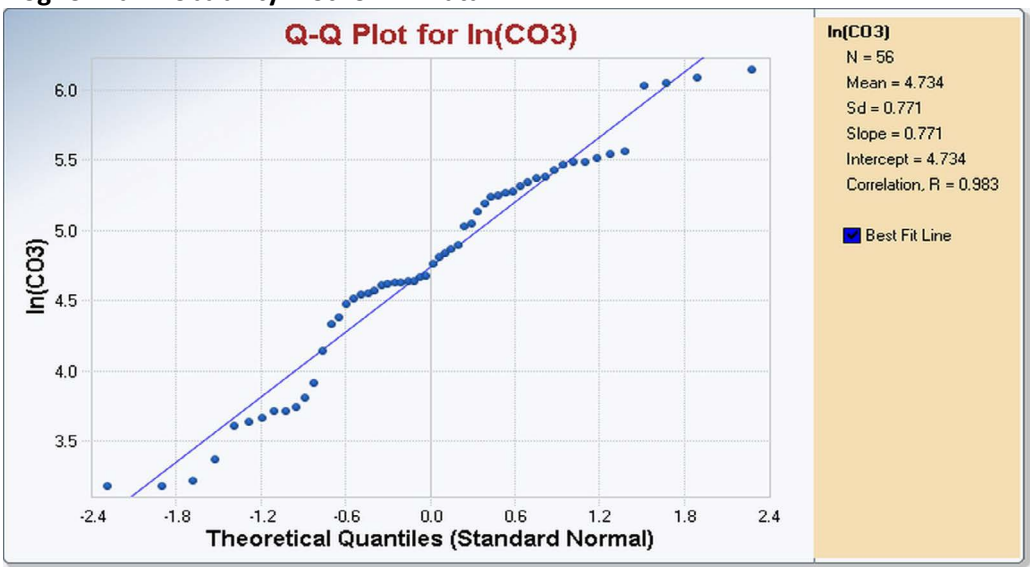
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with four suspected high outliers.

Lognormal Probability Plot for All Data



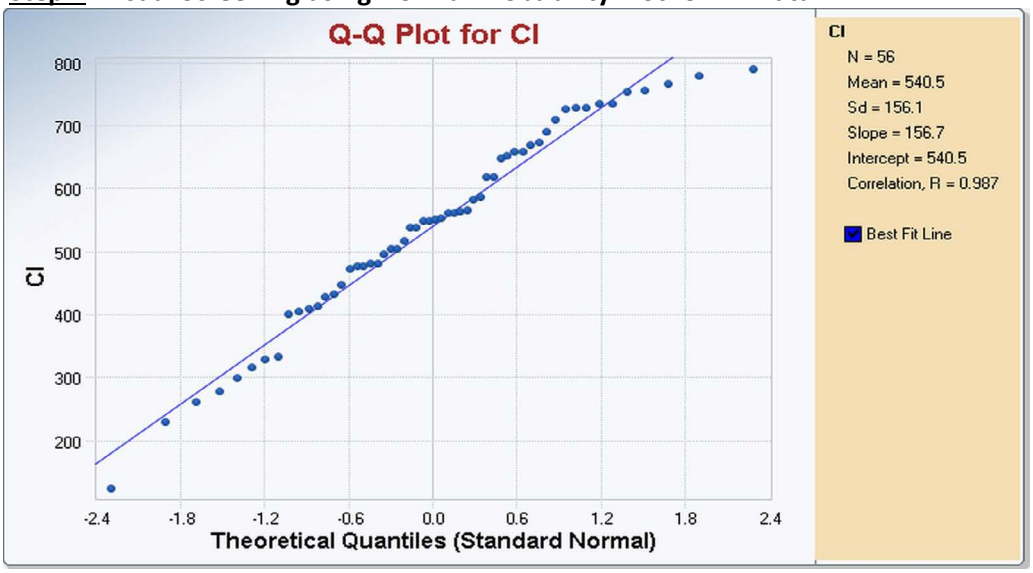
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.
Carbonate is dependent on pH, and variability in carbonate concentration within wells (e.g., MU1-DM12) is attributed to variability in pH.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Choride (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	123	14-May	503	28-May	586	11-Jun	658
MU1-DM2	29-Apr	228	14-May	477	28-May	503	11-Jun	480
MU1-DM3A	28-Apr	277	15-May	404	29-May	408	12-Jun	431
MU1-DM4	29-Apr	565	14-May	652	28-May	617	11-Jun	618
MU1-DM5	29-Apr	329	14-May	481	28-May	477	11-Jun	472
MU1-DM6	28-Apr	727	15-May	733	29-May	756	12-Jun	733
MU1-DM7	28-Apr	709	15-May	725	29-May	728	12-Jun	689
MU1-DM8	28-Apr	753	15-May	779	29-May	789	12-Jun	766
MU1-DM9	28-Apr	496	15-May	561	29-May	551	12-Jun	581
MU1-DM10	28-Apr	673	15-May	647	29-May	668	12-Jun	658
MU1-DM11	28-Apr	553	15-May	537	29-May	560	12-Jun	517
MU1-DM12	28-Apr	260	14-May	316	28-May	299	11-Jun	333
MU1-DM13	28-Apr	538	14-May	562	28-May	548	11-Jun	547
MU1-DM14	28-Apr	399	15-May	447	29-May	427	12-Jun	412

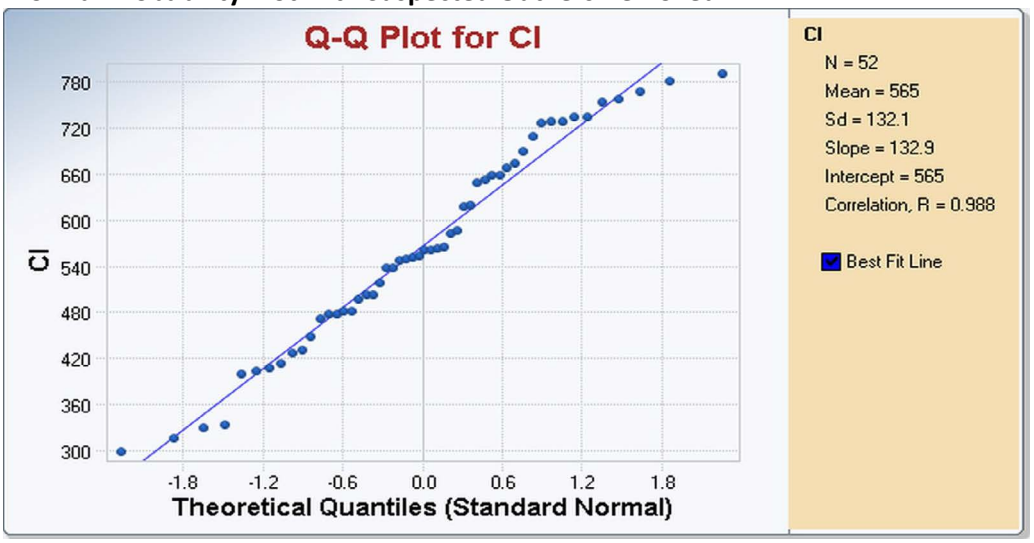
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data are nearly linear with four suspected low outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	540.5
Standard deviation	156.1
Number of data	56
Number of suspected outliers	4

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM1	29-Apr	123	2.698	3.172	**No**
2	MU1-DM2	29-Apr	228	2.18	3.162	**No**
3	MU1-DM12	28-Apr	260	2.08	3.158	**No**
4	MU1-DM3A	28-Apr	277	2.068	3.148	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	565.0	*Calculated without
Standard deviation*:	132.1	suspected outliers
n*	52	
k	3.1132	
Lower tolerance limit	154	
Upper tolerance limit	976	

For 5% significance level, there is **one Statistical Outlier: 123.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

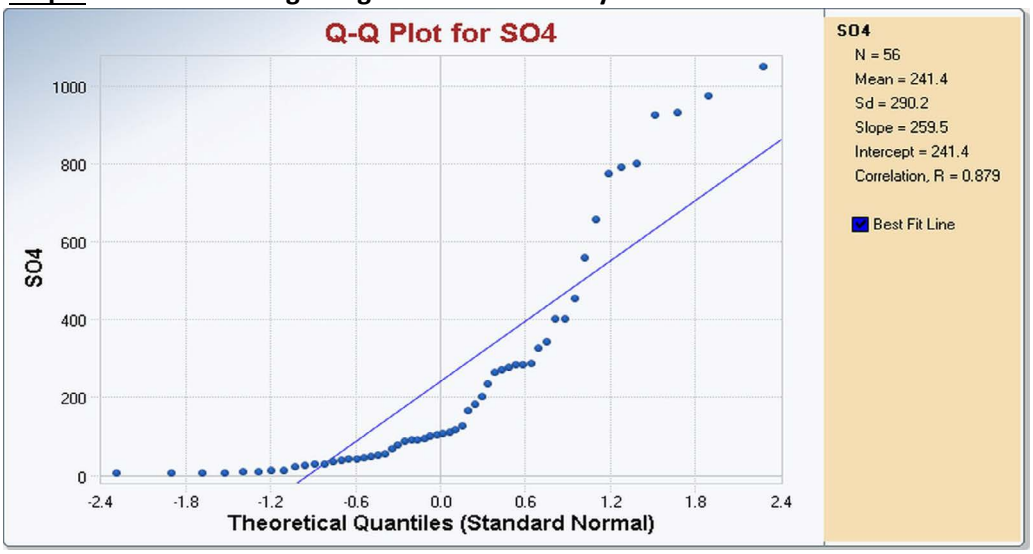
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
277	MU1-DM3A	**Remove**	Anomalously low value for this well.
260	MU1-DM12	**Keep**	Not a statistical outlier; consistent with other results from this well.
228	MU1-DM2	**Remove**	Anomalously low value for this well.
123	MU1-DM1	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Sulfate (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	182	14-May	235	28-May	203	11-Jun	164
MU1-DM2	29-Apr	344	14-May	287	28-May	284	11-Jun	327
MU1-DM3A	28-Apr	775	15-May	658	29-May	802	12-Jun	790
MU1-DM4	29-Apr	47	14-May	37	28-May	44	11-Jun	55
MU1-DM5	29-Apr	560	14-May	400	28-May	401	11-Jun	453
MU1-DM6	28-Apr	11	15-May	9	29-May	10	12-Jun	8
MU1-DM7	28-Apr	50	15-May	36	29-May	40	12-Jun	40
MU1-DM8	28-Apr	27	15-May	24	29-May	27	12-Jun	23
MU1-DM9	28-Apr	67	15-May	78	29-May	95	12-Jun	88
MU1-DM10	28-Apr	126	15-May	115	29-May	106	12-Jun	103
MU1-DM11	28-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-DM12	28-Apr	932	14-May	924	28-May	974	11-Jun	1050
MU1-DM13	28-Apr	100	14-May	109	28-May	90	11-Jun	91
MU1-DM14	28-Apr	264	15-May	277	29-May	282	12-Jun	272

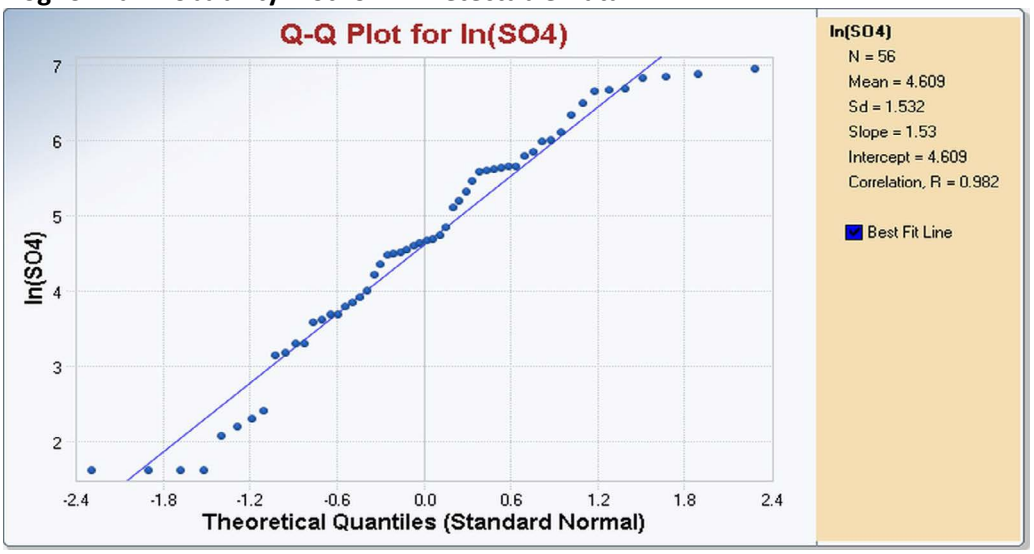
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



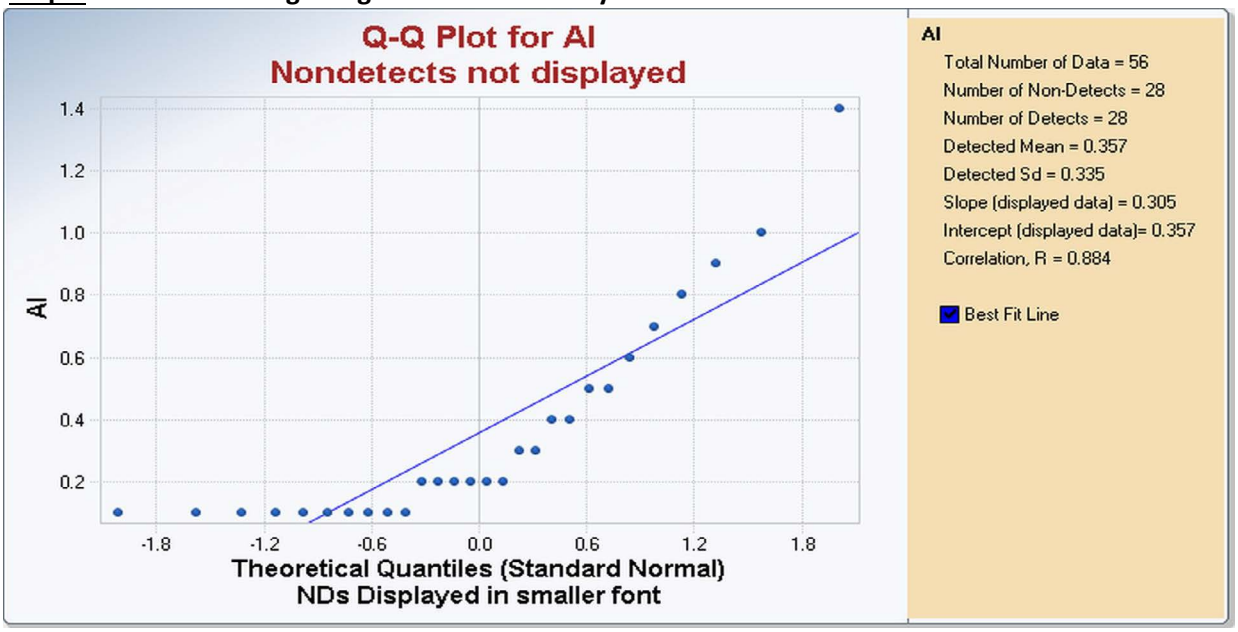
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Aluminum (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-DM2	29-Apr	<0.1	14-May	<0.1	28-May	0.1	11-Jun	<0.1
MU1-DM3A	28-Apr	0.1	15-May	0.4	29-May	0.1	12-Jun	<0.1
MU1-DM4	29-Apr	<0.1	14-May	<0.1	28-May	0.1	11-Jun	<0.1
MU1-DM5	29-Apr	0.6	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-DM6	28-Apr	<0.1	15-May	0.1	29-May	0.1	12-Jun	<0.1
MU1-DM7	28-Apr	0.9	15-May	0.4	29-May	0.2	12-Jun	0.2
MU1-DM8	28-Apr	<0.1	15-May	0.1	29-May	0.1	12-Jun	<0.1
MU1-DM9	28-Apr	1.0	15-May	1.4	29-May	0.7	12-Jun	0.8
MU1-DM10	28-Apr	0.5	15-May	0.3	29-May	0.3	12-Jun	0.1
MU1-DM11	28-Apr	0.2	15-May	0.2	29-May	0.2	12-Jun	<0.1
MU1-DM12	28-Apr	0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-DM13	28-Apr	<0.1	14-May	<0.1	28-May	0.2	11-Jun	<0.1
MU1-DM14	28-Apr	<0.1	15-May	0.5	29-May	<0.1	12-Jun	<0.1

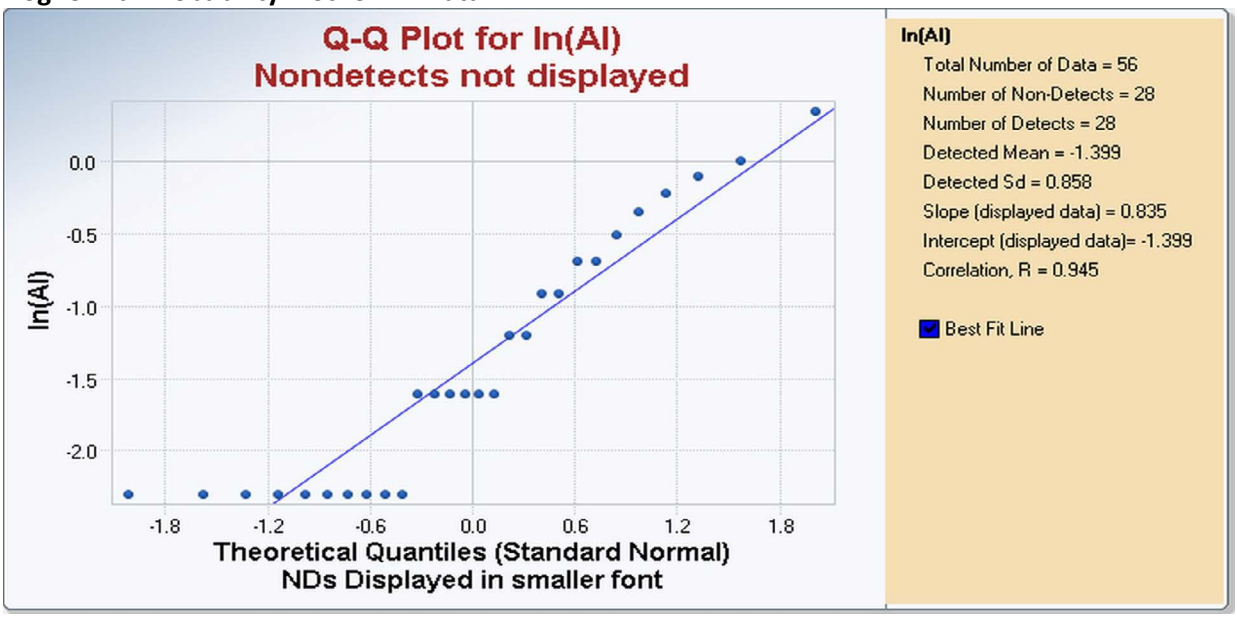
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



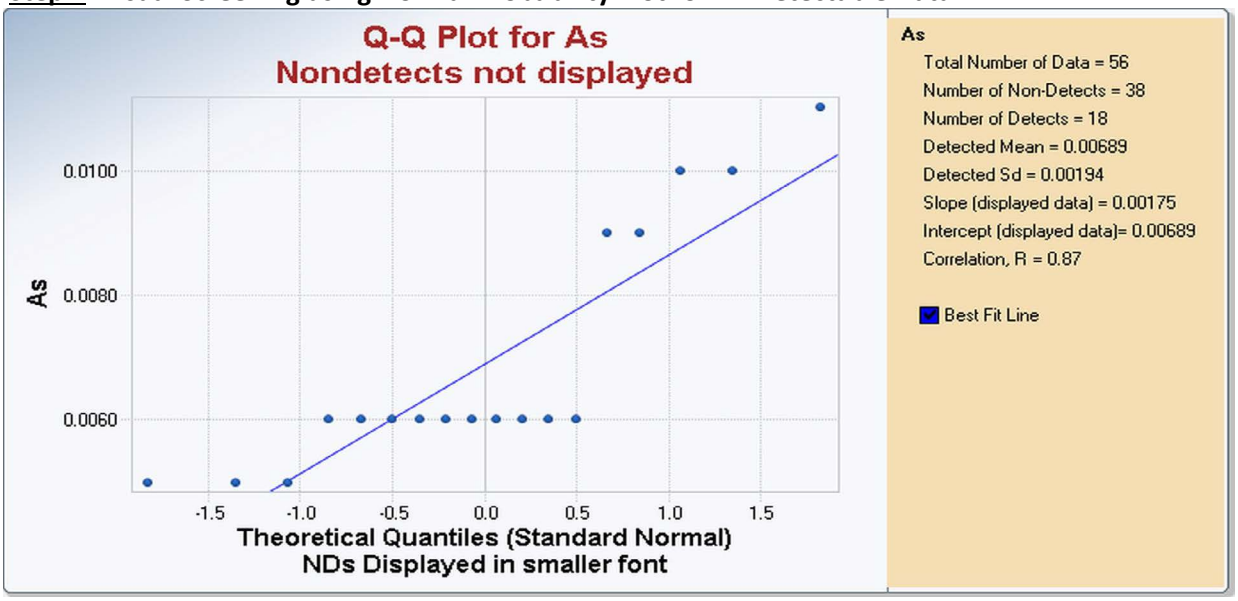
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Arsenic (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.010	14-May	0.009	28-May	0.006	11-Jun	0.006
MU1-DM2	29-Apr	0.009	14-May	<0.005	28-May	<0.005	11-Jun	0.006
MU1-DM3A	28-Apr	0.010	15-May	0.006	29-May	0.005	12-Jun	0.005
MU1-DM4	29-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	0.006
MU1-DM5	29-Apr	0.011	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-DM6	28-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-DM7	28-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-DM8	28-Apr	0.006	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-DM9	28-Apr	<0.005	15-May	<0.005	29-May	0.005	12-Jun	0.006
MU1-DM10	28-Apr	0.006	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-DM11	28-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-DM12	28-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-DM13	28-Apr	0.006	14-May	0.006	28-May	<0.005	11-Jun	<0.005
MU1-DM14	28-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005

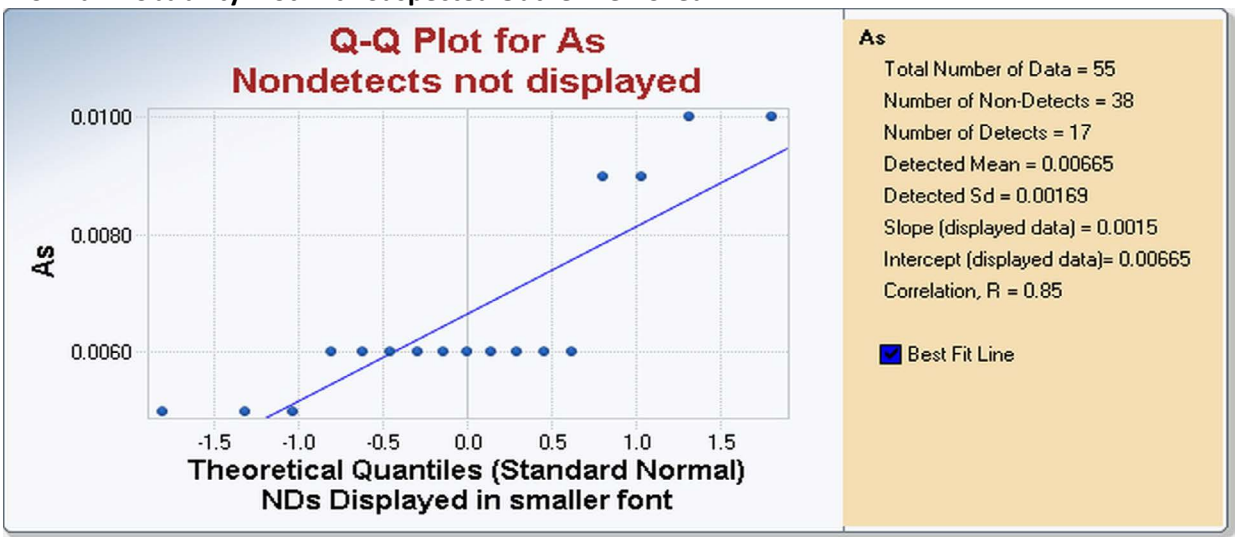
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Normality assumption is reasonable with one suspected high outlier.
(Relatively low linear correlation is attributed to data precision - data points are grouped in 0.001 mg/L increments.)

Normal Probability Plot with Suspected Outlier Removed



Normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Dixon's Test (Excluding Non-Detects) (α = 0.05, Calculated using ProUCL)

Number of detectable values	18
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM5	29-Apr	0.011	0.167	0.475	**No**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	0.0066
Standard deviation*:	0.0017
n*	17
k	3.754
Lower tolerance limit	0.000
Upper tolerance limit	0.013

*Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are no statistical outliers.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

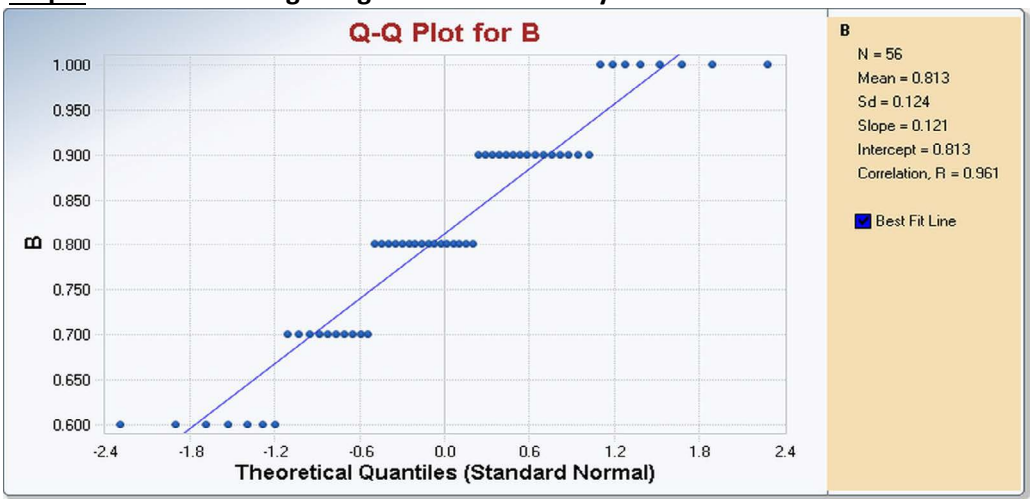
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.011	MU1-DM5	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Boron (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.7	14-May	0.7	28-May	0.8	11-Jun	0.8
MU1-DM2	29-Apr	0.6	14-May	0.8	28-May	0.8	11-Jun	0.8
MU1-DM3A	28-Apr	0.7	15-May	0.7	29-May	0.6	12-Jun	0.7
MU1-DM4	29-Apr	0.8	14-May	0.9	28-May	0.9	11-Jun	0.9
MU1-DM5	29-Apr	0.7	14-May	0.8	28-May	0.8	11-Jun	0.8
MU1-DM6	28-Apr	0.9	15-May	1.0	29-May	0.9	12-Jun	0.9
MU1-DM7	28-Apr	0.9	15-May	1.0	29-May	0.9	12-Jun	0.9
MU1-DM8	28-Apr	1.0	15-May	1.0	29-May	0.9	12-Jun	1.0
MU1-DM9	28-Apr	0.6	15-May	0.7	29-May	0.9	12-Jun	1.0
MU1-DM10	28-Apr	1.0	15-May	1.0	29-May	0.9	12-Jun	0.9
MU1-DM11	28-Apr	0.9	15-May	0.9	29-May	0.8	12-Jun	0.8
MU1-DM12	28-Apr	0.6	14-May	0.6	28-May	0.6	11-Jun	0.6
MU1-DM13	28-Apr	0.8	14-May	0.8	28-May	0.8	11-Jun	0.8
MU1-DM14	28-Apr	0.7	15-May	0.8	29-May	0.7	12-Jun	0.7

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



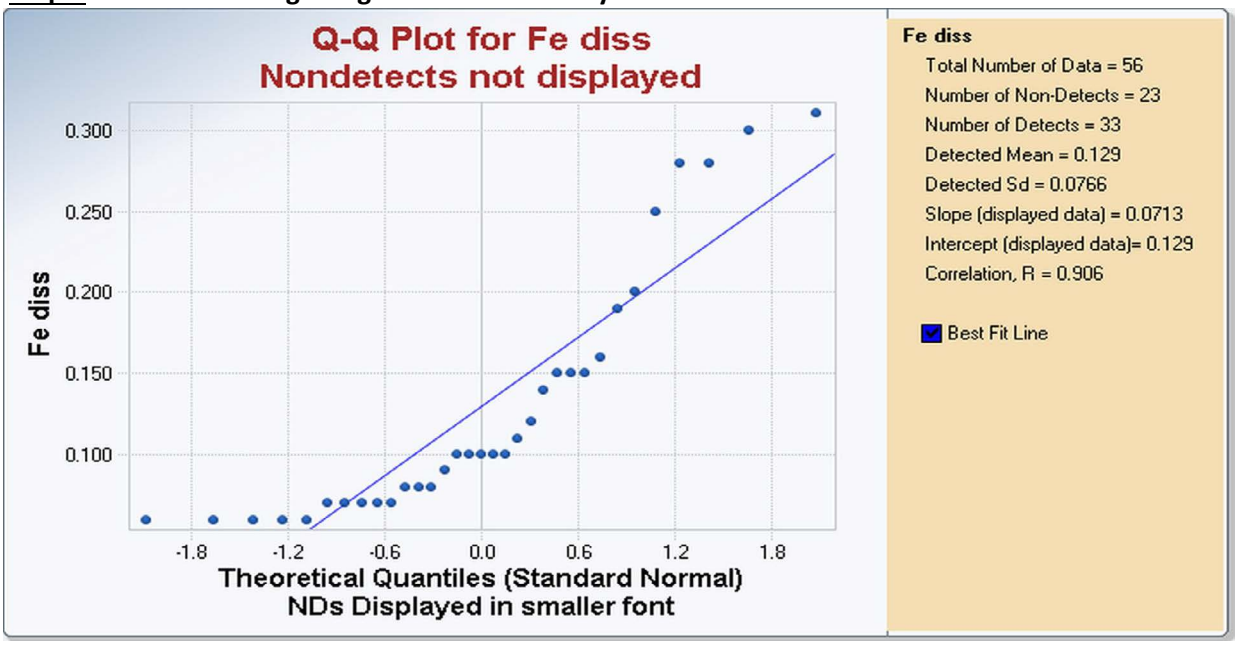
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Iron, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.16	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-DM2	29-Apr	0.09	14-May	0.07	28-May	0.08	11-Jun	0.07
MU1-DM3A	28-Apr	<0.05	15-May	0.25	29-May	0.08	12-Jun	<0.05
MU1-DM4	29-Apr	<0.05	14-May	0.15	28-May	0.10	11-Jun	<0.05
MU1-DM5	29-Apr	<0.05	14-May	<0.05	28-May	0.06	11-Jun	0.06
MU1-DM6	28-Apr	<0.05	15-May	0.30	29-May	0.07	12-Jun	0.07
MU1-DM7	28-Apr	0.06	15-May	0.28	29-May	0.10	12-Jun	0.10
MU1-DM8	28-Apr	<0.05	15-May	0.12	29-May	0.08	12-Jun	<0.05
MU1-DM9	28-Apr	<0.05	15-May	0.10	29-May	0.06	12-Jun	0.07
MU1-DM10	28-Apr	0.19	15-May	0.20	29-May	0.15	12-Jun	<0.05
MU1-DM11	28-Apr	0.11	15-May	0.28	29-May	0.15	12-Jun	<0.05
MU1-DM12	28-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-DM13	28-Apr	<0.05	14-May	0.10	28-May	0.14	11-Jun	<0.05
MU1-DM14	28-Apr	<0.05	15-May	0.31	29-May	0.06	12-Jun	<0.05

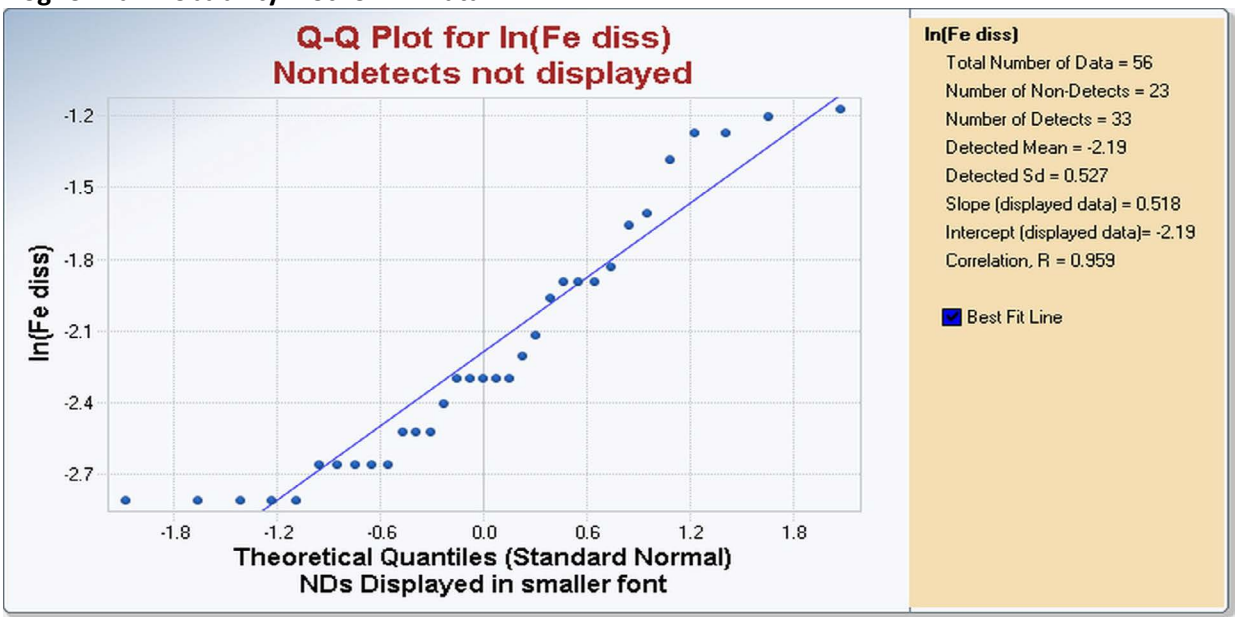
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with no suspected outliers.

Lognormal Probability Plot for All Data



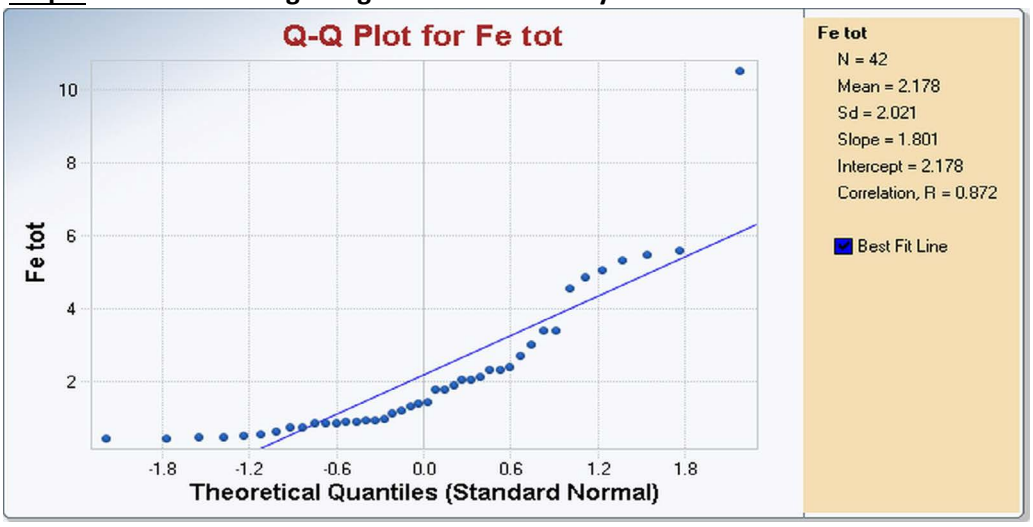
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Iron, Total (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	2.32	14-May	0.47	28-May	0.85	Not measured	
MU1-DM2	29-Apr	0.89	14-May	1.23	28-May	1.40		
MU1-DM3A	28-Apr	0.58	15-May	3.39	29-May	5.48		
MU1-DM4	29-Apr	0.89	14-May	0.98	28-May	2.05		
MU1-DM5	29-Apr	1.33	14-May	0.88	28-May	0.74		
MU1-DM6	28-Apr	0.64	15-May	3.02	29-May	2.71		
MU1-DM7	28-Apr	1.45	15-May	5.32	29-May	4.85		
MU1-DM8	28-Apr	1.79	15-May	1.77	29-May	2.32		
MU1-DM9	28-Apr	0.93	15-May	2.39	29-May	2.06		
MU1-DM10	28-Apr	10.5	15-May	5.59	29-May	5.04		
MU1-DM11	28-Apr	0.85	15-May	2.13	29-May	3.40		
MU1-DM12	28-Apr	0.94	14-May	0.45	28-May	1.15		
MU1-DM13	28-Apr	0.43	14-May	0.51	28-May	1.91		
MU1-DM14	28-Apr	0.50	15-May	4.56	29-May	0.77		

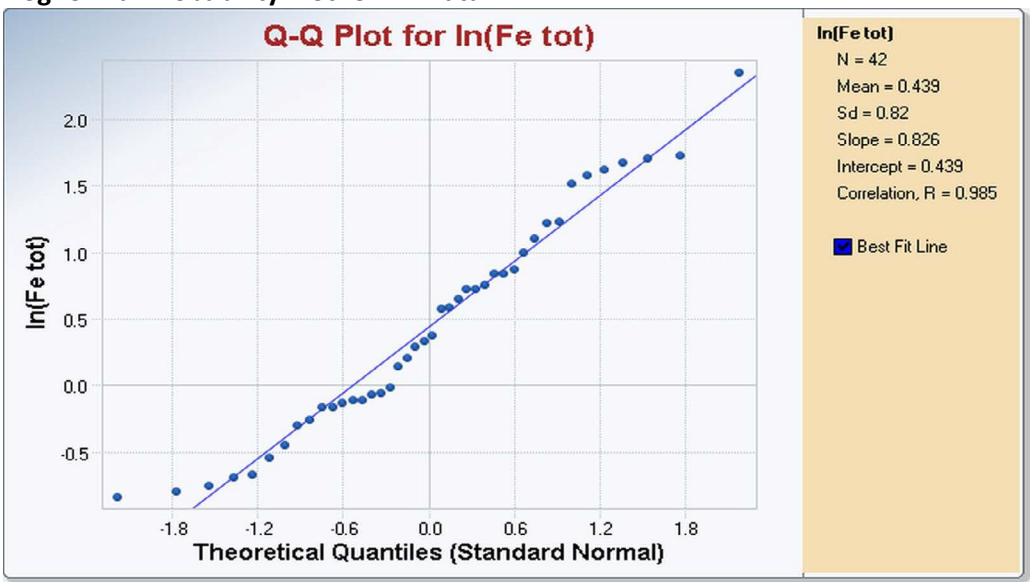
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Data



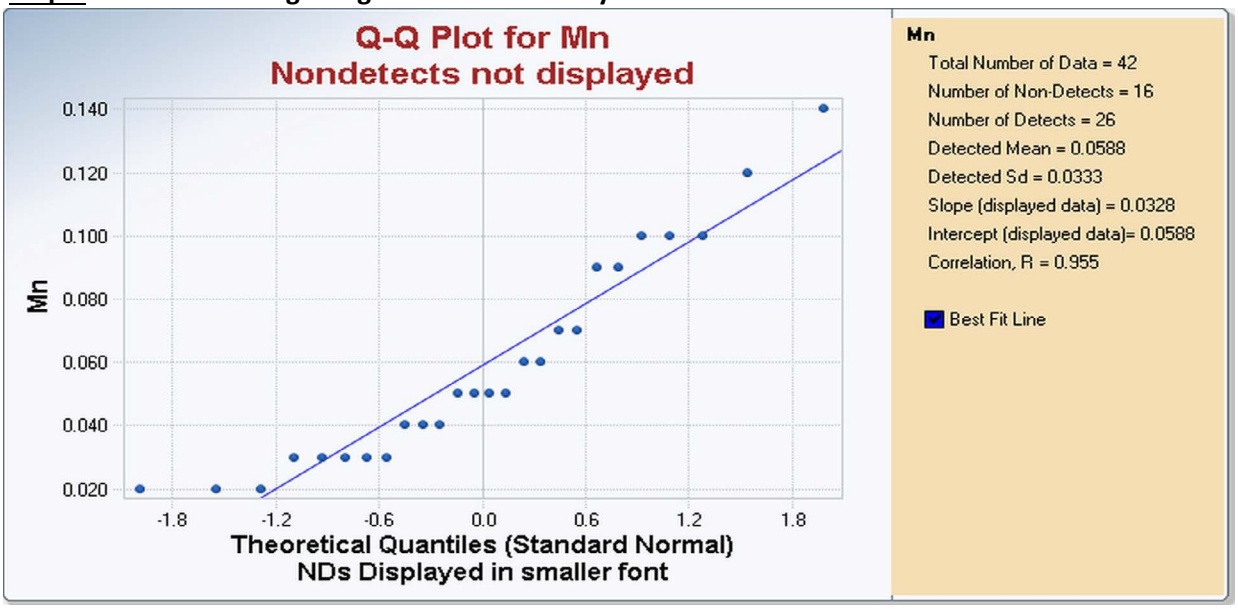
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Manganese, Total (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.05	14-May	<0.02	28-May	0.02	Not measured	
MU1-DM2	29-Apr	0.04	14-May	0.03	28-May	0.04		
MU1-DM3A	28-Apr	<0.02	15-May	0.07	29-May	0.10		
MU1-DM4	29-Apr	0.03	14-May	0.03	28-May	0.06		
MU1-DM5	29-Apr	<0.02	14-May	<0.02	28-May	<0.02		
MU1-DM6	28-Apr	<0.02	15-May	0.05	29-May	0.05		
MU1-DM7	28-Apr	0.02	15-May	0.09	29-May	0.09		
MU1-DM8	28-Apr	<0.02	15-May	<0.02	29-May	0.03		
MU1-DM9	28-Apr	<0.02	15-May	0.06	29-May	0.05		
MU1-DM10	28-Apr	0.14	15-May	0.07	29-May	0.12		
MU1-DM11	28-Apr	0.02	15-May	0.03	29-May	0.10		
MU1-DM12	28-Apr	<0.02	14-May	<0.02	28-May	<0.02		
MU1-DM13	28-Apr	<0.02	14-May	<0.02	28-May	0.04		
MU1-DM14	28-Apr	<0.02	15-May	0.1	29-May	<0.02		

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



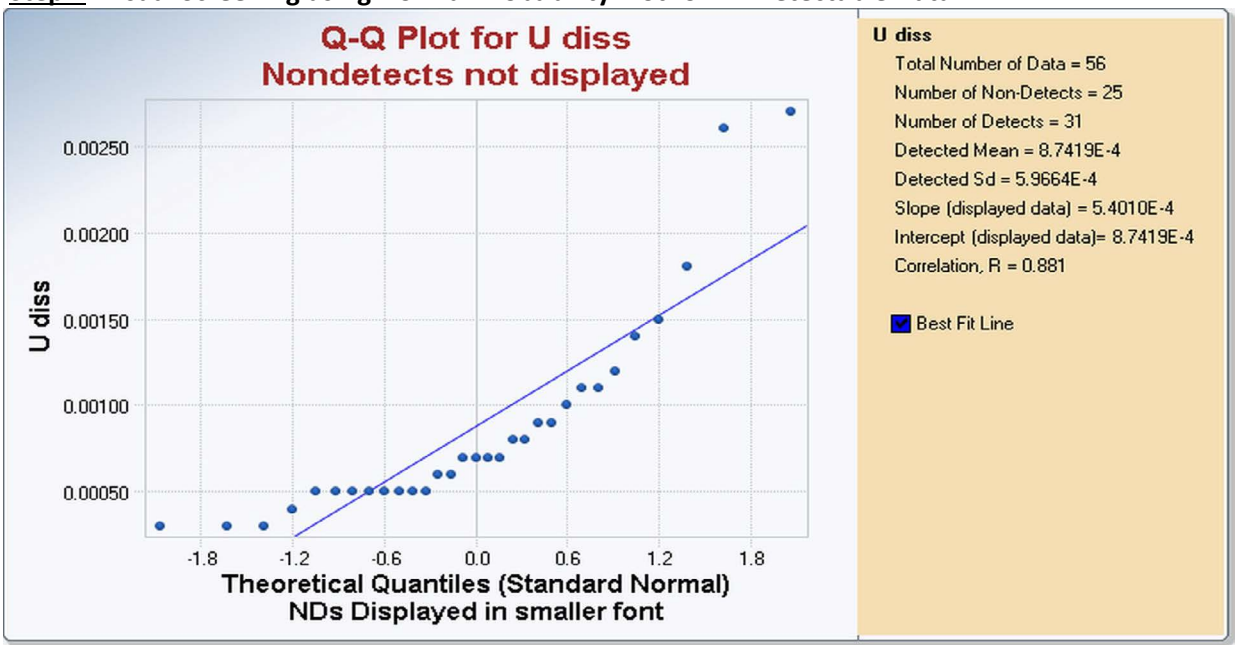
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Uranium, Dissolved (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.0027	14-May	0.0009	28-May	0.0009	11-Jun	0.0005
MU1-DM2	29-Apr	0.0026	14-May	0.0007	28-May	0.0007	11-Jun	0.0003
MU1-DM3A	28-Apr	<0.0003	15-May	<0.0003	29-May	<0.0003	12-Jun	<0.0003
MU1-DM4	29-Apr	0.0008	14-May	0.0004	28-May	<0.0003	11-Jun	0.0007
MU1-DM5	29-Apr	0.0007	14-May	0.0005	28-May	0.0003	11-Jun	<0.0003
MU1-DM6	28-Apr	<0.0003	15-May	<0.0003	29-May	0.0005	12-Jun	<0.0003
MU1-DM7	28-Apr	0.0011	15-May	0.0018	29-May	0.0014	12-Jun	0.0015
MU1-DM8	28-Apr	0.0005	15-May	<0.0003	29-May	0.0003	12-Jun	<0.0003
MU1-DM9	28-Apr	<0.0003	15-May	<0.0003	29-May	0.0005	12-Jun	0.0006
MU1-DM10	28-Apr	0.0012	15-May	0.0010	29-May	0.0005	12-Jun	0.0005
MU1-DM11	28-Apr	<0.0003	15-May	<0.0003	29-May	<0.0003	12-Jun	<0.0003
MU1-DM12	28-Apr	<0.0003	14-May	<0.0003	28-May	<0.0003	11-Jun	<0.0003
MU1-DM13	28-Apr	0.0011	14-May	0.0008	28-May	0.0005	11-Jun	<0.0003
MU1-DM14	28-Apr	<0.0003	15-May	<0.0003	29-May	<0.0003	12-Jun	0.0006

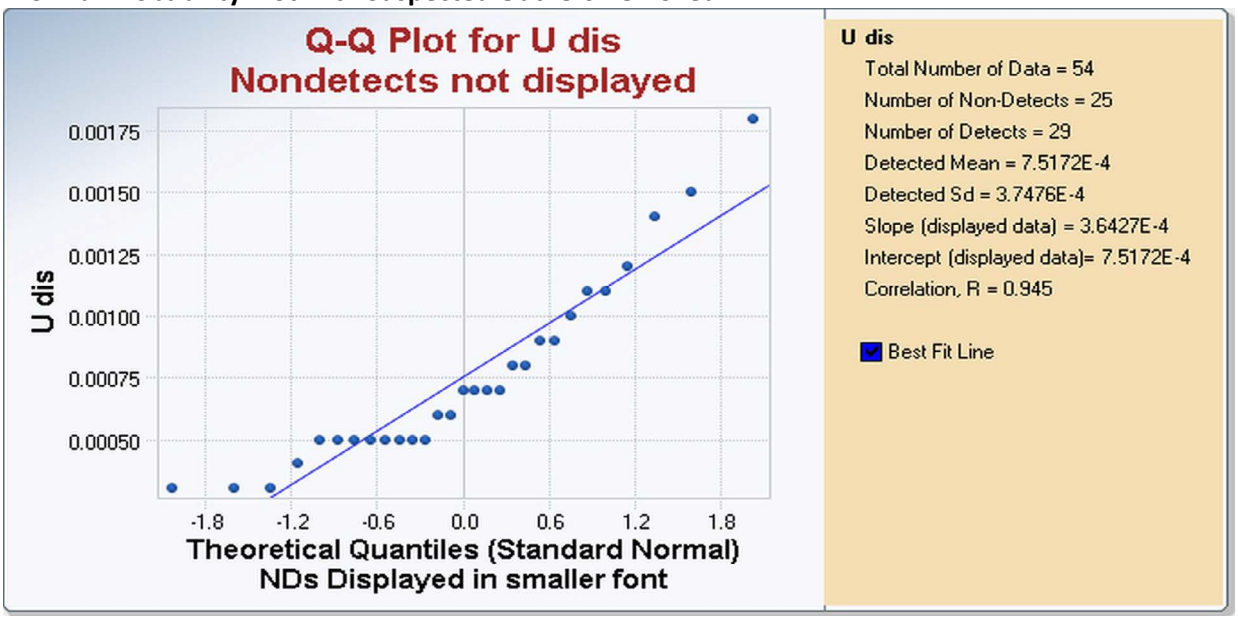
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with two suspected high outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear fit; normality assumption is reasonable.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	0.0009
Standard deviation	0.0006
Number of data	31
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM1	29-Apr	0.0027	3.111	2.92	**Yes**
2	MU1-DM2	29-Apr	0.0026	3.577	2.91	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	0.0008
Std dev*:	0.0004
n*	29
k	3.3714
Lower tolerance limit	-0.0005
Upper tolerance limit	0.0020

*Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are **two Statistical Outliers: 0.0027 and 0.0026.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

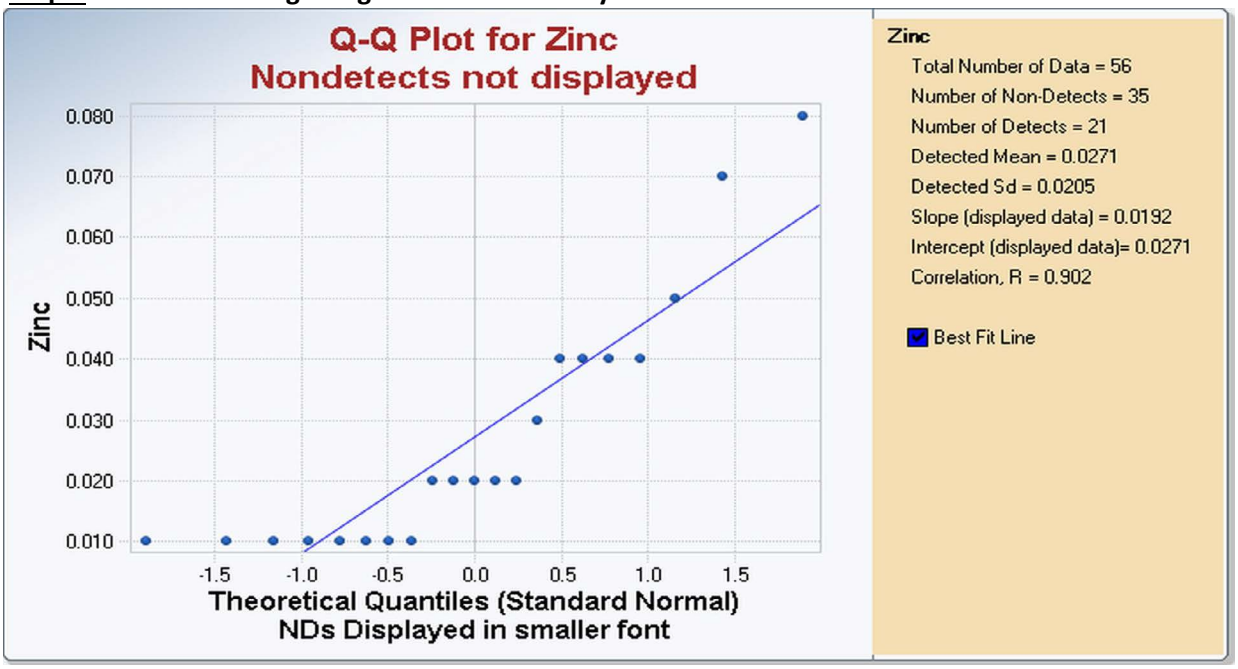
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
0.0027	MU1-DM1	**Remove**	Anomalously high value for this well.
0.0026	MU1-DM2	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Zinc (mg/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.01	14-May	<0.01	28-May	<0.01	11-Jun	0.01
MU1-DM2	29-Apr	<0.01	14-May	0.08	28-May	0.04	11-Jun	0.01
MU1-DM3A	28-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-DM4	29-Apr	<0.01	14-May	0.04	28-May	<0.01	11-Jun	0.03
MU1-DM5	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-DM6	28-Apr	<0.01	15-May	0.04	29-May	<0.01	12-Jun	0.01
MU1-DM7	28-Apr	<0.01	15-May	0.02	29-May	<0.01	12-Jun	<0.01
MU1-DM8	28-Apr	<0.01	15-May	0.02	29-May	<0.01	12-Jun	<0.01
MU1-DM9	28-Apr	<0.01	15-May	0.02	29-May	<0.01	12-Jun	<0.01
MU1-DM10	28-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-DM11	28-Apr	<0.01	15-May	0.05	29-May	0.01	12-Jun	0.01
MU1-DM12	28-Apr	<0.01	14-May	<0.01	28-May	0.02	11-Jun	0.01
MU1-DM13	28-Apr	<0.01	14-May	0.04	28-May	<0.01	11-Jun	0.01
MU1-DM14	28-Apr	0.07	15-May	0.02	29-May	<0.01	12-Jun	<0.01

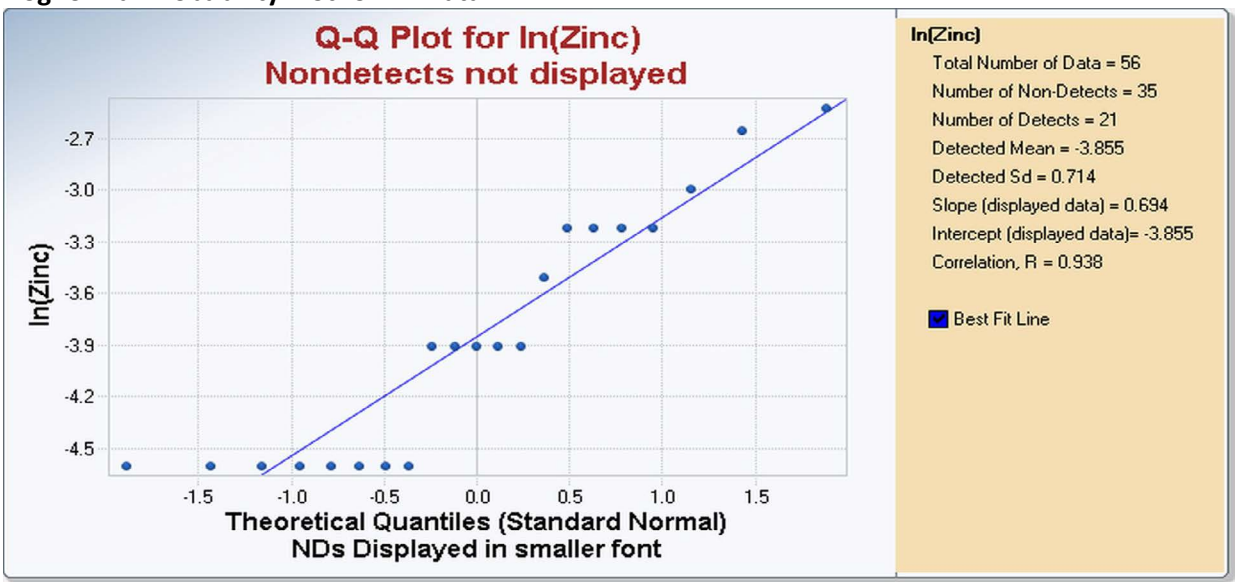
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with no suspected outliers.

Lognormal Probability Plot for All Data



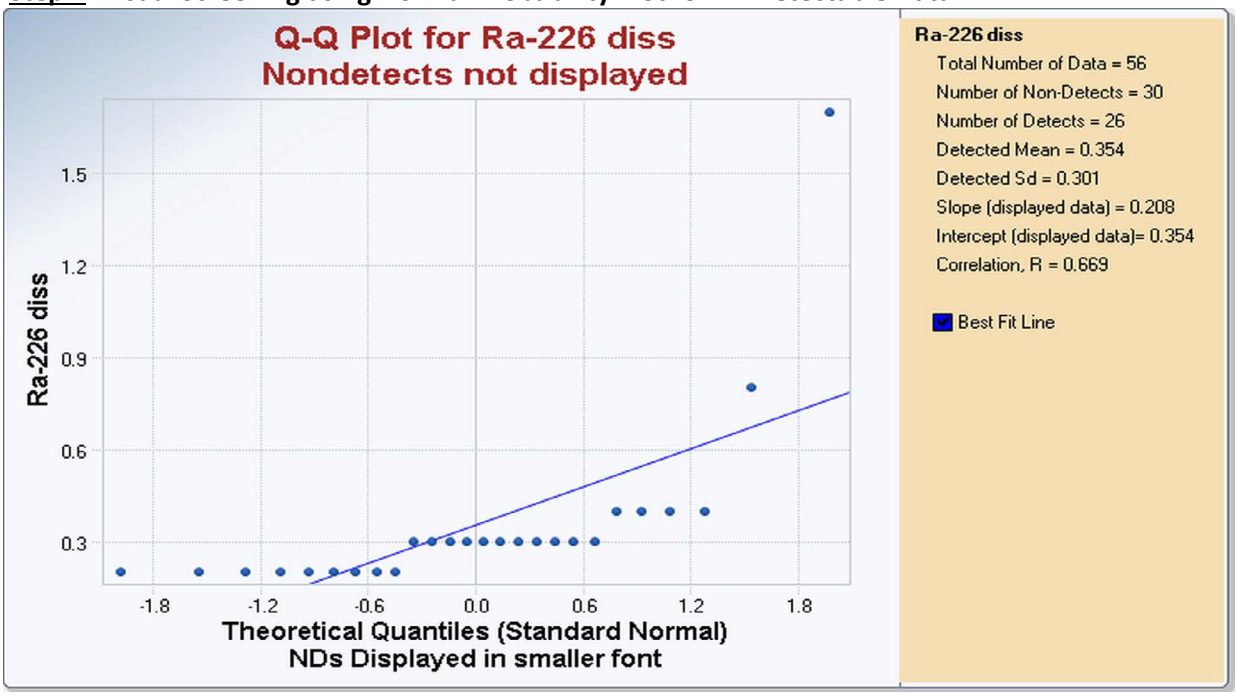
Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Radium-226, Dissolved (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.2	14-May	<0.2	28-May	0.3	11-Jun	0.2
MU1-DM2	29-Apr	<0.2	14-May	<0.2	28-May	0.2	11-Jun	<0.2
MU1-DM3A	28-Apr	<0.2	15-May	<0.2	29-May	<0.2	12-Jun	0.3
MU1-DM4	29-Apr	1.7	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-DM5	29-Apr	<0.2	14-May	<0.2	28-May	<0.2	11-Jun	<0.2
MU1-DM6	28-Apr	<0.2	15-May	<0.2	29-May	0.2	12-Jun	0.8
MU1-DM7	28-Apr	<0.2	15-May	<0.2	29-May	<0.2	12-Jun	0.4
MU1-DM8	28-Apr	0.3	15-May	<0.2	29-May	<0.2	12-Jun	0.2
MU1-DM9	28-Apr	0.4	15-May	<0.2	29-May	<0.2	12-Jun	<0.2
MU1-DM10	28-Apr	<0.2	15-May	0.2	29-May	<0.2	12-Jun	0.3
MU1-DM11	28-Apr	0.3	15-May	<0.2	29-May	<0.2	12-Jun	0.2
MU1-DM12	28-Apr	<0.2	14-May	0.2	28-May	<0.2	11-Jun	<0.2
MU1-DM13	28-Apr	0.4	14-May	0.4	28-May	0.3	11-Jun	<0.2
MU1-DM14	28-Apr	0.3	15-May	0.2	29-May	<0.2	12-Jun	0.3

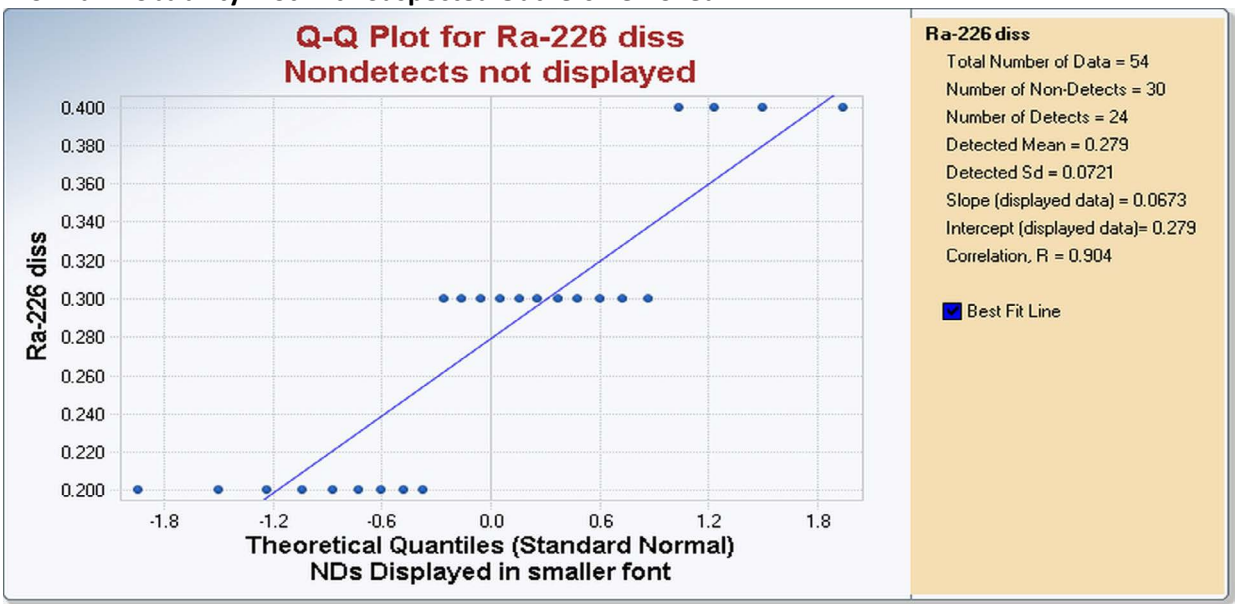
Suspected outlier based on visual screening
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data are nearly linear with two suspected high outliers.

Normal Probability Plot with Suspected Outliers Removed



Improved linear fit correlation; normality assumption is reasonable.
(Relatively low linear correlation is attributed to data precision - data points are grouped in 0.1 pCi/L increments.)

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Rosner's Test (α = 0.05, Calculated using ProUCL)

Mean	0.35
Standard deviation	0.30
Number of data	26
Number of suspected outliers	2

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM4	29-Apr	1.7	4.561	2.84	**Yes**
2	MU1-DM6	12-Jun	0.8	3.974	2.82	**Yes**

WDEQ/LQD Guideline 4 Outlier Test (α = 0.05, p = 0.99)

Mean*:	0.28
Standard deviation*:	0.07
n*	24
k	3.4886
Lower tolerance limit	0.03
Upper tolerance limit	0.53

*Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are **two Statistical Outliers: 1.7 and 0.8.**

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

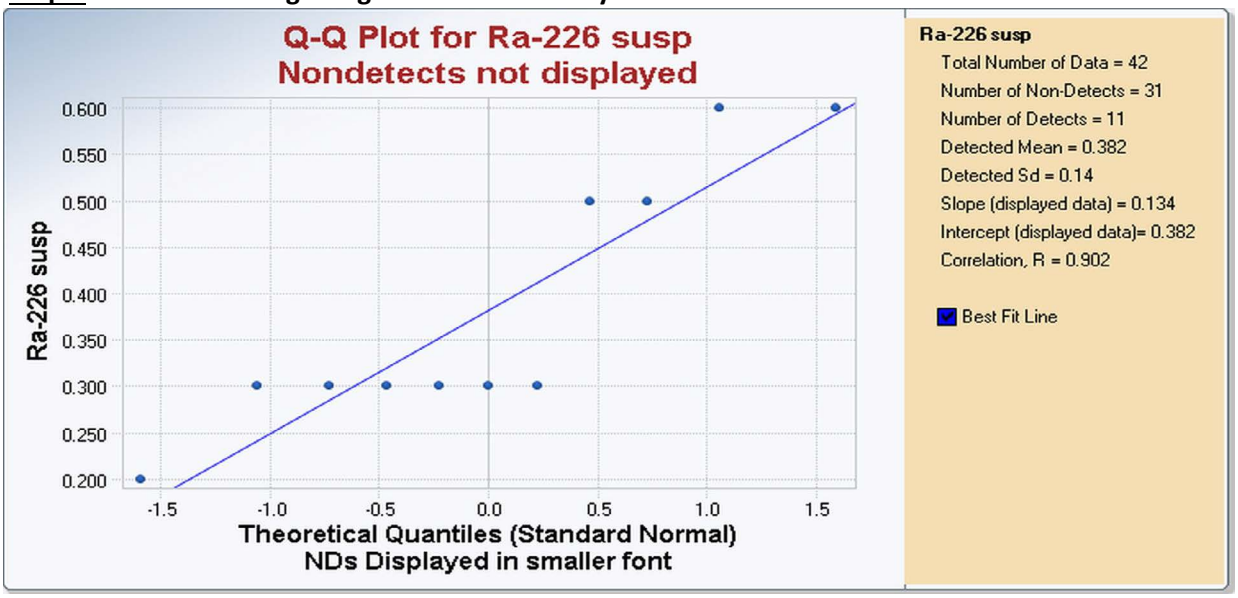
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
1.7	MU1-DM4	**Remove**	Anomalously high value for this well.
0.8	MU1-DM6	**Remove**	Anomalously high value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Radium-226, Suspended (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	0.3	14-May	<0.2	28-May	<0.2	Not measured	
MU1-DM2	29-Apr	0.3	14-May	<0.2	28-May	<0.2		
MU1-DM3A	28-Apr	<0.2	15-May	<0.2	29-May	0.5		
MU1-DM4	29-Apr	<0.2	14-May	<0.2	28-May	0.2		
MU1-DM5	29-Apr	<0.2	14-May	<0.2	28-May	<0.2		
MU1-DM6	28-Apr	<0.2	15-May	<0.2	29-May	<0.2		
MU1-DM7	28-Apr	0.3	15-May	<0.2	29-May	0.6		
MU1-DM8	28-Apr	<0.2	15-May	<0.2	29-May	<0.2		
MU1-DM9	28-Apr	<0.2	15-May	<0.2	29-May	0.3		
MU1-DM10	28-Apr	0.6	15-May	<0.2	29-May	<0.2		
MU1-DM11	28-Apr	<0.2	15-May	<0.2	29-May	<0.2		
MU1-DM12	28-Apr	<0.2	14-May	<0.2	28-May	<0.2		
MU1-DM13	28-Apr	<0.2	14-May	<0.2	28-May	0.5		
MU1-DM14	28-Apr	0.3	15-May	<0.2	29-May	0.3		

Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



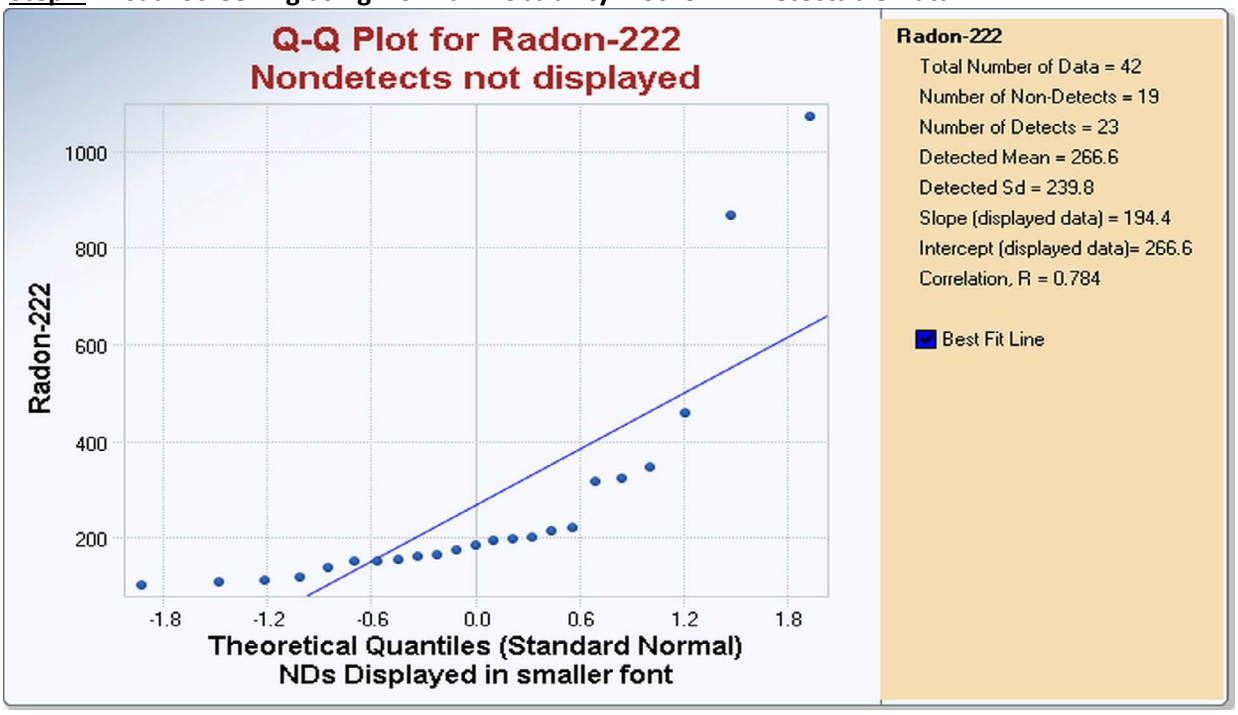
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Radon-222 (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	<100	14-May	1,070	28-May	322	Not measured	
MU1-DM2	29-Apr	<100	14-May	198	28-May	222		
MU1-DM3A	28-Apr	139	15-May	<100	29-May	<100		
MU1-DM4	29-Apr	103	14-May	213	28-May	868		
MU1-DM5	29-Apr	<100	14-May	165	28-May	316		
MU1-DM6	28-Apr	<100	15-May	<100	29-May	<100		
MU1-DM7	28-Apr	<100	15-May	<100	29-May	<100		
MU1-DM8	28-Apr	151	15-May	<100	29-May	113		
MU1-DM9	28-Apr	162	15-May	194	29-May	173		
MU1-DM10	28-Apr	<100	15-May	<100	29-May	<100		
MU1-DM11	28-Apr	151	15-May	<100	29-May	<100		
MU1-DM12	28-Apr	107	14-May	347	28-May	459		
MU1-DM13	28-Apr	155	14-May	118	28-May	185		
MU1-DM14	28-Apr	<100	15-May	201	29-May	<100		

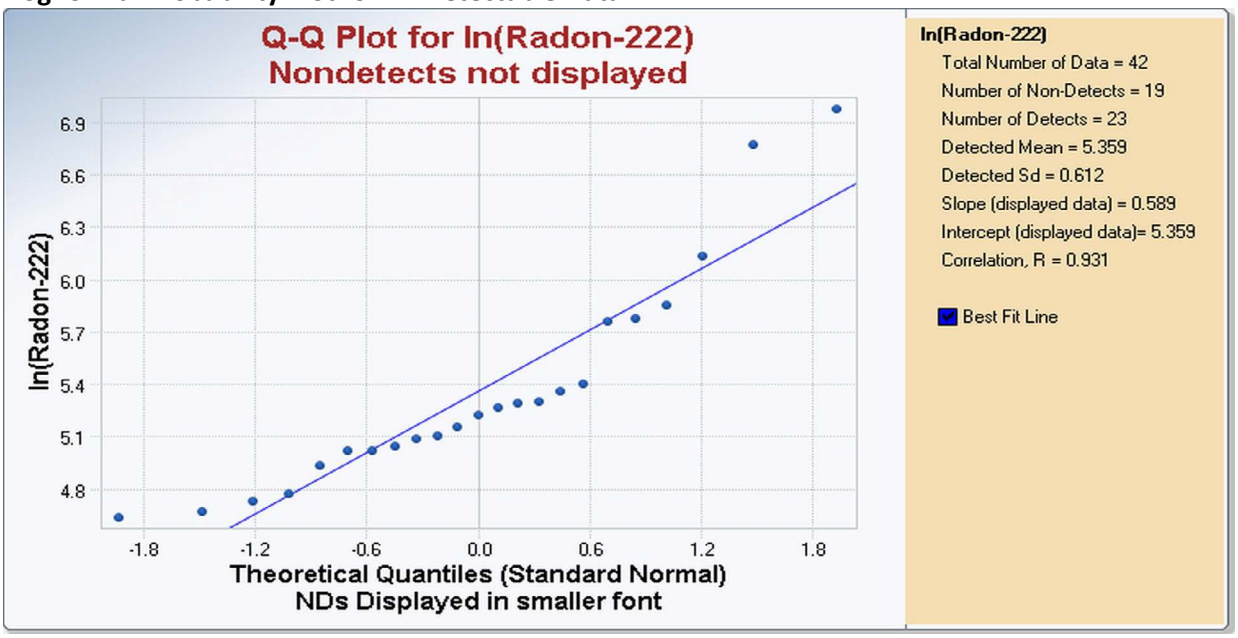
Suspected outlier based on visual screening
Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with two suspected high outliers.

<u>Step 2</u>: Statistical Evaluation of Suspected Outliers

Dixon's Test* (Excluding Non-Detects) (α = 0.05, Calculated using ProUCL)

Number of detectable values	22
Number of suspected outliers	1

#	Monitor Well	Sample Date	Potential Outlier	Test Value	Critical Value (5%)	**Statistical Outlier**
1	MU1-DM4	28-May	6.766	0.450	0.430	**Yes**

* Calculated using natural logarithm of concentration value; 6.766 corresponds to 868 pCi/L.
Note: Dixon's test evaluated the least extreme outlier; since 868 pCi/L is a statistical outlier, the more extreme value (1,070 pCi/L) also is a statistical outlier.

WDEQ/LQD Guideline 4 Outlier Test* (α = 0.05, p = 0.99)

Mean**:	5.22
Standard deviation**:	0.40
n**	21
k	3.5834
Lower tolerance limit	3.8
Upper tolerance limit	6.6

**Calculated without suspected outliers using detectable concentrations

For 5% significance level, there are **two Statistical Outliers: 6.975 (1,070 pCi/L) and 6.766 (868 pCi/L).**
* Calculated using natural logarithms of concentration values.

<u>Step 3</u>: Rationale for Removing or Keeping Statistical Outliers

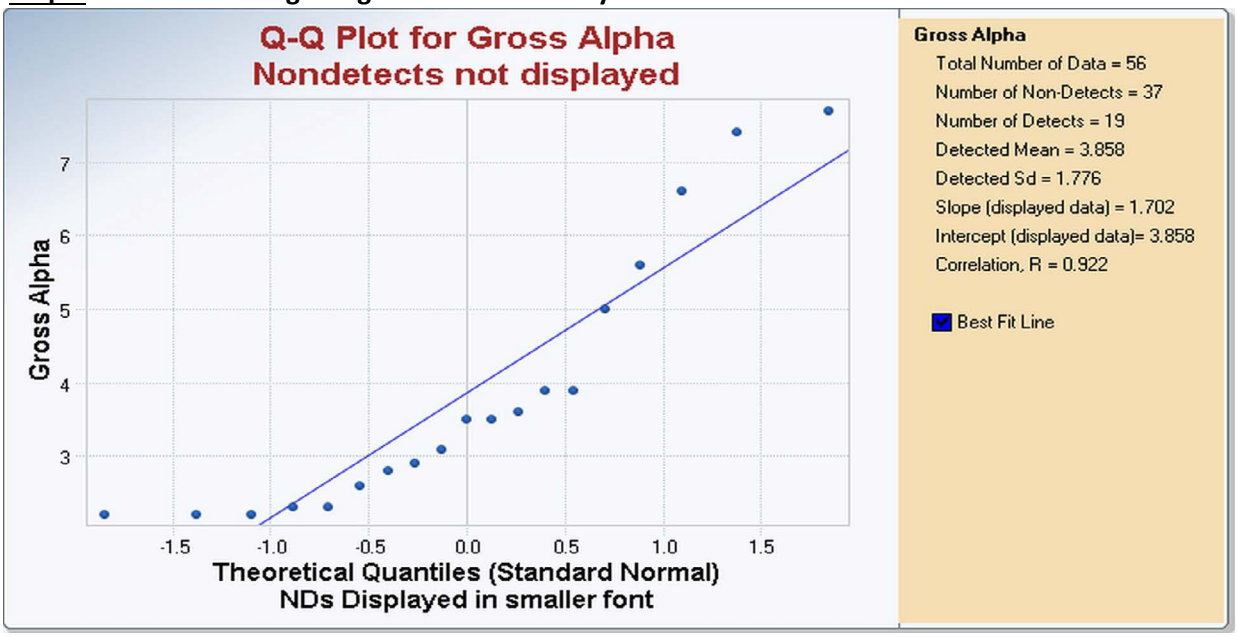
Value	Monitor Well	**Resolution of Suspected Outlier**	Justification
1,070	MU1-DM1	**Remove**	Anomalously high value for this well.
868	MU1-DM4	**Remove**	Anomalously low value for this well.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Gross Alpha (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	5.0	14-May	<2	28-May	<2	11-Jun	7.4
MU1-DM2	29-Apr	<2	14-May	<2	28-May	<2	11-Jun	<2
MU1-DM3A	28-Apr	2.9	15-May	<2	29-May	2.3	12-Jun	3.9
MU1-DM4	29-Apr	7.7	14-May	<2	28-May	<2	11-Jun	<2
MU1-DM5	29-Apr	<2	14-May	<2	28-May	<2	11-Jun	2.2
MU1-DM6	28-Apr	3.9	15-May	<2	29-May	<2	12-Jun	<2
MU1-DM7	28-Apr	5.6	15-May	2.8	29-May	2.2	12-Jun	2.2
MU1-DM8	28-Apr	<2	15-May	<2	29-May	3.1	12-Jun	<2
MU1-DM9	28-Apr	3.5	15-May	<2	29-May	2.6	12-Jun	<2
MU1-DM10	28-Apr	6.6	15-May	<2	29-May	<2	12-Jun	<2
MU1-DM11	28-Apr	<2	15-May	<2	29-May	<2	12-Jun	<2
MU1-DM12	28-Apr	<2	14-May	<2	28-May	<2	11-Jun	<2
MU1-DM13	28-Apr	2.3	14-May	<2	28-May	<2	11-Jun	3.5
MU1-DM14	28-Apr	<2	15-May	<2	29-May	3.6	12-Jun	<2

Note: all dates are 2015.

Step 1: Visual Screening using Normal Probability Plot for All Detectable Data



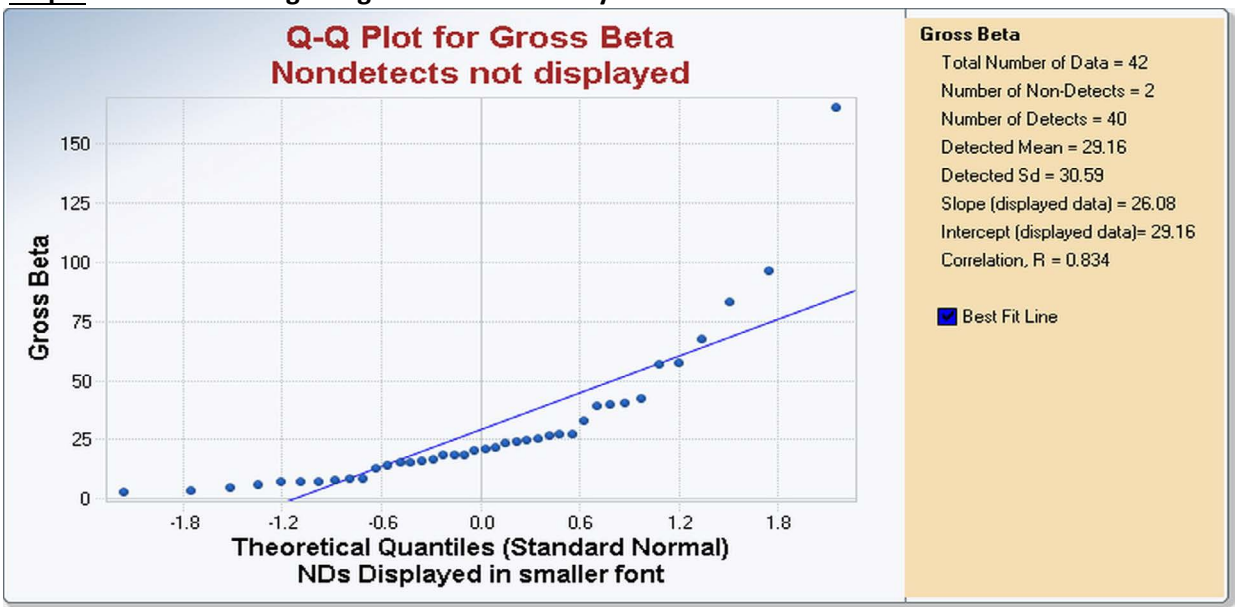
Normality assumption is reasonable with no suspected outliers; no need for formal testing.

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Gross Beta (pCi/L)**

Monitor Well	Round 1		Round 2		Round 3		Round 4	
	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	7.2	14-May	4.8	28-May	6.1	Not measured	
MU1-DM2	29-Apr	7.5	14-May	7.0	28-May	<3		
MU1-DM3A	28-Apr	12.8	15-May	13.8	29-May	18.2		
MU1-DM4	29-Apr	8.1	14-May	<3	28-May	3.0		
MU1-DM5	29-Apr	8.2	14-May	7.1	28-May	3.6		
MU1-DM6	28-Apr	27.3	15-May	18.4	29-May	16.2		
MU1-DM7	28-Apr	32.7	15-May	21.6	29-May	23.2		
MU1-DM8	28-Apr	24.6	15-May	18.6	29-May	15.0		
MU1-DM9	28-Apr	57.3	15-May	38.9	29-May	40.6		
MU1-DM10	28-Apr	20.7	15-May	16.3	29-May	15.0		
MU1-DM11	28-Apr	25.4	15-May	24.1	29-May	26.3		
MU1-DM12	28-Apr	42.0	14-May	20.1	28-May	27.2		
MU1-DM13	28-Apr	56.6	14-May	82.8	28-May	67.1		
MU1-DM14	28-Apr	165	15-May	39.8	29-May	96.1		

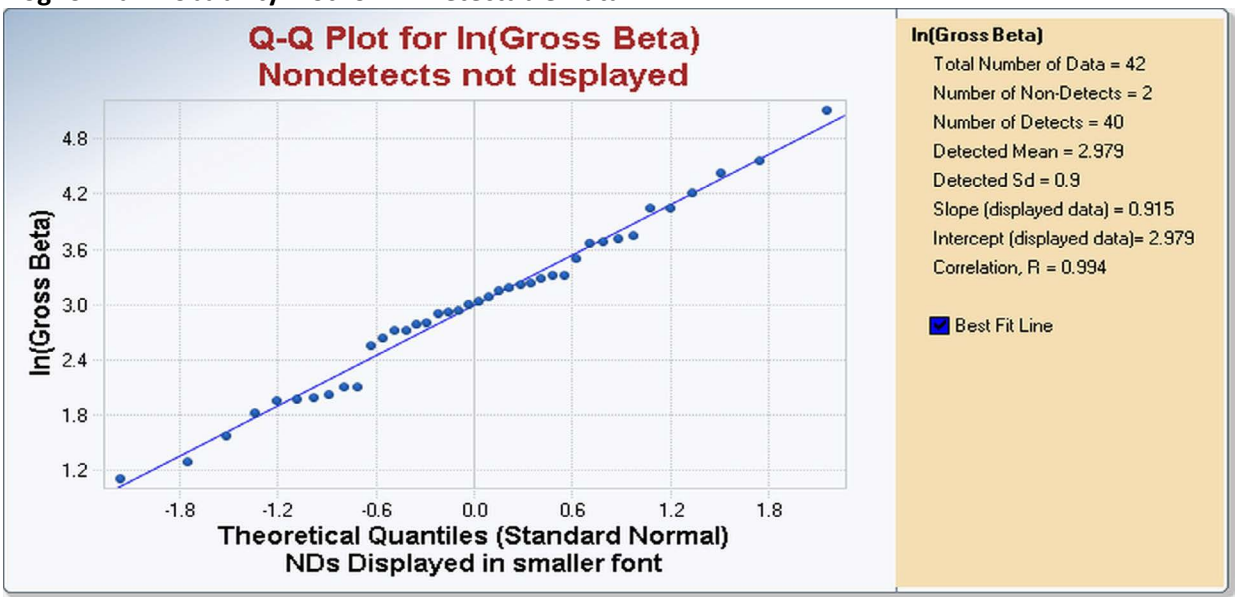
Note: all dates are 2015.

<u>Step 1</u>: Visual Screening using Normal Probability Plot for All Detectable Data



Data do not appear to be normally distributed.

Lognormal Probability Plot for All Detectable Data



Improved linear fit. Lognormal distribution assumption is reasonable with no suspected outliers; no need for formal testing.

ATTACHMENT 10

MU1 Aqueous Data Quality Assurance Report

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Precision 1
1.2 Accuracy 3
1.3 Completeness 5
1.4 Comparability 5
2.0 REFERENCES 5

LIST OF TABLES

Table 1. Summary of Precision Results 2
Table 2. Summary of Field Blank Results 4
Table 3. SM 1030 Anion-Cation Balance Criteria 5

LIST OF APPENDICES

Appendix A RPD Statistics
Appendix B Field Blank Results

1.0 INTRODUCTION

Strata's Environmental Management Program (EMP) outlines data quality objectives in order to collect representative data that can be used for decision making. Four primary factors were utilized to evaluate aqueous data quality:

- Precision
- Accuracy
- Completeness
- Comparability

The data presented in this analysis were collected to establish background water quality for Strata's Mine Unit 1 (MU1) wellfield data package. All samples were collected between March 31 and June 15, 2015 and analyzed by Inter-Mountain Laboratories (IML) in Sheridan, Wyoming.

1.1 Precision

Strata collected field duplicate samples as part of the pre-operational groundwater quality monitoring program. The duplicate analytical results were used for QA/QC evaluation, primarily to assess data precision. Precision refers to the agreement between two or more measurements of the same parameter and is evaluated by calculating the relative percent difference (RPD) between the samples.

Duplicate and RPD statistics are summarized in Table 1. Field duplicate samples were collected for over 10 percent of all samples, which met Strata's data quality objective. The RPD statistics indicate that approximately 12 percent of the duplicates exceeded the objective of 10 percent. The majority of these exceedances were due to comparisons of concentrations near the laboratory detection limits and/or radionuclides with higher relative variability than other constituents. RPD statistics for undetectable values were calculated using half of the detection limit. Complete RPD results are included in Appendix A.

Table 1. Summary of Precision Results

Constituent	Units	Number of Duplicates	Total Number of Valid Samples	Percent Duplicates	Number of RPDs >10%	Percent of RPDs >10%
Inorganics						
Alkalinity (as $CaCO_3$)	mg/l	37	294	13%	3	8%
Ammonia	mg/l	37	294	13%	8	22%
Calcium	mg/l	37	294	13%	5	14%
Magnesium	mg/l	37	294	13%	0	0%
Potassium	mg/l	37	294	13%	2	5%
Sodium	mg/l	37	294	13%	0	0%
Bicarbonate	mg/l	37	294	13%	2	5%
Carbonate	mg/l	37	294	13%	5	14%
Chloride	mg/l	37	294	13%	10	27%
Fluoride	mg/l	37	294	13%	4	11%
Nitrate/Nitrite	mg/l	37	294	13%	1	3%
Sulfate	mg/l	37	294	13%	0	0%
Metals						
Aluminum, dissolved	mg/l	37	294	13%	0	0%
Arsenic, dissolved	mg/l	37	294	13%	2	5%
Barium, dissolved	mg/l	37	294	13%	0	0%
Boron, dissolved	mg/l	37	294	13%	1	3%
Cadmium, dissolved	mg/l	37	294	13%	0	0%
Chromium, dissolved	mg/l	37	294	13%	0	0%
Copper, dissolved	mg/l	37	294	13%	0	0%
Iron, dissolved	mg/l	37	294	13%	3	8%
Iron, total	mg/l	37	222	17%	9	24%
Lead, dissolved	mg/l	37	294	13%	0	0%
Manganese, dissolved	mg/l	NM	72	0%	NA	NA
Manganese, total	mg/l	37	222	17%	1	3%
Mercury, dissolved	mg/l	37	294	13%	0	0%
Molybdenum, dissolved	mg/l	37	294	13%	0	0%
Nickel, dissolved	mg/l	37	294	13%	0	0%
Selenium, dissolved	mg/l	37	294	13%	0	0%
Silver, dissolved	mg/l	37	222	17%	0	0%
Uranium, dissolved	mg/l	37	294	13%	10	27%
Uranium, suspended	mg/l	37	222	17%	2	5%
Vanadium, dissolved	mg/l	37	294	13%	0	0%
Zinc, dissolved	mg/l	37	294	13%	0	0%
Other						
Laboratory conductivity	µmhos/cm	37	294	13%	0	0%
Laboratory pH	s.u.	37	294	13%	0	0%
Silica as SiO_2	mg/l	NM	72	0%	NA	NA
Total dissolved solids	mg/l	37	294	13%	1	3%
Radiological						
Gross alpha	pCi/l	37	294	13%	23	62%
Gross beta	pCi/l	37	222	17%	24	65%
Lead-210, dissolved	pCi/l	37	222	17%	16	43%
Lead-210, suspended	pCi/l	37	222	17%	19	51%
Polonium-210, dissolved	pCi/l	37	222	17%	10	27%
Polonium-210, suspended	pCi/l	37	222	17%	13	35%
Radium-226, dissolved	pCi/l	37	294	13%	15	41%
Radium-226, suspended	pCi/l	37	222	17%	8	22%
Radium-228, dissolved	pCi/l	37	294	13%	8	22%
Thorium-230, dissolved	pCi/l	37	222	17%	1	3%
Thorium-230, suspended	pCi/l	37	222	17%	1	3%
Radon-222	pCi/l	37	222	17%	7	19%

Overall, the RPD statistics indicate that the groundwater quality data collected during the MU1pre-operational monitoring program are valid.

1.2 Accuracy

Accuracy refers to the agreement between measured and true values. Several types of evaluative methods were utilized to determine accuracy including blank samples, linear regression analysis comparing field and analytical results, and ion balance analysis. Additionally, the contract laboratory completed spikes and laboratory control samples.

Strata collected a total of 17 field blank samples as part of the MU1 pre-operational water quality monitoring program. Blank samples were analyzed by IML for the same parameter suite as the monitor well samples. Results were non-detect for most constituents. A summary of the results is provided in Table 2, while complete field blank results are provided in Appendix B. Chloride and gross alpha were measured above the detection limit in one field blank sample each, and radon-222 was measured in two samples. All detectable concentrations were near the detection limits.

Linear regression analysis was completed for field and laboratory EC and for measured and calculated TDS. The following summarizes the regression results.

- Field EC versus laboratory EC: $R^2 = 0.81$
- Measured TDS versus calculated TDS: $R^2 = 0.91$

An analysis of the ion balances was completed to ensure the laboratory criteria were met. All data met the criteria outlined in SM 1030E (SM 2006), which are listed in Table 3. Based on the field blank results, linear regression analysis, and ion balance analysis, all data collected were found to be valid.

Table 2. Summary of Field Blank Results

Constituent	Units	Number of Field Blanks	Total Number of Valid Samples	Percent Field Blanks	Number > DL	Percent > DL
Inorganics						
Alkalinity (as $CaCO_3$)	mg/l	17	294	6%	0	0%
Ammonia	mg/l	17	294	6%	0	0%
Calcium	mg/l	17	294	6%	0	0%
Magnesium	mg/l	17	294	6%	0	0%
Potassium	mg/l	17	294	6%	0	0%
Sodium	mg/l	17	294	6%	0	0%
Bicarbonate	mg/l	17	294	6%	0	0%
Carbonate	mg/l	17	294	6%	0	0%
Chloride	mg/l	17	294	6%	1	6%
Fluoride	mg/l	17	294	6%	0	0%
Nitrate/Nitrite	mg/l	17	294	6%	0	0%
Sulfate	mg/l	17	294	6%	0	0%
Metals						
Aluminum, dissolved	mg/l	17	294	6%	0	0%
Arsenic, dissolved	mg/l	17	294	6%	0	0%
Barium, dissolved	mg/l	17	294	6%	0	0%
Boron, dissolved	mg/l	17	294	6%	0	0%
Cadmium, dissolved	mg/l	17	294	6%	0	0%
Chromium, dissolved	mg/l	17	294	6%	0	0%
Copper, dissolved	mg/l	17	294	6%	0	0%
Iron, dissolved	mg/l	17	294	6%	0	0%
Iron, total	mg/l	13	222	6%	0	0%
Lead, dissolved	mg/l	17	294	6%	0	0%
Manganese, dissolved	mg/l	4	72	6%	0	0%
Manganese, total	mg/l	13	222	6%	0	0%
Mercury, dissolved	mg/l	17	294	6%	0	0%
Molybdenum, dissolved	mg/l	17	294	6%	0	0%
Nickel, dissolved	mg/l	17	294	6%	0	0%
Selenium, dissolved	mg/l	17	294	6%	0	0%
Silver, dissolved	mg/l	13	222	6%	0	0%
Uranium, dissolved	mg/l	17	294	6%	0	0%
Uranium, suspended	mg/l	13	222	6%	0	0%
Vanadium, dissolved	mg/l	17	294	6%	0	0%
Zinc, dissolved	mg/l	17	294	6%	0	0%
Other						
Laboratory conductivity	µmhos/cm	17	294	6%	0	0%
Laboratory pH	s.u.	17	294	6%	17	100%
Silica as SiO_2	mg/l	4	72	6%	0	0%
Total dissolved solids	mg/l	17	294	6%	0	0%
Radiological						
Gross alpha	pCi/l	17	294	6%	1	6%
Gross beta	pCi/l	13	222	6%	0	0%
Lead-210, dissolved	pCi/l	13	222	6%	0	0%
Lead-210, suspended	pCi/l	13	222	6%	0	0%
Polonium-210, dissolved	pCi/l	13	222	6%	0	0%
Polonium-210, suspended	pCi/l	13	222	6%	0	0%
Radium-226, dissolved	pCi/l	17	294	6%	0	0%
Radium-226, suspended	pCi/l	13	222	6%	0	0%
Radium-228, dissolved	pCi/l	17	294	6%	0	0%
Thorium-230, dissolved	pCi/l	13	222	6%	0	0%
Thorium-230, suspended	pCi/l	13	222	6%	0	0%
Radon-222	pCi/l	13	222	6%	2	15%

Table 3. SM 1030 Anion-Cation Balance Criteria

Anion Sum (meq/L)	Acceptable Difference
0 – 3.0	± 0.2 meq/L
3.0 – 10.0	± 2%
10.0 - 800	± 5%

Source: SM 2006

1.3 Completeness

Completeness is the percent of valid data collected for the project. All of the samples collected by Strata were deemed valid.

1.4 Comparability

The WDEQ/WQD describes comparability as "a qualitative evaluation of the degree of confidence a data collection entity has in the ability of data users to compare its data with another data set" (WDEQ/WQD 2015). The results of the outlier analysis completed as part of the MU1 wellfield data package support the data collection and analysis methods, since few outliers were identified. Comparability of the data collected as part of the pre-operational groundwater quality monitoring program and ongoing data collection will be achieved by:

- Adhering to standard methods for data collection and analysis through the use of the EMP;
- Using standard units, reporting formats, and field forms;
- Implementing consistent QA/QC measures for field and laboratory activities;
- Documenting the precision and accuracy of the data set;
- Conducting performance evaluations and audits; and
- Executing structured recordkeeping, data archiving, and reporting.

2.0 REFERENCES

Standard Methods for the Examination of Water and Wastewater (SM), 2006, SM 1030, Data Quality.

Wyoming Department of Environment Quality, Water Quality Division (WDEQ/WQD), 2015, Manual of Standard Operating Procedures for Sample Collection and Analysis.

APPENDIX A

RPD Statistics

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ1	5/28/2015	Alkalinity (as CaCO3)	mg/l	564	539	4.5%
MU1-OZ1	5/28/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ1	5/28/2015	Bicarbonate	mg/l	622	593	4.8%
MU1-OZ1	5/28/2015	Carbonate	mg/l	32	32	0.0%
MU1-OZ1	5/28/2015	Chloride	mg/l	6	7	15.4%
MU1-OZ1	5/28/2015	Fluoride	mg/l	0.4	0.4	0.0%
MU1-OZ1	5/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ1	5/28/2015	Sulfate	mg/l	654	663	1.4%
MU1-OZ1	5/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ1	5/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ1	5/28/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ1	5/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ1	5/28/2015	Calcium	mg/l	7	7	0.0%
MU1-OZ1	5/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ1	5/28/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ1	5/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/28/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ1	5/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ1	5/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/28/2015	Potassium	mg/l	6	6	0.0%
MU1-OZ1	5/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ1	5/28/2015	Sodium	mg/l	620	607	2.1%
MU1-OZ1	5/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/28/2015	Anion Sum	meq/L	25.08	24.8	1.1%
MU1-OZ1	5/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ1	5/28/2015	Cation Sum	meq/L	27.69	27.13	2.0%
MU1-OZ1	5/28/2015	Laboratory conductivity	umhos/cm	2450	2450	0.0%
MU1-OZ1	5/28/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-OZ1	5/28/2015	Radon-222	pCi/l	92300	91200	1.2%
MU1-OZ1	5/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ1	5/28/2015	Total Anion/Cation Balance	%	4.95	4.49	9.7%
MU1-OZ1	5/28/2015	Total Dissolved Solids	mg/l	1740	1740	0.0%
MU1-OZ1	5/28/2015	Total Dissolved Solids (calc)	mg/l	1630	1620	0.6%
MU1-OZ1	5/28/2015	Uranium, dissolved	mg/l	0.0539	0.0541	0.4%
MU1-OZ1	5/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/28/2015	Gross Alpha	pCi/l	217	218	0.5%
MU1-OZ1	5/28/2015	Gross Beta	pCi/l	79.9	75	6.3%
MU1-OZ1	5/28/2015	Lead 210, dissolved	pCi/l	12	13	8.0%
MU1-OZ1	5/28/2015	Lead 210, suspended	pCi/l	<1	2.4	131.0%
MU1-OZ1	5/28/2015	Polonium 210, dissolved	pCi/l	44.2	43.5	1.6%
MU1-OZ1	5/28/2015	Polonium 210, suspended	pCi/l	16.5	7.6	73.9%
MU1-OZ1	5/28/2015	Ra-226, dissolved	pCi/l	48.7	46.2	5.3%
MU1-OZ1	5/28/2015	Ra-226, suspended	pCi/l	<0.2	0.3	100.0%
MU1-OZ1	5/28/2015	Ra-228, Dissolved	pCi/l	<1	1.4	94.7%
MU1-OZ1	5/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ1	5/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ1	5/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ1	5/14/2015	Alkalinity (as CaCO3)	mg/l	535	534	0.2%
MU1-OZ1	5/14/2015	Ammonia	mg/l	0.5	0.5	0.0%
MU1-OZ1	5/14/2015	Bicarbonate	mg/l	583	585	0.3%
MU1-OZ1	5/14/2015	Carbonate	mg/l	34	33	3.0%
MU1-OZ1	5/14/2015	Chloride	mg/l	7	7	0.0%
MU1-OZ1	5/14/2015	Fluoride	mg/l	0.4	0.4	0.0%
MU1-OZ1	5/14/2015	Nitrate/Nitrite	mg/l	<0.1	0.3	142.9%
MU1-OZ1	5/14/2015	Sulfate	mg/l	704	698	0.9%
MU1-OZ1	5/14/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ1	5/14/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ1	5/14/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ1	5/14/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ1	5/14/2015	Calcium	mg/l	7	7	0.0%
MU1-OZ1	5/14/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/14/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/14/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ1	5/14/2015	Iron, total	mg/l	0.06	0.06	0.0%
MU1-OZ1	5/14/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/14/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ1	5/14/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/14/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ1	5/14/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/14/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/14/2015	Potassium	mg/l	7	7	0.0%
MU1-OZ1	5/14/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ1	5/14/2015	Sodium	mg/l	621	622	0.2%
MU1-OZ1	5/14/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ1	5/14/2015	Anion Sum	meq/L	25.56	25.44	0.5%
MU1-OZ1	5/14/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ1	5/14/2015	Cation Sum	meq/L	27.77	27.81	0.1%
MU1-OZ1	5/14/2015	Laboratory conductivity	umhos/cm	2570	2580	0.4%
MU1-OZ1	5/14/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ1	5/14/2015	Radon-222	pCi/l	84900	84000	1.1%
MU1-OZ1	5/14/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ1	5/14/2015	Total Anion/Cation Balance	%	4.12	4.43	7.3%
MU1-OZ1	5/14/2015	Total Dissolved Solids	mg/l	1690	1660	1.8%
MU1-OZ1	5/14/2015	Total Dissolved Solids (calc)	mg/l	1670	1660	0.6%
MU1-OZ1	5/14/2015	Uranium, dissolved	mg/l	0.0838	0.0869	3.6%
MU1-OZ1	5/14/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ1	5/14/2015	Gross Alpha	pCi/l	190	230	19.0%
MU1-OZ1	5/14/2015	Gross Beta	pCi/l	95.1	94.4	0.7%
MU1-OZ1	5/14/2015	Lead 210, dissolved	pCi/l	20.2	20.1	0.5%
MU1-OZ1	5/14/2015	Lead 210, suspended	pCi/l	4.8	5.1	6.1%
MU1-OZ1	5/14/2015	Polonium 210, dissolved	pCi/l	7.8	20.3	89.0%
MU1-OZ1	5/14/2015	Polonium 210, suspended	pCi/l	28.9	35.8	21.3%
MU1-OZ1	5/14/2015	Ra-226, dissolved	pCi/l	45.3	41.2	9.5%
MU1-OZ1	5/14/2015	Ra-226, suspended	pCi/l	0.3	0.2	40.0%
MU1-OZ1	5/14/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ1	5/14/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ1	5/14/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ1	5/14/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ2	5/27/2015	Alkalinity (as CaCO3)	mg/l	543	533	1.9%
MU1-OZ2	5/27/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ2	5/27/2015	Bicarbonate	mg/l	606	593	2.2%
MU1-OZ2	5/27/2015	Carbonate	mg/l	28	28	0.0%
MU1-OZ2	5/27/2015	Chloride	mg/l	6	6	0.0%
MU1-OZ2	5/27/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ2	5/27/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ2	5/27/2015	Sulfate	mg/l	583	584	0.2%
MU1-OZ2	5/27/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ2	5/27/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ2	5/27/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ2	5/27/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ2	5/27/2015	Calcium	mg/l	6	6	0.0%
MU1-OZ2	5/27/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ2	5/27/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ2	5/27/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ2	5/27/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ2	5/27/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ2	5/27/2015	Magnesium	mg/l	2	2	0.0%
MU1-OZ2	5/27/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ2	5/27/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ2	5/27/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ2	5/27/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ2	5/27/2015	Potassium	mg/l	5	5	0.0%
MU1-OZ2	5/27/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ2	5/27/2015	Sodium	mg/l	560	558	0.4%
MU1-OZ2	5/27/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ2	5/27/2015	Anion Sum	meq/L	23.18	23	0.8%
MU1-OZ2	5/27/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ2	5/27/2015	Cation Sum	meq/L	25.02	24.96	0.2%
MU1-OZ2	5/27/2015	Laboratory conductivity	umhos/cm	2200	2200	0.0%
MU1-OZ2	5/27/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-OZ2	5/27/2015	Radon-222	pCi/l	13900	14200	2.1%
MU1-OZ2	5/27/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ2	5/27/2015	Total Anion/Cation Balance	%	3.81	4.09	7.1%
MU1-OZ2	5/27/2015	Total Dissolved Solids	mg/l	1530	1510	1.3%
MU1-OZ2	5/27/2015	Total Dissolved Solids (calc)	mg/l	1490	1480	0.7%
MU1-OZ2	5/27/2015	Uranium, dissolved	mg/l	0.0597	0.0682	13.3%
MU1-OZ2	5/27/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ2	5/27/2015	Gross Alpha	pCi/l	79.9	105	27.1%
MU1-OZ2	5/27/2015	Gross Beta	pCi/l	29.4	27	8.5%
MU1-OZ2	5/27/2015	Lead 210, dissolved	pCi/l	4	3.6	10.5%
MU1-OZ2	5/27/2015	Lead 210, suspended	pCi/l	1	<1	66.7%
MU1-OZ2	5/27/2015	Polonium 210, dissolved	pCi/l	1.1	<1	75.0%
MU1-OZ2	5/27/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-OZ2	5/27/2015	Ra-226, dissolved	pCi/l	10.7	13.4	22.4%
MU1-OZ2	5/27/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ2	5/27/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ2	5/27/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ2	5/27/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ2	5/27/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ3	5/28/2015	Alkalinity (as CaCO3)	mg/l	501	492	1.8%
MU1-OZ3	5/28/2015	Ammonia	mg/l	0.6	0.6	0.0%
MU1-OZ3	5/28/2015	Bicarbonate	mg/l	561	547	2.5%
MU1-OZ3	5/28/2015	Carbonate	mg/l	25	26	3.9%
MU1-OZ3	5/28/2015	Chloride	mg/l	11	12	8.7%
MU1-OZ3	5/28/2015	Fluoride	mg/l	0.2	0.2	0.0%
MU1-OZ3	5/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ3	5/28/2015	Sulfate	mg/l	1080	1110	2.7%
MU1-OZ3	5/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ3	5/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ3	5/28/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ3	5/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ3	5/28/2015	Calcium	mg/l	10	10	0.0%
MU1-OZ3	5/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ3	5/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ3	5/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ3	5/28/2015	Iron, total	mg/l	0.06	0.06	0.0%
MU1-OZ3	5/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ3	5/28/2015	Magnesium	mg/l	4	4	0.0%
MU1-OZ3	5/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ3	5/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ3	5/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ3	5/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ3	5/28/2015	Potassium	mg/l	9	9	0.0%
MU1-OZ3	5/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ3	5/28/2015	Sodium	mg/l	750	742	1.1%
MU1-OZ3	5/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ3	5/28/2015	Anion Sum	meq/L	32.77	33.3	1.6%
MU1-OZ3	5/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ3	5/28/2015	Cation Sum	meq/L	33.73	33.36	1.1%
MU1-OZ3	5/28/2015	Laboratory conductivity	umhos/cm	3150	3150	0.0%
MU1-OZ3	5/28/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-OZ3	5/28/2015	Radon-222	pCi/l	4540	4450	2.0%
MU1-OZ3	5/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ3	5/28/2015	Total Anion/Cation Balance	%	1.44	0.09	176.5%
MU1-OZ3	5/28/2015	Total Dissolved Solids	mg/l	2260	2260	0.0%
MU1-OZ3	5/28/2015	Total Dissolved Solids (calc)	mg/l	2160	2180	0.9%
MU1-OZ3	5/28/2015	Uranium, dissolved	mg/l	0.0545	0.0584	6.9%
MU1-OZ3	5/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ3	5/28/2015	Gross Alpha	pCi/l	62.4	73.2	15.9%
MU1-OZ3	5/28/2015	Gross Beta	pCi/l	24.9	14.9	50.3%
MU1-OZ3	5/28/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-OZ3	5/28/2015	Lead 210, suspended	pCi/l	1.5	1.3	14.3%
MU1-OZ3	5/28/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-OZ3	5/28/2015	Polonium 210, suspended	pCi/l	1.2	1.7	34.5%
MU1-OZ3	5/28/2015	Ra-226, dissolved	pCi/l	4	3.6	10.5%
MU1-OZ3	5/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ3	5/28/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ3	5/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ3	5/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ3	5/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ4	5/13/2015	Alkalinity (as CaCO3)	mg/l	540	541	0.2%
MU1-OZ4	5/13/2015	Ammonia	mg/l	0.5	0.5	0.0%
MU1-OZ4	5/13/2015	Bicarbonate	mg/l	582	583	0.2%
MU1-OZ4	5/13/2015	Carbonate	mg/l	38	38	0.0%
MU1-OZ4	5/13/2015	Chloride	mg/l	5	5	0.0%
MU1-OZ4	5/13/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ4	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ4	5/13/2015	Sulfate	mg/l	607	603	0.7%
MU1-OZ4	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ4	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ4	5/13/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ4	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ4	5/13/2015	Calcium	mg/l	7	7	0.0%
MU1-OZ4	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ4	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ4	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ4	5/13/2015	Iron, total	mg/l	0.12	0.1	18.2%
MU1-OZ4	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ4	5/13/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ4	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ4	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ4	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ4	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ4	5/13/2015	Potassium	mg/l	6	6	0.0%
MU1-OZ4	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ4	5/13/2015	Sodium	mg/l	567	569	0.4%
MU1-OZ4	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ4	5/13/2015	Anion Sum	meq/L	23.6	23.54	0.3%
MU1-OZ4	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ4	5/13/2015	Cation Sum	meq/L	25.43	25.52	0.4%
MU1-OZ4	5/13/2015	Laboratory conductivity	umhos/cm	2390	2410	0.8%
MU1-OZ4	5/13/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ4	5/13/2015	Radon-222	pCi/l	22200	21800	1.8%
MU1-OZ4	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ4	5/13/2015	Total Anion/Cation Balance	%	3.74	4.02	7.2%
MU1-OZ4	5/13/2015	Total Dissolved Solids	mg/l	1500	1660	10.1%
MU1-OZ4	5/13/2015	Total Dissolved Solids (calc)	mg/l	1520	1520	0.0%
MU1-OZ4	5/13/2015	Uranium, dissolved	mg/l	0.109	0.106	2.8%
MU1-OZ4	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ4	5/13/2015	Gross Alpha	pCi/l	114	143	22.6%
MU1-OZ4	5/13/2015	Gross Beta	pCi/l	23.6	34	36.1%
MU1-OZ4	5/13/2015	Lead 210, dissolved	pCi/l	1.3	1.4	7.4%
MU1-OZ4	5/13/2015	Lead 210, suspended	pCi/l	3.4	3.5	2.9%
MU1-OZ4	5/13/2015	Polonium 210, dissolved	pCi/l	<1	1.1	75.0%
MU1-OZ4	5/13/2015	Polonium 210, suspended	pCi/l	3	2.5	18.2%
MU1-OZ4	5/13/2015	Ra-226, dissolved	pCi/l	2	2	0.0%
MU1-OZ4	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ4	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ4	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ4	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ4	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ9	5/13/2015	Alkalinity (as CaCO3)	mg/l	554	545	1.6%
MU1-OZ9	5/13/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ9	5/13/2015	Bicarbonate	mg/l	547	534	2.4%
MU1-OZ9	5/13/2015	Carbonate	mg/l	63	64	1.6%
MU1-OZ9	5/13/2015	Chloride	mg/l	5	5	0.0%
MU1-OZ9	5/13/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ9	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ9	5/13/2015	Sulfate	mg/l	575	587	2.1%
MU1-OZ9	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ9	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ9	5/13/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ9	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ9	5/13/2015	Calcium	mg/l	4	4	0.0%
MU1-OZ9	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ9	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ9	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ9	5/13/2015	Iron, total	mg/l	0.16	<0.05	145.9%
MU1-OZ9	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ9	5/13/2015	Magnesium	mg/l	1	1	0.0%
MU1-OZ9	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ9	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ9	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ9	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ9	5/13/2015	Potassium	mg/l	11	11	0.0%
MU1-OZ9	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ9	5/13/2015	Sodium	mg/l	556	550	1.1%
MU1-OZ9	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ9	5/13/2015	Anion Sum	meq/L	23.19	23.26	0.3%
MU1-OZ9	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ9	5/13/2015	Cation Sum	meq/L	24.8	24.55	1.0%
MU1-OZ9	5/13/2015	Laboratory conductivity	umhos/cm	2380	2390	0.4%
MU1-OZ9	5/13/2015	Laboratory pH	s.u.	9.1	9.1	0.0%
MU1-OZ9	5/13/2015	Radon-222	pCi/l	95200	93800	1.5%
MU1-OZ9	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ9	5/13/2015	Total Anion/Cation Balance	%	3.36	2.7	21.8%
MU1-OZ9	5/13/2015	Total Dissolved Solids	mg/l	1460	1460	0.0%
MU1-OZ9	5/13/2015	Total Dissolved Solids (calc)	mg/l	1480	1480	0.0%
MU1-OZ9	5/13/2015	Uranium, dissolved	mg/l	0.0797	0.0823	3.2%
MU1-OZ9	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ9	5/13/2015	Gross Alpha	pCi/l	145	145	0.0%
MU1-OZ9	5/13/2015	Gross Beta	pCi/l	61.7	59.9	3.0%
MU1-OZ9	5/13/2015	Lead 210, dissolved	pCi/l	9.4	10.8	13.9%
MU1-OZ9	5/13/2015	Lead 210, suspended	pCi/l	10.1	8.8	13.8%
MU1-OZ9	5/13/2015	Polonium 210, dissolved	pCi/l	16	10.8	38.8%
MU1-OZ9	5/13/2015	Polonium 210, suspended	pCi/l	23.3	24.2	3.8%
MU1-OZ9	5/13/2015	Ra-226, dissolved	pCi/l	20.4	21	2.9%
MU1-OZ9	5/13/2015	Ra-226, suspended	pCi/l	0.3	0.2	40.0%
MU1-OZ9	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ9	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ9	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ9	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ11	5/27/2015	Alkalinity (as CaCO3)	mg/l	536	528	1.5%
MU1-OZ11	5/27/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ11	5/27/2015	Bicarbonate	mg/l	583	570	2.3%
MU1-OZ11	5/27/2015	Carbonate	mg/l	35	37	5.6%
MU1-OZ11	5/27/2015	Chloride	mg/l	9	9	0.0%
MU1-OZ11	5/27/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ11	5/27/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ11	5/27/2015	Sulfate	mg/l	793	790	0.4%
MU1-OZ11	5/27/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ11	5/27/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ11	5/27/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ11	5/27/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ11	5/27/2015	Calcium	mg/l	9	9	0.0%
MU1-OZ11	5/27/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ11	5/27/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ11	5/27/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ11	5/27/2015	Iron, total	mg/l	<0.05	0.05	66.7%
MU1-OZ11	5/27/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ11	5/27/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ11	5/27/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ11	5/27/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ11	5/27/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ11	5/27/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ11	5/27/2015	Potassium	mg/l	6	6	0.0%
MU1-OZ11	5/27/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ11	5/27/2015	Sodium	mg/l	667	669	0.3%
MU1-OZ11	5/27/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ11	5/27/2015	Anion Sum	meq/L	27.51	27.29	0.8%
MU1-OZ11	5/27/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ11	5/27/2015	Cation Sum	meq/L	29.88	29.96	0.3%
MU1-OZ11	5/27/2015	Laboratory conductivity	umhos/cm	2660	2670	0.4%
MU1-OZ11	5/27/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ11	5/27/2015	Radon-222	pCi/l	16300	15400	5.7%
MU1-OZ11	5/27/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ11	5/27/2015	Total Anion/Cation Balance	%	4.14	4.66	11.8%
MU1-OZ11	5/27/2015	Total Dissolved Solids	mg/l	1860	1900	2.1%
MU1-OZ11	5/27/2015	Total Dissolved Solids (calc)	mg/l	1810	1800	0.6%
MU1-OZ11	5/27/2015	Uranium, dissolved	mg/l	0.0702	0.0784	11.0%
MU1-OZ11	5/27/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ11	5/27/2015	Gross Alpha	pCi/l	110	122	10.3%
MU1-OZ11	5/27/2015	Gross Beta	pCi/l	34.8	28.8	18.9%
MU1-OZ11	5/27/2015	Lead 210, dissolved	pCi/l	1.8	2.3	24.4%
MU1-OZ11	5/27/2015	Lead 210, suspended	pCi/l	3.2	2.9	9.8%
MU1-OZ11	5/27/2015	Polonium 210, dissolved	pCi/l	19.7	18.9	4.1%
MU1-OZ11	5/27/2015	Polonium 210, suspended	pCi/l	5	2.1	81.7%
MU1-OZ11	5/27/2015	Ra-226, dissolved	pCi/l	6.9	6.5	6.0%
MU1-OZ11	5/27/2015	Ra-226, suspended	pCi/l	<0.2	0.2	66.7%
MU1-OZ11	5/27/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ11	5/27/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ11	5/27/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ11	5/27/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ13	6/1/2015	Alkalinity (as CaCO3)	mg/l	520	515	1.0%
MU1-OZ13	6/1/2015	Ammonia	mg/l	0.5	0.7	33.3%
MU1-OZ13	6/1/2015	Bicarbonate	mg/l	561	555	1.1%
MU1-OZ13	6/1/2015	Carbonate	mg/l	36	36	0.0%
MU1-OZ13	6/1/2015	Chloride	mg/l	12	12	0.0%
MU1-OZ13	6/1/2015	Fluoride	mg/l	0.2	0.2	0.0%
MU1-OZ13	6/1/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ13	6/1/2015	Sulfate	mg/l	1150	1060	8.1%
MU1-OZ13	6/1/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ13	6/1/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ13	6/1/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ13	6/1/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ13	6/1/2015	Calcium	mg/l	8	8	0.0%
MU1-OZ13	6/1/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ13	6/1/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ13	6/1/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ13	6/1/2015	Iron, total	mg/l	0.29	0.69	81.6%
MU1-OZ13	6/1/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ13	6/1/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ13	6/1/2015	Manganese, total	mg/l	<0.02	0.03	100.0%
MU1-OZ13	6/1/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ13	6/1/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ13	6/1/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ13	6/1/2015	Potassium	mg/l	12	12	0.0%
MU1-OZ13	6/1/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ13	6/1/2015	Sodium	mg/l	789	786	0.4%
MU1-OZ13	6/1/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ13	6/1/2015	Anion Sum	meq/L	34.67	32.67	5.9%
MU1-OZ13	6/1/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ13	6/1/2015	Cation Sum	meq/L	35.31	35.19	0.3%
MU1-OZ13	6/1/2015	Laboratory conductivity	umhos/cm	3200	3190	0.3%
MU1-OZ13	6/1/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ13	6/1/2015	Radon-222	pCi/l	37000	38100	2.9%
MU1-OZ13	6/1/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ13	6/1/2015	Total Anion/Cation Balance	%	0.9	3.72	122.1%
MU1-OZ13	6/1/2015	Total Dissolved Solids	mg/l	2330	2320	0.4%
MU1-OZ13	6/1/2015	Total Dissolved Solids (calc)	mg/l	2290	2190	4.5%
MU1-OZ13	6/1/2015	Uranium, dissolved	mg/l	0.0536	0.0561	4.6%
MU1-OZ13	6/1/2015	Vanadium, dissolved	mg/l	0.02	0.02	0.0%
MU1-OZ13	6/1/2015	Gross Alpha	pCi/l	142	172	19.1%
MU1-OZ13	6/1/2015	Gross Beta	pCi/l	77.7	95.1	20.1%
MU1-OZ13	6/1/2015	Lead 210, dissolved	pCi/l	6.8	9.8	36.1%
MU1-OZ13	6/1/2015	Lead 210, suspended	pCi/l	2.9	2.3	23.1%
MU1-OZ13	6/1/2015	Polonium 210, dissolved	pCi/l	3.6	1.4	88.0%
MU1-OZ13	6/1/2015	Polonium 210, suspended	pCi/l	1.1	<1	75.0%
MU1-OZ13	6/1/2015	Ra-226, dissolved	pCi/l	37.2	42.4	13.1%
MU1-OZ13	6/1/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ13	6/1/2015	Ra-228, Dissolved	pCi/l	1.1	<1	75.0%
MU1-OZ13	6/1/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ13	6/1/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ13	6/1/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ14	5/29/2015	Alkalinity (as CaCO3)	mg/l	538	543	0.9%
MU1-OZ14	5/29/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ14	5/29/2015	Bicarbonate	mg/l	583	584	0.2%
MU1-OZ14	5/29/2015	Carbonate	mg/l	36	39	8.0%
MU1-OZ14	5/29/2015	Chloride	mg/l	5	5	0.0%
MU1-OZ14	5/29/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ14	5/29/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ14	5/29/2015	Sulfate	mg/l	558	563	0.9%
MU1-OZ14	5/29/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ14	5/29/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ14	5/29/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ14	5/29/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ14	5/29/2015	Calcium	mg/l	5	5	0.0%
MU1-OZ14	5/29/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ14	5/29/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ14	5/29/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ14	5/29/2015	Iron, total	mg/l	0.25	0.24	4.1%
MU1-OZ14	5/29/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ14	5/29/2015	Magnesium	mg/l	2	2	0.0%
MU1-OZ14	5/29/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ14	5/29/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ14	5/29/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ14	5/29/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ14	5/29/2015	Potassium	mg/l	6	6	0.0%
MU1-OZ14	5/29/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ14	5/29/2015	Sodium	mg/l	533	535	0.4%
MU1-OZ14	5/29/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ14	5/29/2015	Anion Sum	meq/L	22.53	22.72	0.8%
MU1-OZ14	5/29/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ14	5/29/2015	Cation Sum	meq/L	23.81	23.91	0.4%
MU1-OZ14	5/29/2015	Laboratory conductivity	umhos/cm	2170	2170	0.0%
MU1-OZ14	5/29/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ14	5/29/2015	Radon-222	pCi/l	12300	12800	4.0%
MU1-OZ14	5/29/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ14	5/29/2015	Total Anion/Cation Balance	%	2.75	2.54	7.9%
MU1-OZ14	5/29/2015	Total Dissolved Solids	mg/l	1490	1470	1.4%
MU1-OZ14	5/29/2015	Total Dissolved Solids (calc)	mg/l	1430	1440	0.7%
MU1-OZ14	5/29/2015	Uranium, dissolved	mg/l	0.0646	0.0641	0.8%
MU1-OZ14	5/29/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ14	5/29/2015	Gross Alpha	pCi/l	84.9	83	2.3%
MU1-OZ14	5/29/2015	Gross Beta	pCi/l	25.4	28.2	10.4%
MU1-OZ14	5/29/2015	Lead 210, dissolved	pCi/l	<1	1.1	75.0%
MU1-OZ14	5/29/2015	Lead 210, suspended	pCi/l	2.6	3	14.3%
MU1-OZ14	5/29/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-OZ14	5/29/2015	Polonium 210, suspended	pCi/l	1.2	1.7	34.5%
MU1-OZ14	5/29/2015	Ra-226, dissolved	pCi/l	4.8	4.1	15.7%
MU1-OZ14	5/29/2015	Ra-226, suspended	pCi/l	0.6	0.6	0.0%
MU1-OZ14	5/29/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ14	5/29/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ14	5/29/2015	Th-230, suspended	pCi/l	0.4	0.3	28.6%
MU1-OZ14	5/29/2015	Uranium, suspended	mg/l	0.0011	0.0013	16.7%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ15	5/28/2015	Alkalinity (as CaCO3)	mg/l	562	635	12.2%
MU1-OZ15	5/28/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ15	5/28/2015	Bicarbonate	mg/l	620	692	11.0%
MU1-OZ15	5/28/2015	Carbonate	mg/l	32	41	24.7%
MU1-OZ15	5/28/2015	Chloride	mg/l	6	7	15.4%
MU1-OZ15	5/28/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ15	5/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ15	5/28/2015	Sulfate	mg/l	716	757	5.6%
MU1-OZ15	5/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ15	5/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ15	5/28/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ15	5/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ15	5/28/2015	Calcium	mg/l	8	7	13.3%
MU1-OZ15	5/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ15	5/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ15	5/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ15	5/28/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ15	5/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ15	5/28/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ15	5/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ15	5/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ15	5/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ15	5/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ15	5/28/2015	Potassium	mg/l	7	7	0.0%
MU1-OZ15	5/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ15	5/28/2015	Sodium	mg/l	643	646	0.5%
MU1-OZ15	5/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ15	5/28/2015	Anion Sum	meq/L	26.33	28.67	8.5%
MU1-OZ15	5/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ15	5/28/2015	Cation Sum	meq/L	28.8	28.89	0.3%
MU1-OZ15	5/28/2015	Laboratory conductivity	umhos/cm	2590	2580	0.4%
MU1-OZ15	5/28/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ15	5/28/2015	Radon-222	pCi/l	219000	230000	4.9%
MU1-OZ15	5/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ15	5/28/2015	Total Anion/Cation Balance	%	4.47	0.38	168.7%
MU1-OZ15	5/28/2015	Total Dissolved Solids	mg/l	1840	1850	0.5%
MU1-OZ15	5/28/2015	Total Dissolved Solids (calc)	mg/l	1720	1810	5.1%
MU1-OZ15	5/28/2015	Uranium, dissolved	mg/l	0.144	0.145	0.7%
MU1-OZ15	5/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ15	5/28/2015	Gross Alpha	pCi/l	617	606	1.8%
MU1-OZ15	5/28/2015	Gross Beta	pCi/l	243	223	8.6%
MU1-OZ15	5/28/2015	Lead 210, dissolved	pCi/l	27	26.6	1.5%
MU1-OZ15	5/28/2015	Lead 210, suspended	pCi/l	4.3	4	7.2%
MU1-OZ15	5/28/2015	Polonium 210, dissolved	pCi/l	29.8	28	6.2%
MU1-OZ15	5/28/2015	Polonium 210, suspended	pCi/l	8.4	4.3	64.6%
MU1-OZ15	5/28/2015	Ra-226, dissolved	pCi/l	215	213	0.9%
MU1-OZ15	5/28/2015	Ra-226, suspended	pCi/l	0.5	0.3	50.0%
MU1-OZ15	5/28/2015	Ra-228, Dissolved	pCi/l	<1	1.9	116.7%
MU1-OZ15	5/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ15	5/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ15	5/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ16	5/13/2015	Alkalinity (as CaCO3)	mg/l	485	487	0.4%
MU1-OZ16	5/13/2015	Ammonia	mg/l	0.3	0.5	50.0%
MU1-OZ16	5/13/2015	Bicarbonate	mg/l	425	426	0.2%
MU1-OZ16	5/13/2015	Carbonate	mg/l	82	83	1.2%
MU1-OZ16	5/13/2015	Chloride	mg/l	6	6	0.0%
MU1-OZ16	5/13/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ16	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ16	5/13/2015	Sulfate	mg/l	661	651	1.5%
MU1-OZ16	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ16	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ16	5/13/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ16	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ16	5/13/2015	Calcium	mg/l	4	4	0.0%
MU1-OZ16	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ16	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ16	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ16	5/13/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ16	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ16	5/13/2015	Magnesium	mg/l	1	1	0.0%
MU1-OZ16	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ16	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ16	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ16	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ16	5/13/2015	Potassium	mg/l	7	7	0.0%
MU1-OZ16	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ16	5/13/2015	Sodium	mg/l	545	551	1.1%
MU1-OZ16	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ16	5/13/2015	Anion Sum	meq/L	23.65	23.48	0.7%
MU1-OZ16	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ16	5/13/2015	Cation Sum	meq/L	24.21	24.45	1.0%
MU1-OZ16	5/13/2015	Laboratory conductivity	umhos/cm	2240	2250	0.4%
MU1-OZ16	5/13/2015	Laboratory pH	s.u.	9.2	9.2	0.0%
MU1-OZ16	5/13/2015	Radon-222	pCi/l	33000	34300	3.9%
MU1-OZ16	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ16	5/13/2015	Total Anion/Cation Balance	%	1.15	2.02	54.9%
MU1-OZ16	5/13/2015	Total Dissolved Solids	mg/l	1460	1450	0.7%
MU1-OZ16	5/13/2015	Total Dissolved Solids (calc)	mg/l	1520	1510	0.7%
MU1-OZ16	5/13/2015	Uranium, dissolved	mg/l	0.136	0.137	0.7%
MU1-OZ16	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ16	5/13/2015	Gross Alpha	pCi/l	171	145	16.5%
MU1-OZ16	5/13/2015	Gross Beta	pCi/l	36.7	42.9	15.6%
MU1-OZ16	5/13/2015	Lead 210, dissolved	pCi/l	7.7	7.8	1.3%
MU1-OZ16	5/13/2015	Lead 210, suspended	pCi/l	2.2	2.4	8.7%
MU1-OZ16	5/13/2015	Polonium 210, dissolved	pCi/l	3.4	3.8	11.1%
MU1-OZ16	5/13/2015	Polonium 210, suspended	pCi/l	5.8	5.7	1.7%
MU1-OZ16	5/13/2015	Ra-226, dissolved	pCi/l	6.4	6.2	3.2%
MU1-OZ16	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ16	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ16	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ16	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ16	5/13/2015	Uranium, suspended	mg/l	<0.0003	0.0009	142.9%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ17	5/29/2015	Alkalinity (as CaCO3)	mg/l	578	560	3.2%
MU1-OZ17	5/29/2015	Ammonia	mg/l	0.4	0.5	22.2%
MU1-OZ17	5/29/2015	Bicarbonate	mg/l	641	617	3.8%
MU1-OZ17	5/29/2015	Carbonate	mg/l	32	33	3.1%
MU1-OZ17	5/29/2015	Chloride	mg/l	6	5	18.2%
MU1-OZ17	5/29/2015	Fluoride	mg/l	0.2	0.2	0.0%
MU1-OZ17	5/29/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ17	5/29/2015	Sulfate	mg/l	625	638	2.1%
MU1-OZ17	5/29/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ17	5/29/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ17	5/29/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ17	5/29/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ17	5/29/2015	Calcium	mg/l	6	5	18.2%
MU1-OZ17	5/29/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ17	5/29/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ17	5/29/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ17	5/29/2015	Iron, total	mg/l	0.05	<0.05	66.7%
MU1-OZ17	5/29/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ17	5/29/2015	Magnesium	mg/l	2	2	0.0%
MU1-OZ17	5/29/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ17	5/29/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ17	5/29/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ17	5/29/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ17	5/29/2015	Potassium	mg/l	6	6	0.0%
MU1-OZ17	5/29/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ17	5/29/2015	Sodium	mg/l	548	544	0.7%
MU1-OZ17	5/29/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ17	5/29/2015	Anion Sum	meq/L	24.8	24.64	0.6%
MU1-OZ17	5/29/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ17	5/29/2015	Cation Sum	meq/L	24.48	24.33	0.6%
MU1-OZ17	5/29/2015	Laboratory conductivity	umhos/cm	2320	2310	0.4%
MU1-OZ17	5/29/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-OZ17	5/29/2015	Radon-222	pCi/l	114000	112000	1.8%
MU1-OZ17	5/29/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ17	5/29/2015	Total Anion/Cation Balance	%	0.64	0.64	0.0%
MU1-OZ17	5/29/2015	Total Dissolved Solids	mg/l	1570	1590	1.3%
MU1-OZ17	5/29/2015	Total Dissolved Solids (calc)	mg/l	1540	1540	0.0%
MU1-OZ17	5/29/2015	Uranium, dissolved	mg/l	0.194	0.198	2.0%
MU1-OZ17	5/29/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ17	5/29/2015	Gross Alpha	pCi/l	424	423	0.2%
MU1-OZ17	5/29/2015	Gross Beta	pCi/l	152	161	5.8%
MU1-OZ17	5/29/2015	Lead 210, dissolved	pCi/l	1.3	8.8	148.5%
MU1-OZ17	5/29/2015	Lead 210, suspended	pCi/l	13.5	13.6	0.7%
MU1-OZ17	5/29/2015	Polonium 210, dissolved	pCi/l	15.5	21	30.1%
MU1-OZ17	5/29/2015	Polonium 210, suspended	pCi/l	18.5	25.8	33.0%
MU1-OZ17	5/29/2015	Ra-226, dissolved	pCi/l	63.4	61.1	3.7%
MU1-OZ17	5/29/2015	Ra-226, suspended	pCi/l	1.1	1.1	0.0%
MU1-OZ17	5/29/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ17	5/29/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ17	5/29/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ17	5/29/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ19	5/29/2015	Alkalinity (as CaCO3)	mg/l	541	523	3.4%
MU1-OZ19	5/29/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ19	5/29/2015	Bicarbonate	mg/l	560	534	4.8%
MU1-OZ19	5/29/2015	Carbonate	mg/l	49	51	4.0%
MU1-OZ19	5/29/2015	Chloride	mg/l	11	11	0.0%
MU1-OZ19	5/29/2015	Fluoride	mg/l	0.2	0.2	0.0%
MU1-OZ19	5/29/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ19	5/29/2015	Sulfate	mg/l	739	733	0.8%
MU1-OZ19	5/29/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ19	5/29/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ19	5/29/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ19	5/29/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ19	5/29/2015	Calcium	mg/l	5	5	0.0%
MU1-OZ19	5/29/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ19	5/29/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ19	5/29/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ19	5/29/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ19	5/29/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ19	5/29/2015	Magnesium	mg/l	2	2	0.0%
MU1-OZ19	5/29/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ19	5/29/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ19	5/29/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ19	5/29/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ19	5/29/2015	Potassium	mg/l	15	15	0.0%
MU1-OZ19	5/29/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ19	5/29/2015	Sodium	mg/l	605	612	1.2%
MU1-OZ19	5/29/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ19	5/29/2015	Anion Sum	meq/L	26.52	26.04	1.8%
MU1-OZ19	5/29/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ19	5/29/2015	Cation Sum	meq/L	27.12	27.42	1.1%
MU1-OZ19	5/29/2015	Laboratory conductivity	umhos/cm	2610	2600	0.4%
MU1-OZ19	5/29/2015	Laboratory pH	s.u.	8.9	9	1.1%
MU1-OZ19	5/29/2015	Radon-222	pCi/l	2480	2490	0.4%
MU1-OZ19	5/29/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ19	5/29/2015	Total Anion/Cation Balance	%	1.12	2.57	78.6%
MU1-OZ19	5/29/2015	Total Dissolved Solids	mg/l	1780	1780	0.0%
MU1-OZ19	5/29/2015	Total Dissolved Solids (calc)	mg/l	1700	1690	0.6%
MU1-OZ19	5/29/2015	Uranium, dissolved	mg/l	0.0021	0.0022	4.7%
MU1-OZ19	5/29/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ19	5/29/2015	Gross Alpha	pCi/l	3.6	4.6	24.4%
MU1-OZ19	5/29/2015	Gross Beta	pCi/l	9.4	4.6	68.6%
MU1-OZ19	5/29/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-OZ19	5/29/2015	Lead 210, suspended	pCi/l	1.2	1.1	8.7%
MU1-OZ19	5/29/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-OZ19	5/29/2015	Polonium 210, suspended	pCi/l	1.4	<1	94.7%
MU1-OZ19	5/29/2015	Ra-226, dissolved	pCi/l	0.6	0.7	15.4%
MU1-OZ19	5/29/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ19	5/29/2015	Ra-228, Dissolved	pCi/l	1.8	<1	113.0%
MU1-OZ19	5/29/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ19	5/29/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ19	5/29/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ20	5/27/2015	Alkalinity (as CaCO3)	mg/l	541	539	0.4%
MU1-OZ20	5/27/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-OZ20	5/27/2015	Bicarbonate	mg/l	599	594	0.8%
MU1-OZ20	5/27/2015	Carbonate	mg/l	30	31	3.3%
MU1-OZ20	5/27/2015	Chloride	mg/l	7	6	15.4%
MU1-OZ20	5/27/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ20	5/27/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ20	5/27/2015	Sulfate	mg/l	643	628	2.4%
MU1-OZ20	5/27/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ20	5/27/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ20	5/27/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ20	5/27/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ20	5/27/2015	Calcium	mg/l	7	6	15.4%
MU1-OZ20	5/27/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ20	5/27/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ20	5/27/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ20	5/27/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ20	5/27/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ20	5/27/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ20	5/27/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ20	5/27/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ20	5/27/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ20	5/27/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ20	5/27/2015	Potassium	mg/l	7	7	0.0%
MU1-OZ20	5/27/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ20	5/27/2015	Sodium	mg/l	560	555	0.9%
MU1-OZ20	5/27/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ20	5/27/2015	Anion Sum	meq/L	24.41	24.02	1.6%
MU1-OZ20	5/27/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ20	5/27/2015	Cation Sum	meq/L	25.09	24.9	0.8%
MU1-OZ20	5/27/2015	Laboratory conductivity	umhos/cm	2310	2300	0.4%
MU1-OZ20	5/27/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-OZ20	5/27/2015	Radon-222	pCi/l	16000	16200	1.2%
MU1-OZ20	5/27/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ20	5/27/2015	Total Anion/Cation Balance	%	1.37	1.8	27.1%
MU1-OZ20	5/27/2015	Total Dissolved Solids	mg/l	1610	1610	0.0%
MU1-OZ20	5/27/2015	Total Dissolved Solids (calc)	mg/l	1550	1530	1.3%
MU1-OZ20	5/27/2015	Uranium, dissolved	mg/l	0.0291	0.0253	14.0%
MU1-OZ20	5/27/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ20	5/27/2015	Gross Alpha	pCi/l	38.5	39.2	1.8%
MU1-OZ20	5/27/2015	Gross Beta	pCi/l	17.5	13.5	25.8%
MU1-OZ20	5/27/2015	Lead 210, dissolved	pCi/l	3.2	3.9	19.7%
MU1-OZ20	5/27/2015	Lead 210, suspended	pCi/l	1.1	<1	75.0%
MU1-OZ20	5/27/2015	Polonium 210, dissolved	pCi/l	6.1	4.6	28.0%
MU1-OZ20	5/27/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-OZ20	5/27/2015	Ra-226, dissolved	pCi/l	1.8	1.8	0.0%
MU1-OZ20	5/27/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ20	5/27/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ20	5/27/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ20	5/27/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ20	5/27/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ21	5/28/2015	Alkalinity (as CaCO3)	mg/l	569	558	2.0%
MU1-OZ21	5/28/2015	Ammonia	mg/l	0.4	0.5	22.2%
MU1-OZ21	5/28/2015	Bicarbonate	mg/l	630	608	3.6%
MU1-OZ21	5/28/2015	Carbonate	mg/l	31	36	14.9%
MU1-OZ21	5/28/2015	Chloride	mg/l	6	6	0.0%
MU1-OZ21	5/28/2015	Fluoride	mg/l	0.2	0.2	0.0%
MU1-OZ21	5/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ21	5/28/2015	Sulfate	mg/l	661	689	4.1%
MU1-OZ21	5/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ21	5/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ21	5/28/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ21	5/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ21	5/28/2015	Calcium	mg/l	8	8	0.0%
MU1-OZ21	5/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ21	5/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ21	5/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ21	5/28/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ21	5/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ21	5/28/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ21	5/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ21	5/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ21	5/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ21	5/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ21	5/28/2015	Potassium	mg/l	8	8	0.0%
MU1-OZ21	5/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ21	5/28/2015	Sodium	mg/l	621	621	0.0%
MU1-OZ21	5/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ21	5/28/2015	Anion Sum	meq/L	25.3	25.7	1.6%
MU1-OZ21	5/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ21	5/28/2015	Cation Sum	meq/L	27.9	27.89	0.0%
MU1-OZ21	5/28/2015	Laboratory conductivity	umhos/cm	2450	2480	1.2%
MU1-OZ21	5/28/2015	Laboratory pH	s.u.	8.7	8.8	1.1%
MU1-OZ21	5/28/2015	Radon-222	pCi/l	183000	193000	5.3%
MU1-OZ21	5/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ21	5/28/2015	Total Anion/Cation Balance	%	4.88	4.07	18.1%
MU1-OZ21	5/28/2015	Total Dissolved Solids	mg/l	1720	1760	2.3%
MU1-OZ21	5/28/2015	Total Dissolved Solids (calc)	mg/l	1650	1670	1.2%
MU1-OZ21	5/28/2015	Uranium, dissolved	mg/l	0.06	0.0569	5.3%
MU1-OZ21	5/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ21	5/28/2015	Gross Alpha	pCi/l	199	192	3.6%
MU1-OZ21	5/28/2015	Gross Beta	pCi/l	79.7	75	6.1%
MU1-OZ21	5/28/2015	Lead 210, dissolved	pCi/l	19.4	19.5	0.5%
MU1-OZ21	5/28/2015	Lead 210, suspended	pCi/l	3.8	3.1	20.3%
MU1-OZ21	5/28/2015	Polonium 210, dissolved	pCi/l	54.3	56.2	3.4%
MU1-OZ21	5/28/2015	Polonium 210, suspended	pCi/l	8.3	9.5	13.5%
MU1-OZ21	5/28/2015	Ra-226, dissolved	pCi/l	27.2	27.1	0.4%
MU1-OZ21	5/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ21	5/28/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ21	5/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ21	5/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ21	5/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ22	4/23/2015	Alkalinity (as CaCO3)	mg/l	552	547	0.9%
MU1-OZ22	4/23/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-OZ22	4/23/2015	Bicarbonate	mg/l	602	602	0.0%
MU1-OZ22	4/23/2015	Carbonate	mg/l	35	33	5.9%
MU1-OZ22	4/23/2015	Chloride	mg/l	4	4	0.0%
MU1-OZ22	4/23/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ22	4/23/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ22	4/23/2015	Sulfate	mg/l	439	438	0.2%
MU1-OZ22	4/23/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ22	4/23/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ22	4/23/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ22	4/23/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ22	4/23/2015	Calcium	mg/l	5	5	0.0%
MU1-OZ22	4/23/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	4/23/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	4/23/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ22	4/23/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ22	4/23/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	4/23/2015	Magnesium	mg/l	2	2	0.0%
MU1-OZ22	4/23/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	4/23/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ22	4/23/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	4/23/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	4/23/2015	Potassium	mg/l	7	7	0.0%
MU1-OZ22	4/23/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ22	4/23/2015	Sodium	mg/l	458	455	0.7%
MU1-OZ22	4/23/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	4/23/2015	Anion Sum	meq/L	20.32	20.21	0.5%
MU1-OZ22	4/23/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ22	4/23/2015	Cation Sum	meq/L	20.55	20.43	0.6%
MU1-OZ22	4/23/2015	Laboratory conductivity	umhos/cm	1990	2000	0.5%
MU1-OZ22	4/23/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ22	4/23/2015	Radon-222	pCi/l	128000	129000	0.8%
MU1-OZ22	4/23/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ22	4/23/2015	Total Anion/Cation Balance	%	0.56	0.55	1.8%
MU1-OZ22	4/23/2015	Total Dissolved Solids	mg/l	1480	1600	7.8%
MU1-OZ22	4/23/2015	Total Dissolved Solids (calc)	mg/l	1250	1240	0.8%
MU1-OZ22	4/23/2015	Uranium, dissolved	mg/l	0.0794	0.0775	2.4%
MU1-OZ22	4/23/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	4/23/2015	Gross Alpha	pCi/l	205	249	19.4%
MU1-OZ22	4/23/2015	Gross Beta	pCi/l	90.6	94.6	4.3%
MU1-OZ22	4/23/2015	Lead 210, dissolved	pCi/l	15	15.5	3.3%
MU1-OZ22	4/23/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-OZ22	4/23/2015	Polonium 210, dissolved	pCi/l	22.5	13.4	50.7%
MU1-OZ22	4/23/2015	Polonium 210, suspended	pCi/l	1.9	<1	116.7%
MU1-OZ22	4/23/2015	Ra-226, dissolved	pCi/l	48.9	47.7	2.5%
MU1-OZ22	4/23/2015	Ra-226, suspended	pCi/l	0.2	0.3	40.0%
MU1-OZ22	4/23/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ22	4/23/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ22	4/23/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ22	4/23/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ22	6/1/2015	Alkalinity (as CaCO3)	mg/l	566	566	0.0%
MU1-OZ22	6/1/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-OZ22	6/1/2015	Bicarbonate	mg/l	633	627	1.0%
MU1-OZ22	6/1/2015	Carbonate	mg/l	28	31	10.2%
MU1-OZ22	6/1/2015	Chloride	mg/l	4	4	0.0%
MU1-OZ22	6/1/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ22	6/1/2015	Nitrate/Nitrite	mg/l	0.2	0.2	0.0%
MU1-OZ22	6/1/2015	Sulfate	mg/l	450	446	0.9%
MU1-OZ22	6/1/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ22	6/1/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ22	6/1/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ22	6/1/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ22	6/1/2015	Calcium	mg/l	5	5	0.0%
MU1-OZ22	6/1/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	6/1/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	6/1/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ22	6/1/2015	Iron, total	mg/l	0.05	0.05	0.0%
MU1-OZ22	6/1/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	6/1/2015	Magnesium	mg/l	2	2	0.0%
MU1-OZ22	6/1/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	6/1/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ22	6/1/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	6/1/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	6/1/2015	Potassium	mg/l	7	7	0.0%
MU1-OZ22	6/1/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ22	6/1/2015	Sodium	mg/l	486	482	0.8%
MU1-OZ22	6/1/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ22	6/1/2015	Anion Sum	meq/L	20.83	20.74	0.4%
MU1-OZ22	6/1/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ22	6/1/2015	Cation Sum	meq/L	21.79	21.63	0.7%
MU1-OZ22	6/1/2015	Laboratory conductivity	umhos/cm	1970	1970	0.0%
MU1-OZ22	6/1/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-OZ22	6/1/2015	Radon-222	pCi/l	102000	107000	4.8%
MU1-OZ22	6/1/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ22	6/1/2015	Total Anion/Cation Balance	%	2.25	2.09	7.4%
MU1-OZ22	6/1/2015	Total Dissolved Solids	mg/l	1350	1370	1.5%
MU1-OZ22	6/1/2015	Total Dissolved Solids (calc)	mg/l	1300	1290	0.8%
MU1-OZ22	6/1/2015	Uranium, dissolved	mg/l	0.0821	0.0783	4.7%
MU1-OZ22	6/1/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ22	6/1/2015	Gross Alpha	pCi/l	219	198	10.1%
MU1-OZ22	6/1/2015	Gross Beta	pCi/l	118	115	2.6%
MU1-OZ22	6/1/2015	Lead 210, dissolved	pCi/l	20.8	19.8	4.9%
MU1-OZ22	6/1/2015	Lead 210, suspended	pCi/l	7.7	5.5	33.3%
MU1-OZ22	6/1/2015	Polonium 210, dissolved	pCi/l	12.3	23.9	64.1%
MU1-OZ22	6/1/2015	Polonium 210, suspended	pCi/l	1.7	1.5	12.5%
MU1-OZ22	6/1/2015	Ra-226, dissolved	pCi/l	45.8	47.5	3.6%
MU1-OZ22	6/1/2015	Ra-226, suspended	pCi/l	0.5	0.3	50.0%
MU1-OZ22	6/1/2015	Ra-228, Dissolved	pCi/l	<1	1.5	100.0%
MU1-OZ22	6/1/2015	Th-230, dissolved	pCi/l	0.4	<0.2	120.0%
MU1-OZ22	6/1/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ22	6/1/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ23	5/14/2015	Alkalinity (as CaCO3)	mg/l	563	565	0.4%
MU1-OZ23	5/14/2015	Ammonia	mg/l	0.6	0.5	18.2%
MU1-OZ23	5/14/2015	Bicarbonate	mg/l	610	618	1.3%
MU1-OZ23	5/14/2015	Carbonate	mg/l	37	35	5.6%
MU1-OZ23	5/14/2015	Chloride	mg/l	6	7	15.4%
MU1-OZ23	5/14/2015	Fluoride	mg/l	0.2	0.2	0.0%
MU1-OZ23	5/14/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ23	5/14/2015	Sulfate	mg/l	619	609	1.6%
MU1-OZ23	5/14/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ23	5/14/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ23	5/14/2015	Boron, dissolved	mg/l	0.3	0.3	0.0%
MU1-OZ23	5/14/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ23	5/14/2015	Calcium	mg/l	8	8	0.0%
MU1-OZ23	5/14/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ23	5/14/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ23	5/14/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ23	5/14/2015	Iron, total	mg/l	0.11	0.12	8.7%
MU1-OZ23	5/14/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ23	5/14/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ23	5/14/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ23	5/14/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ23	5/14/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ23	5/14/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ23	5/14/2015	Potassium	mg/l	8	8	0.0%
MU1-OZ23	5/14/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ23	5/14/2015	Sodium	mg/l	580	579	0.2%
MU1-OZ23	5/14/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ23	5/14/2015	Anion Sum	meq/L	24.33	24.18	0.6%
MU1-OZ23	5/14/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ23	5/14/2015	Cation Sum	meq/L	26.14	26.08	0.2%
MU1-OZ23	5/14/2015	Laboratory conductivity	umhos/cm	2460	2460	0.0%
MU1-OZ23	5/14/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ23	5/14/2015	Radon-222	pCi/l	1200	1150	4.3%
MU1-OZ23	5/14/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ23	5/14/2015	Total Anion/Cation Balance	%	3.57	3.77	5.4%
MU1-OZ23	5/14/2015	Total Dissolved Solids	mg/l	1560	1560	0.0%
MU1-OZ23	5/14/2015	Total Dissolved Solids (calc)	mg/l	1560	1550	0.6%
MU1-OZ23	5/14/2015	Uranium, dissolved	mg/l	0.0017	0.0016	6.1%
MU1-OZ23	5/14/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ23	5/14/2015	Gross Alpha	pCi/l	<2	2.6	88.9%
MU1-OZ23	5/14/2015	Gross Beta	pCi/l	5.4	6.3	15.4%
MU1-OZ23	5/14/2015	Lead 210, dissolved	pCi/l	<1	2.3	128.6%
MU1-OZ23	5/14/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-OZ23	5/14/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-OZ23	5/14/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-OZ23	5/14/2015	Ra-226, dissolved	pCi/l	0.3	0.4	28.6%
MU1-OZ23	5/14/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ23	5/14/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-OZ23	5/14/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ23	5/14/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ23	5/14/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-OZ26	5/13/2015	Alkalinity (as CaCO3)	mg/l	546	565	3.4%
MU1-OZ26	5/13/2015	Ammonia	mg/l	0.5	0.5	0.0%
MU1-OZ26	5/13/2015	Bicarbonate	mg/l	598	621	3.8%
MU1-OZ26	5/13/2015	Carbonate	mg/l	34	33	3.0%
MU1-OZ26	5/13/2015	Chloride	mg/l	7	6	15.4%
MU1-OZ26	5/13/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-OZ26	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-OZ26	5/13/2015	Sulfate	mg/l	610	602	1.3%
MU1-OZ26	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-OZ26	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-OZ26	5/13/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-OZ26	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-OZ26	5/13/2015	Calcium	mg/l	6	5	18.2%
MU1-OZ26	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ26	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ26	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-OZ26	5/13/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-OZ26	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ26	5/13/2015	Magnesium	mg/l	3	3	0.0%
MU1-OZ26	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-OZ26	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-OZ26	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ26	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ26	5/13/2015	Potassium	mg/l	7	7	0.0%
MU1-OZ26	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-OZ26	5/13/2015	Sodium	mg/l	580	577	0.5%
MU1-OZ26	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-OZ26	5/13/2015	Anion Sum	meq/L	23.82	23.99	0.7%
MU1-OZ26	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ26	5/13/2015	Cation Sum	meq/L	25.93	25.82	0.4%
MU1-OZ26	5/13/2015	Laboratory conductivity	umhos/cm	2470	2470	0.0%
MU1-OZ26	5/13/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-OZ26	5/13/2015	Radon-222	pCi/l	23900	24500	2.5%
MU1-OZ26	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-OZ26	5/13/2015	Total Anion/Cation Balance	%	4.23	3.65	14.7%
MU1-OZ26	5/13/2015	Total Dissolved Solids	mg/l	1550	1560	0.6%
MU1-OZ26	5/13/2015	Total Dissolved Solids (calc)	mg/l	1540	1540	0.0%
MU1-OZ26	5/13/2015	Uranium, dissolved	mg/l	0.0497	0.0579	15.2%
MU1-OZ26	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-OZ26	5/13/2015	Gross Alpha	pCi/l	69.1	76.4	10.0%
MU1-OZ26	5/13/2015	Gross Beta	pCi/l	30.4	29.5	3.0%
MU1-OZ26	5/13/2015	Lead 210, dissolved	pCi/l	7.4	5.2	34.9%
MU1-OZ26	5/13/2015	Lead 210, suspended	pCi/l	2.7	2.7	0.0%
MU1-OZ26	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-OZ26	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-OZ26	5/13/2015	Ra-226, dissolved	pCi/l	11.5	10.5	9.1%
MU1-OZ26	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ26	5/13/2015	Ra-228, Dissolved	pCi/l	2	<1	120.0%
MU1-OZ26	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-OZ26	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-OZ26	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM1	4/28/2015	Alkalinity (as CaCO3)	mg/l	603	605	0.3%
MU1-PM1	4/28/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-PM1	4/28/2015	Bicarbonate	mg/l	640	641	0.2%
MU1-PM1	4/28/2015	Carbonate	mg/l	48	48	0.0%
MU1-PM1	4/28/2015	Chloride	mg/l	7	7	0.0%
MU1-PM1	4/28/2015	Fluoride	mg/l	1	0.9	10.5%
MU1-PM1	4/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM1	4/28/2015	Sulfate	mg/l	608	612	0.7%
MU1-PM1	4/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM1	4/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM1	4/28/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM1	4/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM1	4/28/2015	Calcium	mg/l	7	8	13.3%
MU1-PM1	4/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM1	4/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM1	4/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM1	4/28/2015	Iron, total	mg/l	0.19	0.2	5.1%
MU1-PM1	4/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM1	4/28/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM1	4/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM1	4/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM1	4/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM1	4/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM1	4/28/2015	Potassium	mg/l	9	9	0.0%
MU1-PM1	4/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM1	4/28/2015	Sodium	mg/l	564	567	0.5%
MU1-PM1	4/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM1	4/28/2015	Anion Sum	meq/L	24.98	25.11	0.5%
MU1-PM1	4/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM1	4/28/2015	Cation Sum	meq/L	25.38	25.52	0.6%
MU1-PM1	4/28/2015	Laboratory conductivity	umhos/cm	2280	2310	1.3%
MU1-PM1	4/28/2015	Laboratory pH	s.u.	8.9	8.9	0.0%
MU1-PM1	4/28/2015	Radon-222	pCi/l	3360	3280	2.4%
MU1-PM1	4/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM1	4/28/2015	Total Anion/Cation Balance	%	0.8	0.8	0.0%
MU1-PM1	4/28/2015	Total Dissolved Solids	mg/l	1600	1580	1.3%
MU1-PM1	4/28/2015	Total Dissolved Solids (calc)	mg/l	1560	1570	0.6%
MU1-PM1	4/28/2015	Uranium, dissolved	mg/l	0.0073	0.0075	2.7%
MU1-PM1	4/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM1	4/28/2015	Gross Alpha	pCi/l	14.6	19.8	30.2%
MU1-PM1	4/28/2015	Gross Beta	pCi/l	9.8	21.8	75.9%
MU1-PM1	4/28/2015	Lead 210, dissolved	pCi/l	1.1	<1	75.0%
MU1-PM1	4/28/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM1	4/28/2015	Polonium 210, dissolved	pCi/l	1	1	0.0%
MU1-PM1	4/28/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM1	4/28/2015	Ra-226, dissolved	pCi/l	1.2	1.5	22.2%
MU1-PM1	4/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM1	4/28/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM1	4/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM1	4/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM1	4/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM2	5/28/2015	Alkalinity (as CaCO3)	mg/l	556	580	4.2%
MU1-PM2	5/28/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-PM2	5/28/2015	Bicarbonate	mg/l	604	634	4.8%
MU1-PM2	5/28/2015	Carbonate	mg/l	36	36	0.0%
MU1-PM2	5/28/2015	Chloride	mg/l	6	6	0.0%
MU1-PM2	5/28/2015	Fluoride	mg/l	0.8	0.8	0.0%
MU1-PM2	5/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM2	5/28/2015	Sulfate	mg/l	628	623	0.8%
MU1-PM2	5/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM2	5/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM2	5/28/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM2	5/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM2	5/28/2015	Calcium	mg/l	7	7	0.0%
MU1-PM2	5/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM2	5/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM2	5/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM2	5/28/2015	Iron, total	mg/l	0.07	0.08	13.3%
MU1-PM2	5/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM2	5/28/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM2	5/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM2	5/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM2	5/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM2	5/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM2	5/28/2015	Potassium	mg/l	6	7	15.4%
MU1-PM2	5/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM2	5/28/2015	Sodium	mg/l	583	584	0.2%
MU1-PM2	5/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM2	5/28/2015	Anion Sum	meq/L	24.37	24.76	1.6%
MU1-PM2	5/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM2	5/28/2015	Cation Sum	meq/L	26.1	26.16	0.2%
MU1-PM2	5/28/2015	Laboratory conductivity	umhos/cm	2340	2350	0.4%
MU1-PM2	5/28/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-PM2	5/28/2015	Radon-222	pCi/l	1910	1840	3.7%
MU1-PM2	5/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM2	5/28/2015	Total Anion/Cation Balance	%	3.41	2.75	21.4%
MU1-PM2	5/28/2015	Total Dissolved Solids	mg/l	1640	1660	1.2%
MU1-PM2	5/28/2015	Total Dissolved Solids (calc)	mg/l	1570	1580	0.6%
MU1-PM2	5/28/2015	Uranium, dissolved	mg/l	0.0226	0.0202	11.2%
MU1-PM2	5/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM2	5/28/2015	Gross Alpha	pCi/l	25.3	24.1	4.9%
MU1-PM2	5/28/2015	Gross Beta	pCi/l	7.4	12.9	54.2%
MU1-PM2	5/28/2015	Lead 210, dissolved	pCi/l	1.5	<1	100.0%
MU1-PM2	5/28/2015	Lead 210, suspended	pCi/l	<1	1	66.7%
MU1-PM2	5/28/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM2	5/28/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM2	5/28/2015	Ra-226, dissolved	pCi/l	1	0.9	10.5%
MU1-PM2	5/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM2	5/28/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM2	5/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM2	5/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM2	5/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM4	5/14/2015	Alkalinity (as CaCO3)	mg/l	634	611	3.7%
MU1-PM4	5/14/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-PM4	5/14/2015	Bicarbonate	mg/l	692	664	4.1%
MU1-PM4	5/14/2015	Carbonate	mg/l	40	40	0.0%
MU1-PM4	5/14/2015	Chloride	mg/l	6	6	0.0%
MU1-PM4	5/14/2015	Fluoride	mg/l	1.1	1.1	0.0%
MU1-PM4	5/14/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM4	5/14/2015	Sulfate	mg/l	527	521	1.1%
MU1-PM4	5/14/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM4	5/14/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM4	5/14/2015	Boron, dissolved	mg/l	0.6	0.6	0.0%
MU1-PM4	5/14/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM4	5/14/2015	Calcium	mg/l	7	7	0.0%
MU1-PM4	5/14/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM4	5/14/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM4	5/14/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM4	5/14/2015	Iron, total	mg/l	0.06	0.06	0.0%
MU1-PM4	5/14/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM4	5/14/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM4	5/14/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM4	5/14/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM4	5/14/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM4	5/14/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM4	5/14/2015	Potassium	mg/l	5	5	0.0%
MU1-PM4	5/14/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM4	5/14/2015	Sodium	mg/l	563	561	0.4%
MU1-PM4	5/14/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM4	5/14/2015	Anion Sum	meq/L	23.88	23.29	2.5%
MU1-PM4	5/14/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM4	5/14/2015	Cation Sum	meq/L	25.15	25.06	0.4%
MU1-PM4	5/14/2015	Laboratory conductivity	umhos/cm	2380	2370	0.4%
MU1-PM4	5/14/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-PM4	5/14/2015	Radon-222	pCi/l	1180	1060	10.7%
MU1-PM4	5/14/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM4	5/14/2015	Total Anion/Cation Balance	%	2.59	3.66	34.2%
MU1-PM4	5/14/2015	Total Dissolved Solids	mg/l	1450	1450	0.0%
MU1-PM4	5/14/2015	Total Dissolved Solids (calc)	mg/l	1490	1470	1.4%
MU1-PM4	5/14/2015	Uranium, dissolved	mg/l	0.004	0.0037	7.8%
MU1-PM4	5/14/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM4	5/14/2015	Gross Alpha	pCi/l	6.4	4	46.2%
MU1-PM4	5/14/2015	Gross Beta	pCi/l	12	<3	155.6%
MU1-PM4	5/14/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM4	5/14/2015	Lead 210, suspended	pCi/l	<1	1.2	82.4%
MU1-PM4	5/14/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM4	5/14/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM4	5/14/2015	Ra-226, dissolved	pCi/l	0.4	0.4	0.0%
MU1-PM4	5/14/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM4	5/14/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM4	5/14/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM4	5/14/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM4	5/14/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM9	5/13/2015	Alkalinity (as CaCO3)	mg/l	484	493	1.8%
MU1-PM9	5/13/2015	Ammonia	mg/l	0.6	0.6	0.0%
MU1-PM9	5/13/2015	Bicarbonate	mg/l	519	519	0.0%
MU1-PM9	5/13/2015	Carbonate	mg/l	35	41	15.8%
MU1-PM9	5/13/2015	Chloride	mg/l	11	11	0.0%
MU1-PM9	5/13/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-PM9	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM9	5/13/2015	Sulfate	mg/l	1070	1070	0.0%
MU1-PM9	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM9	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM9	5/13/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-PM9	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM9	5/13/2015	Calcium	mg/l	7	7	0.0%
MU1-PM9	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM9	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM9	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM9	5/13/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-PM9	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM9	5/13/2015	Magnesium	mg/l	4	4	0.0%
MU1-PM9	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM9	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM9	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM9	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM9	5/13/2015	Potassium	mg/l	10	10	0.0%
MU1-PM9	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM9	5/13/2015	Sodium	mg/l	785	802	2.1%
MU1-PM9	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM9	5/13/2015	Anion Sum	meq/L	32.18	32.52	1.1%
MU1-PM9	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM9	5/13/2015	Cation Sum	meq/L	35.13	35.88	2.1%
MU1-PM9	5/13/2015	Laboratory conductivity	umhos/cm	3130	3100	1.0%
MU1-PM9	5/13/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-PM9	5/13/2015	Radon-222	pCi/l	2060	2170	5.2%
MU1-PM9	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM9	5/13/2015	Total Anion/Cation Balance	%	4.38	4.9	11.2%
MU1-PM9	5/13/2015	Total Dissolved Solids	mg/l	2140	2130	0.5%
MU1-PM9	5/13/2015	Total Dissolved Solids (calc)	mg/l	2170	2200	1.4%
MU1-PM9	5/13/2015	Uranium, dissolved	mg/l	0.0194	0.0196	1.0%
MU1-PM9	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM9	5/13/2015	Gross Alpha	pCi/l	22.1	19.6	12.0%
MU1-PM9	5/13/2015	Gross Beta	pCi/l	11.7	13.6	15.0%
MU1-PM9	5/13/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM9	5/13/2015	Lead 210, suspended	pCi/l	1.8	<1	113.0%
MU1-PM9	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM9	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM9	5/13/2015	Ra-226, dissolved	pCi/l	1.1	1.3	16.7%
MU1-PM9	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM9	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM9	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM9	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM9	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM10	5/13/2015	Alkalinity (as CaCO3)	mg/l	655	633	3.4%
MU1-PM10	5/13/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-PM10	5/13/2015	Bicarbonate	mg/l	670	642	4.3%
MU1-PM10	5/13/2015	Carbonate	mg/l	64	64	0.0%
MU1-PM10	5/13/2015	Chloride	mg/l	5	5	0.0%
MU1-PM10	5/13/2015	Fluoride	mg/l	0.9	0.9	0.0%
MU1-PM10	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM10	5/13/2015	Sulfate	mg/l	472	473	0.2%
MU1-PM10	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM10	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM10	5/13/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM10	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM10	5/13/2015	Calcium	mg/l	4	4	0.0%
MU1-PM10	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM10	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM10	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM10	5/13/2015	Iron, total	mg/l	<0.05	<0.05	0.0%
MU1-PM10	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM10	5/13/2015	Magnesium	mg/l	2	2	0.0%
MU1-PM10	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM10	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM10	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM10	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM10	5/13/2015	Potassium	mg/l	7	7	0.0%
MU1-PM10	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM10	5/13/2015	Sodium	mg/l	529	534	0.9%
MU1-PM10	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM10	5/13/2015	Anion Sum	meq/L	23.1	22.69	1.8%
MU1-PM10	5/13/2015	Arsenic, dissolved	mg/l	0.013	0.013	0.0%
MU1-PM10	5/13/2015	Cation Sum	meq/L	23.62	23.83	0.9%
MU1-PM10	5/13/2015	Laboratory conductivity	umhos/cm	2280	2290	0.4%
MU1-PM10	5/13/2015	Laboratory pH	s.u.	9	9	0.0%
MU1-PM10	5/13/2015	Radon-222	pCi/l	1860	1930	3.7%
MU1-PM10	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM10	5/13/2015	Total Anion/Cation Balance	%	1.13	2.45	73.7%
MU1-PM10	5/13/2015	Total Dissolved Solids	mg/l	1390	1380	0.7%
MU1-PM10	5/13/2015	Total Dissolved Solids (calc)	mg/l	1410	1410	0.0%
MU1-PM10	5/13/2015	Uranium, dissolved	mg/l	0.006	0.0061	1.7%
MU1-PM10	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM10	5/13/2015	Gross Alpha	pCi/l	7	7	0.0%
MU1-PM10	5/13/2015	Gross Beta	pCi/l	8.8	7.5	16.0%
MU1-PM10	5/13/2015	Lead 210, dissolved	pCi/l	<1	1.4	94.7%
MU1-PM10	5/13/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM10	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM10	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM10	5/13/2015	Ra-226, dissolved	pCi/l	0.9	0.8	11.8%
MU1-PM10	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM10	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM10	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM10	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM10	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM11	5/29/2015	Alkalinity (as CaCO3)	mg/l	702	659	6.3%
MU1-PM11	5/29/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-PM11	5/29/2015	Bicarbonate	mg/l	773	726	6.3%
MU1-PM11	5/29/2015	Carbonate	mg/l	41	38	7.6%
MU1-PM11	5/29/2015	Chloride	mg/l	4	4	0.0%
MU1-PM11	5/29/2015	Fluoride	mg/l	0.8	0.9	11.8%
MU1-PM11	5/29/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM11	5/29/2015	Sulfate	mg/l	383	381	0.5%
MU1-PM11	5/29/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM11	5/29/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM11	5/29/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM11	5/29/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM11	5/29/2015	Calcium	mg/l	5	5	0.0%
MU1-PM11	5/29/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM11	5/29/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM11	5/29/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM11	5/29/2015	Iron, total	mg/l	0.13	0.13	0.0%
MU1-PM11	5/29/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM11	5/29/2015	Magnesium	mg/l	2	2	0.0%
MU1-PM11	5/29/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM11	5/29/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM11	5/29/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM11	5/29/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM11	5/29/2015	Potassium	mg/l	6	6	0.0%
MU1-PM11	5/29/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM11	5/29/2015	Sodium	mg/l	495	488	1.4%
MU1-PM11	5/29/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM11	5/29/2015	Anion Sum	meq/L	22.18	21.28	4.1%
MU1-PM11	5/29/2015	Arsenic, dissolved	mg/l	0.007	0.007	0.0%
MU1-PM11	5/29/2015	Cation Sum	meq/L	22.15	21.85	1.4%
MU1-PM11	5/29/2015	Laboratory conductivity	umhos/cm	2000	2000	0.0%
MU1-PM11	5/29/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-PM11	5/29/2015	Radon-222	pCi/l	2970	3520	16.9%
MU1-PM11	5/29/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM11	5/29/2015	Total Anion/Cation Balance	%	0.06	1.31	182.5%
MU1-PM11	5/29/2015	Total Dissolved Solids	mg/l	1340	1340	0.0%
MU1-PM11	5/29/2015	Total Dissolved Solids (calc)	mg/l	1320	1280	3.1%
MU1-PM11	5/29/2015	Uranium, dissolved	mg/l	0.0023	0.0023	0.0%
MU1-PM11	5/29/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM11	5/29/2015	Gross Alpha	pCi/l	10.4	8.4	21.3%
MU1-PM11	5/29/2015	Gross Beta	pCi/l	5.6	9.4	50.7%
MU1-PM11	5/29/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM11	5/29/2015	Lead 210, suspended	pCi/l	1.4	<1	94.7%
MU1-PM11	5/29/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM11	5/29/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM11	5/29/2015	Ra-226, dissolved	pCi/l	2	1.8	10.5%
MU1-PM11	5/29/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM11	5/29/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM11	5/29/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM11	5/29/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM11	5/29/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM12	5/13/2015	Alkalinity (as CaCO3)	mg/l	682	652	4.5%
MU1-PM12	5/13/2015	Ammonia	mg/l	0.3	<0.1	142.9%
MU1-PM12	5/13/2015	Bicarbonate	mg/l	753	708	6.2%
MU1-PM12	5/13/2015	Carbonate	mg/l	39	43	9.8%
MU1-PM12	5/13/2015	Chloride	mg/l	4	4	0.0%
MU1-PM12	5/13/2015	Fluoride	mg/l	0.6	0.6	0.0%
MU1-PM12	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM12	5/13/2015	Sulfate	mg/l	360	351	2.5%
MU1-PM12	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM12	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM12	5/13/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM12	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM12	5/13/2015	Calcium	mg/l	6	6	0.0%
MU1-PM12	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM12	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM12	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM12	5/13/2015	Iron, total	mg/l	0.06	0.06	0.0%
MU1-PM12	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM12	5/13/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM12	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM12	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM12	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM12	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM12	5/13/2015	Potassium	mg/l	6	6	0.0%
MU1-PM12	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM12	5/13/2015	Sodium	mg/l	480	485	1.0%
MU1-PM12	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM12	5/13/2015	Anion Sum	meq/L	21.27	20.5	3.7%
MU1-PM12	5/13/2015	Arsenic, dissolved	mg/l	0.006	0.006	0.0%
MU1-PM12	5/13/2015	Cation Sum	meq/L	21.53	21.71	0.8%
MU1-PM12	5/13/2015	Laboratory conductivity	umhos/cm	2040	2050	0.5%
MU1-PM12	5/13/2015	Laboratory pH	s.u.	8.8	8.8	0.0%
MU1-PM12	5/13/2015	Radon-222	pCi/l	679	662	2.5%
MU1-PM12	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM12	5/13/2015	Total Anion/Cation Balance	%	0.6	2.86	130.6%
MU1-PM12	5/13/2015	Total Dissolved Solids	mg/l	1220	1210	0.8%
MU1-PM12	5/13/2015	Total Dissolved Solids (calc)	mg/l	1270	1250	1.6%
MU1-PM12	5/13/2015	Uranium, dissolved	mg/l	0.0004	0.0004	0.0%
MU1-PM12	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM12	5/13/2015	Gross Alpha	pCi/l	<2	<2	0.0%
MU1-PM12	5/13/2015	Gross Beta	pCi/l	<3	<3	0.0%
MU1-PM12	5/13/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM12	5/13/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM12	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM12	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM12	5/13/2015	Ra-226, dissolved	pCi/l	0.5	0.5	0.0%
MU1-PM12	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM12	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM12	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM12	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM12	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM13	5/13/2015	Alkalinity (as CaCO3)	mg/l	681	681	0.0%
MU1-PM13	5/13/2015	Ammonia	mg/l	0.3	0.4	28.6%
MU1-PM13	5/13/2015	Bicarbonate	mg/l	750	752	0.3%
MU1-PM13	5/13/2015	Carbonate	mg/l	40	39	2.5%
MU1-PM13	5/13/2015	Chloride	mg/l	4	4	0.0%
MU1-PM13	5/13/2015	Fluoride	mg/l	0.9	0.8	11.8%
MU1-PM13	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM13	5/13/2015	Sulfate	mg/l	281	280	0.4%
MU1-PM13	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM13	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM13	5/13/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM13	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM13	5/13/2015	Calcium	mg/l	5	5	0.0%
MU1-PM13	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM13	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM13	5/13/2015	Iron, dissolved	mg/l	0.05	0.06	18.2%
MU1-PM13	5/13/2015	Iron, total	mg/l	0.11	0.11	0.0%
MU1-PM13	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM13	5/13/2015	Magnesium	mg/l	2	2	0.0%
MU1-PM13	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM13	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM13	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM13	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM13	5/13/2015	Potassium	mg/l	4	4	0.0%
MU1-PM13	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM13	5/13/2015	Sodium	mg/l	474	473	0.2%
MU1-PM13	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM13	5/13/2015	Anion Sum	meq/L	19.62	19.6	0.1%
MU1-PM13	5/13/2015	Arsenic, dissolved	mg/l	0.017	0.018	5.7%
MU1-PM13	5/13/2015	Cation Sum	meq/L	21.19	21.16	0.1%
MU1-PM13	5/13/2015	Laboratory conductivity	umhos/cm	1960	1950	0.5%
MU1-PM13	5/13/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-PM13	5/13/2015	Radon-222	pCi/l	1520	1380	9.7%
MU1-PM13	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM13	5/13/2015	Total Anion/Cation Balance	%	3.84	3.83	0.3%
MU1-PM13	5/13/2015	Total Dissolved Solids	mg/l	1180	1180	0.0%
MU1-PM13	5/13/2015	Total Dissolved Solids (calc)	mg/l	1180	1180	0.0%
MU1-PM13	5/13/2015	Uranium, dissolved	mg/l	0.0023	0.0024	4.3%
MU1-PM13	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM13	5/13/2015	Gross Alpha	pCi/l	5.4	4.1	27.4%
MU1-PM13	5/13/2015	Gross Beta	pCi/l	<3	<3	0.0%
MU1-PM13	5/13/2015	Lead 210, dissolved	pCi/l	1	2	66.7%
MU1-PM13	5/13/2015	Lead 210, suspended	pCi/l	2.3	2.2	4.4%
MU1-PM13	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM13	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM13	5/13/2015	Ra-226, dissolved	pCi/l	0.8	0.7	13.3%
MU1-PM13	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM13	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM13	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM13	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM13	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM15	5/13/2015	Alkalinity (as CaCO3)	mg/l	621	550	12.1%
MU1-PM15	5/13/2015	Ammonia	mg/l	0.9	0.8	11.8%
MU1-PM15	5/13/2015	Bicarbonate	mg/l	704	621	12.5%
MU1-PM15	5/13/2015	Carbonate	mg/l	26	25	3.9%
MU1-PM15	5/13/2015	Chloride	mg/l	7	7	0.0%
MU1-PM15	5/13/2015	Fluoride	mg/l	0.3	0.3	0.0%
MU1-PM15	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM15	5/13/2015	Sulfate	mg/l	549	552	0.5%
MU1-PM15	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM15	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM15	5/13/2015	Boron, dissolved	mg/l	0.4	0.4	0.0%
MU1-PM15	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM15	5/13/2015	Calcium	mg/l	21	21	0.0%
MU1-PM15	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM15	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM15	5/13/2015	Iron, dissolved	mg/l	0.2	0.2	0.0%
MU1-PM15	5/13/2015	Iron, total	mg/l	0.24	0.24	0.0%
MU1-PM15	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM15	5/13/2015	Magnesium	mg/l	12	12	0.0%
MU1-PM15	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM15	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM15	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM15	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM15	5/13/2015	Potassium	mg/l	9	9	0.0%
MU1-PM15	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM15	5/13/2015	Sodium	mg/l	517	518	0.2%
MU1-PM15	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM15	5/13/2015	Anion Sum	meq/L	24.05	22.71	5.7%
MU1-PM15	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM15	5/13/2015	Cation Sum	meq/L	24.77	24.83	0.2%
MU1-PM15	5/13/2015	Laboratory conductivity	umhos/cm	2300	2300	0.0%
MU1-PM15	5/13/2015	Laboratory pH	s.u.	8.6	8.6	0.0%
MU1-PM15	5/13/2015	Radon-222	pCi/l	14400	14500	0.7%
MU1-PM15	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM15	5/13/2015	Total Anion/Cation Balance	%	1.48	4.45	100.2%
MU1-PM15	5/13/2015	Total Dissolved Solids	mg/l	1460	1460	0.0%
MU1-PM15	5/13/2015	Total Dissolved Solids (calc)	mg/l	1490	1450	2.7%
MU1-PM15	5/13/2015	Uranium, dissolved	mg/l	0.035	0.0374	6.6%
MU1-PM15	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM15	5/13/2015	Gross Alpha	pCi/l	61.7	55.9	9.9%
MU1-PM15	5/13/2015	Gross Beta	pCi/l	17.2	24.1	33.4%
MU1-PM15	5/13/2015	Lead 210, dissolved	pCi/l	1.9	2	5.1%
MU1-PM15	5/13/2015	Lead 210, suspended	pCi/l	3.6	<1	151.2%
MU1-PM15	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM15	5/13/2015	Polonium 210, suspended	pCi/l	1.2	1.3	8.0%
MU1-PM15	5/13/2015	Ra-226, dissolved	pCi/l	5.2	4.8	8.0%
MU1-PM15	5/13/2015	Ra-226, suspended	pCi/l	0.2	0.2	0.0%
MU1-PM15	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM15	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM15	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM15	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM17	5/13/2015	Alkalinity (as CaCO3)	mg/l	684	676	1.2%
MU1-PM17	5/13/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-PM17	5/13/2015	Bicarbonate	mg/l	757	748	1.2%
MU1-PM17	5/13/2015	Carbonate	mg/l	38	38	0.0%
MU1-PM17	5/13/2015	Chloride	mg/l	5	5	0.0%
MU1-PM17	5/13/2015	Fluoride	mg/l	1	1	0.0%
MU1-PM17	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM17	5/13/2015	Sulfate	mg/l	417	416	0.2%
MU1-PM17	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM17	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM17	5/13/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM17	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM17	5/13/2015	Calcium	mg/l	7	7	0.0%
MU1-PM17	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM17	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM17	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM17	5/13/2015	Iron, total	mg/l	0.07	0.07	0.0%
MU1-PM17	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM17	5/13/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM17	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM17	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM17	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM17	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM17	5/13/2015	Potassium	mg/l	6	6	0.0%
MU1-PM17	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM17	5/13/2015	Sodium	mg/l	551	514	6.9%
MU1-PM17	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM17	5/13/2015	Anion Sum	meq/L	22.54	22.39	0.7%
MU1-PM17	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM17	5/13/2015	Cation Sum	meq/L	24.75	23.14	6.7%
MU1-PM17	5/13/2015	Laboratory conductivity	umhos/cm	2260	2250	0.4%
MU1-PM17	5/13/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-PM17	5/13/2015	Radon-222	pCi/l	912	817	11.0%
MU1-PM17	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM17	5/13/2015	Total Anion/Cation Balance	%	4.66	1.63	96.3%
MU1-PM17	5/13/2015	Total Dissolved Solids	mg/l	1410	1400	0.7%
MU1-PM17	5/13/2015	Total Dissolved Solids (calc)	mg/l	1400	1360	2.9%
MU1-PM17	5/13/2015	Uranium, dissolved	mg/l	0.0005	0.0005	0.0%
MU1-PM17	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM17	5/13/2015	Gross Alpha	pCi/l	2.7	3.1	13.8%
MU1-PM17	5/13/2015	Gross Beta	pCi/l	3.5	4.8	31.3%
MU1-PM17	5/13/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM17	5/13/2015	Lead 210, suspended	pCi/l	1.2	2.4	66.7%
MU1-PM17	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM17	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM17	5/13/2015	Ra-226, dissolved	pCi/l	0.4	0.4	0.0%
MU1-PM17	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM17	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM17	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM17	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM17	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM18	4/28/2015	Alkalinity (as CaCO3)	mg/l	674	666	1.2%
MU1-PM18	4/28/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-PM18	4/28/2015	Bicarbonate	mg/l	738	734	0.5%
MU1-PM18	4/28/2015	Carbonate	mg/l	41	39	5.0%
MU1-PM18	4/28/2015	Chloride	mg/l	6	5	18.2%
MU1-PM18	4/28/2015	Fluoride	mg/l	1	1.1	9.5%
MU1-PM18	4/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM18	4/28/2015	Sulfate	mg/l	455	456	0.2%
MU1-PM18	4/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM18	4/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM18	4/28/2015	Boron, dissolved	mg/l	0.6	0.6	0.0%
MU1-PM18	4/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM18	4/28/2015	Calcium	mg/l	6	6	0.0%
MU1-PM18	4/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	4/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	4/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM18	4/28/2015	Iron, total	mg/l	0.15	0.13	14.3%
MU1-PM18	4/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	4/28/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM18	4/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM18	4/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM18	4/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	4/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	4/28/2015	Potassium	mg/l	6	6	0.0%
MU1-PM18	4/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM18	4/28/2015	Sodium	mg/l	529	529	0.0%
MU1-PM18	4/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	4/28/2015	Anion Sum	meq/L	23.15	23.01	0.6%
MU1-PM18	4/28/2015	Arsenic, dissolved	mg/l	0.008	0.008	0.0%
MU1-PM18	4/28/2015	Cation Sum	meq/L	23.7	23.7	0.0%
MU1-PM18	4/28/2015	Laboratory conductivity	umhos/cm	2090	2100	0.5%
MU1-PM18	4/28/2015	Laboratory pH	s.u.	8.8	8.7	1.1%
MU1-PM18	4/28/2015	Radon-222	pCi/l	505	526	4.1%
MU1-PM18	4/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM18	4/28/2015	Total Anion/Cation Balance	%	1.18	1.47	21.9%
MU1-PM18	4/28/2015	Total Dissolved Solids	mg/l	1440	1440	0.0%
MU1-PM18	4/28/2015	Total Dissolved Solids (calc)	mg/l	1410	1400	0.7%
MU1-PM18	4/28/2015	Uranium, dissolved	mg/l	0.0009	0.001	10.5%
MU1-PM18	4/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	4/28/2015	Gross Alpha	pCi/l	2.6	<2	88.9%
MU1-PM18	4/28/2015	Gross Beta	pCi/l	6.5	7.8	18.2%
MU1-PM18	4/28/2015	Lead 210, dissolved	pCi/l	1.2	<1	82.4%
MU1-PM18	4/28/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM18	4/28/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	4/28/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM18	4/28/2015	Ra-226, dissolved	pCi/l	0.3	0.2	40.0%
MU1-PM18	4/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	4/28/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	4/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	4/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	4/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM18	5/13/2015	Alkalinity (as CaCO3)	mg/l	673	746	10.3%
MU1-PM18	5/13/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-PM18	5/13/2015	Bicarbonate	mg/l	753	811	7.4%
MU1-PM18	5/13/2015	Carbonate	mg/l	34	49	36.1%
MU1-PM18	5/13/2015	Chloride	mg/l	5	5	0.0%
MU1-PM18	5/13/2015	Fluoride	mg/l	1.1	1.2	8.7%
MU1-PM18	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM18	5/13/2015	Sulfate	mg/l	421	423	0.5%
MU1-PM18	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM18	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM18	5/13/2015	Boron, dissolved	mg/l	0.6	0.6	0.0%
MU1-PM18	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM18	5/13/2015	Calcium	mg/l	7	7	0.0%
MU1-PM18	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/13/2015	Iron, dissolved	mg/l	0.05	<0.05	66.7%
MU1-PM18	5/13/2015	Iron, total	mg/l	0.09	0.08	11.8%
MU1-PM18	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/13/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM18	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM18	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/13/2015	Potassium	mg/l	5	5	0.0%
MU1-PM18	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM18	5/13/2015	Sodium	mg/l	548	516	6.0%
MU1-PM18	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/13/2015	Anion Sum	meq/L	22.41	23.91	6.5%
MU1-PM18	5/13/2015	Arsenic, dissolved	mg/l	0.008	0.008	0.0%
MU1-PM18	5/13/2015	Cation Sum	meq/L	24.56	23.16	5.9%
MU1-PM18	5/13/2015	Laboratory conductivity	umhos/cm	2100	2110	0.5%
MU1-PM18	5/13/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-PM18	5/13/2015	Radon-222	pCi/l	855	527	47.5%
MU1-PM18	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM18	5/13/2015	Total Anion/Cation Balance	%	4.57	1.59	96.8%
MU1-PM18	5/13/2015	Total Dissolved Solids	mg/l	1340	1350	0.7%
MU1-PM18	5/13/2015	Total Dissolved Solids (calc)	mg/l	1390	1410	1.4%
MU1-PM18	5/13/2015	Uranium, dissolved	mg/l	0.0003	0.0003	0.0%
MU1-PM18	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/13/2015	Gross Alpha	pCi/l	3.4	<2	109.1%
MU1-PM18	5/13/2015	Gross Beta	pCi/l	5.7	4.7	19.2%
MU1-PM18	5/13/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	5/13/2015	Lead 210, suspended	pCi/l	<1	1.4	94.7%
MU1-PM18	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM18	5/13/2015	Ra-226, dissolved	pCi/l	0.6	0.6	0.0%
MU1-PM18	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM18	5/27/2015	Alkalinity (as CaCO3)	mg/l	671	671	0.0%
MU1-PM18	5/27/2015	Ammonia	mg/l	0.3	0.3	0.0%
MU1-PM18	5/27/2015	Bicarbonate	mg/l	753	751	0.3%
MU1-PM18	5/27/2015	Carbonate	mg/l	32	33	3.1%
MU1-PM18	5/27/2015	Chloride	mg/l	5	5	0.0%
MU1-PM18	5/27/2015	Fluoride	mg/l	1.2	1.2	0.0%
MU1-PM18	5/27/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM18	5/27/2015	Sulfate	mg/l	417	420	0.7%
MU1-PM18	5/27/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM18	5/27/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM18	5/27/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-PM18	5/27/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM18	5/27/2015	Calcium	mg/l	6	6	0.0%
MU1-PM18	5/27/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/27/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/27/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM18	5/27/2015	Iron, total	mg/l	0.07	0.07	0.0%
MU1-PM18	5/27/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/27/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM18	5/27/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/27/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM18	5/27/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/27/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/27/2015	Potassium	mg/l	5	5	0.0%
MU1-PM18	5/27/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM18	5/27/2015	Sodium	mg/l	535	537	0.4%
MU1-PM18	5/27/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM18	5/27/2015	Anion Sum	meq/L	22.29	22.36	0.3%
MU1-PM18	5/27/2015	Arsenic, dissolved	mg/l	0.009	0.007	25.0%
MU1-PM18	5/27/2015	Cation Sum	meq/L	23.98	24.04	0.2%
MU1-PM18	5/27/2015	Laboratory conductivity	umhos/cm	2060	2070	0.5%
MU1-PM18	5/27/2015	Laboratory pH	s.u.	8.6	8.7	1.2%
MU1-PM18	5/27/2015	Radon-222	pCi/l	530	557	5.0%
MU1-PM18	5/27/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM18	5/27/2015	Total Anion/Cation Balance	%	3.65	3.61	1.1%
MU1-PM18	5/27/2015	Total Dissolved Solids	mg/l	1420	1410	0.7%
MU1-PM18	5/27/2015	Total Dissolved Solids (calc)	mg/l	1370	1380	0.7%
MU1-PM18	5/27/2015	Uranium, dissolved	mg/l	<0.0003	<0.0003	0.0%
MU1-PM18	5/27/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM18	5/27/2015	Gross Alpha	pCi/l	<2	<2	0.0%
MU1-PM18	5/27/2015	Gross Beta	pCi/l	7.1	5.4	27.2%
MU1-PM18	5/27/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	5/27/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM18	5/27/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	5/27/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM18	5/27/2015	Ra-226, dissolved	pCi/l	0.7	0.8	13.3%
MU1-PM18	5/27/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	5/27/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM18	5/27/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	5/27/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM18	5/27/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-PM19	4/28/2015	Alkalinity (as CaCO3)	mg/l	637	644	1.1%
MU1-PM19	4/28/2015	Ammonia	mg/l	0.4	0.4	0.0%
MU1-PM19	4/28/2015	Bicarbonate	mg/l	709	710	0.1%
MU1-PM19	4/28/2015	Carbonate	mg/l	34	37	8.5%
MU1-PM19	4/28/2015	Chloride	mg/l	7	6	15.4%
MU1-PM19	4/28/2015	Fluoride	mg/l	0.9	0.9	0.0%
MU1-PM19	4/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-PM19	4/28/2015	Sulfate	mg/l	530	532	0.4%
MU1-PM19	4/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-PM19	4/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-PM19	4/28/2015	Boron, dissolved	mg/l	0.6	0.6	0.0%
MU1-PM19	4/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-PM19	4/28/2015	Calcium	mg/l	7	7	0.0%
MU1-PM19	4/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM19	4/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM19	4/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-PM19	4/28/2015	Iron, total	mg/l	0.05	0.06	18.2%
MU1-PM19	4/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM19	4/28/2015	Magnesium	mg/l	3	3	0.0%
MU1-PM19	4/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-PM19	4/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-PM19	4/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM19	4/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM19	4/28/2015	Potassium	mg/l	6	6	0.0%
MU1-PM19	4/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-PM19	4/28/2015	Sodium	mg/l	558	558	0.0%
MU1-PM19	4/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-PM19	4/28/2015	Anion Sum	meq/L	24	24.18	0.7%
MU1-PM19	4/28/2015	Arsenic, dissolved	mg/l	0.005	0.006	18.2%
MU1-PM19	4/28/2015	Cation Sum	meq/L	25.01	25.04	0.1%
MU1-PM19	4/28/2015	Laboratory conductivity	umhos/cm	2270	2240	1.3%
MU1-PM19	4/28/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-PM19	4/28/2015	Radon-222	pCi/l	697	692	0.7%
MU1-PM19	4/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-PM19	4/28/2015	Total Anion/Cation Balance	%	2.07	1.75	16.8%
MU1-PM19	4/28/2015	Total Dissolved Solids	mg/l	1540	1530	0.7%
MU1-PM19	4/28/2015	Total Dissolved Solids (calc)	mg/l	1490	1500	0.7%
MU1-PM19	4/28/2015	Uranium, dissolved	mg/l	0.0005	0.0006	18.2%
MU1-PM19	4/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-PM19	4/28/2015	Gross Alpha	pCi/l	<2	3.6	113.0%
MU1-PM19	4/28/2015	Gross Beta	pCi/l	<3	3.3	75.0%
MU1-PM19	4/28/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM19	4/28/2015	Lead 210, suspended	pCi/l	<1	2	120.0%
MU1-PM19	4/28/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-PM19	4/28/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-PM19	4/28/2015	Ra-226, dissolved	pCi/l	0.2	0.2	0.0%
MU1-PM19	4/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM19	4/28/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-PM19	4/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-PM19	4/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-PM19	4/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-SM2	5/29/2015	Alkalinity (as CaCO3)	mg/l	589	617	4.6%
MU1-SM2	5/29/2015	Ammonia	mg/l	0.2	0.2	0.0%
MU1-SM2	5/29/2015	Bicarbonate	mg/l	629	658	4.5%
MU1-SM2	5/29/2015	Carbonate	mg/l	44	46	4.4%
MU1-SM2	5/29/2015	Chloride	mg/l	5	4	22.2%
MU1-SM2	5/29/2015	Fluoride	mg/l	0.8	1.4	54.5%
MU1-SM2	5/29/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-SM2	5/29/2015	Sulfate	mg/l	282	287	1.8%
MU1-SM2	5/29/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-SM2	5/29/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-SM2	5/29/2015	Boron, dissolved	mg/l	0.5	0.5	0.0%
MU1-SM2	5/29/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-SM2	5/29/2015	Calcium	mg/l	3	3	0.0%
MU1-SM2	5/29/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM2	5/29/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM2	5/29/2015	Iron, dissolved	mg/l	0.06	<0.05	82.4%
MU1-SM2	5/29/2015	Iron, total	mg/l	1.49	1.5	0.7%
MU1-SM2	5/29/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM2	5/29/2015	Magnesium	mg/l	2	2	0.0%
MU1-SM2	5/29/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-SM2	5/29/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-SM2	5/29/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM2	5/29/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM2	5/29/2015	Potassium	mg/l	10	9	10.5%
MU1-SM2	5/29/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-SM2	5/29/2015	Sodium	mg/l	407	398	2.2%
MU1-SM2	5/29/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM2	5/29/2015	Anion Sum	meq/L	17.83	18.49	3.6%
MU1-SM2	5/29/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM2	5/29/2015	Cation Sum	meq/L	18.25	17.85	2.2%
MU1-SM2	5/29/2015	Laboratory conductivity	umhos/cm	1730	1720	0.6%
MU1-SM2	5/29/2015	Laboratory pH	s.u.	8.8	8.9	1.1%
MU1-SM2	5/29/2015	Radon-222	pCi/l	1230	1250	1.6%
MU1-SM2	5/29/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM2	5/29/2015	Total Anion/Cation Balance	%	1.17	1.76	40.3%
MU1-SM2	5/29/2015	Total Dissolved Solids	mg/l	1140	1150	0.9%
MU1-SM2	5/29/2015	Total Dissolved Solids (calc)	mg/l	1060	1070	0.9%
MU1-SM2	5/29/2015	Uranium, dissolved	mg/l	0.0004	0.0004	0.0%
MU1-SM2	5/29/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM2	5/29/2015	Gross Alpha	pCi/l	5.3	5.3	0.0%
MU1-SM2	5/29/2015	Gross Beta	pCi/l	8.8	11.7	28.3%
MU1-SM2	5/29/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-SM2	5/29/2015	Lead 210, suspended	pCi/l	1.3	<1	88.9%
MU1-SM2	5/29/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-SM2	5/29/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-SM2	5/29/2015	Ra-226, dissolved	pCi/l	1.1	1.2	8.7%
MU1-SM2	5/29/2015	Ra-226, suspended	pCi/l	0.6	0.5	18.2%
MU1-SM2	5/29/2015	Ra-228, Dissolved	pCi/l	1.7	<1	109.1%
MU1-SM2	5/29/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-SM2	5/29/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-SM2	5/29/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-SM3	5/28/2015	Alkalinity (as CaCO3)	mg/l	642	657	2.3%
MU1-SM3	5/28/2015	Ammonia	mg/l	0.2	0.2	0.0%
MU1-SM3	5/28/2015	Bicarbonate	mg/l	716	738	3.0%
MU1-SM3	5/28/2015	Carbonate	mg/l	33	31	6.3%
MU1-SM3	5/28/2015	Chloride	mg/l	4	4	0.0%
MU1-SM3	5/28/2015	Fluoride	mg/l	1	1	0.0%
MU1-SM3	5/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-SM3	5/28/2015	Sulfate	mg/l	336	340	1.2%
MU1-SM3	5/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-SM3	5/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-SM3	5/28/2015	Boron, dissolved	mg/l	0.6	0.6	0.0%
MU1-SM3	5/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-SM3	5/28/2015	Calcium	mg/l	5	5	0.0%
MU1-SM3	5/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM3	5/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM3	5/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-SM3	5/28/2015	Iron, total	mg/l	0.34	0.35	2.9%
MU1-SM3	5/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM3	5/28/2015	Magnesium	mg/l	2	2	0.0%
MU1-SM3	5/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-SM3	5/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-SM3	5/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM3	5/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM3	5/28/2015	Potassium	mg/l	5	5	0.0%
MU1-SM3	5/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-SM3	5/28/2015	Sodium	mg/l	448	449	0.2%
MU1-SM3	5/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM3	5/28/2015	Anion Sum	meq/L	19.94	20.33	1.9%
MU1-SM3	5/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM3	5/28/2015	Cation Sum	meq/L	20.08	20.09	0.0%
MU1-SM3	5/28/2015	Laboratory conductivity	umhos/cm	1850	1860	0.5%
MU1-SM3	5/28/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-SM3	5/28/2015	Radon-222	pCi/l	379	512	29.9%
MU1-SM3	5/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM3	5/28/2015	Total Anion/Cation Balance	%	0.33	0.57	53.3%
MU1-SM3	5/28/2015	Total Dissolved Solids	mg/l	1240	1240	0.0%
MU1-SM3	5/28/2015	Total Dissolved Solids (calc)	mg/l	1190	1200	0.8%
MU1-SM3	5/28/2015	Uranium, dissolved	mg/l	<0.0003	0.0003	66.7%
MU1-SM3	5/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM3	5/28/2015	Gross Alpha	pCi/l	<2	<2	0.0%
MU1-SM3	5/28/2015	Gross Beta	pCi/l	<3	5.9	118.9%
MU1-SM3	5/28/2015	Lead 210, dissolved	pCi/l	1	<1	66.7%
MU1-SM3	5/28/2015	Lead 210, suspended	pCi/l	1	<1	66.7%
MU1-SM3	5/28/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-SM3	5/28/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-SM3	5/28/2015	Ra-226, dissolved	pCi/l	0.4	0.6	40.0%
MU1-SM3	5/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-SM3	5/28/2015	Ra-228, Dissolved	pCi/l	1.2	<1	82.4%
MU1-SM3	5/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-SM3	5/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-SM3	5/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-SM12	5/28/2015	Alkalinity (as CaCO3)	mg/l	640	637	0.5%
MU1-SM12	5/28/2015	Ammonia	mg/l	0.2	0.2	0.0%
MU1-SM12	5/28/2015	Bicarbonate	mg/l	704	704	0.0%
MU1-SM12	5/28/2015	Carbonate	mg/l	38	36	5.4%
MU1-SM12	5/28/2015	Chloride	mg/l	4	5	22.2%
MU1-SM12	5/28/2015	Fluoride	mg/l	1.4	1.4	0.0%
MU1-SM12	5/28/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-SM12	5/28/2015	Sulfate	mg/l	280	290	3.5%
MU1-SM12	5/28/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-SM12	5/28/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-SM12	5/28/2015	Boron, dissolved	mg/l	0.6	0.6	0.0%
MU1-SM12	5/28/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-SM12	5/28/2015	Calcium	mg/l	5	5	0.0%
MU1-SM12	5/28/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM12	5/28/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM12	5/28/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-SM12	5/28/2015	Iron, total	mg/l	0.13	0.12	8.0%
MU1-SM12	5/28/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM12	5/28/2015	Magnesium	mg/l	2	2	0.0%
MU1-SM12	5/28/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-SM12	5/28/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-SM12	5/28/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM12	5/28/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM12	5/28/2015	Potassium	mg/l	6	6	0.0%
MU1-SM12	5/28/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-SM12	5/28/2015	Sodium	mg/l	458	457	0.2%
MU1-SM12	5/28/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM12	5/28/2015	Anion Sum	meq/L	18.8	18.99	1.0%
MU1-SM12	5/28/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM12	5/28/2015	Cation Sum	meq/L	20.52	20.46	0.3%
MU1-SM12	5/28/2015	Laboratory conductivity	umhos/cm	1770	1780	0.6%
MU1-SM12	5/28/2015	Laboratory pH	s.u.	8.7	8.7	0.0%
MU1-SM12	5/28/2015	Radon-222	pCi/l	2740	4670	52.1%
MU1-SM12	5/28/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM12	5/28/2015	Total Anion/Cation Balance	%	4.35	3.72	15.6%
MU1-SM12	5/28/2015	Total Dissolved Solids	mg/l	1210	1220	0.8%
MU1-SM12	5/28/2015	Total Dissolved Solids (calc)	mg/l	1140	1150	0.9%
MU1-SM12	5/28/2015	Uranium, dissolved	mg/l	<0.0003	0.0003	66.7%
MU1-SM12	5/28/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM12	5/28/2015	Gross Alpha	pCi/l	3.9	7.2	59.5%
MU1-SM12	5/28/2015	Gross Beta	pCi/l	<3	4.9	106.3%
MU1-SM12	5/28/2015	Lead 210, dissolved	pCi/l	<1	<1	0.0%
MU1-SM12	5/28/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-SM12	5/28/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-SM12	5/28/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-SM12	5/28/2015	Ra-226, dissolved	pCi/l	1.5	1.4	6.9%
MU1-SM12	5/28/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-SM12	5/28/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-SM12	5/28/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-SM12	5/28/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-SM12	5/28/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

Well	Date	Constituent	Units	Sample	Duplicate	RPD
MU1-SM13	5/13/2015	Alkalinity (as CaCO3)	mg/l	561	561	0.0%
MU1-SM13	5/13/2015	Ammonia	mg/l	0.2	0.2	0.0%
MU1-SM13	5/13/2015	Bicarbonate	mg/l	465	468	0.6%
MU1-SM13	5/13/2015	Carbonate	mg/l	108	107	0.9%
MU1-SM13	5/13/2015	Chloride	mg/l	3	3	0.0%
MU1-SM13	5/13/2015	Fluoride	mg/l	1.9	2.1	10.0%
MU1-SM13	5/13/2015	Nitrate/Nitrite	mg/l	<0.1	<0.1	0.0%
MU1-SM13	5/13/2015	Sulfate	mg/l	164	164	0.0%
MU1-SM13	5/13/2015	Aluminum, dissolved	mg/l	<0.1	<0.1	0.0%
MU1-SM13	5/13/2015	Barium, dissolved	mg/l	<0.5	<0.5	0.0%
MU1-SM13	5/13/2015	Boron, dissolved	mg/l	0.6	0.5	18.2%
MU1-SM13	5/13/2015	Cadmium, dissolved	mg/l	<0.002	<0.002	0.0%
MU1-SM13	5/13/2015	Calcium	mg/l	4	4	0.0%
MU1-SM13	5/13/2015	Chromium, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM13	5/13/2015	Copper, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM13	5/13/2015	Iron, dissolved	mg/l	<0.05	<0.05	0.0%
MU1-SM13	5/13/2015	Iron, total	mg/l	0.15	0.15	0.0%
MU1-SM13	5/13/2015	Lead, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM13	5/13/2015	Magnesium	mg/l	1	1	0.0%
MU1-SM13	5/13/2015	Manganese, total	mg/l	<0.02	<0.02	0.0%
MU1-SM13	5/13/2015	Mercury, dissolved	mg/l	<0.001	<0.001	0.0%
MU1-SM13	5/13/2015	Molybdenum, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM13	5/13/2015	Nickel, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM13	5/13/2015	Potassium	mg/l	8	8	0.0%
MU1-SM13	5/13/2015	Silver, dissolved	mg/l	<0.003	<0.003	0.0%
MU1-SM13	5/13/2015	Sodium	mg/l	340	339	0.3%
MU1-SM13	5/13/2015	Zinc, dissolved	mg/l	<0.01	<0.01	0.0%
MU1-SM13	5/13/2015	Anion Sum	meq/L	14.82	14.84	0.1%
MU1-SM13	5/13/2015	Arsenic, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM13	5/13/2015	Cation Sum	meq/L	15.31	15.28	0.2%
MU1-SM13	5/13/2015	Laboratory conductivity	umhos/cm	1500	1490	0.7%
MU1-SM13	5/13/2015	Laboratory pH	s.u.	9.5	9.5	0.0%
MU1-SM13	5/13/2015	Radon-222	pCi/l	740	644	13.9%
MU1-SM13	5/13/2015	Selenium, dissolved	mg/l	<0.005	<0.005	0.0%
MU1-SM13	5/13/2015	Total Anion/Cation Balance	%	1.64	1.46	11.6%
MU1-SM13	5/13/2015	Total Dissolved Solids	mg/l	870	840	3.5%
MU1-SM13	5/13/2015	Total Dissolved Solids (calc)	mg/l	860	860	0.0%
MU1-SM13	5/13/2015	Uranium, dissolved	mg/l	0.0004	0.0005	22.2%
MU1-SM13	5/13/2015	Vanadium, dissolved	mg/l	<0.02	<0.02	0.0%
MU1-SM13	5/13/2015	Gross Alpha	pCi/l	2.7	3.4	23.0%
MU1-SM13	5/13/2015	Gross Beta	pCi/l	7	6.4	9.0%
MU1-SM13	5/13/2015	Lead 210, dissolved	pCi/l	1.3	<1	88.9%
MU1-SM13	5/13/2015	Lead 210, suspended	pCi/l	<1	<1	0.0%
MU1-SM13	5/13/2015	Polonium 210, dissolved	pCi/l	<1	<1	0.0%
MU1-SM13	5/13/2015	Polonium 210, suspended	pCi/l	<1	<1	0.0%
MU1-SM13	5/13/2015	Ra-226, dissolved	pCi/l	0.9	0.9	0.0%
MU1-SM13	5/13/2015	Ra-226, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-SM13	5/13/2015	Ra-228, Dissolved	pCi/l	<1	<1	0.0%
MU1-SM13	5/13/2015	Th-230, dissolved	pCi/l	<0.2	<0.2	0.0%
MU1-SM13	5/13/2015	Th-230, suspended	pCi/l	<0.2	<0.2	0.0%
MU1-SM13	5/13/2015	Uranium, suspended	mg/l	<0.0003	<0.0003	0.0%

APPENDIX B

Field Blank Results

Field Blank Water Quality Results

Station Name	Reporting	MU1-B1	MU1-B2	MU1-B3	MU1-B4	MU1-B5	MU1-B6	MU1 -B7	MU1 -B8	MU1 -B9	MU1-B10	MU1-B11	MU1-B12	MU1-B13	MU1-B14	MU1-B15	MU1-B16	MU1-Blank
Sample Date	Units	4/27/2015	4/28/2015	5/12/2015	5/12/2015	5/12/2015	5/12/2015	5/26/2015	5/26/2015	5/26/2015	6/1/2015	6/1/2015	6/1/2015	6/10/2015	6/10/2015	6/15/2015	6/15/2015	5/18/2015
Inorganics																		
Alkalinity (as $CaCO_3$)	mg/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ammonia	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium	mg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Magnesium	mg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Potassium	mg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sodium	mg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bicarbonate	mg/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbonate	mg/l	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloride	mg/l	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate/Nitrite	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfate	mg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Metals																		
Aluminum, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Barium, dissolved	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron, dissolved	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium, dissolved	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chromium, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron, dissolved	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Iron, total	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					<0.05
Lead, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Manganese, dissolved	mg/l													<0.02	<0.02	<0.02	<0.02	
Manganese, total	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02					<0.02
Mercury, dissolved	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nickel, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium, dissolved	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Silver, dissolved	mg/l	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003					<0.003
Uranium, dissolved	mg/l	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Uranium, suspended	mg/l	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003					<0.0003
Vanadium, dissolved	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Zinc, dissolved	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Other																		
Laboratory conductivity	µmhos/cm	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Laboratory pH	s.u.	6.5	6.8	6.4	5.8	5.6	5.6	6.4	6	6	6.2	5.7	5.9	6.3	5.8	6.6	6	6.5
Silica as SiO_2	mg/l													<0.1	<0.1	<0.1	<0.1	
Total dissolved solids (TDS)	mg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total dissolved solids (calc)	mg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Anion Sum	meq/L	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cation Sum	meq/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Anion/Cation Balance	%	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Radiological																		
Gross alpha	pCi/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.3	<2	<2
Gross beta	pCi/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3					<3
Lead-210, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1
Lead-210, suspended	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1
Polonium-210, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1
Polonium-210, suspended	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1					<1
Radium-226, dissolved	pCi/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Radium-226, suspended	pCi/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					<0.2
Radium-228, dissolved	pCi/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thorium-230, dissolved	pCi/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					<0.2
Thorium-230, suspended	pCi/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					<0.2
Radon-222	pCi/l	<100	<100	<100	<100	<100	<100	159	144	<100	<100	<100	<100					<100

ATTACHMENT 11

MU1 Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs

Table 1. OZ Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs

Parameter	Units	Standard	WDEQ Class I (Domestic)																								
			MU1-OZ1	MU1-OZ2	MU1-OZ3	MU1-OZ4	MU1-OZ6	MU1-OZ7	MU1-OZ8	MU1-OZ9	MU1-OZ10	MU1-OZ11	MU1-OZ12	MU1-OZ13	MU1-OZ14	MU1-OZ15	MU1-OZ16	MU1-OZ17	MU1-OZ18	MU1-OZ19	MU1-OZ20	MU1-OZ21	MU1-OZ22	MU1-OZ23	MU1-OZ24	MU1-OZ25	MU1-OZ26
General																											
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	0.5	0	0	4	0	1	4	0	0	0	2	1	1	1	0	0	2	0	0	0	0	0	2	0	0	0
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Major Ions																											
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	250	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Metals																											
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																											
Gross alpha	pCi/l	15	4	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4	0	4	4	4	0	4	4	4
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	4	4	0	0	4	4	4	4	0	3	0	3	2	4	4	4	0	0	0	4	4	0	4	0	4
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 1. OZ Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class II (Agriculture)																								
			MU1-OZ1	MU1-OZ2	MU1-OZ3	MU1-OZ4	MU1-OZ6	MU1-OZ7	MU1-OZ8	MU1-OZ9	MU1-OZ10	MU1-OZ11	MU1-OZ12	MU1-OZ13	MU1-OZ14	MU1-OZ15	MU1-OZ16	MU1-OZ17	MU1-OZ18	MU1-OZ19	MU1-OZ20	MU1-OZ21	MU1-OZ22	MU1-OZ23	MU1-OZ24	MU1-OZ25	MU1-OZ26
General																											
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	9.0	0	0	0	0	1	0	0	2	0	0	0	2	0	0	2	0	0	2	0	0	0	0	0	0	0
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	2000	0	0	4	0	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	0
Major Ions																											
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	200	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Metals																											
Aluminum, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																											
Gross alpha	pCi/l	15	4	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4	0	4	4	4	0	4	4	4
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	4	4	0	0	4	4	4	4	0	3	0	3	2	4	4	4	0	0	0	4	4	0	4	0	4
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 1. OZ Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class III (Livestock)																								
			MU1-OZ1	MU1-OZ2	MU1-OZ3	MU1-OZ4	MU1-OZ6	MU1-OZ7	MU1-OZ8	MU1-OZ9	MU1-OZ10	MU1-OZ11	MU1-OZ12	MU1-OZ13	MU1-OZ14	MU1-OZ15	MU1-OZ16	MU1-OZ17	MU1-OZ18	MU1-OZ19	MU1-OZ20	MU1-OZ21	MU1-OZ22	MU1-OZ23	MU1-OZ24	MU1-OZ25	MU1-OZ26
General																											
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																											
Aluminum, dissolved	mg/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.00005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																											
Gross alpha	pCi/l	15	4	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4	0	4	4	4	0	4	4	4
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	4	4	0	0	4	4	4	4	0	3	0	3	2	4	4	4	0	0	0	4	4	0	4	0	4
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 1. OZ Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	MCL	EPA Primary MCLs																								
			MU1-OZ1	MU1-OZ2	MU1-OZ3	MU1-OZ4	MU1-OZ6	MU1-OZ7	MU1-OZ8	MU1-OZ9	MU1-OZ10	MU1-OZ11	MU1-OZ12	MU1-OZ13	MU1-OZ14	MU1-OZ15	MU1-OZ16	MU1-OZ17	MU1-OZ18	MU1-OZ19	MU1-OZ20	MU1-OZ21	MU1-OZ22	MU1-OZ23	MU1-OZ24	MU1-OZ25	MU1-OZ26
General																											
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions																											
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																											
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	0.03	4	4	4	4	4	4	4	4	2	4	0	4	4	4	4	4	4	0	0	4	4	0	4	4	4
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																											
Gross alpha	pCi/l	15	4	4	4	4	4	4	4	4	4	4	0	4	4	4	4	4	4	0	4	4	4	0	4	4	4
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	4	4	0	0	4	4	4	4	0	3	0	3	2	4	4	4	0	0	0	4	4	0	4	0	4
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 1. OZ Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	EPA Secondary Standards																							
			MU1-OZ1	MU1-OZ2	MU1-OZ3	MU1-OZ4	MU1-OZ6	MU1-OZ7	MU1-OZ8	MU1-OZ9	MU1-OZ10	MU1-OZ11	MU1-OZ12	MU1-OZ13	MU1-OZ14	MU1-OZ15	MU1-OZ16	MU1-OZ17	MU1-OZ18	MU1-OZ19	MU1-OZ20	MU1-OZ21	MU1-OZ22	MU1-OZ23	MU1-OZ24	MU1-OZ25	MU1-OZ26
General																											
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Major Ions																											
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	250	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Metals																											
Aluminum, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																											
Gross alpha	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 2. PM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs

Parameter	Units	Standard	WDEQ Class I (Domestic)																		
			MU1-PM1	MU1-PM2	MU1-PM3	MU1-PM4	MU1-PM5	MU1-PM6	MU1-PM7	MU1-PM8	MU1-PM9	MU1-PM10	MU1-PM11	MU1-PM12	MU1-PM13	MU1-PM14A	MU1-PM15	MU1-PM16	MU1-PM17	MU1-PM18	MU1-PM19
General																					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	0.5	0	0	0	0	0	0	0	1	1	1	0	0	0	2	4	0	0	0	0
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	4	4	4	4
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4
Major Ions																					
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	250	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Metals																					
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																					
Gross alpha	pCi/l	15	3	4	2	0	1	4	3	4	4	3	1	0	0	2	4	2	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 2. PM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class II (Agriculture)																		
			MU1-PM1	MU1-PM2	MU1-PM3	MU1-PM4	MU1-PM5	MU1-PM6	MU1-PM7	MU1-PM8	MU1-PM9	MU1-PM10	MU1-PM11	MU1-PM12	MU1-PM13	MU1-PM14A	MU1-PM15	MU1-PM16	MU1-PM17	MU1-PM18	MU1-PM19
General																					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions																					
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	200	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Metals																					
Aluminum, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																					
Gross alpha	pCi/l	15	3	4	2	0	1	4	3	4	4	3	1	0	0	2	4	2	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 2. PM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class III (Livestock)																		
			MU1-PM1	MU1-PM2	MU1-PM3	MU1-PM4	MU1-PM5	MU1-PM6	MU1-PM7	MU1-PM8	MU1-PM9	MU1-PM10	MU1-PM11	MU1-PM12	MU1-PM13	MU1-PM14A	MU1-PM15	MU1-PM16	MU1-PM17	MU1-PM18	MU1-PM19
General																					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	4	4	4	4
Nitrate/Nitrite as N	mg/l	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																					
Aluminum, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.00005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																					
Gross alpha	pCi/l	15	3	4	2	0	1	4	3	4	4	3	1	0	0	2	4	2	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 2. PM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	MCL	EPA Primary MCLs																		
			MU1-PM1	MU1-PM2	MU1-PM3	MU1-PM4	MU1-PM5	MU1-PM6	MU1-PM7	MU1-PM8	MU1-PM9	MU1-PM10	MU1-PM11	MU1-PM12	MU1-PM13	MU1-PM14A	MU1-PM15	MU1-PM16	MU1-PM17	MU1-PM18	MU1-PM19
General																					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions																					
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																					
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	3	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	0.03	0	0	1	0	0	3	1	4	3	2	0	0	0	0	4	1	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																					
Gross alpha	pCi/l	15	3	4	2	0	1	4	3	4	4	3	1	0	0	2	4	2	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 2. PM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	EPA Secondary Standards																		
			MU1-PM1	MU1-PM2	MU1-PM3	MU1-PM4	MU1-PM5	MU1-PM6	MU1-PM7	MU1-PM8	MU1-PM9	MU1-PM10	MU1-PM11	MU1-PM12	MU1-PM13	MU1-PM14A	MU1-PM15	MU1-PM16	MU1-PM17	MU1-PM18	MU1-PM19
General																					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	4	4	4	4
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4
Major Ions																					
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	250	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Metals																					
Aluminum, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Arsenic, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																					
Gross alpha	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 3. SM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs

Parameter	Units	Standard	WDEQ Class I (Domestic)													
			MU1-SM1	MU1-SM2	MU1-SM3	MU1-SM4	MU1-SM5	MU1-SM6	MU1-SM7	MU1-SM8	MU1-SM9	MU1-SM10	MU1-SM11	MU1-SM12	MU1-SM13	MU1-SM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	250	0	4	4	4	4	4	4	0	4	0	0	4	0	4
Metals																
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 3. SM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class II (Agriculture)													
			MU1-SM1	MU1-SM2	MU1-SM3	MU1-SM4	MU1-SM5	MU1-SM6	MU1-SM7	MU1-SM8	MU1-SM9	MU1-SM10	MU1-SM11	MU1-SM12	MU1-SM13	MU1-SM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	9.0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	200	0	4	4	4	4	4	4	4	4	4	1	4	0	4
Metals																
Aluminum, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 3. SM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class III (Livestock)													
			MU1-SM1	MU1-SM2	MU1-SM3	MU1-SM4	MU1-SM5	MU1-SM6	MU1-SM7	MU1-SM8	MU1-SM9	MU1-SM10	MU1-SM11	MU1-SM12	MU1-SM13	MU1-SM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions				0	0	0	0	0	0	0	0	0	0	0	0	0
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																
Aluminum, dissolved	mg/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.00005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 3. SM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	MCL	EPA Primary MCLs													
			MU1-SM1	MU1-SM2	MU1-SM3	MU1-SM4	MU1-SM5	MU1-SM6	MU1-SM7	MU1-SM8	MU1-SM9	MU1-SM10	MU1-SM11	MU1-SM12	MU1-SM13	MU1-SM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 3. SM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	EPA Secondary Standards													
			MU1-SM1	MU1-SM2	MU1-SM3	MU1-SM4	MU1-SM5	MU1-SM6	MU1-SM7	MU1-SM8	MU1-SM9	MU1-SM10	MU1-SM11	MU1-SM12	MU1-SM13	MU1-SM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	250	0	4	4	4	4	4	4	0	4	0	0	4	0	4
Metals																
Aluminum, dissolved	mg/l	0.05	1	1	1	0	1	0	0	1	0	0	0	0	0	0
Arsenic, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 4. DM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs

Parameter	Units	Standard	WDEQ Class I (Domestic)													
			MU1-DM1	MU1-DM2	MU1-DM3A	MU1-DM4	MU1-DM5	MU1-DM6	MU1-DM7	MU1-DM8	MU1-DM9	MU1-DM10	MU1-DM11	MU1-DM12	MU1-DM13	MU1-DM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	0.5	3	4	3	1	3	4	4	4	3	4	1	3	4	4
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	3	3	4	4	4	4	4	4	3	4	4	3	4	4
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	3	3	3	4	4	4	4	4	4	4	4	4	4	4
Sulfate	mg/l	250	0	4	4	0	4	0	0	0	0	0	0	4	0	4
Metals																
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	2	3	0	4	3	4	4	4	2	4	4	0	4	1
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 4. DM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class II (Agriculture)													
			MU1-DM1	MU1-DM2	MU1-DM3A	MU1-DM4	MU1-DM5	MU1-DM6	MU1-DM7	MU1-DM8	MU1-DM9	MU1-DM10	MU1-DM11	MU1-DM12	MU1-DM13	MU1-DM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	9.0	3	2	4	0	4	4	3	4	4	4	4	3	4	4
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	2000	0	0	4	0	0	0	0	0	0	0	0	3	0	2
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	100	3	3	3	4	4	4	4	4	4	4	4	4	4	4
Sulfate	mg/l	200	2	4	4	0	4	0	0	0	0	0	0	4	0	4
Metals																
Aluminum, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	0.75	2	3	0	4	3	4	4	4	2	4	4	0	4	1
Cadmium, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 4. DM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class III (Livestock)													
			MU1-DM1	MU1-DM2	MU1-DM3A	MU1-DM4	MU1-DM5	MU1-DM6	MU1-DM7	MU1-DM8	MU1-DM9	MU1-DM10	MU1-DM11	MU1-DM12	MU1-DM13	MU1-DM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	5000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions				0	0	0	0	0	0	0	0	0	0	0	0	0
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	3000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																
Aluminum, dissolved	mg/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.00005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 4. DM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	MCL	EPA Primary MCLs													
			MU1-DM1	MU1-DM2	MU1-DM3A	MU1-DM4	MU1-DM5	MU1-DM6	MU1-DM7	MU1-DM8	MU1-DM9	MU1-DM10	MU1-DM11	MU1-DM12	MU1-DM13	MU1-DM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	4.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sulfate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metals																
Aluminum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arsenic, dissolved	mg/l	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 4. DM Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	EPA Secondary Standards													
			MU1-DM1	MU1-DM2	MU1-DM3A	MU1-DM4	MU1-DM5	MU1-DM6	MU1-DM7	MU1-DM8	MU1-DM9	MU1-DM10	MU1-DM11	MU1-DM12	MU1-DM13	MU1-DM14
General																
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ammonia as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride	mg/l	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory pH	s.u.	8.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Nitrate/Nitrite as N	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Dissolved Solids	mg/l	500	3	3	4	4	4	4	4	4	3	4	4	3	4	4
Major Ions																
Calcium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Magnesium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potassium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sodium	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bicarbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carbonate	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chloride	mg/l	250	3	3	3	4	4	4	4	4	4	4	4	4	4	4
Sulfate	mg/l	250	0	4	4	0	4	0	0	0	0	0	0	4	0	4
Metals																
Aluminum, dissolved	mg/l	0.05	0	1	3	1	1	2	4	2	4	4	3	1	1	1
Arsenic, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boron, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cadmium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chromium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Iron, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Manganese, total	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mercury, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Selenium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uranium, suspended	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radiologic																
Gross alpha	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross beta	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radon-222	pCi/l	---	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 5. SA Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs

Parameter	Units	Standard	WDEQ Class I (Domestic)			Parameter	Units	Standard	WDEQ Class II (Agriculture)		
			MU1-SA1	MU1-SA2	MU1-SA3				MU1-SA1	MU1-SA2	MU1-SA3
General						**General**					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0
Ammonia as N	mg/l	0.5	0	0	0	Ammonia as N	mg/l	---	0	0	0
Fluoride	mg/l	4.0	0	0	0	Fluoride	mg/l	---	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	Laboratory conductivity	µmhos/cm	---	0	0	0
Laboratory pH	s.u.	8.5	1	2	1	Laboratory pH	s.u.	9.0	0	1	0
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	Nitrate/Nitrite as N	mg/l	---	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	Silica as SiO_2	mg/l	---	0	0	0
Total Dissolved Solids	mg/l	500	2	2	2	Total Dissolved Solids	mg/l	2000	2	0	0
Major Ions						**Major Ions**					
Calcium	mg/l	---	0	0	0	Calcium	mg/l	---	0	0	0
Magnesium	mg/l	---	0	0	0	Magnesium	mg/l	---	0	0	0
Potassium	mg/l	---	0	0	0	Potassium	mg/l	---	0	0	0
Sodium	mg/l	---	0	0	0	Sodium	mg/l	---	0	0	0
Bicarbonate	mg/l	---	0	0	0	Bicarbonate	mg/l	---	0	0	0
Carbonate	mg/l	---	0	0	0	Carbonate	mg/l	---	0	0	0
Chloride	mg/l	250	0	0	0	Chloride	mg/l	100	0	0	0
Sulfate	mg/l	250	2	0	0	Sulfate	mg/l	200	2	0	1
Metals						**Metals**					
Aluminum, dissolved	mg/l	---	0	0	0	Aluminum, dissolved	mg/l	5.0	0	0	0
Arsenic, dissolved	mg/l	0.05	0	0	0	Arsenic, dissolved	mg/l	0.1	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	Barium, dissolved	mg/l	---	0	0	0
Boron, dissolved	mg/l	0.75	0	0	0	Boron, dissolved	mg/l	0.75	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	Cadmium, dissolved	mg/l	0.01	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	Chromium, dissolved	mg/l	0.1	0	0	0
Copper, dissolved	mg/l	1.0	0	0	0	Copper, dissolved	mg/l	0.2	0	0	0
Iron, dissolved	mg/l	0.3	0	0	0	Iron, dissolved	mg/l	5.0	0	0	0
Iron, total	mg/l	---	0	0	0	Iron, total	mg/l	---	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	Lead, dissolved	mg/l	5.0	0	0	0
Manganese, dissolved	mg/l	0.05	0	0	0	Manganese, dissolved	mg/l	0.2	0	0	0
Manganese, total	mg/l	---	0	0	0	Manganese, total	mg/l	---	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	Mercury, dissolved	mg/l	---	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	Molybdenum, dissolved	mg/l	---	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	Nickel, dissolved	mg/l	0.2	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	Selenium, dissolved	mg/l	0.02	0	0	0
Silver, dissolved	mg/l	0.1	0	0	0	Silver, dissolved	mg/l	---	0	0	0
Uranium, dissolved	mg/l	---	0	0	0	Uranium, dissolved	mg/l	---	0	0	0
Uranium, suspended	mg/l	---	0	0	0	Uranium, suspended	mg/l	---	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	Vanadium, dissolved	mg/l	0.1	0	0	0
Zinc, dissolved	mg/l	5.0	0	0	0	Zinc, dissolved	mg/l	2.0	0	0	0
Radiologic						**Radiologic**					
Gross alpha	pCi/l	15	2	0	0	Gross alpha	pCi/l	15	2	0	0
Gross beta	pCi/l	---	0	0	0	Gross beta	pCi/l	---	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	Lead-210, dissolved	pCi/l	---	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	Lead-210, suspended	pCi/l	---	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	Polonium-210, dissolved	pCi/l	---	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	Polonium-210, suspended	pCi/l	---	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	Radium-226, dissolved	pCi/l	5	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	Radium-226, suspended	pCi/l	---	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	Radium-228, dissolved	pCi/l	5	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	Thorium-230, dissolved	pCi/l	---	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	Thorium-230, suspended	pCi/l	---	0	0	0
Radon-222	pCi/l	---	0	0	0	Radon-222	pCi/l	---	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 5. SA Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	Standard	WDEQ Class III (Livestock)		
			MU1-SA1	MU1-SA2	MU1-SA3
General					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0
Ammonia as N	mg/l	---	0	0	0
Fluoride	mg/l	---	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0
Laboratory pH	s.u.	8.5	0	1	0
Nitrate/Nitrite as N	mg/l	100	0	0	0
Silica as SiO_2	mg/l	---	0	0	0
Total Dissolved Solids	mg/l	5000	2	0	0
Major Ions					
Calcium	mg/l	---	0	0	0
Magnesium	mg/l	---	0	0	0
Potassium	mg/l	---	0	0	0
Sodium	mg/l	---	0	0	0
Bicarbonate	mg/l	---	0	0	0
Carbonate	mg/l	---	0	0	0
Chloride	mg/l	2000	0	0	0
Sulfate	mg/l	3000	2	0	1
Metals					
Aluminum, dissolved	mg/l	5.0	0	0	0
Arsenic, dissolved	mg/l	0.2	0	0	0
Barium, dissolved	mg/l	---	0	0	0
Boron, dissolved	mg/l	5	0	0	0
Cadmium, dissolved	mg/l	0.05	0	0	0
Chromium, dissolved	mg/l	0.05	0	0	0
Copper, dissolved	mg/l	0.5	0	0	0
Iron, dissolved	mg/l	---	0	0	0
Iron, total	mg/l	---	0	0	0
Lead, dissolved	mg/l	0.1	0	0	0
Manganese, dissolved	mg/l	---	0	0	0
Manganese, total	mg/l	---	0	0	0
Mercury, dissolved	mg/l	0.00005	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0
Nickel, dissolved	mg/l	---	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0
Silver, dissolved	mg/l	---	0	0	0
Uranium, dissolved	mg/l	---	0	0	0
Uranium, suspended	mg/l	---	0	0	0
Vanadium, dissolved	mg/l	0.1	0	0	0
Zinc, dissolved	mg/l	25	0	0	0
Radiologic					
Gross alpha	pCi/l	15	2	0	0
Gross beta	pCi/l	---	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0
Radium-228, dissolved	pCi/l	---	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0
Radon-222	pCi/l	---	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

Table 5. SA Comparison to WDEQ/WQD Class of Use Standards and EPA MCLs (Cont.)

Parameter	Units	MCL	EPA Primary MCLs			Parameter	Units	Standard	EPA Secondary Standards		
			MU1-SA1	MU1-SA2	MU1-SA3				MU1-SA1	MU1-SA2	MU1-SA3
General						**General**					
Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0	Alkalinity (as $CaCO_3$)	mg/l	---	0	0	0
Ammonia as N	mg/l	---	0	0	0	Ammonia as N	mg/l	---	0	0	0
Fluoride	mg/l	4.0	0	0	0	Fluoride	mg/l	2.0	0	0	0
Laboratory conductivity	µmhos/cm	---	0	0	0	Laboratory conductivity	µmhos/cm	---	0	0	0
Laboratory pH	s.u.	---	0	0	0	Laboratory pH	s.u.	8.5	1	2	1
Nitrate/Nitrite as N	mg/l	10.0	0	0	0	Nitrate/Nitrite as N	mg/l	---	0	0	0
Silica as SiO_2	mg/l	---	0	0	0	Silica as SiO_2	mg/l	---	0	0	0
Total Dissolved Solids	mg/l	---	0	0	0	Total Dissolved Solids	mg/l	500	2	2	2
Major Ions						**Major Ions**					
Calcium	mg/l	---	0	0	0	Calcium	mg/l	---	0	0	0
Magnesium	mg/l	---	0	0	0	Magnesium	mg/l	---	0	0	0
Potassium	mg/l	---	0	0	0	Potassium	mg/l	---	0	0	0
Sodium	mg/l	---	0	0	0	Sodium	mg/l	---	0	0	0
Bicarbonate	mg/l	---	0	0	0	Bicarbonate	mg/l	---	0	0	0
Carbonate	mg/l	---	0	0	0	Carbonate	mg/l	---	0	0	0
Chloride	mg/l	---	0	0	0	Chloride	mg/l	250	0	0	0
Sulfate	mg/l	---	0	0	0	Sulfate	mg/l	250	2	0	0
Metals						**Metals**					
Aluminum, dissolved	mg/l	---	0	0	0	Aluminum, dissolved	mg/l	0.05	1	2	2
Arsenic, dissolved	mg/l	0.01	0	0	0	Arsenic, dissolved	mg/l	---	0	0	0
Barium, dissolved	mg/l	2.0	0	0	0	Barium, dissolved	mg/l	---	0	0	0
Boron, dissolved	mg/l	---	0	0	0	Boron, dissolved	mg/l	---	0	0	0
Cadmium, dissolved	mg/l	0.005	0	0	0	Cadmium, dissolved	mg/l	---	0	0	0
Chromium, dissolved	mg/l	0.1	0	0	0	Chromium, dissolved	mg/l	---	0	0	0
Copper, dissolved	mg/l	1.3	0	0	0	Copper, dissolved	mg/l	1.0	0	0	0
Iron, dissolved	mg/l	---	0	0	0	Iron, dissolved	mg/l	0.3	0	0	0
Iron, total	mg/l	---	0	0	0	Iron, total	mg/l	---	0	0	0
Lead, dissolved	mg/l	0.015	0	0	0	Lead, dissolved	mg/l	---	0	0	0
Manganese, dissolved	mg/l	---	0	0	0	Manganese, dissolved	mg/l	0.05	0	0	0
Manganese, total	mg/l	---	0	0	0	Manganese, total	mg/l	---	0	0	0
Mercury, dissolved	mg/l	0.002	0	0	0	Mercury, dissolved	mg/l	---	0	0	0
Molybdenum, dissolved	mg/l	---	0	0	0	Molybdenum, dissolved	mg/l	---	0	0	0
Nickel, dissolved	mg/l	---	0	0	0	Nickel, dissolved	mg/l	---	0	0	0
Selenium, dissolved	mg/l	0.05	0	0	0	Selenium, dissolved	mg/l	---	0	0	0
Silver, dissolved	mg/l	---	0	0	0	Silver, dissolved	mg/l	0.1	0	0	0
Uranium, dissolved	mg/l	0.03	2	0	0	Uranium, dissolved	mg/l	---	0	0	0
Uranium, suspended	mg/l	---	0	0	0	Uranium, suspended	mg/l	---	0	0	0
Vanadium, dissolved	mg/l	---	0	0	0	Vanadium, dissolved	mg/l	---	0	0	0
Zinc, dissolved	mg/l	---	0	0	0	Zinc, dissolved	mg/l	5.0	0	0	0
Radiologic						**Radiologic**					
Gross alpha	pCi/l	15	2	0	0	Gross alpha	pCi/l	---	0	0	0
Gross beta	pCi/l	---	0	0	0	Gross beta	pCi/l	---	0	0	0
Lead-210, dissolved	pCi/l	---	0	0	0	Lead-210, dissolved	pCi/l	---	0	0	0
Lead-210, suspended	pCi/l	---	0	0	0	Lead-210, suspended	pCi/l	---	0	0	0
Polonium-210, dissolved	pCi/l	---	0	0	0	Polonium-210, dissolved	pCi/l	---	0	0	0
Polonium-210, suspended	pCi/l	---	0	0	0	Polonium-210, suspended	pCi/l	---	0	0	0
Radium-226, dissolved	pCi/l	5	0	0	0	Radium-226, dissolved	pCi/l	---	0	0	0
Radium-226, suspended	pCi/l	---	0	0	0	Radium-226, suspended	pCi/l	---	0	0	0
Radium-228, dissolved	pCi/l	5	0	0	0	Radium-228, dissolved	pCi/l	---	0	0	0
Thorium-230, dissolved	pCi/l	---	0	0	0	Thorium-230, dissolved	pCi/l	---	0	0	0
Thorium-230, suspended	pCi/l	---	0	0	0	Thorium-230, suspended	pCi/l	---	0	0	0
Radon-222	pCi/l	---	0	0	0	Radon-222	pCi/l	---	0	0	0

Note: Values represent number of sample results from each well that exceed the applicable standard.

ATTACHMENT 12

MU1 TRV Calculations

Table 1. Summary Calculations of Proposed Target Restoration Values for Mine Unit 1

Parameter	Units	Detection Frequency	Average Background Concentration	Approximate Data Distribution	95% UTL[1]	Calculation Method	Table 5C Value[2]	Proposed TRV[3]
Alkalinity, Total (as $CaCO_3$)	mg/L	100%	538.7	Normal	630	95% UTL, ProUCL	---	630
Ammonia as N	mg/L	100%	0.47	Normal	0.7	95% UTL, ProUCL	---	0.7
Fluoride	mg/L	100%	0.27	Normal	0.5	95% UTL, ProUCL	---	0.5
Silica (as SiO_2)	mg/L	100%	8.4	Normal	9.6	95% UTL, ProUCL	---	9.6
Conductivity, Laboratory	µmhos/cm	100%	2,572	Normal	3,545	95% UTL, ProUCL	---	3,545
pH, Laboratory	s.u.	100%	8.8	Normal	9.4	95% UTL, ProUCL	---	9.4
Nitrate/Nitrite as N	mg/L	3%	<0.1	Undefined	1.0	UTL, non-parametric	---	1.0
Total Dissolved Solids	mg/L	100%	1,744	Normal	2,485	95% UTL, ProUCL	---	2,485
Calcium	mg/L	100%	6.93	Normal	11	95% UTL, ProUCL	---	11
Magnesium	mg/L	99%	2.65	Normal	5	95% UTL, ProUCL	---	5
Potassium	mg/L	100%	7.82	Lognormal	16	95% UTL, ProUCL	---	16
Sodium	mg/L	100%	620	Normal	849	95% UTL, ProUCL	---	849
Bicarbonate	mg/L	100%	580	Normal	714	95% UTL, ProUCL	---	714
Carbonate	mg/L	100%	38.5	Lognormal	78	95% UTL, ProUCL	---	78
Chloride	mg/L	100%	7.47	Lognormal	17	95% UTL, ProUCL	---	17
Sulfate	mg/L	100%	729	Lognormal	1,343	95% UTL, ProUCL	---	1,343
Aluminum, dissolved	mg/L	1%	<0.1	Undefined	0.2	UTL, non-parametric	---	0.2
Arsenic, dissolved	mg/L	0%	<0.005	Undefined	0.005	UTL, non-parametric	0.05	0.05
Barium, dissolved	mg/L	0%	<0.5	Undefined	0.5	UTL, non-parametric	1.0	1.0
Boron, dissolved	mg/L	100%	0.35	Normal	0.5	95% UTL, ProUCL	---	0.5
Cadmium, dissolved	mg/L	0%	<0.002	Undefined	0.002	UTL, non-parametric	0.01	0.01
Chromium, dissolved	mg/L	0%	<0.01	Undefined	0.01	UTL, non-parametric	0.05	0.05
Copper, dissolved	mg/L	0%	<0.01	Undefined	0.01	UTL, non-parametric	---	0.01
Iron, dissolved	mg/L	2%	<0.05	Undefined	0.08	UTL, non-parametric	---	0.08
Mercury, dissolved	mg/L	0%	<0.001	Undefined	0.001	UTL, non-parametric	0.002	0.002
Manganese, dissolved	mg/L	4%	<0.02	Undefined	0.03	UTL, non-parametric	---	0.03
Molybdenum, dissolved	mg/L	0%	<0.02	Undefined	0.02	UTL, non-parametric	---	0.02

Table 1. Summary Calculations of Proposed Target Restoration Values for Mine Unit 1 (Cont.)

Parameter	Units	Detection Frequency	Average Background Concentration	Approximate Data Distribution	95% UTL[1]	Calculation Method	Table 5C Value[2]	Proposed TRV[3]
Nickel, dissolved	mg/L	0%	<0.01	Undefined	0.01	UTL, non-parametric	---	0.01
Selenium, dissolved	mg/L	0%	<0.005	Undefined	0.005	UTL, non-parametric	0.01	0.01
Uranium, dissolved	mg/L	100%	0.0801	Normal	0.23	95% UTL, ProUCL	---	0.23
Vanadium, dissolved	mg/L	3%	<0.02	Undefined	0.03	UTL, non-parametric	---	0.03
Zinc, dissolved	mg/L	2%	0.01	Undefined	0.01	UTL, non-parametric	---	0.01
Radium-226, dissolved	pCi/L	98%	29.2	Lognormal	260	UTL, non-parametric	5 [4]	260
Radium-228, dissolved	pCi/L	7%	<1	Undefined	2.0	UTL, non-parametric	---	2.0
Gross Alpha	pCi/L	99%	161.1	Lognormal	717	UTL, non-parametric	15	717

[1] Upper tolerance limit (UTL) calculated based on average pre-operational water quality and variability in each parameter at 95% confidence level.

[2] 10 CFR Part 40, Appendix A, Table 5C maximum contaminant level.

[3] Proposed target restoration values (TRVs) are the proposed groundwater protection standards established pursuant to license condition 10.6 of SUA-1601 and 10 CFR Part 40, Appendix A, Criterion 5B(5).

[4] Table 5C value is for combined radium-226 and 228.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	533	14-May	535	28-May	564	11-Jun	551
MU1-OZ2	29-Apr	546	13-May	536	27-May	543	10-Jun	551
MU1-OZ3	21-Apr	461	14-May	477	28-May	501	11-Jun	498
MU1-OZ4	22-Apr	527	13-May	540	27-May	539	10-Jun	561
MU1-OZ6	20-Apr	413	14-May	421	28-May	436	11-Jun	447
MU1-OZ7	28-Apr	516	15-May	642	29-May	512	12-Jun	528
MU1-OZ8	22-Apr	549	15-May	552	29-May	557	12-Jun	562
MU1-OZ9	24-Apr	545	13-May	554	27-May	576	10-Jun	559
MU1-OZ10	23-Apr	528	14-May	527	28-May	536	15-Jun	534
MU1-OZ11	29-Apr	542	13-May	566	27-May	536	10-Jun	537
MU1-OZ12	29-Apr	541	14-May	513	29-May	515	11-Jun	521
MU1-OZ13	29-Apr	504	14-May	494	1-Jun	520	15-Jun	504
MU1-OZ14	20-Apr	582	15-May	603	29-May	538	12-Jun	566
MU1-OZ15	21-Apr	515	14-May	518	28-May	562	11-Jun	528
MU1-OZ16	21-Apr	494	13-May	485	27-May	523	10-Jun	534
MU1-OZ17	24-Apr	566	15-May	571	29-May	578	12-Jun	574
MU1-OZ18	23-Apr	562	14-May	568	28-May	577	11-Jun	579
MU1-OZ19	22-Apr	568	15-May	606	29-May	541	12-Jun	540
MU1-OZ20	29-Apr	562	13-May	543	27-May	541	10-Jun	547
MU1-OZ21	29-Apr	538	14-May	574	28-May	569	11-Jun	544
MU1-OZ22	23-Apr	552	18-May	550	1-Jun	566	15-Jun	573
MU1-OZ23	29-Apr	562	14-May	563	28-May	556	11-Jun	560
MU1-OZ24	23-Apr	560	14-May	536	28-May	693	11-Jun	549
MU1-OZ25	23-Apr	530	14-May	541	28-May	558	11-Jun	542
MU1-OZ26	20-Apr	545	13-May	546	27-May	538	10-Jun	561

Outlier removed from data set.

Note: all dates are 2015.

Number of data:	98
Number of detectable values:	98
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	538.7
Standard deviation:	33.94
k factor, ProUCL (α = 0.05, p = 0.99):	2.684
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.9384
95% UTL, ProUCL:	630
95% UTL, Guideline 4:	638

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Ammonia (mg/L as N)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.5	14-May	0.5	28-May	0.4	11-Jun	0.4
MU1-OZ2	29-Apr	0.4	13-May	0.5	27-May	0.4	10-Jun	0.4
MU1-OZ3	21-Apr	0.8	14-May	0.7	28-May	0.6	11-Jun	0.6
MU1-OZ4	22-Apr	0.4	13-May	0.5	27-May	0.5	10-Jun	0.4
MU1-OZ6	20-Apr	0.5	14-May	0.6	28-May	0.5	11-Jun	0.5
MU1-OZ7	28-Apr	0.8	15-May	0.6	29-May	0.6	12-Jun	0.6
MU1-OZ8	22-Apr	0.4	15-May	0.3	29-May	0.4	12-Jun	0.4
MU1-OZ9	24-Apr	0.4	13-May	0.4	27-May	0.4	10-Jun	0.4
MU1-OZ10	23-Apr	0.5	14-May	0.4	28-May	0.4	15-Jun	0.5
MU1-OZ11	29-Apr	0.7	13-May	0.4	27-May	0.4	10-Jun	0.6
MU1-OZ12	29-Apr	0.7	14-May	0.5	29-May	0.5	11-Jun	0.5
MU1-OZ13	29-Apr	0.4	14-May	0.5	1-Jun	0.5	15-Jun	0.6
MU1-OZ14	20-Apr	0.6	15-May	0.5	29-May	0.4	12-Jun	0.4
MU1-OZ15	21-Apr	0.4	14-May	0.5	28-May	0.4	11-Jun	0.4
MU1-OZ16	21-Apr	0.4	13-May	0.3	27-May	0.4	10-Jun	0.4
MU1-OZ17	24-Apr	0.7	15-May	0.6	29-May	0.4	12-Jun	0.5
MU1-OZ18	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ19	22-Apr	0.3	15-May	0.3	29-May	0.4	12-Jun	0.4
MU1-OZ20	29-Apr	0.4	13-May	0.5	27-May	0.4	10-Jun	0.4
MU1-OZ21	29-Apr	0.4	14-May	0.5	28-May	0.4	11-Jun	0.4
MU1-OZ22	23-Apr	0.3	18-May	0.4	1-Jun	0.3	15-Jun	0.3
MU1-OZ23	29-Apr	0.6	14-May	0.6	28-May	0.5	11-Jun	0.4
MU1-OZ24	23-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.4
MU1-OZ25	23-Apr	0.5	14-May	0.5	28-May	0.5	11-Jun	0.5
MU1-OZ26	20-Apr	0.5	13-May	0.5	27-May	0.4	10-Jun	0.4

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	0.47
Standard deviation:	0.10
k factor, ProUCL (α = 0.05, p = 0.99):	2.680
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL:	0.7
95% UTL, Guideline 4:	0.8

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Fluoride (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ2	29-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ3	21-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ4	22-Apr	0.2	13-May	0.3	27-May	0.2	10-Jun	0.2
MU1-OZ6	20-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ7	28-Apr	0.2	15-May	0.8	29-May	0.1	12-Jun	0.2
MU1-OZ8	22-Apr	0.3	15-May	0.3	29-May	0.2	12-Jun	0.2
MU1-OZ9	24-Apr	0.2	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ10	23-Apr	0.3	14-May	0.3	28-May	0.4	15-Jun	0.3
MU1-OZ11	29-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ12	29-Apr	0.2	14-May	0.2	29-May	0.8	11-Jun	0.2
MU1-OZ13	29-Apr	0.2	14-May	0.2	1-Jun	0.2	15-Jun	0.2
MU1-OZ14	20-Apr	0.3	15-May	0.4	29-May	0.3	12-Jun	0.3
MU1-OZ15	21-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ16	21-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ17	24-Apr	0.2	15-May	0.2	29-May	0.2	12-Jun	0.2
MU1-OZ18	23-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ19	22-Apr	0.2	15-May	0.2	29-May	0.2	12-Jun	0.2
MU1-OZ20	29-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.3
MU1-OZ21	29-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ22	23-Apr	0.3	18-May	0.4	1-Jun	0.3	15-Jun	0.3
MU1-OZ23	29-Apr	0.2	14-May	0.2	28-May	0.2	11-Jun	0.2
MU1-OZ24	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ25	23-Apr	0.3	14-May	0.4	28-May	0.2	11-Jun	0.4
MU1-OZ26	20-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3

Outlier removed from data set.

Note: all dates are 2015.

Number of data:	98
Number of detectable values:	98
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	0.27
Standard deviation:	0.074
k factor, ProUCL (α = 0.05, p = 0.99):	2.684
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.9384
95% UTL, ProUCL:	0.5
95% UTL, Guideline 4:	0.5

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Silica (mg/L as SiO_2)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1							11-Jun	8.1
MU1-OZ2							10-Jun	8.5
MU1-OZ3							11-Jun	8.0
MU1-OZ4							10-Jun	8.4
MU1-OZ6							11-Jun	7.6
MU1-OZ7							12-Jun	8.5
MU1-OZ8							12-Jun	7.8
MU1-OZ9							10-Jun	8.9
MU1-OZ10							15-Jun	8.3
MU1-OZ11							10-Jun	9.3
MU1-OZ12							11-Jun	8.3
MU1-OZ13	Not measured		Not measured		Not measured		15-Jun	8.7
MU1-OZ14							12-Jun	8.6
MU1-OZ15							11-Jun	8.5
MU1-OZ16							10-Jun	8.8
MU1-OZ17							12-Jun	8.1
MU1-OZ18							11-Jun	7.7
MU1-OZ19							12-Jun	8.3
MU1-OZ20							10-Jun	8.6
MU1-OZ21							11-Jun	8.1
MU1-OZ22							15-Jun	8.3
MU1-OZ23							11-Jun	8.4
MU1-OZ24							11-Jun	8.4
MU1-OZ25							11-Jun	8.3
MU1-OZ26							10-Jun	8.6

Note: all dates are 2015.

Number of data:	25
Number of detectable values:	25
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	8.4
Standard deviation:	0.38
k factor, ProUCL (α = 0.05, p = 0.99):	3.158
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	3.457
95% UTL, ProUCL:	9.6
95% UTL, Guideline 4:	9.7

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Conductivity, Laboratory (µmhos/cm)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	2,710	14-May	2,570	28-May	2,450	11-Jun	2,560
MU1-OZ2	29-Apr	2,230	13-May	2,320	27-May	2,200	10-Jun	2,340
MU1-OZ3	21-Apr	3,370	14-May	3,320	28-May	3,150	11-Jun	3,270
MU1-OZ4	22-Apr	2,350	13-May	2,390	27-May	2,240	10-Jun	2,370
MU1-OZ6	20-Apr	3,570	14-May	3,630	28-May	3,380	11-Jun	3,560
MU1-OZ7	28-Apr	2,840	15-May	2,790	29-May	2,780	12-Jun	2,840
MU1-OZ8	22-Apr	2,190	15-May	2,160	29-May	2,120	12-Jun	2,160
MU1-OZ9	24-Apr	2,220	13-May	2,380	27-May	2,210	10-Jun	2,350
MU1-OZ10	23-Apr	2,620	14-May	2,640	28-May	2,610	15-Jun	2,590
MU1-OZ11	29-Apr	2,790	13-May	2,810	27-May	2,660	10-Jun	2,790
MU1-OZ12	29-Apr	2,820	14-May	2,740	29-May	2,680	11-Jun	2,830
MU1-OZ13	29-Apr	3,360	14-May	3,290	1-Jun	3,200	15-Jun	3,220
MU1-OZ14	20-Apr	2,250	15-May	2,120	29-May	2,170	12-Jun	2,190
MU1-OZ15	21-Apr	2,690	14-May	2,740	28-May	2,590	11-Jun	2,680
MU1-OZ16	21-Apr	2,460	13-May	2,240	27-May	2,370	10-Jun	2,520
MU1-OZ17	24-Apr	2,340	15-May	2,350	29-May	2,320	12-Jun	2,350
MU1-OZ18	23-Apr	2,420	14-May	2,500	28-May	2,380	11-Jun	2,520
MU1-OZ19	22-Apr	2,840	15-May	2,650	29-May	2,610	12-Jun	2,580
MU1-OZ20	29-Apr	2,440	13-May	2,440	27-May	2,310	10-Jun	2,470
MU1-OZ21	29-Apr	2,510	14-May	2,520	28-May	2,450	11-Jun	2,570
MU1-OZ22	23-Apr	1,990	18-May	2,030	1-Jun	1,970	15-Jun	2,010
MU1-OZ23	29-Apr	2,370	14-May	2,460	28-May	2,240	11-Jun	2,330
MU1-OZ24	23-Apr	2,530	14-May	2,630	28-May	2,530	11-Jun	2,650
MU1-OZ25	23-Apr	2,640	14-May	2,800	28-May	2,580	11-Jun	2,610
MU1-OZ26	20-Apr	2,400	13-May	2,470	27-May	2,280	10-Jun	2,430

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	2,572
Standard deviation:	362.9
k factor, ProUCL (α = 0.05, p = 0.99):	2.68
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL:	3,545
95% UTL, Guideline 4:	3,637

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **pH, Laboratory (s.u.)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	8.7	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ2	29-Apr	8.8	13-May	8.7	27-May	8.7	10-Jun	8.7
MU1-OZ3	21-Apr	8.8	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ4	22-Apr	8.8	13-May	8.8	27-May	8.8	10-Jun	8.8
MU1-OZ6	20-Apr	9.0	14-May	9.1	28-May	9.0	11-Jun	9.0
MU1-OZ7	28-Apr	8.7	15-May	8.9	29-May	8.6	12-Jun	8.6
MU1-OZ8	22-Apr	8.8	15-May	8.8	29-May	8.7	12-Jun	8.8
MU1-OZ9	24-Apr	9.1	13-May	9.1	27-May	9.0	10-Jun	9.0
MU1-OZ10	23-Apr	8.8	14-May	8.8	28-May	8.8	15-Jun	8.7
MU1-OZ11	29-Apr	9.0	13-May	8.8	27-May	8.8	10-Jun	8.7
MU1-OZ12	29-Apr	8.9	14-May	8.6	29-May	8.6	11-Jun	8.7
MU1-OZ13	29-Apr	9.2	14-May	9.1	1-Jun	8.8	15-Jun	8.7
MU1-OZ14	20-Apr	8.9	15-May	9.7	29-May	8.8	12-Jun	8.8
MU1-OZ15	21-Apr	8.8	14-May	8.9	28-May	8.8	11-Jun	8.8
MU1-OZ16	21-Apr	9.3	13-May	9.2	27-May	8.8	10-Jun	8.8
MU1-OZ17	24-Apr	8.8	15-May	8.8	29-May	8.7	12-Jun	8.7
MU1-OZ18	23-Apr	8.8	14-May	8.8	28-May	8.7	11-Jun	8.8
MU1-OZ19	22-Apr	9.3	15-May	9.1	29-May	8.9	12-Jun	8.9
MU1-OZ20	29-Apr	9.0	13-May	8.7	27-May	8.7	10-Jun	8.7
MU1-OZ21	29-Apr	8.9	14-May	8.9	28-May	8.7	11-Jun	8.8
MU1-OZ22	23-Apr	8.8	18-May	8.7	1-Jun	8.7	15-Jun	8.8
MU1-OZ23	29-Apr	8.9	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ24	23-Apr	8.7	14-May	8.7	28-May	8.8	11-Jun	8.7
MU1-OZ25	23-Apr	8.7	14-May	8.8	28-May	8.7	11-Jun	8.7
MU1-OZ26	20-Apr	8.7	13-May	8.8	27-May	8.7	10-Jun	8.7

Outlier removed from data set.

Note: all dates are 2015.

Number of data:	99
Number of detectable values:	99
Detection frequency:	100%
Approximate distribution*:	Normal*
Average background H^+ concentration:	1.6E-09
Average background concentration*:	8.8
Standard deviation*:	4.5E-10
k factor, ProUCL* (α = 0.05, p = 0.99):	2.682
k factor, LQD Guideline 4* (α = 0.05, p = 0.99):	2.9362
95% UTL, ProUCL*:	9.4
95% UTL, Guideline 4*:	9.5

* Calculated using hydrogen ion (H+) concentrations.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Nitrate/Nitrite (mg/L as N)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ2	29-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ3	21-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ4	22-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ6	20-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ7	28-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ8	22-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ9	24-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ10	23-Apr	<0.1	14-May	<0.1	28-May	<0.1	15-Jun	<0.1
MU1-OZ11	29-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ12	29-Apr	<0.1	14-May	<0.1	29-May	<0.1	11-Jun	<0.1
MU1-OZ13	29-Apr	<0.1	14-May	<0.1	1-Jun	<0.1	15-Jun	<0.1
MU1-OZ14	20-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ15	21-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ16	21-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	1.0
MU1-OZ17	24-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ18	23-Apr	0.4	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ19	22-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ20	29-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ21	29-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ22	23-Apr	<0.1	18-May	<0.1	1-Jun	0.2	15-Jun	<0.1
MU1-OZ23	29-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ24	23-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ25	23-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ26	20-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	3
Detection frequency:	3%
Approximate distribution:	Undefined
Average background concentration:	<0.1
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	1.0
95% UTL, Guideline 4:	nc

nc - not calculated.

* Largest detectable value used due to low number of detections.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Total Dissolved Solids, TDS (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	1,680	14-May	1,690	28-May	1,740	11-Jun	1,720
MU1-OZ2	29-Apr	1,560	13-May	1,470	27-May	1,530	10-Jun	1,480
MU1-OZ3	21-Apr	2,320	14-May	2,270	28-May	2,260	11-Jun	2,260
MU1-OZ4	22-Apr	1,520	13-May	1,500	27-May	1,550	10-Jun	1,500
MU1-OZ6	20-Apr	2,520	14-May	2,430	28-May	2,470	11-Jun	2,460
MU1-OZ7	28-Apr	2,000	15-May	1,970	29-May	1,950	12-Jun	1,930
MU1-OZ8	22-Apr	1,440	15-May	1,440	29-May	1,440	12-Jun	1,450
MU1-OZ9	24-Apr	1,730	13-May	1,460	27-May	1,520	10-Jun	1,490
MU1-OZ10	23-Apr	1,600	14-May	1,840	28-May	1,830	15-Jun	1,790
MU1-OZ11	29-Apr	1,880	13-May	1,820	27-May	1,860	10-Jun	1,820
MU1-OZ12	29-Apr	1,920	14-May	1,930	29-May	1,870	11-Jun	1,900
MU1-OZ13	29-Apr	2,320	14-May	2,320	1-Jun	2,330	15-Jun	2,280
MU1-OZ14	20-Apr	1,480	15-May	1,500	29-May	1,490	12-Jun	1,480
MU1-OZ15	21-Apr	1,640	14-May	1,720	28-May	1,840	11-Jun	1,780
MU1-OZ16	21-Apr	1,620	13-May	1,460	27-May	1,660	10-Jun	1,590
MU1-OZ17	24-Apr	1,770	15-May	1,580	29-May	1,570	12-Jun	1,560
MU1-OZ18	23-Apr	1,940	14-May	1,630	28-May	1,640	11-Jun	1,660
MU1-OZ19	22-Apr	1,760	15-May	1,850	29-May	1,780	12-Jun	1,760
MU1-OZ20	29-Apr	1,630	13-May	1,540	27-May	1,610	10-Jun	1,560
MU1-OZ21	29-Apr	1,770	14-May	1,640	28-May	1,720	11-Jun	1,720
MU1-OZ22	23-Apr	1,480	18-May	1,350	1-Jun	1,350	15-Jun	1,340
MU1-OZ23	29-Apr	1,660	14-May	1,560	28-May	1,540	11-Jun	1,540
MU1-OZ24	23-Apr	2,060	14-May	1,720	28-May	1,800	11-Jun	1,750
MU1-OZ25	23-Apr	1,580	14-May	1,770	28-May	1,840	11-Jun	1,780
MU1-OZ26	20-Apr	1,610	13-May	1,550	27-May	1,590	10-Jun	1,550

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	1,744
Standard deviation:	276
k factor, ProUCL (α = 0.05, p = 0.99):	2.680
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL:	2,485
95% UTL, Guideline 4:	2,555

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Calcium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	7	14-May	7	28-May	7	11-Jun	7
MU1-OZ2	29-Apr	6	13-May	7	27-May	6	10-Jun	7
MU1-OZ3	21-Apr	8	14-May	9	28-May	10	11-Jun	11
MU1-OZ4	22-Apr	7	13-May	7	27-May	7	10-Jun	8
MU1-OZ6	20-Apr	6	14-May	6	28-May	6	11-Jun	6
MU1-OZ7	28-Apr	10	15-May	11	29-May	10	12-Jun	12
MU1-OZ8	22-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ9	24-Apr	5	13-May	4	27-May	4	10-Jun	5
MU1-OZ10	23-Apr	5	14-May	6	28-May	5	15-Jun	7
MU1-OZ11	29-Apr	9	13-May	9	27-May	9	10-Jun	10
MU1-OZ12	29-Apr	8	14-May	9	29-May	9	11-Jun	9
MU1-OZ13	29-Apr	6	14-May	6	1-Jun	8	15-Jun	10
MU1-OZ14	20-Apr	5	15-May	6	29-May	5	12-Jun	6
MU1-OZ15	21-Apr	8	14-May	7	28-May	8	11-Jun	7
MU1-OZ16	21-Apr	5	13-May	4	27-May	5	10-Jun	6
MU1-OZ17	24-Apr	6	15-May	6	29-May	6	12-Jun	6
MU1-OZ18	23-Apr	6	14-May	6	28-May	6	11-Jun	6
MU1-OZ19	22-Apr	6	15-May	6	29-May	5	12-Jun	6
MU1-OZ20	29-Apr	7	13-May	6	27-May	7	10-Jun	7
MU1-OZ21	29-Apr	8	14-May	6	28-May	8	11-Jun	8
MU1-OZ22	23-Apr	5	18-May	5	1-Jun	5	15-Jun	5
MU1-OZ23	29-Apr	9	14-May	8	28-May	8	11-Jun	8
MU1-OZ24	23-Apr	7	14-May	8	28-May	8	11-Jun	8
MU1-OZ25	23-Apr	8	14-May	8	28-May	8	11-Jun	8
MU1-OZ26	20-Apr	6	13-May	6	27-May	7	10-Jun	7

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	6.93
Standard deviation:	1.67
k factor, ProUCL (α = 0.05, p = 0.99):	2.680
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL:	11
95% UTL, Guideline 4:	12

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Magnesium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ2	29-Apr	2	13-May	2	27-May	2	10-Jun	3
MU1-OZ3	21-Apr	3	14-May	5	28-May	4	11-Jun	4
MU1-OZ4	22-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-OZ6	20-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ7	28-Apr	4	15-May	4	29-May	4	12-Jun	4
MU1-OZ8	22-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-OZ9	24-Apr	1	13-May	1	27-May	2	10-Jun	2
MU1-OZ10	23-Apr	2	14-May	2	28-May	2	15-Jun	3
MU1-OZ11	29-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-OZ12	29-Apr	3	14-May	3	29-May	3	11-Jun	3
MU1-OZ13	29-Apr	1	14-May	2	1-Jun	3	15-Jun	4
MU1-OZ14	20-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-OZ15	21-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ16	21-Apr	1	13-May	1	27-May	2	10-Jun	2
MU1-OZ17	24-Apr	2	15-May	2	29-May	2	12-Jun	2
MU1-OZ18	23-Apr	2	14-May	3	28-May	3	11-Jun	3
MU1-OZ19	22-Apr	<1	15-May	1	29-May	2	12-Jun	2
MU1-OZ20	29-Apr	3	13-May	3	27-May	3	10-Jun	3
MU1-OZ21	29-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ22	23-Apr	2	18-May	2	1-Jun	2	15-Jun	2
MU1-OZ23	29-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ24	23-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ25	23-Apr	3	14-May	3	28-May	3	11-Jun	3
MU1-OZ26	20-Apr	3	13-May	3	27-May	3	10-Jun	3

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	99
Detection frequency:	99%
Approximate distribution:	Normal
Average background concentration*:	2.65
Standard deviation*:	0.77
k factor, ProUCL* (α = 0.05, p = 0.99):	2.68
k factor, LQD Guideline 4* (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL*:	5
95% UTL, Guideline 4*:	5

* Calculated using DL/2 substitution for non-detects since detection frequency is between 85% and 100%.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Potassium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	8	14-May	7	28-May	6	11-Jun	5
MU1-OZ2	29-Apr	6	13-May	5	27-May	5	10-Jun	6
MU1-OZ3	21-Apr	9	14-May	8	28-May	9	11-Jun	8
MU1-OZ4	22-Apr	6	13-May	6	27-May	6	10-Jun	6
MU1-OZ6	20-Apr	13	14-May	12	28-May	12	11-Jun	11
MU1-OZ7	28-Apr	8	15-May	7	29-May	7	12-Jun	7
MU1-OZ8	22-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ9	24-Apr	11	13-May	11	27-May	11	10-Jun	10
MU1-OZ10	23-Apr	9	14-May	9	28-May	8	15-Jun	7
MU1-OZ11	29-Apr	6	13-May	6	27-May	6	10-Jun	6
MU1-OZ12	29-Apr	8	14-May	7	29-May	6	11-Jun	6
MU1-OZ13	29-Apr	16	14-May	16	1-Jun	12	15-Jun	10
MU1-OZ14	20-Apr	8	15-May	6	29-May	6	12-Jun	6
MU1-OZ15	21-Apr	7	14-May	7	28-May	7	11-Jun	7
MU1-OZ16	21-Apr	9	13-May	7	27-May	7	10-Jun	6
MU1-OZ17	24-Apr	6	15-May	6	29-May	6	12-Jun	6
MU1-OZ18	23-Apr	9	14-May	10	28-May	9	11-Jun	8
MU1-OZ19	22-Apr	29	15-May	20	29-May	15	12-Jun	13
MU1-OZ20	29-Apr	8	13-May	7	27-May	7	10-Jun	7
MU1-OZ21	29-Apr	10	14-May	11	28-May	8	11-Jun	7
MU1-OZ22	23-Apr	7	18-May	7	1-Jun	7	15-Jun	7
MU1-OZ23	29-Apr	10	14-May	8	28-May	6	11-Jun	5
MU1-OZ24	23-Apr	7	14-May	7	28-May	7	11-Jun	6
MU1-OZ25	23-Apr	10	14-May	9	28-May	8	11-Jun	8
MU1-OZ26	20-Apr	8	13-May	7	27-May	6	10-Jun	6

Outlier removed from data set.

Note: all dates are 2015.

Number of data:	98
Number of detectable values:	98
Detection frequency:	100%
Approximate distribution:	Lognormal
Average background concentration:	7.82
Standard deviation:	2.37
Mean of logged data*:	2.02
Standard deviation of logged data*:	0.271
k factor, ProUCL* ($\alpha = 0.05$, $p = 0.99$):	2.684
k factor, LQD Guideline 4 ($\alpha = 0.05$, $p = 0.99$):	nc
95% UTL, ProUCL*:	16
95% UTL, Guideline 4:	nc

* Calculated using natural logarithm of concentration values.

nc - not calculated due to data distribution; Guideline 4 method assumes data are normally distributed.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Sodium (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	607	14-May	621	28-May	620	11-Jun	624
MU1-OZ2	29-Apr	540	13-May	548	27-May	560	10-Jun	565
MU1-OZ3	21-Apr	805	14-May	768	28-May	750	11-Jun	788
MU1-OZ4	22-Apr	544	13-May	567	27-May	545	10-Jun	566
MU1-OZ6	20-Apr	844	14-May	824	28-May	829	11-Jun	867
MU1-OZ7	28-Apr	694	15-May	697	29-May	676	12-Jun	701
MU1-OZ8	22-Apr	517	15-May	535	29-May	520	12-Jun	557
MU1-OZ9	24-Apr	515	13-May	556	27-May	567	10-Jun	565
MU1-OZ10	23-Apr	598	14-May	634	28-May	652	15-Jun	636
MU1-OZ11	29-Apr	645	13-May	659	27-May	667	10-Jun	664
MU1-OZ12	29-Apr	652	14-May	665	29-May	663	11-Jun	685
MU1-OZ13	29-Apr	813	14-May	781	1-Jun	789	15-Jun	793
MU1-OZ14	20-Apr	571	15-May	550	29-May	533	12-Jun	544
MU1-OZ15	21-Apr	625	14-May	635	28-May	643	11-Jun	640
MU1-OZ16	21-Apr	559	13-May	545	27-May	590	10-Jun	609
MU1-OZ17	24-Apr	541	15-May	583	29-May	548	12-Jun	574
MU1-OZ18	23-Apr	555	14-May	592	28-May	571	11-Jun	606
MU1-OZ19	22-Apr	626	15-May	685	29-May	605	12-Jun	646
MU1-OZ20	29-Apr	562	13-May	587	27-May	560	10-Jun	587
MU1-OZ21	29-Apr	607	14-May	613	28-May	621	11-Jun	642
MU1-OZ22	23-Apr	458	18-May	495	1-Jun	486	15-Jun	493
MU1-OZ23	29-Apr	569	14-May	580	28-May	559	11-Jun	559
MU1-OZ24	23-Apr	573	14-May	635	28-May	638	11-Jun	650
MU1-OZ25	23-Apr	602	14-May	660	28-May	657	11-Jun	661
MU1-OZ26	20-Apr	583	13-May	580	27-May	588	10-Jun	588

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	620
Standard deviation:	85.1
k factor, ProUCL (α = 0.05, p = 0.99):	2.68
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL:	849
95% UTL, Guideline 4:	870

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Bicarbonate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	586	14-May	583	28-May	622	11-Jun	606
MU1-OZ2	29-Apr	594	13-May	599	27-May	606	10-Jun	621
MU1-OZ3	21-Apr	492	14-May	526	28-May	561	11-Jun	558
MU1-OZ4	22-Apr	572	13-May	582	27-May	592	10-Jun	586
MU1-OZ6	20-Apr	397	14-May	412	28-May	449	11-Jun	459
MU1-OZ7	28-Apr	573	15-May	677	29-May	580	12-Jun	590
MU1-OZ8	22-Apr	598	15-May	603	29-May	614	12-Jun	610
MU1-OZ9	24-Apr	539	13-May	547	27-May	597	10-Jun	569
MU1-OZ10	23-Apr	573	14-May	568	28-May	581	15-Jun	593
MU1-OZ11	29-Apr	558	13-May	626	27-May	583	10-Jun	598
MU1-OZ12	29-Apr	572	14-May	563	29-May	584	11-Jun	578
MU1-OZ13	29-Apr	471	14-May	479	1-Jun	561	15-Jun	556
MU1-OZ14	20-Apr	629	15-May	430	29-May	583	12-Jun	602
MU1-OZ15	21-Apr	553	14-May	543	28-May	620	11-Jun	565
MU1-OZ16	21-Apr	455	13-May	425	27-May	565	10-Jun	583
MU1-OZ17	24-Apr	621	15-May	610	29-May	641	12-Jun	626
MU1-OZ18	23-Apr	613	14-May	621	28-May	635	11-Jun	618
MU1-OZ19	22-Apr	520	15-May	610	29-May	560	12-Jun	552
MU1-OZ20	29-Apr	576	13-May	598	27-May	599	10-Jun	605
MU1-OZ21	29-Apr	568	14-May	590	28-May	630	11-Jun	594
MU1-OZ22	23-Apr	602	18-May	605	1-Jun	633	15-Jun	635
MU1-OZ23	29-Apr	587	14-May	610	28-May	610	11-Jun	620
MU1-OZ24	23-Apr	622	14-May	598	28-May	756	11-Jun	608
MU1-OZ25	23-Apr	582	14-May	582	28-May	623	11-Jun	593
MU1-OZ26	20-Apr	610	13-May	598	27-May	605	10-Jun	628

Outlier removed from data set.

Note: all dates are 2015.

Number of data:	98
Number of detectable values:	98
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	580
Standard deviation:	50.2
k factor, ProUCL (α = 0.05, p = 0.99):	2.684
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.9384
95% UTL, ProUCL:	714
95% UTL, Guideline 4:	727

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Carbonate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	32	14-May	34	28-May	32	11-Jun	33
MU1-OZ2	29-Apr	36	13-May	27	27-May	28	10-Jun	25
MU1-OZ3	21-Apr	34	14-May	28	28-May	25	11-Jun	24
MU1-OZ4	22-Apr	35	13-May	38	27-May	33	10-Jun	48
MU1-OZ6	20-Apr	52	14-May	50	28-May	40	11-Jun	42
MU1-OZ7	28-Apr	28	15-May	52	29-May	22	12-Jun	27
MU1-OZ8	22-Apr	35	15-May	35	29-May	33	12-Jun	37
MU1-OZ9	24-Apr	62	13-May	63	27-May	52	10-Jun	56
MU1-OZ10	23-Apr	35	14-May	37	28-May	36	15-Jun	29
MU1-OZ11	29-Apr	51	13-May	32	27-May	35	10-Jun	28
MU1-OZ12	29-Apr	43	14-May	31	29-May	22	11-Jun	28
MU1-OZ13	29-Apr	71	14-May	61	1-Jun	36	15-Jun	29
MU1-OZ14	20-Apr	40	15-May	150	29-May	36	12-Jun	43
MU1-OZ15	21-Apr	37	14-May	44	28-May	32	11-Jun	39
MU1-OZ16	21-Apr	73	13-May	82	27-May	36	10-Jun	34
MU1-OZ17	24-Apr	34	15-May	43	29-May	32	12-Jun	37
MU1-OZ18	23-Apr	35	14-May	35	28-May	34	11-Jun	43
MU1-OZ19	22-Apr	85	15-May	64	29-May	49	12-Jun	52
MU1-OZ20	29-Apr	54	13-May	32	27-May	30	10-Jun	31
MU1-OZ21	29-Apr	44	14-May	54	28-May	31	11-Jun	34
MU1-OZ22	23-Apr	35	18-May	32	1-Jun	28	15-Jun	32
MU1-OZ23	29-Apr	49	14-May	37	28-May	33	11-Jun	31
MU1-OZ24	23-Apr	30	14-May	28	28-May	44	11-Jun	31
MU1-OZ25	23-Apr	32	14-May	39	28-May	28	11-Jun	33
MU1-OZ26	20-Apr	27	13-May	34	27-May	25	10-Jun	28

Outlier removed from data set.

Note: all dates are 2015.

Number of data:	99
Number of detectable values:	99
Detection frequency:	100%
Approximate distribution:	Lognormal
Average background concentration:	38.5
Standard deviation:	12.38
Mean of logged data*:	3.61
Standard deviation of logged data*:	0.281
k factor, ProUCL* (α = 0.05, p = 0.99):	2.682
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
95% UTL, ProUCL*:	78
95% UTL, Guideline 4:	nc

* Calculated using natural logarithm of concentration values.

nc - not calculated due to data distribution; Guideline 4 method assumes data are normally distributed.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Chloride (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	7	14-May	7	28-May	6	11-Jun	6
MU1-OZ2	29-Apr	5	13-May	6	27-May	6	10-Jun	5
MU1-OZ3	21-Apr	13	14-May	12	28-May	11	11-Jun	12
MU1-OZ4	22-Apr	5	13-May	5	27-May	6	10-Jun	5
MU1-OZ6	20-Apr	15	14-May	15	28-May	13	11-Jun	13
MU1-OZ7	28-Apr	12	15-May	12	29-May	10	12-Jun	10
MU1-OZ8	22-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ9	24-Apr	5	13-May	5	27-May	5	10-Jun	5
MU1-OZ10	23-Apr	8	14-May	8	28-May	9	15-Jun	8
MU1-OZ11	29-Apr	9	13-May	10	27-May	9	10-Jun	9
MU1-OZ12	29-Apr	11	14-May	10	29-May	10	11-Jun	10
MU1-OZ13	29-Apr	12	14-May	12	1-Jun	12	15-Jun	11
MU1-OZ14	20-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-OZ15	21-Apr	7	14-May	7	28-May	6	11-Jun	8
MU1-OZ16	21-Apr	7	13-May	6	27-May	6	10-Jun	6
MU1-OZ17	24-Apr	5	15-May	6	29-May	6	12-Jun	5
MU1-OZ18	23-Apr	6	14-May	6	28-May	5	11-Jun	5
MU1-OZ19	22-Apr	10	15-May	10	29-May	11	12-Jun	11
MU1-OZ20	29-Apr	5	13-May	6	27-May	7	10-Jun	5
MU1-OZ21	29-Apr	6	14-May	7	28-May	6	11-Jun	6
MU1-OZ22	23-Apr	4	18-May	5	1-Jun	4	15-Jun	4
MU1-OZ23	29-Apr	6	14-May	6	28-May	6	11-Jun	6
MU1-OZ24	23-Apr	7	14-May	7	28-May	6	11-Jun	7
MU1-OZ25	23-Apr	8	14-May	8	28-May	9	11-Jun	8
MU1-OZ26	20-Apr	6	13-May	7	27-May	6	10-Jun	5

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Lognormal
Average background concentration:	7.47
Standard deviation:	2.69
Mean of logged data*:	1.95
Standard deviation of logged data*:	0.336
k factor, ProUCL* ($\alpha = 0.05$, $p = 0.99$):	2.68
k factor, LQD Guideline 4 ($\alpha = 0.05$, $p = 0.99$):	nc
95% UTL, ProUCL*:	17
95% UTL, Guideline 4:	nc

* Calculated using natural logarithm of concentration values.

nc - not calculated due to data distribution; Guideline 4 method assumes data are normally distributed.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Sulfate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	675	14-May	704	28-May	654	11-Jun	705
MU1-OZ2	29-Apr	573	13-May	560	27-May	583	10-Jun	583
MU1-OZ3	21-Apr	1,120	14-May	1,090	28-May	1,080	11-Jun	1,130
MU1-OZ4	22-Apr	592	13-May	607	27-May	610	10-Jun	619
MU1-OZ6	20-Apr	1,290	14-May	1,240	28-May	1,200	11-Jun	1,320
MU1-OZ7	28-Apr	1,000	15-May	883	29-May	864	12-Jun	906
MU1-OZ8	22-Apr	517	15-May	531	29-May	531	12-Jun	543
MU1-OZ9	24-Apr	564	13-May	575	27-May	550	10-Jun	587
MU1-OZ10	23-Apr	725	14-May	740	28-May	759	15-Jun	734
MU1-OZ11	29-Apr	795	13-May	773	27-May	793	10-Jun	803
MU1-OZ12	29-Apr	817	14-May	808	29-May	805	11-Jun	864
MU1-OZ13	29-Apr	1,090	14-May	1,080	1-Jun	1,150	15-Jun	1,080
MU1-OZ14	20-Apr	562	15-May	544	29-May	558	12-Jun	581
MU1-OZ15	21-Apr	742	14-May	750	28-May	716	11-Jun	755
MU1-OZ16	21-Apr	648	13-May	661	27-May	633	10-Jun	661
MU1-OZ17	24-Apr	607	15-May	626	29-May	625	12-Jun	638
MU1-OZ18	23-Apr	650	14-May	640	28-May	643	11-Jun	654
MU1-OZ19	22-Apr	728	15-May	769	29-May	739	12-Jun	795
MU1-OZ20	29-Apr	615	13-May	619	27-May	643	10-Jun	642
MU1-OZ21	29-Apr	717	14-May	773	28-May	661	11-Jun	726
MU1-OZ22	23-Apr	439	18-May	437	1-Jun	450	15-Jun	450
MU1-OZ23	29-Apr	617	14-May	619	28-May	568	11-Jun	584
MU1-OZ24	23-Apr	706	14-May	726	28-May	717	11-Jun	758
MU1-OZ25	23-Apr	750	14-May	774	28-May	765	11-Jun	807
MU1-OZ26	20-Apr	697	13-May	610	27-May	629	10-Jun	633

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Lognormal
Average background concentration:	728.6
Standard deviation:	190.8
Mean of logged data*:	6.56
Standard deviation of logged data*:	0.239
k factor, ProUCL* ($\alpha = 0.05$, $p = 0.99$):	2.68
k factor, LQD Guideline 4* ($\alpha = 0.05$, $p = 0.99$):	nc
95% UTL, ProUCL*:	1,343
95% UTL, Guideline 4:	nc

* Calculated using natural logarithm of concentration values.

nc - not calculated due to data distribution; Guideline 4 method assumes data are normally distributed.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Aluminum, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ2	29-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ3	21-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ4	22-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ6	20-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ7	28-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ8	22-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ9	24-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ10	23-Apr	<0.1	14-May	<0.1	28-May	<0.1	15-Jun	<0.1
MU1-OZ11	29-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ12	29-Apr	<0.1	14-May	<0.1	29-May	<0.1	11-Jun	<0.1
MU1-OZ13	29-Apr	<0.1	14-May	<0.1	1-Jun	<0.1	15-Jun	<0.1
MU1-OZ14	20-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ15	21-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ16	21-Apr	0.2	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ17	24-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ18	23-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ19	22-Apr	<0.1	15-May	<0.1	29-May	<0.1	12-Jun	<0.1
MU1-OZ20	29-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1
MU1-OZ21	29-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ22	23-Apr	<0.1	18-May	<0.1	1-Jun	<0.1	15-Jun	<0.1
MU1-OZ23	29-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ24	23-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ25	23-Apr	<0.1	14-May	<0.1	28-May	<0.1	11-Jun	<0.1
MU1-OZ26	20-Apr	<0.1	13-May	<0.1	27-May	<0.1	10-Jun	<0.1

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	1
Detection frequency:	1%
Approximate distribution:	Undefined
Average background concentration:	<0.1
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.2
95% UTL, Guideline 4:	nc

nc - not calculated.

* Largest detectable value used due to low number of detections.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Arsenic, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ2	29-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ3	21-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ4	22-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ6	20-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ7	28-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ8	22-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ9	24-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ10	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	15-Jun	<0.005
MU1-OZ11	29-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ12	29-Apr	<0.005	14-May	<0.005	29-May	<0.005	11-Jun	<0.005
MU1-OZ13	29-Apr	<0.005	14-May	<0.005	1-Jun	<0.005	15-Jun	<0.005
MU1-OZ14	20-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ15	21-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ16	21-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ17	24-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ18	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ19	22-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ20	29-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ21	29-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ22	23-Apr	<0.005	18-May	<0.005	1-Jun	<0.005	15-Jun	<0.005
MU1-OZ23	29-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ24	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ25	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ26	20-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.005
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.005
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Barium, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ2	29-Apr	<0.5	13-May	<0.5	27-May	<0.5	10-Jun	<0.5
MU1-OZ3	21-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ4	22-Apr	<0.5	13-May	<0.5	27-May	<0.5	10-Jun	<0.5
MU1-OZ6	20-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ7	28-Apr	<0.5	15-May	<0.5	29-May	<0.5	12-Jun	<0.5
MU1-OZ8	22-Apr	<0.5	15-May	<0.5	29-May	<0.5	12-Jun	<0.5
MU1-OZ9	24-Apr	<0.5	13-May	<0.5	27-May	<0.5	10-Jun	<0.5
MU1-OZ10	23-Apr	<0.5	14-May	<0.5	28-May	<0.5	15-Jun	<0.5
MU1-OZ11	29-Apr	<0.5	13-May	<0.5	27-May	<0.5	10-Jun	<0.5
MU1-OZ12	29-Apr	<0.5	14-May	<0.5	29-May	<0.5	11-Jun	<0.5
MU1-OZ13	29-Apr	<0.5	14-May	<0.5	1-Jun	<0.5	15-Jun	<0.5
MU1-OZ14	20-Apr	<0.5	15-May	<0.5	29-May	<0.5	12-Jun	<0.5
MU1-OZ15	21-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ16	21-Apr	<0.5	13-May	<0.5	27-May	<0.5	10-Jun	<0.5
MU1-OZ17	24-Apr	<0.5	15-May	<0.5	29-May	<0.5	12-Jun	<0.5
MU1-OZ18	23-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ19	22-Apr	<0.5	15-May	<0.5	29-May	<0.5	12-Jun	<0.5
MU1-OZ20	29-Apr	<0.5	13-May	<0.5	27-May	<0.5	10-Jun	<0.5
MU1-OZ21	29-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ22	23-Apr	<0.5	18-May	<0.5	1-Jun	<0.5	15-Jun	<0.5
MU1-OZ23	29-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ24	23-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ25	23-Apr	<0.5	14-May	<0.5	28-May	<0.5	11-Jun	<0.5
MU1-OZ26	20-Apr	<0.5	13-May	<0.5	27-May	<0.5	10-Jun	<0.5

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.5
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.5
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Boron, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.5	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ2	29-Apr	0.4	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ3	21-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ4	22-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.3
MU1-OZ6	20-Apr	0.3	14-May	0.4	28-May	0.3	11-Jun	0.4
MU1-OZ7	28-Apr	0.4	15-May	0.4	29-May	0.3	12-Jun	0.3
MU1-OZ8	22-Apr	0.3	15-May	0.3	29-May	0.3	12-Jun	0.3
MU1-OZ9	24-Apr	0.3	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-OZ10	23-Apr	0.4	14-May	0.4	28-May	0.4	15-Jun	0.4
MU1-OZ11	29-Apr	0.4	13-May	0.4	27-May	0.4	10-Jun	0.4
MU1-OZ12	29-Apr	0.4	14-May	0.4	29-May	0.4	11-Jun	0.4
MU1-OZ13	29-Apr	0.4	14-May	0.3	1-Jun	0.3	15-Jun	0.3
MU1-OZ14	20-Apr	0.4	15-May	0.4	29-May	0.3	12-Jun	0.3
MU1-OZ15	21-Apr	0.3	14-May	0.4	28-May	0.3	11-Jun	0.3
MU1-OZ16	21-Apr	0.3	13-May	0.3	27-May	0.3	10-Jun	0.4
MU1-OZ17	24-Apr	0.3	15-May	0.3	29-May	0.3	12-Jun	0.3
MU1-OZ18	23-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ19	22-Apr	0.4	15-May	0.4	29-May	0.4	12-Jun	0.4
MU1-OZ20	29-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.4
MU1-OZ21	29-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ22	23-Apr	0.4	18-May	0.4	1-Jun	0.4	15-Jun	0.4
MU1-OZ23	29-Apr	0.3	14-May	0.3	28-May	0.3	11-Jun	0.3
MU1-OZ24	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.5
MU1-OZ25	23-Apr	0.4	14-May	0.4	28-May	0.4	11-Jun	0.4
MU1-OZ26	20-Apr	0.4	13-May	0.4	27-May	0.3	10-Jun	0.4

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	0.35
Standard deviation:	0.05
k factor, ProUCL (α = 0.05, p = 0.99):	2.68
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL:	0.5
95% UTL, Guideline 4:	0.5

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Cadmium, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ2	29-Apr	<0.002	13-May	<0.002	27-May	<0.002	10-Jun	<0.002
MU1-OZ3	21-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ4	22-Apr	<0.002	13-May	<0.002	27-May	<0.002	10-Jun	<0.002
MU1-OZ6	20-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ7	28-Apr	<0.002	15-May	<0.002	29-May	<0.002	12-Jun	<0.002
MU1-OZ8	22-Apr	<0.002	15-May	<0.002	29-May	<0.002	12-Jun	<0.002
MU1-OZ9	24-Apr	<0.002	13-May	<0.002	27-May	<0.002	10-Jun	<0.002
MU1-OZ10	23-Apr	<0.002	14-May	<0.002	28-May	<0.002	15-Jun	<0.002
MU1-OZ11	29-Apr	<0.002	13-May	<0.002	27-May	<0.002	10-Jun	<0.002
MU1-OZ12	29-Apr	<0.002	14-May	<0.002	29-May	<0.002	11-Jun	<0.002
MU1-OZ13	29-Apr	<0.002	14-May	<0.002	1-Jun	<0.002	15-Jun	<0.002
MU1-OZ14	20-Apr	<0.002	15-May	<0.002	29-May	<0.002	12-Jun	<0.002
MU1-OZ15	21-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ16	21-Apr	<0.002	13-May	<0.002	27-May	<0.002	10-Jun	<0.002
MU1-OZ17	24-Apr	<0.002	15-May	<0.002	29-May	<0.002	12-Jun	<0.002
MU1-OZ18	23-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ19	22-Apr	<0.002	15-May	<0.002	29-May	<0.002	12-Jun	<0.002
MU1-OZ20	29-Apr	<0.002	13-May	<0.002	27-May	<0.002	10-Jun	<0.002
MU1-OZ21	29-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ22	23-Apr	<0.002	18-May	<0.002	1-Jun	<0.002	15-Jun	<0.002
MU1-OZ23	29-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ24	23-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ25	23-Apr	<0.002	14-May	<0.002	28-May	<0.002	11-Jun	<0.002
MU1-OZ26	20-Apr	<0.002	13-May	<0.002	27-May	<0.002	10-Jun	<0.002

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.002
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.002
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Chromium, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ2	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ3	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ4	22-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ6	20-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ7	28-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ8	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ9	24-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ10	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	15-Jun	<0.01
MU1-OZ11	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ12	29-Apr	<0.01	14-May	<0.01	29-May	<0.01	11-Jun	<0.01
MU1-OZ13	29-Apr	<0.01	14-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ14	20-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ15	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ16	21-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ17	24-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ18	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ19	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ20	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ21	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ22	23-Apr	<0.01	18-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ23	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ24	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ25	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ26	20-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.01
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.01
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Copper, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ2	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ3	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ4	22-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ6	20-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ7	28-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ8	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ9	24-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ10	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	15-Jun	<0.01
MU1-OZ11	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ12	29-Apr	<0.01	14-May	<0.01	29-May	<0.01	11-Jun	<0.01
MU1-OZ13	29-Apr	<0.01	14-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ14	20-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ15	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ16	21-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ17	24-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ18	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ19	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ20	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ21	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ22	23-Apr	<0.01	18-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ23	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ24	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ25	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ26	20-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.01
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.01
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Iron, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ2	29-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	<0.05
MU1-OZ3	21-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ4	22-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	<0.05
MU1-OZ6	20-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ7	28-Apr	<0.05	15-May	<0.05	29-May	<0.05	12-Jun	<0.05
MU1-OZ8	22-Apr	<0.05	15-May	<0.05	29-May	<0.05	12-Jun	<0.05
MU1-OZ9	24-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	<0.05
MU1-OZ10	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	15-Jun	0.08
MU1-OZ11	29-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	<0.05
MU1-OZ12	29-Apr	<0.05	14-May	<0.05	29-May	<0.05	11-Jun	<0.05
MU1-OZ13	29-Apr	<0.05	14-May	<0.05	1-Jun	<0.05	15-Jun	<0.05
MU1-OZ14	20-Apr	<0.05	15-May	0.06	29-May	<0.05	12-Jun	<0.05
MU1-OZ15	21-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ16	21-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	<0.05
MU1-OZ17	24-Apr	<0.05	15-May	<0.05	29-May	<0.05	12-Jun	<0.05
MU1-OZ18	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ19	22-Apr	<0.05	15-May	<0.05	29-May	<0.05	12-Jun	<0.05
MU1-OZ20	29-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	<0.05
MU1-OZ21	29-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ22	23-Apr	<0.05	18-May	<0.05	1-Jun	<0.05	15-Jun	<0.05
MU1-OZ23	29-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ24	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ25	23-Apr	<0.05	14-May	<0.05	28-May	<0.05	11-Jun	<0.05
MU1-OZ26	20-Apr	<0.05	13-May	<0.05	27-May	<0.05	10-Jun	<0.05

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	2
Detection frequency:	2%
Approximate distribution:	Undefined
Average background concentration:	<0.05
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.08
95% UTL, Guideline 4:	nc

nc - not calculated.

* Largest detectable value used due to low number of detections.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Mercury, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ2	29-Apr	<0.001	13-May	<0.001	27-May	<0.001	10-Jun	<0.001
MU1-OZ3	21-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ4	22-Apr	<0.001	13-May	<0.001	27-May	<0.001	10-Jun	<0.001
MU1-OZ6	20-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ7	28-Apr	<0.001	15-May	<0.001	29-May	<0.001	12-Jun	<0.001
MU1-OZ8	22-Apr	<0.001	15-May	<0.001	29-May	<0.001	12-Jun	<0.001
MU1-OZ9	24-Apr	<0.001	13-May	<0.001	27-May	<0.001	10-Jun	<0.001
MU1-OZ10	23-Apr	<0.001	14-May	<0.001	28-May	<0.001	15-Jun	<0.001
MU1-OZ11	29-Apr	<0.001	13-May	<0.001	27-May	<0.001	10-Jun	<0.001
MU1-OZ12	29-Apr	<0.001	14-May	<0.001	29-May	<0.001	11-Jun	<0.001
MU1-OZ13	29-Apr	<0.001	14-May	<0.001	1-Jun	<0.001	15-Jun	<0.001
MU1-OZ14	20-Apr	<0.001	15-May	<0.001	29-May	<0.001	12-Jun	<0.001
MU1-OZ15	21-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ16	21-Apr	<0.001	13-May	<0.001	27-May	<0.001	10-Jun	<0.001
MU1-OZ17	24-Apr	<0.001	15-May	<0.001	29-May	<0.001	12-Jun	<0.001
MU1-OZ18	23-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ19	22-Apr	<0.001	15-May	<0.001	29-May	<0.001	12-Jun	<0.001
MU1-OZ20	29-Apr	<0.001	13-May	<0.001	27-May	<0.001	10-Jun	<0.001
MU1-OZ21	29-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ22	23-Apr	<0.001	18-May	<0.001	1-Jun	<0.001	15-Jun	<0.001
MU1-OZ23	29-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ24	23-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ25	23-Apr	<0.001	14-May	<0.001	28-May	<0.001	11-Jun	<0.001
MU1-OZ26	20-Apr	<0.001	13-May	<0.001	27-May	<0.001	10-Jun	<0.001

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.001
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.001
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Manganese, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1							11-Jun	<0.02
MU1-OZ2							10-Jun	<0.02
MU1-OZ3							11-Jun	<0.02
MU1-OZ4							10-Jun	<0.02
MU1-OZ6							11-Jun	<0.02
MU1-OZ7							12-Jun	<0.02
MU1-OZ8							12-Jun	<0.02
MU1-OZ9							10-Jun	<0.02
MU1-OZ10							15-Jun	0.03
MU1-OZ11							10-Jun	<0.02
MU1-OZ12	Not measured		Not measured		Not measured		11-Jun	<0.02
MU1-OZ13							15-Jun	<0.02
MU1-OZ14							12-Jun	<0.02
MU1-OZ15							11-Jun	<0.02
MU1-OZ16							10-Jun	<0.02
MU1-OZ17							12-Jun	<0.02
MU1-OZ18							11-Jun	<0.02
MU1-OZ19							12-Jun	<0.02
MU1-OZ20							10-Jun	<0.02
MU1-OZ21							11-Jun	<0.02
MU1-OZ22							15-Jun	<0.02
MU1-OZ23							11-Jun	<0.02
MU1-OZ24							11-Jun	<0.02
MU1-OZ25							11-Jun	<0.02
MU1-OZ26							10-Jun	<0.02

Note: all dates are 2015.

Number of data:	25
Number of detectable values:	1
Detection frequency:	4%
Approximate distribution:	Undefined
Average background concentration:	<0.02
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.03
95% UTL, Guideline 4:	nc

nc - not calculated.

* Largest detectable value used due to low number of detections.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Molybdenum, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ2	29-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ3	21-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ4	22-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ6	20-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ7	28-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ8	22-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ9	24-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ10	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	15-Jun	<0.02
MU1-OZ11	29-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ12	29-Apr	<0.02	14-May	<0.02	29-May	<0.02	11-Jun	<0.02
MU1-OZ13	29-Apr	<0.02	14-May	<0.02	1-Jun	<0.02	15-Jun	<0.02
MU1-OZ14	20-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ15	21-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ16	21-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ17	24-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ18	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ19	22-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ20	29-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ21	29-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ22	23-Apr	<0.02	18-May	<0.02	1-Jun	<0.02	15-Jun	<0.02
MU1-OZ23	29-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ24	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ25	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ26	20-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.02
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.02
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Nickel, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ2	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ3	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ4	22-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ6	20-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ7	28-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ8	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ9	24-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ10	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	15-Jun	<0.01
MU1-OZ11	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ12	29-Apr	<0.01	14-May	<0.01	29-May	<0.01	11-Jun	<0.01
MU1-OZ13	29-Apr	<0.01	14-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ14	20-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ15	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ16	21-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ17	24-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ18	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ19	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ20	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ21	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ22	23-Apr	<0.01	18-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ23	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ24	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ25	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ26	20-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.01
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.01
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Selenium, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ2	29-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ3	21-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ4	22-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ6	20-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ7	28-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ8	22-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ9	24-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ10	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	15-Jun	<0.005
MU1-OZ11	29-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ12	29-Apr	<0.005	14-May	<0.005	29-May	<0.005	11-Jun	<0.005
MU1-OZ13	29-Apr	<0.005	14-May	<0.005	1-Jun	<0.005	15-Jun	<0.005
MU1-OZ14	20-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ15	21-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ16	21-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ17	24-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ18	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ19	22-Apr	<0.005	15-May	<0.005	29-May	<0.005	12-Jun	<0.005
MU1-OZ20	29-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005
MU1-OZ21	29-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ22	23-Apr	<0.005	18-May	<0.005	1-Jun	<0.005	15-Jun	<0.005
MU1-OZ23	29-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ24	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ25	23-Apr	<0.005	14-May	<0.005	28-May	<0.005	11-Jun	<0.005
MU1-OZ26	20-Apr	<0.005	13-May	<0.005	27-May	<0.005	10-Jun	<0.005

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	0
Detection frequency:	0%
Approximate distribution:	Undefined
Average background concentration:	<0.005
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.005
95% UTL, Guideline 4:	nc

nc - not calculated.

* Detection limit used due to zero detectable values.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Uranium, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	0.0849	14-May	0.0838	28-May	0.0539	11-Jun	0.0594
MU1-OZ2	29-Apr	0.0638	13-May	0.0613	27-May	0.0597	10-Jun	0.0620
MU1-OZ3	21-Apr	0.0573	14-May	0.0579	28-May	0.0545	11-Jun	0.0594
MU1-OZ4	22-Apr	0.0880	13-May	0.109	27-May	0.0897	10-Jun	0.103
MU1-OZ6	20-Apr	0.180	14-May	0.221	28-May	0.175	11-Jun	0.165
MU1-OZ7	28-Apr	0.150	15-May	0.159	29-May	0.131	12-Jun	0.123
MU1-OZ8	22-Apr	0.157	15-May	0.163	29-May	0.140	12-Jun	0.140
MU1-OZ9	24-Apr	0.0812	13-May	0.0797	27-May	0.0848	10-Jun	0.0780
MU1-OZ10	23-Apr	0.0301	14-May	0.0303	28-May	0.0296	15-Jun	0.0270
MU1-OZ11	29-Apr	0.0756	13-May	0.0753	27-May	0.0702	10-Jun	0.0674
MU1-OZ12	29-Apr	0.0012	14-May	0.0016	29-May	0.0017	11-Jun	0.0015
MU1-OZ13	29-Apr	0.0632	14-May	0.0747	1-Jun	0.0536	15-Jun	0.0472
MU1-OZ14	20-Apr	0.0832	15-May	0.0657	29-May	0.0646	12-Jun	0.0728
MU1-OZ15	21-Apr	0.154	14-May	0.164	28-May	0.144	11-Jun	0.138
MU1-OZ16	21-Apr	0.142	13-May	0.136	27-May	0.124	10-Jun	0.120
MU1-OZ17	24-Apr	0.199	15-May	0.220	29-May	0.194	12-Jun	0.180
MU1-OZ18	23-Apr	0.152	14-May	0.150	28-May	0.142	11-Jun	0.137
MU1-OZ19	22-Apr	0.0049	15-May	0.0026	29-May	0.0021	12-Jun	0.0020
MU1-OZ20	29-Apr	0.0291	13-May	0.0294	27-May	0.0291	10-Jun	0.0282
MU1-OZ21	29-Apr	0.0625	14-May	0.0692	28-May	0.0600	11-Jun	0.0609
MU1-OZ22	23-Apr	0.0794	18-May	0.0692	1-Jun	0.0821	15-Jun	0.0731
MU1-OZ23	29-Apr	0.0010	14-May	0.0017	28-May	0.0016	11-Jun	0.0015
MU1-OZ24	23-Apr	0.0384	14-May	0.0364	28-May	0.0363	11-Jun	0.0366
MU1-OZ25	23-Apr	0.0433	14-May	0.0389	28-May	0.0400	11-Jun	0.0413
MU1-OZ26	20-Apr	0.0553	13-May	0.0497	27-May	0.0480	10-Jun	0.0441

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	100
Detection frequency:	100%
Approximate distribution:	Normal
Average background concentration:	0.0801
Standard deviation:	0.056
k factor, ProUCL (α = 0.05, p = 0.99):	2.68
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	2.934
95% UTL, ProUCL:	0.23
95% UTL, Guideline 4:	0.24

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Vanadium, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ2	29-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ3	21-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ4	22-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ6	20-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ7	28-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ8	22-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ9	24-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ10	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	15-Jun	<0.02
MU1-OZ11	29-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ12	29-Apr	<0.02	14-May	<0.02	29-May	<0.02	11-Jun	<0.02
MU1-OZ13	29-Apr	0.03	14-May	0.03	1-Jun	0.02	15-Jun	<0.02
MU1-OZ14	20-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ15	21-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ16	21-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ17	24-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ18	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ19	22-Apr	<0.02	15-May	<0.02	29-May	<0.02	12-Jun	<0.02
MU1-OZ20	29-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02
MU1-OZ21	29-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ22	23-Apr	<0.02	18-May	<0.02	1-Jun	<0.02	15-Jun	<0.02
MU1-OZ23	29-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ24	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ25	23-Apr	<0.02	14-May	<0.02	28-May	<0.02	11-Jun	<0.02
MU1-OZ26	20-Apr	<0.02	13-May	<0.02	27-May	<0.02	10-Jun	<0.02

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	3
Detection frequency:	3%
Approximate distribution:	Undefined
Average background concentration:	<0.02
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.03
95% UTL, Guideline 4:	nc

nc - not calculated.

* Largest detectable value used due to low number of detections.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Zinc, Dissolved (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ2	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ3	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ4	22-Apr	<0.01	13-May	<0.01	27-May	0.01	10-Jun	<0.01
MU1-OZ6	20-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ7	28-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ8	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ9	24-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ10	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	15-Jun	<0.01
MU1-OZ11	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ12	29-Apr	<0.01	14-May	<0.01	29-May	<0.01	11-Jun	<0.01
MU1-OZ13	29-Apr	<0.01	14-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ14	20-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ15	21-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ16	21-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ17	24-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ18	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ19	22-Apr	<0.01	15-May	<0.01	29-May	<0.01	12-Jun	<0.01
MU1-OZ20	29-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01
MU1-OZ21	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ22	23-Apr	<0.01	18-May	<0.01	1-Jun	<0.01	15-Jun	<0.01
MU1-OZ23	29-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	0.01
MU1-OZ24	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ25	23-Apr	<0.01	14-May	<0.01	28-May	<0.01	11-Jun	<0.01
MU1-OZ26	20-Apr	<0.01	13-May	<0.01	27-May	<0.01	10-Jun	<0.01

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	2
Detection frequency:	2%
Approximate distribution:	Undefined
Average background concentration:	<0.01
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	0.01
95% UTL, Guideline 4:	nc

nc - not calculated.

* Largest detectable value used due to low number of detections.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Radium-226, Dissolved (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	48.6	14-May	45.3	28-May	48.7	11-Jun	47.1
MU1-OZ2	29-Apr	12.4	13-May	10.5	27-May	10.7	10-Jun	13
MU1-OZ3	21-Apr	3.3	14-May	3.2	28-May	4	11-Jun	3.8
MU1-OZ4	22-Apr	2	13-May	2	27-May	2.6	10-Jun	1.8
MU1-OZ6	20-Apr	50.4	14-May	40.7	28-May	43.5	11-Jun	47.4
MU1-OZ7	28-Apr	79.6	15-May	88.4	29-May	91.1	12-Jun	96.1
MU1-OZ8	22-Apr	12	15-May	11.9	29-May	12.8	12-Jun	15.9
MU1-OZ9	24-Apr	26.3	13-May	20.4	27-May	27.5	10-Jun	27
MU1-OZ10	23-Apr	1.2	14-May	1	28-May	1.7	15-Jun	1.4
MU1-OZ11	29-Apr	<0.2	13-May	7.3	27-May	6.9	10-Jun	8
MU1-OZ12	29-Apr	<0.2	14-May	0.4	29-May	4.2	11-Jun	1.5
MU1-OZ13	29-Apr	<0.2	14-May	26	1-Jun	37.2	15-Jun	44.9
MU1-OZ14	20-Apr	5.4	15-May	4.1	29-May	4.8	12-Jun	6.3
MU1-OZ15	21-Apr	260	14-May	194	28-May	215	11-Jun	241
MU1-OZ16	21-Apr	20.3	13-May	6.4	27-May	18.3	10-Jun	24.1
MU1-OZ17	24-Apr	61.3	15-May	60.3	29-May	63.4	12-Jun	76.6
MU1-OZ18	23-Apr	4.6	14-May	4	28-May	3.1	11-Jun	4.8
MU1-OZ19	22-Apr	0.8	15-May	0.4	29-May	0.6	12-Jun	0.5
MU1-OZ20	29-Apr	<0.2	13-May	1.6	27-May	1.8	10-Jun	2.2
MU1-OZ21	29-Apr	30.5	14-May	23.6	28-May	27.2	11-Jun	35
MU1-OZ22	23-Apr	48.9	18-May	48	1-Jun	45.8	15-Jun	59.2
MU1-OZ23	29-Apr	1.3	14-May	0.3	28-May	0.3	11-Jun	0.4
MU1-OZ24	23-Apr	22.5	14-May	24.1	28-May	22.1	11-Jun	25.9
MU1-OZ25	23-Apr	2.7	14-May	4.6	28-May	2.1	11-Jun	2.9
MU1-OZ26	20-Apr	15	13-May	11.5	27-May	15.6	10-Jun	14.8

Outlier removed from data set. Note: all dates are 2015.

Number of data:	98
Number of detectable values:	96
Detection frequency:	98%
Approximate distribution:	Lognormal
Average background concentration*:	29.2
Standard deviation*:	47.5
Mean of logged data**:	2.23
Standard deviation of logged data**:	1.76
k factor, ProUCL** (α = 0.05, p = 0.99):	2.684
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
95% UTL, ProUCL**:	1,048
95% UTL, Guideline 4:	nc
95% UTL, ProUCL***:	260

* Calculated using DL/2 substitution for non-detects since detection frequency is between 85% and 100%.

**Calculated using natural logarithm of concentration values.

***Non-parametric UTL calculated using ProUCL

nc - not calculated due to data distribution; Guideline 4 method assumes data are normally distributed.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Radium-228, Dissolved (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-OZ2	29-Apr	<1	13-May	<1	27-May	<1	10-Jun	<1
MU1-OZ3	21-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-OZ4	22-Apr	<1	13-May	<1	27-May	<1	10-Jun	<1
MU1-OZ6	20-Apr	<1	14-May	1.7	28-May	<1	11-Jun	<1
MU1-OZ7	28-Apr	1	15-May	<1	29-May	<1	12-Jun	<1
MU1-OZ8	22-Apr	1	15-May	<1	29-May	<1	12-Jun	<1
MU1-OZ9	24-Apr	<1	13-May	<1	27-May	<1	10-Jun	<1
MU1-OZ10	23-Apr	<1	14-May	<1	28-May	<1	15-Jun	<1
MU1-OZ11	29-Apr	<1	13-May	<1	27-May	<1	10-Jun	<1
MU1-OZ12	29-Apr	<1	14-May	<1	29-May	<1	11-Jun	<1
MU1-OZ13	29-Apr	<1	14-May	<1	1-Jun	1.1	15-Jun	<1
MU1-OZ14	20-Apr	<1	15-May	<1	29-May	<1	12-Jun	<1
MU1-OZ15	21-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-OZ16	21-Apr	<1	13-May	<1	27-May	<1	10-Jun	<1
MU1-OZ17	24-Apr	<1	15-May	<1	29-May	<1	12-Jun	<1
MU1-OZ18	23-Apr	<1	14-May	<1	28-May	<1	11-Jun	1.6
MU1-OZ19	22-Apr	<1	15-May	<1	29-May	1.8	12-Jun	<1
MU1-OZ20	29-Apr	<1	13-May	<1	27-May	<1	10-Jun	<1
MU1-OZ21	29-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-OZ22	23-Apr	<1	18-May	<1	1-Jun	<1	15-Jun	<1
MU1-OZ23	29-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-OZ24	23-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-OZ25	23-Apr	<1	14-May	<1	28-May	<1	11-Jun	<1
MU1-OZ26	20-Apr	<1	13-May	2	27-May	<1	10-Jun	<1

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	7
Detection frequency:	7%
Approximate distribution:	Undefined
Average background concentration:	<1
Standard deviation:	nc
k factor, ProUCL (α = 0.05, p = 0.99):	nc
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
UTL, non-parametric*:	2.0
95% UTL, Guideline 4:	nc

nc - not calculated.

* Largest detectable value used due to low number of detections.

Monitoring Interval: **Ore Zone (OZ)**

Parameter: **Gross Alpha (pCi/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-OZ1	22-Apr	218	14-May	190	28-May	217	11-Jun	253
MU1-OZ2	29-Apr	99.8	13-May	124	27-May	79.9	10-Jun	124
MU1-OZ3	21-Apr	73.1	14-May	79.2	28-May	62.4	11-Jun	77.3
MU1-OZ4	22-Apr	108	13-May	114	27-May	120	10-Jun	119
MU1-OZ6	20-Apr	217	14-May	206	28-May	263	11-Jun	301
MU1-OZ7	28-Apr	388	15-May	388	29-May	308	12-Jun	462
MU1-OZ8	22-Apr	198	15-May	182	29-May	179	12-Jun	201
MU1-OZ9	24-Apr	177	13-May	145	27-May	174	10-Jun	174
MU1-OZ10	23-Apr	35.6	14-May	45.9	28-May	32.5	15-Jun	44.7
MU1-OZ11	29-Apr	99.3	13-May	112	27-May	110	10-Jun	120
MU1-OZ12	29-Apr	5.5	14-May	2.6	29-May	8.2	11-Jun	5.2
MU1-OZ13	29-Apr	117	14-May	135	1-Jun	142	15-Jun	158
MU1-OZ14	20-Apr	99.5	15-May	84.2	29-May	84.9	12-Jun	91.7
MU1-OZ15	21-Apr	692	14-May	717	28-May	617	11-Jun	643
MU1-OZ16	21-Apr	214	13-May	171	27-May	172	10-Jun	196
MU1-OZ17	24-Apr	439	15-May	420	29-May	424	12-Jun	453
MU1-OZ18	23-Apr	141	14-May	200	28-May	160	11-Jun	192
MU1-OZ19	22-Apr	12.3	15-May	3.7	29-May	3.6	12-Jun	5.9
MU1-OZ20	29-Apr	40.2	13-May	38	27-May	38.5	10-Jun	41.7
MU1-OZ21	29-Apr	171	14-May	103	28-May	199	11-Jun	193
MU1-OZ22	23-Apr	205	18-May	159	1-Jun	219	15-Jun	247
MU1-OZ23	29-Apr	4.7	14-May	<2	28-May	3.9	11-Jun	2.8
MU1-OZ24	23-Apr	86.3	14-May	123	28-May	105	11-Jun	118
MU1-OZ25	23-Apr	46.4	14-May	59.7	28-May	53	11-Jun	51.3
MU1-OZ26	20-Apr	87.5	13-May	69.1	27-May	98.4	10-Jun	114

Note: all dates are 2015.

Number of data:	100
Number of detectable values:	99
Detection frequency:	99%
Approximate distribution:	Lognormal
Average background concentration*:	161.1
Standard deviation*:	149.2
Mean of logged data**:	4.53
Standard deviation of logged data**:	1.35
k factor, ProUCL** (α = 0.05, p = 0.99):	2.68
k factor, LQD Guideline 4 (α = 0.05, p = 0.99):	nc
95% UTL, ProUCL**:	3,413
95% UTL, Guideline 4:	nc
95% UTL, ProUCL***:	717

* Calculated using DL/2 substitution for non-detects since detection frequency is between 85% and 100%.

**Calculated using natural logarithm of concentration values.

***Non-parametric UTL calculated using ProUCL

nc - not calculated due to data distribution; Guideline 4 method assumes data are normally distributed.

ATTACHMENT 13

MU1 UCL Calculations

Monitoring Interval: **Perimeter (PM)**
Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	603	13-May	574	27-May	580	10-Jun	631
MU1-PM2	27-Apr	548	14-May	549	28-May	556	11-Jun	561
MU1-PM3	27-Apr	560	14-May	637	28-May	561	11-Jun	646
MU1-PM4	28-Apr	613	14-May	634	28-May	604	11-Jun	647
MU1-PM5	28-Apr	634	14-May	624	28-May	679	11-Jun	702
MU1-PM6	24-Apr	552	14-May	602	28-May	559	11-Jun	645
MU1-PM7	23-Apr	659	14-May	664	28-May	649	11-Jun	656
MU1-PM8	27-Apr	601	13-May	602	27-May	597	10-Jun	611
MU1-PM9	24-Apr	623	13-May	484	27-May	561	10-Jun	604
MU1-PM10	27-Apr	617	13-May	655	27-May	544	10-Jun	586
MU1-PM11	28-Apr	579	15-May	645	29-May	702	12-Jun	669
MU1-PM12	28-Apr	640	13-May	682	27-May	653	10-Jun	668
MU1-PM13	29-Apr	692	13-May	681	27-May	682	10-Jun	698
MU1-PM14A	28-Apr	450	14-May	580	28-May	598	11-Jun	614
MU1-PM15	28-Apr	543	13-May	621	27-May	538	10-Jun	549
MU1-PM16	28-Apr	563	15-May	646	29-May	649	12-Jun	657
MU1-PM17	28-Apr	722	13-May	684	27-May	685	10-Jun	697
MU1-PM18	28-Apr	674	13-May	673	27-May	671	10-Jun	718
MU1-PM19	28-Apr	637	15-May	695	29-May	642	15-Jun	645

Outlier removed from data set.
Note: all dates are 2015.

Number of data:	75
Number of detectable values:	75
Detection frequency:	100%
Average background concentration:	625.4
Standard deviation:	51.9
UCL (avg + 5 std. dev.)	885

Monitoring Interval: **Perimeter (PM)**
Parameter: **Conductivity, Laboratory (µmhos/cm)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	2,280	13-May	2,480	27-May	2,330	10-Jun	2,460
MU1-PM2	27-Apr	2,470	14-May	2,390	28-May	2,340	11-Jun	2,390
MU1-PM3	27-Apr	2,310	14-May	2,170	28-May	2,330	11-Jun	2,140
MU1-PM4	28-Apr	2,220	14-May	2,380	28-May	2,280	11-Jun	2,320
MU1-PM5	28-Apr	1,950	14-May	2,010	28-May	1,920	11-Jun	1,960
MU1-PM6	24-Apr	2,360	14-May	2,230	28-May	2,380	11-Jun	2,350
MU1-PM7	23-Apr	2,020	14-May	2,140	28-May	2,060	11-Jun	2,170
MU1-PM8	27-Apr	2,460	13-May	2,570	27-May	2,350	10-Jun	2,560
MU1-PM9	24-Apr	2,410	13-May	3,130	27-May	2,530	10-Jun	2,560
MU1-PM10	27-Apr	2,580	13-May	2,280	27-May	2,770	10-Jun	2,840
MU1-PM11	28-Apr	2,190	15-May	2,100	29-May	2,000	12-Jun	2,010
MU1-PM12	28-Apr	1,940	13-May	2,040	27-May	1,880	10-Jun	2,000
MU1-PM13	29-Apr	1,930	13-May	1,960	27-May	1,830	10-Jun	1,920
MU1-PM14A	28-Apr	2,070	14-May	2,370	28-May	2,270	11-Jun	2,380
MU1-PM15	28-Apr	2,150	13-May	2,300	27-May	2,160	10-Jun	2,340
MU1-PM16	28-Apr	2,000	15-May	2,040	29-May	2,050	12-Jun	2,080
MU1-PM17	28-Apr	2,130	13-May	2,260	27-May	2,100	10-Jun	2,250
MU1-PM18	28-Apr	2,090	13-May	2,100	27-May	2,060	10-Jun	2,190
MU1-PM19	28-Apr	2,270	15-May	2,200	29-May	2,210	15-Jun	2,220

Outlier removed from data set.
Note: all dates are 2015.

Number of data:	75
Number of detectable values:	75
Detection frequency:	100%
Average background concentration:	2,225
Standard deviation:	208.9
UCL (avg + 5 std. dev.)	3,269

Monitoring Interval: **Perimeter (PM)**
Parameter: **Choride (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-PM1	28-Apr	7	13-May	7	27-May	6	10-Jun	6
MU1-PM2	27-Apr	7	14-May	6	28-May	6	11-Jun	5
MU1-PM3	27-Apr	6	14-May	5	28-May	6	11-Jun	5
MU1-PM4	28-Apr	7	14-May	6	28-May	6	11-Jun	6
MU1-PM5	28-Apr	6	14-May	4	28-May	4	11-Jun	4
MU1-PM6	24-Apr	6	14-May	6	28-May	6	11-Jun	7
MU1-PM7	23-Apr	6	14-May	5	28-May	5	11-Jun	4
MU1-PM8	27-Apr	6	13-May	7	27-May	6	10-Jun	6
MU1-PM9	24-Apr	7	13-May	11	27-May	8	10-Jun	6
MU1-PM10	27-Apr	8	13-May	5	27-May	9	10-Jun	7
MU1-PM11	28-Apr	7	15-May	4	29-May	4	12-Jun	4
MU1-PM12	28-Apr	5	13-May	4	27-May	5	10-Jun	4
MU1-PM13	29-Apr	4	13-May	4	27-May	3	10-Jun	3
MU1-PM14A	28-Apr	7	14-May	6	28-May	5	11-Jun	5
MU1-PM15	28-Apr	8	13-May	7	27-May	8	10-Jun	7
MU1-PM16	28-Apr	6	15-May	5	29-May	5	12-Jun	5
MU1-PM17	28-Apr	6	13-May	5	27-May	5	10-Jun	4
MU1-PM18	28-Apr	6	13-May	5	27-May	5	10-Jun	4
MU1-PM19	28-Apr	7	15-May	5	29-May	5	15-Jun	5

Note: all dates are 2015.

Number of data:	76
Number of detectable values:	76
Detection frequency:	100%
Average background concentration:	5.7
Standard deviation:	1.4
UCL (avg + 5 std. dev. or 15 mg/L*)	21

* Since the standard deviation is less than 15 mg/L, the UCL was calculated by adding 15 mg/L to the average background concentration in accordance with LC 11.4 of SUA-1601.

Monitoring Interval: **Shallow Monitor (SM)**

Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	508	15-May	557	29-May	518	12-Jun	542
MU1-SM2	23-Apr	622	15-May	671	29-May	589	12-Jun	621
MU1-SM3	29-Apr	642	14-May	641	28-May	642	11-Jun	656
MU1-SM4	29-Apr	690	13-May	710	27-May	703	10-Jun	679
MU1-SM5	20-Apr	634	14-May	628	28-May	634	11-Jun	644
MU1-SM6	21-Apr	669	15-May	658	29-May	649	12-Jun	753
MU1-SM7	22-Apr	629	15-May	647	29-May	655	12-Jun	672
MU1-SM8	20-Apr	627	15-May	645	29-May	632	15-Jun	632
MU1-SM9	20-Apr	675	15-May	696	29-May	745	12-Jun	714
MU1-SM10	23-Apr	552	14-May	606	28-May	567	11-Jun	574
MU1-SM11	29-Apr	588	15-May	605	29-May	622	12-Jun	591
MU1-SM12	29-Apr	659	14-May	632	28-May	640	11-Jun	650
MU1-SM13	29-Apr	612	13-May	561	27-May	556	10-Jun	565
MU1-SM14	21-Apr	694	14-May	669	28-May	662	11-Jun	665

Note: all dates are 2015.

Number of data:	56
Number of detectable values:	56
Detection frequency:	100%
Average background concentration:	633.9
Standard deviation:	52.5
UCL (avg + 5 std. dev.)	896

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Conductivity, Laboratory (µmhos/cm)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	1,440	15-May	1,360	29-May	1,360	12-Jun	1,340
MU1-SM2	23-Apr	1,670	15-May	1,830	29-May	1,730	12-Jun	1,740
MU1-SM3	29-Apr	1,910	14-May	1,990	28-May	1,850	11-Jun	1,960
MU1-SM4	29-Apr	1,890	13-May	1,910	27-May	1,820	10-Jun	1,920
MU1-SM5	20-Apr	1,900	14-May	1,970	28-May	1,830	11-Jun	1,860
MU1-SM6	21-Apr	2,020	15-May	2,000	29-May	1,970	12-Jun	1,910
MU1-SM7	22-Apr	1,960	15-May	1,990	29-May	2,000	12-Jun	1,980
MU1-SM8	20-Apr	1,740	15-May	1,640	29-May	1,640	15-Jun	1,640
MU1-SM9	20-Apr	2,170	15-May	2,150	29-May	2,130	12-Jun	2,090
MU1-SM10	23-Apr	1,600	14-May	1,670	28-May	1,570	11-Jun	1,640
MU1-SM11	29-Apr	1,570	15-May	1,520	29-May	1,500	12-Jun	1,480
MU1-SM12	29-Apr	1,830	14-May	1,860	28-May	1,770	11-Jun	1,830
MU1-SM13	29-Apr	1,570	13-May	1,500	27-May	1,380	10-Jun	1,450
MU1-SM14	21-Apr	1,950	14-May	1,790	28-May	1,880	11-Jun	1,930

Note: all dates are 2015.

Number of data:	56
Number of detectable values:	56
Detection frequency:	100%
Average background concentration:	1,779
Standard deviation:	218.8
UCL (avg + 5 std. dev.)	2,873

Monitoring Interval: **Shallow Monitor (SM)**
Parameter: **Choride (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-SM1	22-Apr	4	15-May	5	29-May	4	12-Jun	4
MU1-SM2	23-Apr	4	15-May	4	29-May	5	12-Jun	4
MU1-SM3	29-Apr	3	14-May	4	28-May	4	11-Jun	4
MU1-SM4	29-Apr	3	13-May	4	27-May	4	10-Jun	3
MU1-SM5	20-Apr	5	14-May	4	28-May	4	11-Jun	4
MU1-SM6	21-Apr	5	15-May	5	29-May	5	12-Jun	4
MU1-SM7	22-Apr	5	15-May	5	29-May	4	12-Jun	5
MU1-SM8	20-Apr	4	15-May	4	29-May	3	15-Jun	3
MU1-SM9	20-Apr	4	15-May	4	29-May	4	12-Jun	4
MU1-SM10	23-Apr	5	14-May	6	28-May	5	11-Jun	6
MU1-SM11	29-Apr	5	15-May	6	29-May	5	12-Jun	5
MU1-SM12	29-Apr	4	14-May	5	28-May	4	11-Jun	4
MU1-SM13	29-Apr	4	13-May	3	27-May	3	10-Jun	3
MU1-SM14	21-Apr	5	14-May	4	28-May	4	11-Jun	4

Note: all dates are 2015.

Number of data:	56
Number of detectable values:	56
Detection frequency:	100%
Average background concentration:	4.3
Standard deviation:	0.8
UCL (avg + 5 std. dev. or 15 mg/L*)	19

* Since the standard deviation is less than 15 mg/L, the UCL was calculated by adding 15 mg/L to the average background concentration in accordance with LC 11.4 of SUA-1601.

Monitoring Interval: **Deep Monitor (DM)**

Parameter: **Alkalinity, Total (mg/L as $CaCO_3$)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	329	14-May	361	28-May	390	11-Jun	385
MU1-DM2	29-Apr	338	14-May	444	28-May	455	11-Jun	429
MU1-DM3A	28-Apr	368	15-May	263	29-May	295	12-Jun	331
MU1-DM4	29-Apr	410	14-May	420	28-May	450	11-Jun	414
MU1-DM5	29-Apr	263	14-May	339	28-May	389	11-Jun	409
MU1-DM6	28-Apr	347	15-May	406	29-May	400	12-Jun	430
MU1-DM7	28-Apr	401	15-May	543	29-May	428	12-Jun	526
MU1-DM8	28-Apr	458	15-May	437	29-May	433	12-Jun	426
MU1-DM9	28-Apr	653	15-May	453	29-May	523	12-Jun	537
MU1-DM10	28-Apr	393	15-May	410	29-May	446	12-Jun	465
MU1-DM11	28-Apr	497	15-May	507	29-May	499	12-Jun	533
MU1-DM12	28-Apr	607	14-May	529	28-May	479	11-Jun	443
MU1-DM13	28-Apr	569	14-May	592	28-May	624	11-Jun	795
MU1-DM14	28-Apr	930	15-May	626	29-May	744	12-Jun	841

Outlier removed from data set.

Note: all dates are 2015.

Number of data:	52
Number of detectable values:	52
Detection frequency:	100%
Average background concentration:	453.5
Standard deviation:	95.6
UCL (avg + 5 std. dev.)	931

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Conductivity, Laboratory (µmhos/cm)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	1,450	14-May	2,790	28-May	2,840	11-Jun	2,920
MU1-DM2	29-Apr	2,130	14-May	2,980	28-May	2,890	11-Jun	2,950
MU1-DM3A	28-Apr	3,130	15-May	3,330	29-May	3,510	12-Jun	3,500
MU1-DM4	29-Apr	2,630	14-May	2,880	28-May	2,740	11-Jun	2,850
MU1-DM5	29-Apr	2,830	14-May	3,140	28-May	3,060	11-Jun	3,200
MU1-DM6	28-Apr	2,840	15-May	2,970	29-May	2,990	12-Jun	2,970
MU1-DM7	28-Apr	3,050	15-May	2,250	29-May	2,990	12-Jun	3,110
MU1-DM8	28-Apr	3,100	15-May	3,070	29-May	3,090	12-Jun	3,100
MU1-DM9	28-Apr	4,410	15-May	3,210	29-May	3,180	12-Jun	3,090
MU1-DM10	28-Apr	2,990	15-May	2,970	29-May	2,990	12-Jun	3,030
MU1-DM11	28-Apr	2,560	15-May	2,510	29-May	2,500	12-Jun	2,520
MU1-DM12	28-Apr	5,320	14-May	4,630	28-May	4,280	11-Jun	4,340
MU1-DM13	28-Apr	2,920	14-May	3,030	28-May	3,000	11-Jun	3,430
MU1-DM14	28-Apr	4,210	15-May	3,100	29-May	3,430	12-Jun	3,510

Outlier removed from data set.
Note: all dates are 2015.

Number of data:	50
Number of detectable values:	50
Detection frequency:	100%
Average background concentration:	3,093
Standard deviation:	415.0
UCL (avg + 5 std. dev.)	5,168

Monitoring Interval: **Deep Monitor (DM)**
Parameter: **Sulfate (mg/L)**

	Round 1		Round 2		Round 3		Round 4	
Monitor Well	Date	Value	Date	Value	Date	Value	Date	Value
MU1-DM1	29-Apr	182	14-May	235	28-May	203	11-Jun	164
MU1-DM2	29-Apr	344	14-May	287	28-May	284	11-Jun	327
MU1-DM3A	28-Apr	775	15-May	658	29-May	802	12-Jun	790
MU1-DM4	29-Apr	47	14-May	37	28-May	44	11-Jun	55
MU1-DM5	29-Apr	560	14-May	400	28-May	401	11-Jun	453
MU1-DM6	28-Apr	11	15-May	9	29-May	10	12-Jun	8
MU1-DM7	28-Apr	50	15-May	36	29-May	40	12-Jun	40
MU1-DM8	28-Apr	27	15-May	24	29-May	27	12-Jun	23
MU1-DM9	28-Apr	67	15-May	78	29-May	95	12-Jun	88
MU1-DM10	28-Apr	126	15-May	115	29-May	106	12-Jun	103
MU1-DM11	28-Apr	5	15-May	5	29-May	5	12-Jun	5
MU1-DM12	28-Apr	932	14-May	924	28-May	974	11-Jun	1,050
MU1-DM13	28-Apr	100	14-May	109	28-May	90	11-Jun	91
MU1-DM14	28-Apr	264	15-May	277	29-May	282	12-Jun	272

Note: all dates are 2015.

Number of data:	56
Number of detectable values:	56
Detection frequency:	100%
Average background concentration:	241
Standard deviation:	290.2
UCL (avg + 5 std. dev.)	1,692