

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

May 16, 2016

Attn: Document Control Desk, Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Quarterly Excursion Monitoring Report
Source Materials License No. SUA-1534, Docket No. 40-8943

Dear Sir or Madam:

Enclosed please find one copy of the Excursion Monitoring Report for the Crow Butte Uranium Project. The report is provided in accordance with License Condition 11.1(A) of Source Materials License SUA-1534. This report covers the first quarter of 2016.

If you have any questions concerning the report, please feel free to call me at (308) 665-2215 ext. 114.

Sincerely,
CAMECO RESOURCES
CROW BUTTE OPERATION

Larry Teahon
Manager of Safety, Health, Environment & Quality

cc: Deputy Director, Division of Decommissioning
Uranium Recovery and Waste Programs
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Mail Stop T-8F5
11545 Rockville Pike
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Rockville, MD 20852-2738

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P.O. Box 169
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CROW BUTTE URANIUM PROJECT

**EXCURSION MONITORING
REPORT**

for

FIRST QUARTER, 2016

USNRC Source Materials License SUA 1534

**CAMECO RESOURCES
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Excursion Monitoring and Corrective Actions

On October 28, 2015, well SM10-21 was placed on excursion status for exceedance of upper control limits. The well was removed from excursion status on January 26, 2016.

On November 20, 2015, CM11-10 was placed on excursion status for exceedance of upper control limits. The well was removed from excursion status on January 19, 2016.

A summary of the weekly excursion indicator parameters and laboratory reports are included in Appendix A and Appendix B respectively.

Mine Unit 6 and 8 Future Water Quality Monitoring

In order to get a better understanding of the water chemistry in the English Creek area of Mine Units 6 and 8, Crow Butte implemented the following sampling plan:

1. Collected in Q4-2015, ten isotopic uranium samples from Mine Unit 6 and 8 wellfields that have not undergone restoration (RO) treatment. (Data submitted February 8, 2016).
2. Collected in Q4-2015, seven isotopic uranium samples from Mine Unit 6 and 8 production zone monitor wells that have not been impacted by mining fluids (e.g. no evidence of increasing trends in excursion indicator parameters). (Data submitted February 8, 2016).
3. Collected in Q4-2015, twenty four isotopic uranium samples from Mine Unit 6 and 8 shallow monitoring well wells that have been on excursion or with increasing excursion indicator parameters trends. (Data submitted February 8, 2016).
4. Collected in Q1-2016, seven isotopic uranium samples from Mine Unit 6 and 8 shallow monitoring wells that have not been on excursion and which do not show evidence of increasing or unusual trends in the excursion indicator parameters.
5. Collected in Q1-2016, nine excursion parameter water samples from the sediment sampling locations along English Creek. The samples included the headwaters/spring areas, midstream, and downstream along with the downstream impoundments.
6. Collected in Q4-2015, four core samples from four different locations within Mine Units 6 and 8. Testing of these samples will be based upon the results of the isotopic uranium sampling. (Data submitted February 8 2016).

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7. Collect quarterly uranium samples from twenty four shallow monitor wells within the English Creek area. (Q1 – 2016)

The laboratory reports for the locations described in item #4, #5 and #7 are included in Appendix C, D, and E.

Appendix A

Summary of

Weekly Excursion Indicator Parameter Values

First Quarter, 2016



Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 01/26/2016

Analysis Date: 01/26/2016

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
SM08-006	246	328	274	647	734	612	12	23	19
SM08-007	248	348	290	600	763	636	9.9	23	19
SM08-008	237	340	283	514	864	720	5.9	24	20
SM08-009	236	353	294	514	886	738	5.7	23	19
SM08-010	242	331	276	593	749	624	10	24	20
SM08-011	229	323	269	553	792	660	8.9	24	20
SM08-012	239	323	269	581	834	695	9.4	25	20
SM08-013	226	328	274	556	880	733	13	31	26
SM08-014	232	325	271	568	720	600	10	24	20
SM08-015	222	305	254	544	789	658	8.6	35	29
SM08-016	223	331	276	555	828	690	8.5	24	20
SM09-001	169	255	212	420	648	540	3.4	31	26
SM09-002	162	230	192	386	665	554	3.3	72	60
SM09-003	159	239	199	386	605	504	3.1	29	24
SM09-004	147	230	192	375	562	468	5.7	26	22
SM09-005	144	206	172	320	446	372	2.7	22	18
SM10-021	236	360	300	610	806	672	24	27	23
SM11-001	163	240	200	415	605	504	6.2	24	20
SM11-002	140	202	168	328	446	372	3.9	21	17
SM11-003	143	210	175	324	490	408	1.7	20	17
SM11-004	140	200	167	312	446	372	2.1	20	17
SM11-005	139	204	170	323	475	396	3.1	20	17
SM11-006	141	207	173	328	490	408	4.6	25	21



Sample Date: 01/19/2016

Analysis Date: 01/19/2016

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Crow Butte Project
Monitor Well Laboratory Report

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
CM07-011	293	432	360	1904	2817	2347	181	281	234
CM07-012	295	422	352	1910	2794	2328	181	289	241
CM07-013	295	436	364	1926	2841	2368	180	287	239
CM07-014	296	422	352	1930	2772	2310	182	274	228
CM07-015	300	432	360	1934	2822	2352	181	284	236
CM07-016	299	441	367	1933	2831	2359	180	281	234
CM10-008	319	475	396	1843	2707	2256	175	265	221
CM10-009	320	468	390	1830	2693	2244	170	269	224
CM10-010	345	475	396	1952	2736	2280	190	275	229
CM10-011	332	481	401	1878	2808	2340	176	288	240
CM10-012	323	446	372	1816	2923	2436	170	327	272
CM10-013	343	481	401	1755	2779	2316	166	287	239
CM10-014	348	490	408	1722	2578	2148	164	251	209
CM10-015	342	504	420	1743	2491	2076	163	253	211
CM10-016	315	484	403	1833	2650	2208	163	253	211
CM10-017	338	475	396	1807	2664	2220	163	248	206
CM11-010	329	436	364	1942	2707	2256	182	284	236
IJ013P	282	415	346	1140	2900	2417	81	278	232
PR008	241	484	403	950	2866	2388	69	282	235
PR015	252	444	370	995	2792	2327	64	268	223
SM03-001	208	374	312	678	1122	935	14	85	71
SM03-002	179	305	254	452	805	671	3.6	40	34
SM03-003	177	297	247	462	729	607	5.7	30	25
SM04-010A	295	354	295	718	1053	877	12	36	30
SM04-011A	292	554	462	710	1469	1224	11	139	115
SM07-015	144	200	167	336	495	413	3.2	24	20
SM07-016	140	199	166	334	451	376	3.3	24	20
SM07-017	181	209	174	410	539	449	3.4	30	25
SM07-018	139	217	181	338	513	427	3	23	19
SM07-019	144	212	176	353	599	499	3.3	38	31
SM07-020	148	228	190	345	583	486	2.1	28	23
SM07-021	145	216	180	344	534	445	2.6	27	23

Tuesday, January 19, 2016



Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 01/19/2016

Analysis Date: 01/19/2016

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
SM07-022	148	217	181	344	644	536	2.6	54	45
SM07-023	177	278	232	455	850	708	3.8	59	50
SM07-024	187	259	216	571	809	674	8.1	45	37
SM07-025	156	202	168	361	645	538	2.9	52	44
SM10-016	254	382	318	585	850	708	11	28	23
SM10-017	246	374	312	561	835	696	11	28	23
SM10-018	239	346	288	537	763	636	8.3	24	20
SM10-019	249	369	307	569	778	648	9.5	25	21
SM10-020	235	360	300	598	792	660	23	27	22
SM10-021	238	360	300	616	806	672	25	27	23
SM10-022	240	360	300	556	778	648	11	23	20



WJ

Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 01/12/2016

Analysis Date: 01/12/2016

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
CM06-009	285	428	356	1924	2866	2388	174	285	238
CM06-010	299	429	358	1931	2952	2460	179	327	272
CM08-001	294	455	379	1933	3110	2592	175	372	310
CM08-002	297	395	329	1911	3125	2604	178	334	278
CM08-003	304	432	360	1927	3211	2676	183	367	306
CM08-004	296	428	356	1899	3125	2604	179	328	274
CM08-005	300	425	354	1907	3067	2556	179	328	274
CM08-006	295	432	360	1900	3067	2556	178	317	264
CM08-007	307	425	354	1895	3154	2628	180	396	330
CM08-008	310	418	348	1896	3211	2676	182	415	346
CM08-009	312	452	377	1854	3053	2544	174	325	271
CM09-008	294	418	348	1803	2952	2460	175	366	305
CM09-009	302	475	396	1792	2923	2436	177	334	278
CM09-010	299	359	299	1776	2390	1992	175	292	244
CM09-011	300	445	371	1799	2707	2256	176	284	236
CM11-010	347	436	364	2009	2707	2256	185	284	236
CM11-012	298	433	361	1805	2794	2328	171	268	223
CM11-013	297	418	348	1802	2722	2268	176	291	242
CM11-014	310	468	390	1834	3024	2520	178	357	298
CM11-015	294	431	359	1781	2765	2304	174	289	241
CM11-016	300	451	376	1758	2794	2328	173	276	230
CM11-017	298	438	365	1771	2837	2364	171	301	251
CM11-018	306	445	371	1800	2722	2268	174	297	247
CM11-019	307	448	373	1801	2779	2316	172	300	250
SM04-001	157	248	206	370	772	643	2.6	52	43
SM04-002	190	513	393	640	1256	1039	14	127	88
SM04-005A	196	367	306	539	1236	1030	11	106	88
SM08-001	232	374	312	508	763	636	6.8	25	21
SM08-002	237	353	294	526	778	648	6.2	24	20
SM08-003	238	331	276	515	720	600	7	24	20
SM08-004	222	323	269	523	819	683	9	25	21
SM08-005	250	346	288	578	749	624	9.7	23	19



Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 01/12/2016

Analysis Date: 01/12/2016

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
SM08-006	247	328	274	641	734	612	12	23	19
SM08-007	248	348	290	603	763	636	10	23	19
SM08-008	238	340	283	514	864	720	5.7	24	20
SM08-009	238	353	294	513	886	738	5.7	23	19
SM08-010	243	331	276	592	749	624	11	24	20
SM08-011	230	323	269	555	792	660	8.9	24	20
SM08-012	239	323	269	580	834	695	9.5	25	20
SM08-013	227	328	274	556	880	733	13	31	26
SM08-014	231	325	271	565	720	600	11	24	20
SM08-015	222	305	254	544	789	658	8.4	35	29
SM08-016	223	331	276	555	828	690	8.6	24	20
SM09-001	169	255	212	419	648	540	3.3	31	26
SM09-002	162	230	192	388	665	554	3.5	72	60
SM09-003	160	239	199	384	605	504	3.1	29	24
SM09-004	147	230	192	374	562	468	5.7	26	22
SM09-005	145	206	172	319	446	372	2.7	22	18
SM10-021	235	360	300	615	806	672	24	27	23
SM11-001	162	240	200	414	605	504	6	24	20
SM11-002	141	202	168	327	446	372	3.9	21	17
SM11-003	143	210	175	321	490	408	2.2	20	17
SM11-004	140	200	167	310	446	372	2	20	17
SM11-005	139	204	170	321	475	396	3.1	20	17
SM11-006	142	207	173	326	490	408	4.7	25	21



Crow Butte Project Monitor Well Laboratory Report

Sample Date: 01/05/2016

Analysis Date: 01/05/2016

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
CM07-011	294	432	360	1900	2817	2347	183	281	234
CM07-012	294	422	352	1912	2794	2328	182	289	241
CM07-013	293	436	364	1928	2841	2368	182	287	239
CM07-014	290	422	352	1929	2772	2310	182	274	228
CM07-015	298	432	360	1949	2822	2352	184	284	236
CM07-016	300	441	367	1941	2831	2359	182	281	234
CM10-008	321	475	396	1858	2707	2256	177	265	221
CM10-009	317	468	390	1834	2693	2244	171	269	224
CM10-010	366	475	396	2048	2736	2280	196	275	229
CM10-011	340	481	401	1926	2808	2340	181	288	240
CM10-012	322	446	372	1822	2923	2436	168	327	272
CM10-013	344	481	401	1763	2779	2316	163	287	239
CM10-014	343	490	408	1733	2578	2148	163	251	209
CM10-015	342	504	420	1750	2491	2076	162	253	211
CM10-016	314	484	403	1833	2650	2208	160	253	211
CM10-017	337	475	396	1813	2664	2220	165	248	206
CM11-010	392	436	364	2168	2707	2256	198	284	236
IJ013P	284	415	346	1122	2900	2417	83	278	232
PR008	240	484	403	934	2866	2388	70	282	235
PR015	252	444	370	978	2792	2327	64	268	223
SM03-001	208	374	312	666	1122	935	13	85	71
SM03-002	178	305	254	447	805	671	3.6	40	34
SM03-003	177	297	247	455	729	607	5.4	30	25
SM04-010A	297	354	295	707	1053	877	13	36	30
SM04-011A	292	554	462	696	1469	1224	11	139	115
SM07-015	141	200	167	333	495	413	3.3	24	20
SM07-016	140	199	166	331	451	376	3.6	24	20
SM07-017	179	209	174	402	539	449	3.4	30	25
SM07-018	139	217	181	333	513	427	3.2	23	19
SM07-019	143	212	176	349	599	499	3.2	38	31
SM07-020	147	228	190	340	583	486	1.8	28	23
SM07-021	145	216	180	341	534	445	2.8	27	23



Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 01/05/2016

Analysis Date: 01/05/2016

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
SM07-022	148	217	181	340	644	536	2.6	54	45
SM07-023	177	278	232	449	850	708	3.8	59	50
SM07-024	187	259	216	574	809	674	8.3	45	37
SM07-025	157	202	168	359	645	538	3.5	52	44
SM10-016	252	382	318	576	850	708	11	28	23
SM10-017	246	374	312	551	835	696	11	28	23
SM10-018	239	346	288	527	763	636	8.4	24	20
SM10-019	247	369	307	556	778	648	9.3	25	21
SM10-020	234	360	300	591	792	660	24	27	22
SM10-021	235	360	300	615	806	672	28	27	23
SM10-022	241	360	300	545	778	648	11	23	20

Appendix B

Monitor Well Laboratory Reports

First Quarter, 2016

Submitted by:
Crow Butte Resources, Inc.
P.O. Box 169
Crawford, NE 69339

NRC
Excursion Monitoring Report
Quarter 1 of 2016

Submitted to:
Document Control Desk, Director
Office of Nuclear Material Safety & Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Permit No. SUA-1534

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
BOW96-001	216	219	217	509	518	514	7.6	7.9	7.7
CM02-005	345	362	353	2090	2169	2122	204	211	207
CM02-006	272	282	277	1202	1242	1220	89	96	93.3
CM02-007	305	312	308	1534	1594	1562	124	134	128.9
CM03-005	298	302	301	1936	1958	1943	185	188	186
CM03-006	295	298	297	1920	1935	1929	182	185	183.5
CM04-001	306	311	308	1841	1849	1844	176	180	178
CM04-002	306	311	308	1845	1856	1851	177	180	178.3
CM04-003	301	307	305	1847	1860	1853	175	178	176.3
CM04-004	299	305	302	1847	1856	1851	174	179	176.1
CM05-001	305	314	309	1736	1852	1825	155	175	170.4
CM05-002	301	310	305	1848	1860	1854	177	181	178.6
CM05-003	304	312	308	1844	1854	1849	175	180	177.7
CM05-004	307	315	310	1849	1857	1853	177	183	179.1
CM05-005	303	309	307	1846	1854	1849	176	180	177.6
CM05-006	302	308	306	1849	1858	1854	175	180	177.1
CM05-007	300	307	305	1846	1850	1849	174	179	176.3
CM05-008	304	308	306	1860	1871	1868	176	178	177
CM05-009	300	306	302	1856	1864	1860	172	176	174.4
CM05-010	291	295	293	1884	1893	1890	173	174	173.6
CM05-011	304	312	308	1904	1911	1909	173	178	176.7
CM05-012	294	301	297	1879	1892	1885	178	182	179
CM05-013	281	288	285	1868	1881	1876	174	177	176.1
CM05-018	299	302	301	1914	1932	1922	180	183	182

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
CM05-019	299	305	302	1902	1920	1912	179	184	181.2
CM05-020	300	303	302	1909	1921	1916	180	187	184.5
CM05-021	300	305	302	1908	1915	1911	180	185	183.3
CM05-022	299	302	301	1910	1914	1912	180	183	181.7
CM05-023	293	298	296	1899	1906	1902	177	182	179.7
CM05-024	298	301	300	1925	1931	1927	180	183	181.5
CM05-025	294	299	297	1927	1935	1932	171	176	174.2
CM05-026	299	304	301	1933	1941	1938	179	183	181.2
CM05-027	297	305	302	1939	1943	1941	181	185	183.2
CM06-001	281	293	286	1843	1901	1868	169	180	173.9
CM06-002	288	297	294	1912	1922	1917	176	182	178.7
CM06-003	291	298	294	1901	1910	1906	176	180	177.4
CM06-004	292	301	297	1915	1924	1920	177	183	179.3
CM06-005	290	295	291	1947	1955	1950	178	182	180
CM06-006	294	303	299	1929	1941	1934	178	182	179.7
CM06-007	285	312	303	1930	2015	1977	181	192	186.1
CM06-008	290	300	297	1923	1928	1926	173	178	176.3
CM06-009	285	289	287	1909	1926	1919	173	177	175.2
CM06-010	290	300	296	1920	1931	1925	176	179	178.2
CM06-012	298	304	301	1902	1922	1914	181	184	182.7
CM06-013	299	303	301	1911	1924	1915	180	185	181.8
CM06-014	294	300	297	1900	1922	1911	177	180	178.7
CM06-015	293	297	296	1910	1925	1920	177	181	179
CM06-016A	298	302	300	1906	1915	1910	177	182	179.5
CM06-017	296	304	301	1899	1910	1905	177	182	179.3
CM06-018	300	303	302	1899	1912	1906	178	185	180.7
CM06-019	305	313	308	1894	1908	1899	178	182	179.8
CM06-025	296	306	302	1888	1898	1893	179	182	180.3
CM06-026	301	307	304	1877	1883	1881	177	182	179.7

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
CM06-028	314	319	317	1820	1823	1821	172	175	173.5
CM06-029	303	310	307	1864	1882	1874	175	179	176.7
CM06-030	313	320	316	1836	1846	1841	174	178	176
CM06-031	313	320	316	1854	1861	1857	174	177	175.5
CM06-032	314	319	317	1860	1866	1864	175	177	175.8
CM07-010	294	300	297	1872	1883	1879	181	185	183.6
CM07-011	289	295	293	1892	1918	1903	180	183	182.1
CM07-012	289	296	293	1891	1914	1904	180	185	182.1
CM07-013	288	295	293	1913	1929	1922	177	182	180.1
CM07-014	290	300	294	1926	1932	1928	180	183	181.7
CM07-015	297	301	299	1931	1949	1936	181	185	182.4
CM07-016	295	300	298	1933	1941	1936	180	184	182
CM08-001	290	298	294	1920	1933	1928	174	181	177.5
CM08-002	293	299	297	1911	1921	1916	177	183	179.7
CM08-003	304	308	307	1927	1946	1936	178	185	182.7
CM08-004	292	296	295	1899	1917	1909	178	181	179.3
CM08-005	296	301	300	1907	1915	1911	179	182	180.2
CM08-006	293	299	296	1895	1906	1900	178	180	179
CM08-007	300	311	304	1880	1895	1888	178	181	179.3
CM08-008	310	312	311	1896	1906	1902	177	185	181.8
CM08-009	311	316	314	1853	1866	1859	174	178	175.7
CM08-010	311	314	312	1839	1855	1846	175	181	177.7
CM08-011	311	316	314	1837	1852	1846	173	179	175.5
CM08-012	312	321	317	1840	1856	1851	170	175	173.2
CM08-019	314	320	318	1804	1821	1814	167	171	169.7
CM08-020	315	323	320	1803	1816	1811	169	171	169.9
CM08-021	315	325	318	1815	1823	1820	168	171	169.6
CM08-022	317	322	320	1819	1829	1826	167	172	170

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
CM08-026	313	317	315	1816	1826	1821	170	172	170.3
CM08-027	313	319	316	1823	1829	1827	170	174	171
CM08-028	317	321	319	1821	1824	1823	169	173	171.2
CM09-008	291	305	297	1794	1810	1803	173	177	175
CM09-009	282	306	300	1787	1870	1806	172	212	183.8
CM09-010	293	300	297	1776	1799	1783	172	179	175.5
CM09-011	300	306	302	1794	1799	1796	175	178	176.3
CM09-012	296	305	300	1799	1825	1803	175	179	176.9
CM09-013	296	302	299	1800	1817	1806	177	180	178.6
CM09-014	296	300	299	1819	1824	1822	181	182	181.9
CM09-015	296	305	300	1810	1839	1821	175	176	175.7
CM09-016	301	307	304	1827	1837	1832	179	181	180
CM09-017	301	306	304	1830	1834	1832	179	181	179.6
CM09-018	299	305	301	1819	1826	1823	176	181	178.7
CM09-019	299	301	300	1838	1844	1840	178	181	179.1
CM09-020	294	299	296	1854	1864	1860	179	181	180.1
CM10-001	314	325	320	1850	1891	1865	174	177	175.7
CM10-002	314	322	316	1834	1850	1843	168	176	172.7
CM10-003	319	328	325	1888	1922	1907	179	189	184.8
CM10-004	323	337	330	1888	1936	1910	180	187	183.3
CM10-005	336	352	340	2007	2033	2019	211	216	213.5
CM10-006	314	317	315	1831	1841	1836	171	175	172.3
CM10-007	313	322	316	1828	1842	1837	170	175	172.8
CM10-008	316	324	321	1833	1858	1843	171	177	173.9
CM10-009	314	328	319	1825	1840	1830	166	171	169.4
CM10-010	338	366	347	1932	2048	1968	181	196	187.4
CM10-011	323	340	328	1861	1926	1880	172	181	176
CM10-012	318	323	322	1813	1822	1817	165	174	168.6
CM10-013	335	345	341	1752	1763	1757	161	166	163.6

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
CM10-014	342	348	346	1720	1733	1725	161	167	163.1
CM10-015	333	342	338	1736	1750	1742	160	163	161.9
CM10-016	312	318	315	1828	1834	1831	160	163	160.9
CM10-017	329	341	335	1805	1814	1809	160	165	161.7
CM10-020	317	329	321	1800	1817	1812	163	164	163.9
CM10-021	317	321	319	1817	1824	1820	162	166	164
CM10-022	320	325	323	1822	1837	1832	165	170	166.7
CM10-023	321	327	324	1825	1839	1833	163	169	165.9
CM10-024	325	332	329	1848	1856	1851	167	172	169
CM10-025	321	328	324	1821	1829	1826	166	168	166.9
CM10-026	311	322	318	1814	1827	1821	166	170	167.3
CM10-027	315	321	318	1843	1857	1848	170	174	171.6
CM10-028	312	325	316	1830	1844	1835	168	171	169.9
CM10-029	311	320	317	1826	1836	1832	169	171	170
CM10-030	316	324	319	1827	1840	1832	168	170	169.3
CM10-031	310	317	314	1823	1833	1828	166	169	167.4
CM10-032	313	318	316	1847	1856	1850	159	162	160.3
CM10-033	324	331	326	1804	1819	1809	157	161	160.1
CM10-034	325	330	327	1796	1811	1801	162	164	162.7
CM11-001	299	305	301	1844	1853	1847	174	178	176.2
CM11-002A	300	305	303	1836	1854	1847	175	179	177.5
CM11-003	304	317	309	1857	1876	1867	176	181	178.3
CM11-004	300	306	302	1833	1839	1835	174	177	174.5
CM11-005	299	306	302	1827	1829	1828	173	175	174.5
CM11-006	310	330	315	1842	1926	1872	176	181	178.3
CM11-007	294	300	298	1820	1824	1822	171	175	173.5
CM11-008	301	306	303	1843	1852	1847	173	176	175.2
CM11-009	292	296	295	1826	1837	1831	169	173	170.7

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
CM11-010	312	392	336	1883	2168	1972	176	198	183.6
CM11-011	299	304	301	1831	1854	1842	171	174	172.7
CM11-012	297	303	299	1792	1805	1797	169	172	170.3
CM11-013	297	303	299	1799	1811	1803	173	176	174.5
CM11-014	301	310	303	1804	1834	1813	173	180	176.2
CM11-015	294	307	300	1781	1790	1787	169	174	171.3
CM11-016	295	301	299	1758	1776	1771	170	173	171.7
CM11-017	298	304	300	1771	1779	1776	169	172	170.8
CM11-018	302	307	305	1792	1806	1801	172	175	173.7
CM11-019	304	318	309	1801	1845	1815	172	178	175.3
IJ013P	277	284	282	1122	1208	1159	80	84	82.4
PR008	238	241	240	925	953	940	68	72	69.4
PR015	246	252	249	961	995	980	61	64	62.7
SM02-001	188	191	190	532	541	536	14	15	14.3
SM02-002	165	168	167	466	472	469	11	11	11
SM02-003	196	199	197	553	563	557	16	16	16
SM03-001	205	208	207	666	678	673	13	14	13.9
SM03-002	176	179	178	445	453	449	3.5	3.8	3.6
SM03-003	175	177	176	452	462	458	5.4	5.9	5.7
SM04-001	156	158	157	366	371	368	2.6	2.8	2.7
SM04-002	188	190	189	636	645	640	13	14	13.7
SM04-003	181	185	184	621	629	625	12	12	12
SM04-004	205	209	207	622	629	626	12	13	12.3
SM04-005A	195	196	196	535	542	538	11	11	11
SM04-006	266	268	267	657	670	661	13	14	13.6
SM04-007	177	182	180	517	529	523	17	19	18
SM04-008	285	292	289	690	707	697	11	12	11.9
SM04-009	278	284	282	672	688	680	12	12	12
SM04-010A	293	297	295	706	720	714	12	13	12.1

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
SM04-011A	287	296	291	696	720	706	11	12	11.1
SM05-001	232	233	233	603	614	607	12	12	12
SM05-002	189	192	191	450	458	454	5.5	5.8	5.6
SM05-003	225	233	227	587	598	592	12	13	12.1
SM05-004	205	210	208	562	571	567	16	17	16.4
SM05-005	234	236	235	599	609	603	11	11	11
SM05-006	207	210	208	573	582	578	13	13	13
SM05-007	210	214	212	572	580	575	9.5	9.8	9.6
SM05-008	206	209	207	558	567	562	12	12	12
SM05-009	203	206	204	548	556	552	11	11	11
SM05-010	206	209	207	550	560	556	10	11	10.2
SM05-011	214	217	216	566	579	574	10	11	10.3
SM05-012	206	209	208	553	562	558	10	10	10
SM05-013	197	199	198	546	554	549	12	13	12.5
SM05-014	178	180	179	479	490	485	8.5	9.3	8.8
SM05-015	202	206	204	545	548	547	12	12	12
SM05-016	181	183	182	449	457	453	5.3	5.5	5.4
SM05-017	165	168	166	411	419	415	2.1	2.5	2.3
SM05-018	171	172	172	429	439	434	2.9	3.3	3.2
SM05-019	182	184	183	476	486	482	4.7	4.9	4.8
SM05-020	176	179	177	474	495	481	5	5.5	5.3
SM05-021	175	177	176	452	463	458	4.6	5	4.8
SM05-022	180	183	182	461	473	467	3.4	3.8	3.6
SM05-023	180	182	181	455	467	461	3.3	3.7	3.4
SM05-024	171	173	172	438	448	444	5.2	5.6	5.3
SM05-025	171	173	172	463	472	467	6.2	6.5	6.4
SM06-001	206	213	208	538	545	542	6.9	8	7.4
SM06-002	204	210	206	550	555	552	10	11	10.3

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
SM06-003	201	203	202	537	550	545	9.8	11	10.7
SM06-004	205	209	207	528	535	530	7.8	8.6	8.3
SM06-005	213	215	214	522	527	525	6.9	7.5	7.3
SM06-006	222	225	223	477	482	480	3.2	3.4	3.3
SM06-007	224	226	226	497	502	499	6.3	6.7	6.5
SM06-008	204	206	205	495	501	498	7.6	8	7.8
SM06-009	220	223	221	486	493	488	5.4	5.9	5.7
SM06-010	201	204	203	489	504	498	7.9	8.5	8.3
SM06-011	209	213	212	514	521	519	11	11	11
SM06-012	234	237	235	515	525	521	6.8	7	6.9
SM06-013	239	241	240	529	546	540	6.7	7	6.9
SM06-014	203	206	205	548	559	555	12	13	12.5
SM06-015	205	208	206	534	546	541	11	11	11
SM06-016	208	210	209	444	454	450	3.5	3.9	3.7
SM06-017	233	235	234	487	493	489	3.8	4	3.9
SM06-018	198	201	200	549	559	554	14	15	14.3
SM06-019	205	207	206	494	502	498	8.5	9	8.7
SM06-020	211	214	213	541	552	548	11	12	11.5
SM06-021	215	218	217	548	559	555	12	13	12.2
SM06-022	208	210	209	472	481	477	6.5	6.7	6.6
SM06-023	254	258	256	547	564	557	6.8	7.2	6.9
SM06-024	236	239	237	541	552	547	8.9	9.3	9.1
SM06-025	215	217	216	546	556	552	12	13	12.2
SM06-026	204	206	205	470	479	474	6.8	7.3	7.1
SM06-027	224	230	227	507	519	513	7.2	7.6	7.4
SM06-028	274	277	276	683	695	690	14	15	14.2
SM07-001	172	181	176	432	446	440	3.6	4.2	3.9
SM07-002	163	165	164	399	407	402	3.4	3.7	3.5
SM07-003	168	172	170	432	441	436	4.6	5	4.8

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
SM07-004	162	165	164	396	406	401	3.4	3.6	3.5
SM07-005	167	169	168	419	428	423	3.3	3.7	3.5
SM07-006	151	154	153	364	373	368	4.9	5.2	5.0
SM07-007	168	169	169	427	437	432	4.5	4.9	4.6
SM07-008	167	169	168	476	487	482	8	8.5	8.2
SM07-009	166	169	168	416	427	421	4.1	4.4	4.3
SM07-010	167	169	167	438	449	442	3.8	4.4	4.0
SM07-011	142	143	142	340	349	344	3.1	3.4	3.2
SM07-012	166	168	167	437	448	442	4.3	4.6	4.5
SM07-013	149	152	151	366	375	369	5.1	5.4	5.3
SM07-014	135	137	136	327	336	331	2.5	3	2.8
SM07-015	141	144	142	333	339	335	3	3.3	3.1
SM07-016	138	140	139	330	336	332	3	3.6	3.3
SM07-017	165	181	176	375	410	397	2.7	3.4	3.1
SM07-018	138	139	139	333	339	336	2.9	3.2	3.0
SM07-019	142	144	143	347	354	351	3.2	3.8	3.4
SM07-020	146	148	146	337	345	341	1.8	2.2	2.0
SM07-021	142	145	144	338	344	342	2.4	2.8	2.6
SM07-022	146	148	147	339	345	343	2.6	2.9	2.7
SM07-023	175	177	176	446	456	452	2.7	4.3	3.8
SM07-024	185	187	186	571	589	578	8.1	8.7	8.3
SM07-025	155	157	155	356	361	359	2.8	3.5	3.0
SM08-001	231	233	232	505	512	508	6.1	6.8	6.5
SM08-002	234	237	236	519	526	523	6	6.3	6.2
SM08-003	225	238	229	507	515	511	6.7	7	6.9
SM08-004	220	224	222	517	523	521	8.7	9.2	8.9
SM08-005	247	250	248	573	579	576	9.4	9.7	9.5
SM08-006	242	249	246	641	662	654	12	13	12.7

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
SM08-007	245	249	247	600	611	604	9.8	10	10.0
SM08-008	236	238	237	508	515	512	5.5	5.9	5.7
SM08-009	235	238	236	508	514	512	5.7	6	5.9
SM08-010	240	243	242	588	598	593	10	11	10.3
SM08-011	228	231	230	545	555	550	8.7	8.9	8.9
SM08-012	237	240	239	574	581	578	9.3	9.5	9.4
SM08-013	224	228	226	548	556	552	12	13	12.3
SM08-014	230	232	231	559	568	563	10	11	10.3
SM08-015	220	223	222	536	544	541	8.3	8.6	8.5
SM08-016	221	225	223	546	555	551	8.2	8.6	8.4
SM08-017	236	238	237	552	558	555	7.8	8.4	8.1
SM08-018	225	227	226	532	539	536	8.6	9.1	8.9
SM08-019	229	232	231	550	559	554	8.8	9.2	9.0
SM08-020	221	227	223	533	550	545	8.2	8.8	8.5
SM08-021	225	227	226	556	567	561	8.7	9.1	9.0
SM08-022	230	233	232	579	601	588	8.6	9.3	8.9
SM08-023	222	225	224	549	562	553	8.6	8.8	8.8
SM08-024	226	229	228	559	583	570	9.3	9.6	9.4
SM08-025	237	241	239	613	638	622	11	11	11
SM08-026	228	231	229	543	561	551	8.6	9.1	8.9
SM08-027	232	235	233	515	527	520	6.5	6.9	6.7
SM08-028	236	241	238	591	621	610	7.4	7.7	7.5
SM08-029	250	251	250	617	628	621	13	13	13
SM08-030	192	197	194	445	458	451	10	11	10.2
SM08-031	228	230	230	507	518	513	6.7	7	6.9
SM09-001	168	169	169	417	420	418	3.3	3.8	3.5
SM09-002	161	162	162	384	389	387	3.3	3.6	3.4
SM09-003	159	160	160	382	386	384	3.1	3.3	3.1
SM09-004	145	147	146	371	375	373	5.6	5.8	5.7

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
SM09-005	143	145	144	315	320	317	2.4	2.7	2.6
SM09-006	140	146	142	306	310	308	1.9	2.8	2.4
SM09-007	161	166	163	396	404	400	3.2	3.6	3.4
SM09-008	161	164	162	391	398	393	1.8	2.3	2.2
SM09-009	151	155	153	370	374	372	3.4	3.8	3.6
SM09-010	144	150	146	344	350	347	2.1	2.7	2.4
SM09-011	146	150	148	352	359	355	2.9	3.3	3
SM09-012	160	164	161	392	398	395	2.6	2.9	2.7
SM09-013	142	147	144	335	341	338	2.9	3.4	3.1
SM09-014	138	142	140	316	321	319	1.8	2.5	2.1
SM09-015	136	141	138	314	319	317	1.9	2.5	2.1
SM09-016	140	142	141	302	307	305	1.2	2.1	1.6
SM09-017	138	143	139	321	324	323	3	3.4	3.2
SM09-018	141	143	142	318	323	321	1.4	2.1	1.8
SM09-019	135	140	137	308	312	310	2.5	3.2	2.7
SM09-020	138	142	139	314	319	317	2.7	3.3	2.9
SM10-001	277	287	281	671	707	689	13	14	13.5
SM10-002	222	227	224	517	534	524	7.7	8.3	7.9
SM10-003	246	249	247	558	562	560	7.7	8.2	7.9
SM10-004	236	238	237	528	535	531	6.8	7.1	6.9
SM10-005	237	239	238	525	534	530	6.5	6.8	6.7
SM10-006	281	324	297	669	784	716	12	15	13.2
SM10-007	281	311	294	681	757	716	13	15	14
SM10-008	276	293	283	652	699	673	13	15	13.7
SM10-009	239	246	243	544	557	550	8.4	8.6	8.5
SM10-010	236	238	237	535	542	539	7.7	8.2	8.0
SM10-011	236	258	245	555	621	584	8.7	11	9.6
SM10-012	260	273	267	620	658	643	11	12	11.5

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
SM10-013	235	238	236	545	555	550	9.1	9.4	9.3
SM10-014A	246	248	247	579	587	584	9.9	10	10.0
SM10-015	240	242	241	552	558	555	9.1	9.3	9.2
SM10-016	248	255	252	576	591	584	11	11	11
SM10-017	242	246	245	551	565	559	10	11	10.6
SM10-018	236	239	238	527	539	533	7.8	8.4	8.1
SM10-019	245	249	247	556	569	563	8.9	9.5	9.2
SM10-020	232	235	234	578	598	588	20	24	21.7
SM10-021	230	238	235	607	625	613	23	31	25.4
SM10-022	239	241	240	545	557	552	11	11	11
SM10-023	232	236	234	550	571	564	15	16	15.9
SM10-024	227	229	228	539	550	545	11	11	11
SM10-025	225	227	226	531	544	537	10	11	10.6
SM10-026	243	248	245	575	591	583	14	15	14.7
SM10-027	264	276	272	596	617	605	8.6	9.4	9.1
SM10-028A	232	234	233	623	648	639	29	31	30.3
SM10-029A	264	267	266	597	620	611	11	13	12
SM10-030	235	239	237	527	541	534	6.9	7.4	7.1
SM10-031	232	235	234	542	553	547	7.7	8.4	8.0
SM10-032	232	235	234	530	540	535	6.7	7.4	7.1
SM11-001	160	163	161	408	415	412	5.9	6.2	6.0
SM11-002	138	141	139	322	328	325	3.7	3.9	3.8
SM11-003	141	143	142	320	324	321	1.7	2.3	2.2
SM11-004	138	140	139	308	312	309	1.9	2.2	2.0
SM11-005	138	139	138	317	323	320	3.1	3.3	3.1
SM11-006	139	142	141	321	328	324	4.6	5.2	4.8
SM11-007	140	143	142	307	312	310	2.5	3.5	2.9
SM11-009	149	151	150	309	315	312	1	1.2	1.1
SM11-010	155	156	156	319	325	323	1.3	1.7	1.6

Well ID	Alkalinity			Conductivity			Chloride		
	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean
SM11-011	148	150	150	346	352	349	2.7	2.9	2.8
SM11-012	142	143	143	328	334	331	2.9	3.2	3.1
SM11-013	140	143	141	294	301	298	1.5	2.1	1.9
SM11-014	136	138	137	295	301	298	2.2	2.4	2.3
SM11-015	136	138	137	307	313	310	2.6	2.8	2.7
SM11-016	143	145	144	301	305	303	1.8	2.2	2.1
SM11-017	141	143	142	295	300	298	2.8	3.1	3.0
SM11-018	139	140	139	300	305	302	2.8	3	2.9
SM11-019	139	141	140	314	319	316	1.6	1.9	1.7
SM11-020	160	162	161	403	411	408	5.1	5.6	5.4
SM11-022	166	168	167	460	466	464	7.1	7.3	7.2
SM11-023	166	167	166	411	417	414	7	7.4	7.2
SM11-024	154	156	155	400	403	401	3.2	3.7	3.5
SM11-025	158	160	159	406	412	409	2.5	2.8	2.8
SM11-026	148	150	149	348	360	357	2.7	2.9	2.8

Appendix C

Laboratory Reports

Seven Isotopic Samples

Chadron Monitor Wells Located near the English Creeks Drainage

First Quarter, 2016

CM6-10

CM6-29

CM8-1

CM8-4

CM8-11

CM8-19

CM8-27



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SM Excursion Isotopic Uranium Sample
Lab ID: C16040499-001
Client Sample ID: CM6-10

Report Date: 04/27/16
Collection Date: 03/25/16
Date Received: 04/15/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Uranium 234	5.2	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 precision (±)	1.0	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 MDC	0.5	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235	-0.02	pCi/L	U			E908.0	04/25/16 13:08 / cng
Uranium 235 precision (±)	0.2	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235 MDC	0.5	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238	0.5	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 precision (±)	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 MDC	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium, Total	5.7	pCi/L				E908.0	04/25/16 13:08 / cng

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SM Excursion Isotopic Uranium Sample
Lab ID: C16040499-002
Client Sample ID: CM6-29

Report Date: 04/27/16
Collection Date: 03/25/16
Date Received: 04/15/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Uranium 234	3.6	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 precision (±)	0.7	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 MDC	0.5	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235	0.03	pCi/L	U			E908.0	04/25/16 13:08 / cng
Uranium 235 precision (±)	0.2	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235 MDC	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238	0.7	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 precision (±)	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 MDC	0.3	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium, Total	4.3	pCi/L				E908.0	04/25/16 13:08 / cng

Report Definitions:
RL - Analyte reporting limit
QCL - Quality control limit
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SM Excursion Isotopic Uranium Sample
Lab ID: C16040499-003
Client Sample ID: CM8-1

Report Date: 04/27/16
Collection Date: 03/25/16
Date Received: 04/15/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Uranium 234	14.7	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 precision (±)	2.9	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 MDC	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235	0.1	pCi/L	U			E908.0	04/25/16 13:08 / cng
Uranium 235 precision (±)	0.2	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235 MDC	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238	3.0	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 precision (±)	0.6	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 MDC	0.3	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium, Total	17.8	pCi/L				E908.0	04/25/16 13:08 / cng

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SM Excursion Isotopic Uranium Sample
Lab ID: C16040499-004
Client Sample ID: CM8-4

Report Date: 04/27/16
Collection Date: 03/25/16
Date Received: 04/15/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Uranium 234	2.9	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 precision (±)	0.6	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 MDC	0.5	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235	0.1	pCi/L	U			E908.0	04/25/16 13:08 / cng
Uranium 235 precision (±)	0.3	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235 MDC	0.5	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238	0.3	pCi/L	U			E908.0	04/25/16 13:08 / cng
Uranium 238 precision (±)	0.3	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 MDC	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium, Total	3.3	pCi/L				E908.0	04/25/16 13:08 / cng

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SM Excursion Isotopic Uranium Sample
Lab ID: C16040499-005
Client Sample ID: CM8-11

Report Date: 04/27/16
Collection Date: 03/25/16
Date Received: 04/15/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Uranium 234	2.0	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 234 precision (±)	0.4	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 234 MDC	0.6	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 235	0.05	pCi/L	U		E908.0		04/25/16 13:08 / cng
Uranium 235 precision (±)	0.2	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 235 MDC	0.5	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 238	0.4	pCi/L	U		E908.0		04/25/16 13:08 / cng
Uranium 238 precision (±)	0.3	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 238 MDC	0.4	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium, Total	2.4	pCi/L			E908.0		04/25/16 13:08 / cng

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SM Excursion Isotopic Uranium Sample
Lab ID: C16040499-006
Client Sample ID: CM8-19

Report Date: 04/27/16
Collection Date: 03/25/16
Date Received: 04/15/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Uranium 234	10.9	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 precision (±)	2.1	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 234 MDC	0.6	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235	-0.09	pCi/L	U			E908.0	04/25/16 13:08 / cng
Uranium 235 precision (±)	0.2	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 235 MDC	0.5	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238	1.1	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 precision (±)	0.2	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium 238 MDC	0.4	pCi/L				E908.0	04/25/16 13:08 / cng
Uranium, Total	11.9	pCi/L				E908.0	04/25/16 13:08 / cng

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SM Excursion Isotopic Uranium Sample
Lab ID: C16040499-007
Client Sample ID: CM8-27

Report Date: 04/27/16
Collection Date: 03/25/16
Date Received: 04/15/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Uranium 234	5.7	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 234 precision (±)	1.1	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 234 MDC	0.5	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 235	-0.08	pCi/L	U		E908.0		04/25/16 13:08 / cng
Uranium 235 precision (±)	0.2	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 235 MDC	0.6	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 238	0.6	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 238 precision (±)	0.4	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium 238 MDC	0.5	pCi/L			E908.0		04/25/16 13:08 / cng
Uranium, Total	6.2	pCi/L			E908.0		04/25/16 13:08 / cng

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
U - Not detected at minimum detectable concentration

Appendix D

Laboratory Reports

Nine Excursion Parameter Water Samples

Sediment Sampling Points along English Creek

First Quarter, 2016

E-1

E-2

E-5

I-3

I-4

I-5

H-1

H-2

H-3



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-001
Client Sample ID: E-1

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	231	mg/L		5		A2320 B	04/18/16 16:05 / wc
Chloride	16	mg/L		1		E300.0	04/18/16 22:45 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	710	umhos/cm		5		A2510 B	04/14/16 12:46 / mag

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-002
Client Sample ID: E-2

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	251	mg/L		5		A2320 B	04/18/16 16:14 / wc
Chloride	7	mg/L		1		E300.0	04/18/16 23:03 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	519	umhos/cm		5		A2510 B	04/14/16 12:49 / mag

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-006
Client Sample ID: E-5

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	265	mg/L		5		A2320 B	04/15/16 01:31 / wc
Chloride	14	mg/L		1		E300.0	04/19/16 00:47 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	603	umhos/cm		5		A2510 B	04/14/16 13:04 / mag

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-003
Client Sample ID: H-1

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	228	mg/L		5		A2320 B	04/18/16 16:22 / wc
Chloride	10	mg/L		1		E300.0	04/18/16 23:20 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	502	umhos/cm		5		A2510 B	04/14/16 12:52 / mag

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-004
Client Sample ID: H-2

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	213	mg/L		5		A2320 B	04/18/16 16:30 / wc
Chloride	17	mg/L		1		E300.0	04/18/16 23:38 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	541	umhos/cm		5		A2510 B	04/14/16 12:55 / mag

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-005
Client Sample ID: H-3

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	277	mg/L		5		A2320 B	04/15/16 01:15 / wc
Chloride	12	mg/L		1		E300.0	04/18/16 23:55 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	640	umhos/cm		5		A2510 B	04/14/16 12:58 / mag

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-007
Client Sample ID: I-3

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	315	mg/L		5		A2320 B	04/15/16 01:49 / wc
Chloride	13	mg/L		1		E300.0	04/19/16 01:40 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	692	umhos/cm		5		A2510 B	04/14/16 13:07 / mag

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-008
Client Sample ID: I-4

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	299	mg/L		5		A2320 B	04/15/16 01:57 / wc
Chloride	13	mg/L		1		E300.0	04/19/16 01:57 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	669	umhos/cm		5		A2510 B	04/14/16 13:10 / mag

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte Uranium
Lab ID: C16040412-009
Client Sample ID: I-5

Report Date: 04/22/16
Collection Date: 04/11/16
Date Received: 04/13/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	234	mg/L		5		A2320 B	04/15/16 02:05 / wc
Chloride	14	mg/L		1		E300.0	04/19/16 02:15 / wc
PHYSICAL PROPERTIES							
Conductivity @ 25 C	561	umhos/cm		5		A2510 B	04/14/16 13:13 / mag

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Appendix E

Laboratory Reports

Twenty four Uranium Samples

Shallow Monitor Wells Located in the English Creeks Drainage

First Quarter, 2016

SM6-11	SM8-4
SM6-12	SM8-5
SM6-13	SM8-6
SM6-19	SM8-7
SM6-20	SM8-10
SM6-21	SM8-12
SM6-23	SM8-14
SM6-24	SM8-21
SM6-25	SM8-22
SM6-28	SM8-24
	SM8-25
	SM8-26
	SM8-28
	SM8-29



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-001
Client Sample ID: SM6-11

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0134	mg/L		0.0003		E200.8	02/05/16 13:49 / sf
Uranium, Activity	9.1E-09	uCi/mL		2.0E-10		E200.8	02/05/16 13:49 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-002
Client Sample ID: SM6-12

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0121	mg/L		0.0003		E200.8	02/05/16 13:57 / sf
Uranium, Activity	8.2E-09	uCi/mL		2.0E-10		E200.8	02/05/16 13:57 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-003
Client Sample ID: SM6-13

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0382	mg/L		0.0003		E200.8	02/05/16 13:59 / sf
Uranium, Activity	2.6E-08	uCi/mL		2.0E-10		E200.8	02/05/16 13:59 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-004
Client Sample ID: SM6-19

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0103	mg/L		0.0003		E200.8	02/05/16 14:00 / sf
Uranium, Activity	7.0E-09	uCi/mL		2.0E-10		E200.8	02/05/16 14:00 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-005
Client Sample ID: SM6-20

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0158	mg/L		0.0003		E200.8	02/05/16 14:02 / sf
Uranium, Activity	1.1E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:02 / sf

Report
Definitions: RL - Analyte reporting limit.
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MCL - Maximum contaminant level.
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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-006
Client Sample ID: SM6-21

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0313	mg/L		0.0003		E200.8	02/05/16 14:03 / sf
Uranium, Activity	2.1E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:03 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-007
Client Sample ID: SM6-23

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0180	mg/L		0.0003		E200.8	02/05/16 14:05 / sf
Uranium, Activity	1.2E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:05 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-008
Client Sample ID: SM6-24

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0309	mg/L		0.0003		E200.8	02/05/16 14:07 / sf
Uranium, Activity	2.1E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:07 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-009
Client Sample ID: SM6-25

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0261	mg/L		0.0003		E200.8	02/05/16 14:08 / sf
Uranium, Activity	1.8E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:08 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-010
Client Sample ID: SM6-28

Report Date: 02/08/16
Collection Date: 01/29/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0661	mg/L		0.0003		E200.8	02/05/16 14:10 / sf
Uranium, Activity	4.5E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:10 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-011
Client Sample ID: SM8-4

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0171	mg/L		0.0003		E200.8	02/05/16 14:22 / sf
Uranium, Activity	1.2E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:22 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-012
Client Sample ID: SM8-5

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0427	mg/L		0.0003		E200.8	02/05/16 14:24 / sf
Uranium, Activity	2.9E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:24 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-013
Client Sample ID: SM8-6

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0727	mg/L		0.0003		E200.8	02/05/16 14:25 / sf
Uranium, Activity	4.9E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:25 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-014
Client Sample ID: SM8-7

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0475	mg/L		0.0003		E200.8	02/05/16 14:27 / sf
Uranium, Activity	3.2E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:27 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-015
Client Sample ID: SM8-10

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0465	mg/L		0.0003		E200.8	02/05/16 14:28 / sf
Uranium, Activity	3.2E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:28 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-016
Client Sample ID: SM8-12

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0267	mg/L		0.0003		E200.8	02/05/16 14:30 / sf
Uranium, Activity	1.8E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:30 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-017
Client Sample ID: SM8-14

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0245	mg/L		0.0003		E200.8	02/05/16 14:38 / sf
Uranium, Activity	1.7E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:38 / sf

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-018
Client Sample ID: SM8-21

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0198	mg/L		0.0003		E200.8	02/05/16 14:39 / sf
Uranium, Activity	1.3E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:39 / sf

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-019
Client Sample ID: SM8-22

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0403	mg/L		0.0003		E200.8	02/05/16 14:41 / sf
Uranium, Activity	2.7E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:41 / sf

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-020
Client Sample ID: SM8-24

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0193	mg/L		0.0003		E200.8	02/05/16 14:42 / sf
Uranium, Activity	1.3E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:42 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-021
Client Sample ID: SM8-25

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0697	mg/L		0.0003		E200.8	02/05/16 14:49 / sf
Uranium, Activity	4.7E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:49 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-022
Client Sample ID: SM8-26

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0192	mg/L		0.0003		E200.8	02/05/16 14:50 / sf
Uranium, Activity	1.3E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:50 / sf

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-023
Client Sample ID: SM8-28

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0666	mg/L		0.0003		E200.8	02/05/16 14:58 / sf
Uranium, Activity	4.5E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:58 / sf

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U
Lab ID: C16020092-024
Client Sample ID: SM8-29

Report Date: 02/08/16
Collection Date: 02/02/16
Date Received: 02/03/16
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
METALS - DISSOLVED							
Uranium	0.0440	mg/L		0.0003		E200.8	02/05/16 14:59 / sf
Uranium, Activity	3.0E-08	uCi/mL		2.0E-10		E200.8	02/05/16 14:59 / sf

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.