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LOST CREEK ISR, LLC

April 28, 2016

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Re: Quarterly Reporting Pursuant to License Condition 11.1(A) and 10.8(C)
1st Quarter 2016
Lost Creek ISR Project License SUA-1598

40-9068

To Whom It May Concern:

This report for the first calendar quarter of 2016 has been submitted in accordance with License Condition (LC) 11.1(A) for Lost Creek ISR, LLC's (LCI) Lost Creek Project License SUA-1598. LC 11.1(A) requires quarterly reporting of the results of excursion monitoring. Additionally, this report includes the results of the quarterly Storage Pond inspections pursuant to LC 10.8(C). This report summarizes the following items:

- Excursion monitoring that has occurred during operations as described in the NRC License Application Technical Report (TR) Section 5.7.8.2;
- Summary report of the quarterly Storage Ponds inspections in accordance with TR Section 5.3.2.3.

MONITORING AND RESULTS

Excursion monitoring parameters include alkalinity, chloride, and specific conductance for which associated Upper Control Limits (UCLs) have been established on a well-by-well basis. Header houses HH1-1 through HH1-12 within Mine Unit 1 (MU1) were operational as of the end of the reporting period. An excursion may be indicated by any one analytical parameter result exceeding the associated UCL by 20% or more or by two or three results exceeding the applicable UCL.

The monitor wells within MU1 were sampled routinely which includes 28 monitor ring wells and 26 (13 overlying and 13 underlying) mine unit wells. Sampling was conducted on a semi-monthly basis at least 10 days apart during production within Mine Unit 1. The results of the excursion monitoring sample analysis are provided on **Attachment 1**. The table displays the analytical result, the applicable UCL value, and the percent difference. A negative percent difference

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indicates the analytical value is less than the UCL. The percent difference (or percent change) is determined by the following formula:

$$\% \text{ Difference} = \frac{\text{Result} - \text{UCL}}{\text{UCL}} \times 100\%$$

The results show elevation of alkalinity values slightly greater than the associated UCL value, but less than the 20% threshold, for M-118 for most of the quarter. Chloride and conductivity for M-118 is nominal indicating that alkalinity concentrations are anomalous and possibly influenced by localized natural geochemical variations.

Conductivity and chloride values for MU-109 were slightly elevated but on a generally downward trend compared to the previous quarter. Chloride results slightly exceeded the associated UCL value on January 21, February 8, and February 25. Alkalinity was nominal during the quarter. These are likely residual effects of the excursion that occurred in mid-2015.

Sampling for MU-104, MU-104A, and MU-104B is discussed below.

Samples were not collected from the regional DE horizon wells LC29M and MB-10 due to low water yield.

Excursion Status and Corrective Action

No wells were on excursion status during the reporting period.

As a result of an investigation into the former excursion at MU-104, it was confirmed that the cement around the casing of MU-104 was improperly completed. Well MU-104 was plugged and abandoned and MU-104A was installed as a replacement on January 6, 2016. During sampling attempts, the well recharge rate was very low in MU-104A and a workover was performed on January 25 to remove extraneous cement in the wellbore by underreaming. However, the underream tool had broken during the workover. Based on the failed MIT on January 28, it was discovered that the broken underream tool had likely damaged the casing upon withdrawal of the tool. Therefore, well MU-104A was plugged and abandoned on January 29 and well MU-104B was installed on February 8, 2016 as a replacement.

Samples for UCL monitoring were collected from MU-104A following the well installation on January 12, 18, and 20, 2016 but sample results indicated contamination by cement and the data was rejected (due to high alkalinity and pH and no chloride detected). Following the well workover and additional groundwater development, a successful sample was collected from MU-104A on January 28, 2016 prior to the well abandonment. Following the installation and development of MU-104B, a sample was collected on February 12 which passed the UCL criteria and another sample collected during the normal sampling routine on February 16. Therefore, during the replacement process of MU-104, a routine sampling event was missed for the first half of January

and for the first half of February. However, the water quality results from samples collected throughout the well replacement process demonstrate no excursion in the area of MU-104.

STORAGE PONDS INSPECTION AND MONITORING

The quarterly Storage Pond water quality samples were collected on March 10, 2016 and the quarterly inspection was completed by the RSO on March 16, 2016.

The following items are discussed relating to overall operations of the Ponds over the quarter:

- Freeboard
- Routine Inspections
- Leak detection system
- Water quality monitoring
- Pond monitor wells

Freeboard

The proper amount of freeboard was maintained during the reporting period. The freeboard heights in either Pond were not less than the minimum freeboard limit of 3 feet.

Routine Inspections

Daily inspections were conducted each day throughout the quarter.

Leak Detection System

Residual water between the liners began to drain again into the leak detection sumps likely due to thawing from warmer seasonal temperatures. The sump pumps were used manually to purge water from the sumps as needed. The recharge rates of the sumps had increased during the quarter and levels in the sumps had occasionally exceeded the 6 inch action limit. Notifications of the sump levels were sent to NRC via email on February 29 and March 8, 2016. Water quality was monitored to demonstrate that no new Pond water was likely infiltrating the sumps. The conductivity of the sump water was less than half of the Pond water. Sump water level data and pump totalizer readings are provided on the table in **Attachment 2**.

The average recharge rates of the North and South Pond Sumps have slightly increased during the quarter. Recharge in the North Sump was 0.048 in/hr compared to 0.022 in/hr the previous quarter and the South Sump was 0.052 in/hr compared to 0.013 in/hr the previous quarter.

Water Quality Monitoring

Quarterly Pond samples were collected from the Pond discharge line since the Pond surface still had residual ice. The quarterly Pond samples were submitted to Energy Labs in Casper, WY and analyzed for the required parameters (**Table 2**).

TABLE 2: Pond and LD Sump Water Quality

Sample ID	Sample Date	Total Alkalinity (CaCO ₃)	Chloride	Cond., Specific @ 25°C	pH	Sodium	Sulfate	Total Dissolved Solids	Arsenic	Selenium	Uranium, Total	Radium-226
		mg/L	mg/L	µS/cm	s. u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L
N Pond	3/10/2016	685	29,500	58,500	7.95	18,200	1,840	49,700	0.018	0.56	231	803
S Pond	3/10/2016	559	37,200	65,700	7.76	18,800	2,170	58,300	0.011	0.5	112	692
N Pond LD Sump	2/29/2016	395	---	24,000	---	5,179	493	---	---	---	---	---
N Pond LD Sump	3/1/2016	480	9,875	25,600	---	4,628	---	---	---	---	---	---
N Pond LD Sump	3/2/2016	463	9,700	26,900	---	4,397	---	---	---	---	---	---
N Pond LD Sump	3/3/2016	467	11,607	26,400	7.76	3,947	---	---	---	---	64.2	---
S Pond LD Sump	2/29/2016	423	---	30,900	---	6,212	958	---	---	---	---	---
S Pond LD Sump	3/1/2016	430	9,815	29,900	---	3,081	---	---	---	---	---	---
S Pond LD Sump	3/2/2016	432	9,725	30,800	---	---	---	---	---	---	---	---
S Pond LD Sump	3/3/2016	451	13,399	31,900	7.66	4,142	---	---	---	---	93.9	---
S Pond LD Sump	3/4/2016	437	10,740	31,600	7.64	4,263	---	---	---	---	---	---

Pond Monitor Wells

Pond monitor wells were measured in conjunction with the quarterly inspection. No water was detected in the wells as summarized on **Table 3**:

TABLE 3: Pond Monitor Well Water Levels

Well ID	Date	Water Level (ft-bmp)	Total Depth (ft-bmp)
MW-1	3/16/2016	ND	NM
MW-2	3/16/2016	ND	NM
MW-3	3/16/2016	ND	NM
MW-4	3/16/2016	ND	NM

If you have any questions regarding this report or require additional information please contact me at the Casper office.

Sincerely,



Michael D. Gaither
Manager EHS and Regulatory Affairs
Ur-Energy USA, Inc

Attachments: **Attachment 1: Water Quality Data Tables**
Attachment 2: LD Sump Data

Cc: Deputy Director, Division of Decommissioning
Uranium Recovery and Waste Programs
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
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11545 Rockville Pike, Two White Flint North
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John Saxton, NRC (via e-mail)
Brian Wood, WDEQ-LQD, Lander (via e-mail)
Theresa Horne, Ur-Energy, Littleton (via e-mail)

Attachment 1: MU1 Water Quality Data
1st Quarter 2016
Lost Creek ISR Project SUA-1598

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
M-101	MU1 Ring	1/5/2016	--	107	172	-38	6.4	21	-70	647	965	-33	
M-101	MU1 Ring	1/20/2016	15	117	172	-32	0.0	21	-100	665	965	-31	
M-101	MU1 Ring	2/8/2016	19	118	172	-31	5.6	21	-73	664	965	-31	
M-101	MU1 Ring	2/18/2016	10	115	172	-33	5.8	21	-73	670	965	-31	
M-101	MU1 Ring	3/4/2016	15	120	172	-30	5.6	21	-73	665	965	-31	
M-101	MU1 Ring	3/24/2016	20	113	172	-35	6.7	21	-68	656	965	-32	
M-102	MU1 Ring	1/5/2016	--	138	173	-20	5.9	20	-70	803	971	-17	
M-102	MU1 Ring	1/20/2016	15	142	173	-18	1.4	20	-93	821	971	-15	
M-102	MU1 Ring	2/8/2016	19	135	173	-22	5.7	20	-71	807	971	-17	
M-102	MU1 Ring	2/18/2016	10	143	173	-17	6.5	20	-68	803	971	-17	
M-102	MU1 Ring	3/4/2016	15	131	173	-25	6.4	20	-68	798	971	-18	
M-102	MU1 Ring	3/24/2016	20	142	173	-18	6.5	20	-67	794	971	-18	
M-103A	MU1 Ring	1/6/2016	--	137	150	-9	5.8	21	-72	824	1171	-30	
M-103A	MU1 Ring	1/20/2016	14	137	150	-9	3.3	21	-84	843	1171	-28	
M-103A	MU1 Ring	2/8/2016	19	138	150	-8	6.4	21	-69	830	1171	-29	
M-103A	MU1 Ring	2/18/2016	10	134	150	-11	11.9	21	-43	831	1171	-29	
M-103A	MU1 Ring	3/4/2016	15	135	150	-10	6.4	21	-69	825	1171	-30	
M-103A	MU1 Ring	3/24/2016	20	133	150	-12	5.9	21	-72	822	1171	-30	
M-104	MU1 Ring	1/6/2016	--	140	173	-19	6.8	22	-69	840	1162	-28	
M-104	MU1 Ring	1/20/2016	14	141	173	-19	5.5	22	-75	834	1162	-28	
M-104	MU1 Ring	2/8/2016	19	141	173	-19	7.3	22	-67	824	1162	-29	
M-104	MU1 Ring	2/18/2016	10	139	173	-20	10.6	22	-52	824	1162	-29	
M-104	MU1 Ring	3/4/2016	15	131	173	-24	6.2	22	-72	754	1162	-35	
M-104	MU1 Ring	3/24/2016	20	129	173	-25	5.9	22	-73	744	1162	-36	
M-105	MU1 Ring	1/6/2016	--	125	148	-16	7.7	21	-64	689	1036	-33	
M-105	MU1 Ring	1/20/2016	14	119	148	-20	5.6	21	-73	597	1036	-42	
M-105	MU1 Ring	2/8/2016	19	113	148	-24	5.8	21	-73	599	1036	-42	
M-105	MU1 Ring	2/18/2016	10	116	148	-22	5.5	21	-74	601	1036	-42	
M-105	MU1 Ring	3/4/2016	15	110	148	-26	5.8	21	-72	597	1036	-42	
M-105	MU1 Ring	3/24/2016	20	115	148	-22	6.2	21	-70	636	1036	-39	
M-106	MU1 Ring	1/6/2016	--	119	134	-11	6.4	21	-69	681	980	-30	
M-106	MU1 Ring	1/20/2016	14	115	134	-14	5.7	21	-73	639	980	-35	
M-106	MU1 Ring	2/8/2016	19	119	134	-11	5.3	21	-75	637	980	-35	
M-106	MU1 Ring	2/18/2016	10	117	134	-12	5.5	21	-74	626	980	-36	
M-106	MU1 Ring	3/4/2016	15	127	134	-5	6.0	21	-72	632	980	-35	
M-106	MU1 Ring	3/24/2016	20	114	134	-15	6.6	21	-69	628	980	-36	
M-107	MU1 Ring	1/6/2016	--	124	138	-10	5.9	21	-72	682	1033	-34	
M-107	MU1 Ring	1/20/2016	14	122	138	-11	5.6	21	-73	688	1033	-33	
M-107	MU1 Ring	2/8/2016	19	119	138	-14	6.1	21	-71	681	1033	-34	
M-107	MU1 Ring	2/18/2016	10	121	138	-12	6.6	21	-69	680	1033	-34	
M-107	MU1 Ring	3/4/2016	15	118	138	-15	6.4	21	-69	683	1033	-34	
M-107	MU1 Ring	3/24/2016	20	121	138	-12	7.1	21	-66	681	1033	-34	
M-108	MU1 Ring	1/6/2016	--	106	127	-17	5.8	21	-72	548	905	-39	
M-108	MU1 Ring	1/20/2016	14	107	127	-16	5.1	21	-76	553	905	-39	
M-108	MU1 Ring	2/9/2016	20	106	127	-17	6.8	21	-68	543	905	-40	
M-108	MU1 Ring	2/19/2016	10	106	127	-16	6.9	21	-67	542	905	-40	
M-108	MU1 Ring	3/4/2016	14	107	127	-16	6.1	21	-71	541	905	-40	
M-108	MU1 Ring	3/24/2016	20	106	127	-17	5.8	21	-72	548	905	-39	
M-109	MU1 Ring	1/6/2016	--	113	161	-30	6.1	20	-69	586	703	-17	
M-109	MU1 Ring	1/20/2016	14	107	161	-34	6.3	20	-68	585	703	-17	
M-109	MU1 Ring	2/9/2016	20	108	161	-33	6.5	20	-67	573	703	-18	
M-109	MU1 Ring	2/19/2016	10	109	161	-32	6.0	20	-70	575	703	-18	
M-109	MU1 Ring	3/4/2016	14	108	161	-33	5.6	20	-72	576	703	-18	
M-109	MU1 Ring	3/24/2016	20	102	161	-36	5.7	20	-71	572	703	-19	
M-110	MU1 Ring	1/6/2016	--	110	147	-25	7.2	21	-66	569	1022	-44	
M-110	MU1 Ring	1/20/2016	14	116	147	-21	7.5	21	-64	592	1022	-42	
M-110	MU1 Ring	2/9/2016	20	109	147	-26	6.9	21	-67	573	1022	-44	
M-110	MU1 Ring	2/19/2016	10	113	147	-23	6.3	21	-70	572	1022	-44	
M-110	MU1 Ring	3/4/2016	14	109	147	-26	6.4	21	-70	572	1022	-44	
M-110	MU1 Ring	3/24/2016	20	111	147	-24	7.5	21	-64	562	1022	-45	
M-111	MU1 Ring	1/6/2016	--	112	146	-23	6.3	21	-70	551	897	-39	
M-111	MU1 Ring	1/20/2016	14	113	146	-23	5.8	21	-72	560	897	-38	
M-111	MU1 Ring	2/9/2016	20	113	146	-22	5.3	21	-75	556	897	-38	
M-111	MU1 Ring	2/19/2016	10	109	146	-25	5.7	21	-73	563	897	-37	
M-111	MU1 Ring	3/4/2016	14	115	146	-21	6.0	21	-71	565	897	-37	
M-111	MU1 Ring	3/24/2016	20	109	146	-26	7.7	21	-63	569	897	-37	
M-112	MU1 Ring	1/6/2016	--	108	147	-26	5.4	20	-73	560	636	-12	
M-112	MU1 Ring	1/20/2016	14	109	147	-26	5.4	20	-73	560	636	-12	
M-112	MU1 Ring	2/9/2016	20	109	147	-26	5.9	20	-71	559	636	-12	
M-112	MU1 Ring	2/19/2016	10	114	147	-22	6.8	20	-66	561	636	-12	
M-112	MU1 Ring	3/4/2016	14	108	147	-27	5.8	20	-71	558	636	-12	
M-112	MU1 Ring	3/24/2016	20	107	147	-27	5.5	20	-73	553	636	-13	
M-113	MU1 Ring	1/6/2016	--	99	203	-51	5.1	21	-76	515	631	-18	
M-113	MU1 Ring	1/19/2016	13	101	203	-50	5.3	21	-75	516	631	-18	
M-113	MU1 Ring	2/4/2016	16	101	203	-50	6.2	21	-70	512	631	-19	
M-113	MU1 Ring	2/17/2016	13	99	203	-51	5.7	21	-73	513	631	-19	
M-113	MU1 Ring	3/2/2016	14	99	203	-51	5.1	21	-76	512	631	-19	
M-113	MU1 Ring	3/22/2016	20	101	203	-50	5.5	21	-74	511	631	-19	
M-114A	MU1 Ring	1/5/2016	--	108	139	-23	5.6	20	-72	524	772	-32	
M-114A	MU1 Ring	1/19/2016	14	109	139	-22	5.7	20	-72	528	772	-32	
M-114A	MU1 Ring	2/4/2016	16	109	139	-22	5.5	20	-72	524	772	-32	
M-114A	MU1 Ring	2/17/2016	13	103	139	-26	5.0	20	-75	527	772	-32	

Attachment 1: MU1 Water Quality Data
1st Quarter 2016
Lost Creek ISR Project SUA-1598

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
M-114A	MU1 Ring	3/2/2016	14	107	139	-23	5.0	20	-75	524	772	-32	
M-114A	MU1 Ring	3/22/2016	20	104	139	-25	6.1	20	-69	520	772	-33	
M-115A	MU1 Ring	1/5/2016	--	113	126	-11	5.6	20	-72	496	726	-32	
M-115A	MU1 Ring	1/19/2016	14	102	126	-19	5.6	20	-72	498	726	-31	
M-115A	MU1 Ring	2/4/2016	16	103	126	-18	4.9	20	-76	494	726	-32	
M-115A	MU1 Ring	2/17/2016	13	105	126	-17	5.2	20	-74	497	726	-32	
M-115A	MU1 Ring	3/2/2016	14	102	126	-19	5.4	20	-73	495	726	-32	
M-115A	MU1 Ring	3/22/2016	20	98	126	-22	5.3	20	-73	491	726	-32	
M-116A	MU1 Ring	1/5/2016	--	102	134	-24	5.3	20	-74	497	679	-27	
M-116A	MU1 Ring	1/19/2016	14	101	134	-25	5.3	20	-74	501	679	-26	
M-116A	MU1 Ring	2/4/2016	16	101	134	-25	5.5	20	-73	493	679	-27	
M-116A	MU1 Ring	2/17/2016	13	103	134	-23	5.9	20	-71	497	679	-27	
M-116A	MU1 Ring	3/2/2016	14	101	134	-25	5.3	20	-73	497	679	-27	
M-116A	MU1 Ring	3/22/2016	20	99	134	-26	4.8	20	-76	492	679	-28	
M-117	MU1 Ring	1/5/2016	--	106	139	-24	4.9	20	-76	484	711	-32	
M-117	MU1 Ring	1/19/2016	14	105	139	-25	4.9	20	-76	489	711	-31	
M-117	MU1 Ring	2/4/2016	16	104	139	-25	5.7	20	-71	482	711	-32	
M-117	MU1 Ring	2/17/2016	13	102	139	-27	5.3	20	-74	487	711	-32	
M-117	MU1 Ring	3/2/2016	14	105	139	-24	4.7	20	-76	484	711	-32	
M-117	MU1 Ring	3/22/2016	20	107	139	-23	5.2	20	-74	482	711	-32	
M-118	MU1 Ring	1/5/2016	--	108	108	0	5.4	21	-74	499	762	-35	
M-118	MU1 Ring	1/19/2016	14	121	108	12	5.4	21	-74	502	762	-34	
M-118	MU1 Ring	2/4/2016	16	111	108	2	5.4	21	-74	494	762	-35	
M-118	MU1 Ring	2/17/2016	13	109	108	1	5.2	21	-75	499	762	-35	
M-118	MU1 Ring	3/2/2016	14	111	108	2	5.0	21	-76	499	762	-35	
M-118	MU1 Ring	3/22/2016	20	108	108	0	6.0	21	-71	494	762	-35	
M-119	MU1 Ring	1/5/2016	--	111	128	-14	6.0	20	-70	484	622	-22	
M-119	MU1 Ring	1/19/2016	14	112	128	-13	6.2	20	-69	491	622	-21	
M-119	MU1 Ring	2/4/2016	16	115	128	-11	5.2	20	-74	488	622	-22	
M-119	MU1 Ring	2/17/2016	13	113	128	-12	6.0	20	-70	492	622	-21	
M-119	MU1 Ring	3/2/2016	14	107	128	-17	6.0	20	-70	487	622	-22	
M-119	MU1 Ring	3/22/2016	20	106	128	-17	5.5	20	-72	481	622	-23	
M-120A	MU1 Ring	1/5/2016	--	111	142	-22	5.7	20	-72	486	715	-32	
M-120A	MU1 Ring	1/19/2016	14	111	142	-22	5.6	20	-72	486	715	-32	
M-120A	MU1 Ring	2/4/2016	16	110	142	-22	5.6	20	-72	498	715	-30	
M-120A	MU1 Ring	2/17/2016	13	105	142	-26	6.6	20	-67	498	715	-30	
M-120A	MU1 Ring	3/2/2016	14	109	142	-23	5.7	20	-71	483	715	-32	
M-120A	MU1 Ring	3/22/2016	20	107	142	-25	5.2	20	-74	472	715	-34	
M-121	MU1 Ring	1/5/2016	--	112	140	-20	5.7	20	-72	516	755	-32	
M-121	MU1 Ring	1/19/2016	14	108	140	-23	6.0	20	-70	511	755	-32	
M-121	MU1 Ring	2/4/2016	16	109	140	-22	5.2	20	-74	516	755	-32	
M-121	MU1 Ring	2/17/2016	13	108	140	-23	5.3	20	-73	514	755	-32	
M-121	MU1 Ring	3/2/2016	14	106	140	-24	5.5	20	-72	513	755	-32	
M-121	MU1 Ring	3/22/2016	20	113	140	-19	5.5	20	-72	516	755	-32	
M-122	MU1 Ring	1/5/2016	--	110	142	-22	5.0	20	-75	508	593	-14	
M-122	MU1 Ring	1/19/2016	14	111	142	-22	5.3	20	-73	502	593	-15	
M-122	MU1 Ring	2/4/2016	16	113	142	-21	5.9	20	-70	508	593	-14	
M-122	MU1 Ring	2/17/2016	13	113	142	-21	6.4	20	-68	509	593	-14	
M-122	MU1 Ring	3/2/2016	14	115	142	-19	5.4	20	-73	506	593	-15	
M-122	MU1 Ring	3/22/2016	20	108	142	-24	5.8	20	-71	506	593	-15	
M-123	MU1 Ring	1/5/2016	--	112	131	-15	5.0	20	-75	499	718	-31	
M-123	MU1 Ring	1/19/2016	14	114	131	-13	4.8	20	-76	497	718	-31	
M-123	MU1 Ring	2/8/2016	20	110	131	-16	5.7	20	-71	500	718	-30	
M-123	MU1 Ring	2/18/2016	10	113	131	-14	5.7	20	-71	498	718	-31	

Attachment 1: MU1 Water Quality Data
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Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
M-123	MU1 Ring	3/2/2016	13	120	131	-9	4.9	20	-76	496	718	-31	
M-123	MU1 Ring	3/22/2016	20	112	131	-15	5.3	20	-73	498	718	-31	
M-124	MU1 Ring	1/5/2016	--	113	123	-8	5.6	20	-72	469	536	-12	
M-124	MU1 Ring	1/19/2016	14	108	123	-13	4.7	20	-77	469	536	-12	
M-124	MU1 Ring	2/8/2016	20	111	123	-10	5.0	20	-75	471	536	-11	
M-124	MU1 Ring	2/18/2016	10	108	123	-12	5.5	20	-72	472	536	-12	
M-124	MU1 Ring	3/2/2016	13	111	123	-9	4.9	20	-75	467	536	-13	
M-124	MU1 Ring	3/22/2016	20	113	123	-8	4.9	20	-75	470	536	-12	
M-125	MU1 Ring	1/5/2016	--	105	135	-22	6.6	21	-69	549	657	-16	
M-125	MU1 Ring	1/19/2016	14	110	135	-18	6.8	21	-68	543	657	-17	
M-125	MU1 Ring	2/8/2016	20	108	135	-20	5.5	21	-74	547	657	-17	
M-125	MU1 Ring	2/18/2016	10	110	135	-19	6.3	21	-70	549	657	-16	
M-125	MU1 Ring	3/2/2016	13	108	135	-20	6.7	21	-68	547	657	-17	
M-125	MU1 Ring	3/22/2016	20	104	135	-23	6.3	21	-70	547	657	-17	
M-126	MU1 Ring	1/5/2016	--	107	194	-45	5.8	21	-73	527	682	-23	
M-126	MU1 Ring	1/19/2016	14	106	194	-45	6.2	21	-70	527	682	-23	
M-126	MU1 Ring	2/8/2016	20	103	194	-47	6.3	21	-70	527	682	-23	
M-126	MU1 Ring	2/18/2016	10	104	194	-46	6.1	21	-71	530	682	-22	
M-126	MU1 Ring	3/4/2016	15	105	194	-46	5.8	21	-72	528	682	-23	
M-126	MU1 Ring	3/22/2016	18	110	194	-43	7.3	21	-65	530	682	-22	
M-127	MU1 Ring	1/5/2016	--	112	149	-25	5.6	21	-73	542	792	-32	
M-127	MU1 Ring	1/19/2016	14	106	149	-29	5.6	21	-73	530	792	-33	
M-127	MU1 Ring	2/8/2016	20	109	149	-27	6.5	21	-69	538	792	-32	
M-127	MU1 Ring	2/18/2016	10	110	149	-26	6.6	21	-69	541	792	-32	
M-127	MU1 Ring	3/4/2016	15	110	149	-26	6.3	21	-70	539	792	-32	
M-127	MU1 Ring	3/22/2016	18	108	149	-27	8.6	21	-59	547	792	-31	
M-128	MU1 Ring	1/5/2016	--	108	122	-12	6.3	21	-70	560	802	-30	
M-128	MU1 Ring	1/19/2016	14	114	122	-7	5.6	21	-73	546	802	-32	
M-128	MU1 Ring	2/8/2016	20	112	122	-8	5.8	21	-73	563	802	-30	
M-128	MU1 Ring	2/18/2016	10	112	122	-8	5.8	21	-72	569	802	-29	
M-128	MU1 Ring	3/4/2016	15	111	122	-9	6.3	21	-70	563	802	-30	
M-128	MU1 Ring	3/24/2016	20	108	122	-11	16.0	21	-24	610	802	-24	
MO-101	MU1 Overlaying	1/6/2016	--	107	136	-22	8.2	23	-64	648	824	-21	
MO-101	MU1 Overlaying	1/20/2016	14	106	136	-22	8.6	23	-62	643	824	-22	
MO-101	MU1 Overlaying	2/9/2016	20	103	136	-24	7.2	23	-69	646	824	-22	
MO-101	MU1 Overlaying	2/19/2016	10	103	136	-24	7.0	23	-69	649	824	-21	
MO-101	MU1 Overlaying	3/7/2016	17	104.81	136	-23	8.2	23	-64	646	824	-22	
MO-101	MU1 Overlaying	3/24/2016	17	110	136	-19	8.3	23	-64	650	824	-21	
MO-102	MU1 Overlaying	1/6/2016	--	100	125	-20	6.7	21	-68	589	670	-12	
MO-102	MU1 Overlaying	1/20/2016	14	98	125	-22	7.2	21	-66	580	670	-13	
MO-102	MU1 Overlaying	2/9/2016	20	99	125	-21	7.0	21	-67	591	670	-12	
MO-102	MU1 Overlaying	2/19/2016	10	99	125	-21	6.8	21	-68	590	670	-12	
MO-102	MU1 Overlaying	3/7/2016	17	99	125	-21	6.5	21	-69	589	670	-12	
MO-102	MU1 Overlaying	3/24/2016	17	99	125	-21	7.7	21	-64	592	670	-12	
MO-103	MU1 Overlaying	1/6/2016	--	108	130	-17	8.1	21	-61	680	849	-20	
MO-103	MU1 Overlaying	1/20/2016	14	114	130	-12	10.0	21	-52	675	849	-20	
MO-103	MU1 Overlaying	2/9/2016	20	114	130	-12	9.8	21	-53	680	849	-20	
MO-103	MU1 Overlaying	2/19/2016	10	115	130	-12	9.5	21	-55	683	849	-20	
MO-103	MU1 Overlaying	3/7/2016	17	113	130	-13	8.1	21	-61	680	849	-20	
MO-103	MU1 Overlaying	3/24/2016	17	107	130	-17	8.7	21	-58	686	849	-19	
MO-104	MU1 Overlaying	1/12/2016	--	112	160	-30	8.9	24	-63	590	714	-17	
MO-104	MU1 Overlaying	1/25/2016	13	114	160	-29	8.6	24	-64	606	714	-15	
MO-104	MU1 Overlaying	2/9/2016	15	111	160	-31	8.5	24	-65	607	714	-15	
MO-104	MU1 Overlaying	2/19/2016	10	112	160	-30	8.7	24	-64	611	714	-14	
MO-104	MU1 Overlaying	3/7/2016	17	116	160	-27	9.2	24	-62	612	714	-14	
MO-104	MU1 Overlaying	3/24/2016	17	118	160	-26	8.6	24	-64	613	714	-14	
MO-105	MU1 Overlaying	1/6/2016	--	104	128	-19	5.3	20	-73	483	669	-28	
MO-105	MU1 Overlaying	1/21/2016	15	101	128	-21	6.1	20	-70	485	669	-28	
MO-105	MU1 Overlaying	2/9/2016	19	103	128	-19	5.1	20	-74	483	669	-28	
MO-105	MU1 Overlaying	2/19/2016	10	104	128	-19	5.0	20	-75	482	669	-28	
MO-105	MU1 Overlaying	3/7/2016	17	106	128	-17	6.2	20	-69	484	669	-28	
MO-105	MU1 Overlaying	3/25/2016	18	101	128	-21	5.7	20	-72	482	669	-28	
MO-106	MU1 Overlaying	1/7/2016	--	107	143	-25	6.2	20	-69	462	626	-26	
MO-106	MU1 Overlaying	1/21/2016	14	111	143	-22	6.7	20	-66	461	626	-26	
MO-106	MU1 Overlaying	2/10/2016	20	96	143	-33	5.4	20	-73	464	626	-26	
MO-106	MU1 Overlaying	2/22/2016	12	100	143	-30	5.9	20	-71	468	626	-25	

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Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
MO-106	MU1 Overlying	3/8/2016	15	96	143	-33	6.1	20	-69	468	626	-25	
MO-106	MU1 Overlying	3/25/2016	17	94	143	-35	6.5	20	-68	464	626	-26	
MO-107	MU1 Overlying	1/7/2016	--	102	110	-7	8.0	20	-60	495	502	-1	
MO-107	MU1 Overlying	1/21/2016	14	103	110	-7	6.1	20	-70	474	502	-6	
MO-107	MU1 Overlying	2/10/2016	20	97	110	-12	6.3	20	-68	469	502	-7	
MO-107	MU1 Overlying	2/22/2016	12	99	110	-10	6.4	20	-68	473	502	-6	
MO-107	MU1 Overlying	3/8/2016	15	100	110	-9	6.2	20	-69	483	502	-4	
MO-107	MU1 Overlying	3/25/2016	17	99	110	-10	6.7	20	-67	478	502	-5	
MO-108	MU1 Overlying	1/7/2016	--	98	118	-17	6.1	20	-70	500	513	-3	
MO-108	MU1 Overlying	1/21/2016	14	99	118	-16	5.7	20	-72	496	513	-3	
MO-108	MU1 Overlying	2/10/2016	20	96	118	-19	6.9	20	-66	494	513	-4	
MO-108	MU1 Overlying	2/22/2016	12	97	118	-18	6.3	20	-69	500	513	-3	
MO-108	MU1 Overlying	3/8/2016	15	100	118	-15	6.7	20	-67	502	513	-2	
MO-108	MU1 Overlying	3/25/2016	17	100	118	-15	6.1	20	-69	505	513	-2	
MO-109	MU1 Overlying	1/7/2016	--	113	120	-6	8.7	21	-58	532	567	-6	
MO-109	MU1 Overlying	1/21/2016	14	112	120	-6	10.1	21	-52	535	567	-6	
MO-109	MU1 Overlying	2/10/2016	20	120	120	0	9.4	21	-55	541	567	-5	
MO-109	MU1 Overlying	2/22/2016	12	116	120	-3	9.7	21	-54	556	567	-2	
MO-109	MU1 Overlying	3/8/2016	15	113	120	-6	10.4	21	-50	544	567	-4	
MO-109	MU1 Overlying	3/25/2016	17	112	120	-7	10.4	21	-50	544	567	-4	
MO-110	MU1 Overlying	1/7/2016	--	96	128	-25	5.9	23	-74	439	533	-18	
MO-110	MU1 Overlying	1/21/2016	14	98	128	-23	6.0	23	-74	436	533	-18	
MO-110	MU1 Overlying	2/10/2016	20	97	128	-24	4.9	23	-79	438	533	-18	
MO-110	MU1 Overlying	2/22/2016	12	98	128	-24	5.3	23	-77	441	533	-17	
MO-110	MU1 Overlying	3/8/2016	15	95	128	-26	5.4	23	-76	442	533	-17	
MO-110	MU1 Overlying	3/25/2016	17	93	128	-27	6.1	23	-73	439	533	-18	
MO-111	MU1 Overlying	1/7/2016	--	97	115	-16	5.8	20	-71	430	639	-33	
MO-111	MU1 Overlying	1/21/2016	14	98	115	-15	5.5	20	-73	428	639	-33	
MO-111	MU1 Overlying	2/10/2016	20	98	115	-15	6.1	20	-69	430	639	-33	
MO-111	MU1 Overlying	2/22/2016	12	105	115	-9	6.1	20	-69	436	639	-32	
MO-111	MU1 Overlying	3/8/2016	15	97	115	-15	5.3	20	-74	433	639	-32	
MO-111	MU1 Overlying	3/25/2016	17	114	115	-1	6.5	20	-68	442	639	-31	
MO-112	MU1 Overlying	1/7/2016	--	92	252	-64	5.6	22	-74	406	541	-25	
MO-112	MU1 Overlying	1/22/2016	15	95	252	-62	6.2	22	-72	406	541	-25	
MO-112	MU1 Overlying	2/10/2016	19	93	252	-63	6.7	22	-70	410	541	-24	
MO-112	MU1 Overlying	2/22/2016	12	96	252	-62	6.0	22	-73	414	541	-23	
MO-112	MU1 Overlying	3/8/2016	15	99	252	-61	6.3	22	-71	413	541	-24	
MO-112	MU1 Overlying	3/25/2016	17	98	252	-61	6.5	22	-70	421	541	-22	
MO-113	MU1 Overlying	1/7/2016	--	103	121	-15	5.2	21	-75	453	484	-6	
MO-113	MU1 Overlying	1/22/2016	15	105	121	-13	5.3	21	-75	456	484	-6	
MO-113	MU1 Overlying	2/10/2016	19	100	121	-18	9.5	21	-55	452	484	-7	
MO-113	MU1 Overlying	2/22/2016	12	100	121	-18	5.3	21	-75	436	484	-10	
MO-113	MU1 Overlying	3/8/2016	15	110	121	-9	5.4	21	-74	444	484	-8	
MO-113	MU1 Overlying	3/25/2016	17	103	121	-15	5.6	21	-73	440	484	-9	
MU-101	MU1 Underlying	1/6/2016	--	110	157	-30	6.0	20	-70	541	653	-17	
MU-101	MU1 Underlying	1/20/2016	14	107	157	-32	4.9	20	-75	548	653	-16	
MU-101	MU1 Underlying	2/9/2016	20	110	157	-30	5.2	20	-74	539	653	-17	
MU-101	MU1 Underlying	2/19/2016	10	111	157	-29	4.9	20	-75	537	653	-18	
MU-101	MU1 Underlying	3/7/2016	17	113.78	157	-28	4.7	20	-76	544	653	-17	
MU-101	MU1 Underlying	3/24/2016	17	106	157	-32	5.1	20	-74	539	653	-17	
MU-102	MU1 Underlying	1/6/2016	--	105	119	-12	4.9	19	-74	429	507	-15	
MU-102	MU1 Underlying	1/20/2016	14	102	119	-14	5.2	19	-73	433	507	-15	
MU-102	MU1 Underlying	2/9/2016	20	104	119	-12	4.7	19	-75	424	507	-16	
MU-102	MU1 Underlying	2/19/2016	10	103	119	-14	5.3	19	-72	425	507	-16	
MU-102	MU1 Underlying	3/7/2016	17	103	119	-14	5.2	19	-73	430	507	-15	
MU-102	MU1 Underlying	3/24/2016	17	100	119	-16	5.1	19	-73	426	507	-16	
MU-103	MU1 Underlying	1/6/2016	--	99	213	-53	4.6	20	-77	420	560	-25	
MU-103	MU1 Underlying	1/20/2016	14	104	213	-51	5.2	20	-74	422	560	-25	
MU-103	MU1 Underlying	2/9/2016	20	99	213	-53	5.4	20	-73	417	560	-26	
MU-103	MU1 Underlying	2/19/2016	10	99	213	-54	5.7	20	-71	416	560	-26	
MU-103	MU1 Underlying	3/7/2016	17	101	213	-52	5.4	20	-73	423	560	-24	
MU-103	MU1 Underlying	3/24/2016	17	100	213	-53	5.8	20	-71	420	560	-25	
MU-104A	MU1 Underlying	1/12/2016	--	--	159	--	--	21	--	--	572	--	Replacement well - Sample
MU-104A	MU1 Underlying	1/18/2016	--	--	159	--	--	21	--	--	572	--	data rejected - contaminated
MU-104A	MU1 Underlying	1/20/2016	--	--	159	--	--	21	--	--	572	--	with cement
MU-104A	MU1 Underlying	1/28/2016	--	146	159	-8	4.8	21	-77	501	572	-12	Sampled following workover

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Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance			Comments
				Assay	UCL*	% Chg	Assay	UCL*	% Chg	Assay	UCL*	% Chg	
MU-104B	MU1 Underlying	2/12/2016	--	103	159	-35	5.2	21	-75	446	572	-22	Well verification sample
MU-104B	MU1 Underlying	2/16/2016	--	82	159	-48	5.0	21	-76	408	572	-29	Routine sample - 2nd half Feb.
MU-104B	MU1 Underlying	3/7/2016	20	69	159	-57	4.7	21	-77	378	572	-34	
MU-104B	MU1 Underlying	3/24/2016	17	74	159	-53	5.0	21	-76	386	572	-33	
MU-105	MU1 Underlying	1/6/2016	--	111	124	-11	2.5	19	-87	439	562	-22	
MU-105	MU1 Underlying	1/21/2016	15	103	124	-17	5.1	19	-73	444	562	-21	
MU-105	MU1 Underlying	2/9/2016	19	100	124	-20	5.2	19	-73	441	562	-22	
MU-105	MU1 Underlying	2/19/2016	10	103	124	-17	4.6	19	-76	439	562	-22	
MU-105	MU1 Underlying	3/7/2016	17	104	124	-16	4.7	19	-75	445	562	-21	
MU-105	MU1 Underlying	3/25/2016	18	102	124	-18	4.9	19	-74	435	562	-23	
MU-106	MU1 Underlying	1/7/2016	--	101	137	-26	5.2	20	-74	461	522	-12	
MU-106	MU1 Underlying	1/21/2016	14	99	137	-28	5.1	20	-75	463	522	-11	
MU-106	MU1 Underlying	2/10/2016	20	102	137	-26	5.3	20	-74	457	522	-12	
MU-106	MU1 Underlying	2/22/2016	12	104	137	-24	5.0	20	-75	458	522	-12	
MU-106	MU1 Underlying	3/8/2016	15	105	137	-24	6.0	20	-70	462	522	-11	
MU-106	MU1 Underlying	3/25/2016	17	100	137	-27	5.6	20	-72	455	522	-13	
MU-107	MU1 Underlying	1/7/2016	--	100	136	-26	4.5	20	-77	467	556	-16	
MU-107	MU1 Underlying	1/21/2016	14	101	136	-25	5.1	20	-75	471	556	-15	
MU-107	MU1 Underlying	2/10/2016	20	103	136	-24	4.7	20	-76	465	556	-16	
MU-107	MU1 Underlying	2/22/2016	12	100	136	-27	5.1	20	-75	463	556	-17	
MU-107	MU1 Underlying	3/8/2016	15	101	136	-26	5.4	20	-73	471	556	-15	
MU-107	MU1 Underlying	3/25/2016	17	98	136	-28	4.8	20	-76	464	556	-17	
KPW-2	MU1 Underlying	1/7/2016	--	102	136	-25	5.7	21	-73	481	615	-22	
KPW-2	MU1 Underlying	1/21/2016	14	104	136	-24	6.2	21	-71	484	615	-21	
KPW-2	MU1 Underlying	2/10/2016	20	97	136	-28	5.9	21	-72	475	615	-23	
KPW-2	MU1 Underlying	2/22/2016	12	37	136	-72	0.0	21	-100	449	615	-27	
KPW-2	MU1 Underlying	3/8/2016	15	101	136	-26	5.5	21	-74	486	615	-21	
KPW-2	MU1 Underlying	3/25/2016	17	98	136	-28	6.5	21	-69	478	615	-22	
MU-109	MU1 Underlying	1/7/2016	--	116	196	-41	12.2	23	-47	524	525	0	
MU-109	MU1 Underlying	1/21/2016	14	113	196	-42	10.8	23	-53	529	525	1	
MU-109	MU1 Underlying	2/10/2016	20	109	196	-44	10.8	23	-53	512	525	-2	
MU-109	MU1 Underlying	2/22/2016	12	105	196	-47	6.1	23	-73	484	525	-8	
MU-109	MU1 Underlying	3/8/2016	15	121	196	-38	11.3	23	-51	542	525	3	
MU-109	MU1 Underlying	3/25/2016	17	121	196	-38	12.3	23	-46	536	525	2	
MU-110	MU1 Underlying	1/7/2016	--	90	144	-38	6.8	24	-72	463	596	-22	
MU-110	MU1 Underlying	1/21/2016	14	89	144	-38	6.5	24	-73	467	596	-22	
MU-110	MU1 Underlying	2/10/2016	20	95	144	-34	7.2	24	-70	459	596	-23	
MU-110	MU1 Underlying	2/22/2016	12	112	144	-22	11.0	24	-54	527	596	-12	
MU-110	MU1 Underlying	3/8/2016	15	90	144	-38	7.7	24	-68	468	596	-21	
MU-110	MU1 Underlying	3/25/2016	17	88	144	-39	6.8	24	-72	462	596	-22	
MU-111	MU1 Underlying	1/7/2016	--	92	188	-51	5.5	22	-75	510	652	-22	
MU-111	MU1 Underlying	1/21/2016	14	107	188	-43	5.7	22	-74	510	652	-22	
MU-111	MU1 Underlying	2/10/2016	20	90	188	-52	6.3	22	-71	507	652	-22	
MU-111	MU1 Underlying	2/22/2016	12	91	188	-52	6.2	22	-72	465	652	-29	
MU-111	MU1 Underlying	3/8/2016	15	95	188	-50	6.2	22	-72	516	652	-21	
MU-111	MU1 Underlying	3/25/2016	17	91	188	-52	5.4	22	-76	509	652	-22	
MU-112	MU1 Underlying	1/7/2016	--	94	224	-58	5.0	24	-79	446	483	-8	
MU-112	MU1 Underlying	1/22/2016	15	96	224	-57	5.5	24	-77	445	483	-8	
MU-112	MU1 Underlying	2/10/2016	19	94	224	-58	5.3	24	-78	449	483	-7	
MU-112	MU1 Underlying	2/22/2016	12	95	224	-58	5.6	24	-77	513	483	6	
MU-112	MU1 Underlying	3/8/2016	15	94	224	-58	5.3	24	-78	447	483	-7	
MU-112	MU1 Underlying	3/25/2016	17	92	224	-59	5.6	24	-77	441	483	-9	
MU-113	MU1 Underlying	1/7/2016	--	94	140	-33	5.8	25	-77	477	590	-19	
MU-113	MU1 Underlying	1/22/2016	15	92	140	-34	5.3	25	-79	477	590	-19	
MU-113	MU1 Underlying	2/10/2016	19	93	140	-34	5.3	25	-79	474	590	-20	
MU-113	MU1 Underlying	2/22/2016	12	97	140	-31	5.6	25	-77	443	590	-25	
MU-113	MU1 Underlying	3/8/2016	15	94	140	-33	5.6	25	-77	480	590	-19	
MU-113	MU1 Underlying	3/25/2016	17	90	140	-35	5.5	25	-78	474	590	-20	
LC29M	Regional DE	8/14/2015	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	
MB-10	Regional DE	8/17/2015	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	

UCL : Upper Control Limit

* UCL calculated on a per-well basis

Italics : Indicates warning when result is > UCL but < 120% of UCL

Bold Italics : Indicates value > 120% of UCL

Attachment 1: MU1 Water Quality Data - Quality Control
1st Quarter 2016
Lost Creek ISR Project SUA-1598

QC Sample ID	Collection Date	QC Type	Source Sample ID	Alkalinity (mg/L)			Chloride (mg/L)			Sp. Cond. (uS/cm)		
				QC Sample Assay	Source Sample Assay	RPD	QC Sample Assay	Source Sample Assay	RPD	QC Sample Assay	Primary Sample Assay	RPD
M-129	01/05/2016	Duplicate	M-116A	106	102	4	5.3	5.3	0	502	497	1
M-129	01/19/2016	Duplicate	M-118	107	121	12	4.8	5.4	12	502	502	0
M-129	02/04/2016	Duplicate	M-113	103	101	2	5.4	6.2	15	516	512	1
M-129	02/17/2016	Duplicate	M-117	93	102	9	5.4	5.3	2	477	487	2
M-129	03/04/2016	Duplicate	M-126	110	105	5	6.3	5.8	8	535	528	1
M-129	03/22/2016	Duplicate	M-116A	104	99	5	5.1	4.8	7	497	492	1
M-130	01/05/2016	Blank	N/A	0.3	N/A	N/A	0.5	N/A	N/A	2.0	N/A	N/A
M-130	01/19/2016	Blank	N/A	0.8	N/A	N/A	0.5	N/A	N/A	2.3	N/A	N/A
M-130	02/08/2016	Blank	N/A	0.5	N/A	N/A	0.5	N/A	N/A	1.8	N/A	N/A
M-130	02/17/2016	Duplicate	M-118	103	109	6	4.8	5.2	9	491	499	2
M-130	03/04/2016	Blank	N/A	4.1	N/A	N/A	0.0	N/A	N/A	7.0	N/A	N/A
M-130	03/22/2016	Blank	N/A	1.5	N/A	N/A	0.1	N/A	N/A	3.5	N/A	N/A
M-131	01/05/2016	Duplicate	M-117	103	106	3	5.0	4.9	3	490	484	1
M-131	01/19/2016	Duplicate	M-120A	111	111	0	5.8	5.6	4	497	486	2
M-131	02/04/2016	Duplicate	M-114A	105	109	4	5.4	5.5	2	525	524	0
M-131	02/17/2016	Blank	N/A	0.4	N/A	N/A	0.5	N/A	N/A	1.9	N/A	N/A
M-131	03/04/2016	Duplicate	M-127	107	110	2	6.8	6.3	8	544	539	1
M-131	03/22/2016	Duplicate	M-117	116	107	8	5.7	5.2	9	485	482	1
M-132	01/05/2016	Blank	N/A	0.2	N/A	N/A	0.5	N/A	N/A	1.9	N/A	N/A
M-132	01/19/2016	Blank	N/A	0.5	N/A	N/A	0.5	N/A	N/A	2.0	N/A	N/A
M-132	02/08/2016	Blank	N/A	0.4	N/A	N/A	0.4	N/A	N/A	1.7	N/A	N/A
M-132	02/17/2016	Duplicate	M-118	107	109	N/A	5.5	5.2	N/A	501	499	N/A
M-132	03/04/2016	Blank	N/A	2.4	N/A	N/A	0.0	N/A	N/A	4.9	N/A	N/A
M-132	03/22/2016	Blank	N/A	2.3	N/A	N/A	0.0	N/A	N/A	5.3	N/A	N/A
MO-121	01/06/2016	Blank	N/A	0.0	N/A	N/A	0.4	N/A	N/A	1.73	N/A	N/A
MO-121	01/22/2016	Duplicate	MO-112	95	95	0	5.3	6.2	16	411	406	1
MO-121	02/10/2016	Duplicate	MO-107	97	97	0	5.5	6.3	14	467	469	0
MO-121	02/22/2016	Blank	N/A	0.5	N/A	N/A	0.5	N/A	N/A	1.79	N/A	N/A
MO-121	03/07/2016	Duplicate	MU-103	102	101	1	5.2	5.4	3	426	423	1
MO-121	03/25/2016	Duplicate	MO-108	98	100	2	7.2	6.1	17	501	505	1
MO-122	01/06/2016	Duplicate	MO-101	109	107	2	7.3	8.2	11	650	648	0
MO-122	01/21/2016	Blank	N/A	ND	N/A	N/A	0.6	N/A	N/A	1.9	N/A	N/A
MO-122	02/10/2016	Blank	N/A	0.2	N/A	N/A	0.5	N/A	N/A	1.3	N/A	N/A
MO-122	02/22/2016	Duplicate	MU-112	102	95	7	5.4	5.6	4	484	513	6
MO-122	03/07/2016	Blank	N/A	9.9	N/A	N/A	0.0	N/A	N/A	17.2	N/A	N/A
MO-122	03/25/2016	Blank	N/A	0.8	N/A	N/A	0.4	N/A	N/A	1.9	N/A	N/A
MU-123	01/06/2016	Duplicate	MU-101	108	110	2	5.1	6.0	17	550	541	2
MU-123	01/22/2016	Duplicate	MO-113	100	105	5	5.6	5.3	5	453	456	1
MU-123	02/10/2016	Duplicate	MO-110	97	97	0	5.6	4.9	14	437	438	0
MU-123	02/22/2016	Blank	N/A	0.4	N/A	N/A	0.5	N/A	N/A	1.5	N/A	N/A
MU-123	03/07/2016	Duplicate	MO-105	104	106	2	5.3	6.2	15	491	484	1
MU-123	03/25/2016	Duplicate	MO-112	94	95	1	5.9	6.5	10	412	421	2
MU-124	01/06/2016	Blank	N/A	0.3	N/A	N/A	0.5	N/A	N/A	2.1	N/A	N/A
MU-124	01/22/2016	Blank	N/A	ND	N/A	N/A	0.5	N/A	N/A	1.5	N/A	N/A
MU-124	02/10/2016	Blank	N/A	0.3	N/A	N/A	0.5	N/A	N/A	1.4	N/A	N/A
MU-124	02/22/2016	Duplicate	MO-108	96.1	97	N/A	6.6	6.3	N/A	499	500	N/A
MU-124	03/07/2016	Blank	N/A	3.3	N/A	N/A	0.0	N/A	N/A	7.6	N/A	N/A
MU-124	03/25/2016	Blank	N/A	0.1	N/A	N/A	0.3	N/A	N/A	1.6	N/A	N/A

RPD: Relative Percent Difference

Attachment 2: LD Sump Measurements

1st Quarter 2016

Lost Creek ISR Project SUA-1598

Date	North LD Sump Water Depth (inches)	N Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	South LD Sump Water Depth (inches)	S Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	Precip* (inches)	Comments
1/1/2016	1.00	-	-	0.00	-	-	-	
1/2/2016	0.25	-	-	0.00	-	-	-	
1/3/2016	0.25	-	-	0.00	-	-	-	
1/4/2016	2.25	431.3	0.0	0.00	500.8	0.0	-	
1/5/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/6/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/7/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/8/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/9/2016	0.50	-	-	0.00	-	-	-	
1/10/2016	0.50	-	-	0.00	-	-	-	
1/11/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/12/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/13/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/14/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/15/2016	2.00	431.3	0.0	0.00	500.8	0.0	-	
1/16/2016	2.00	-	-	0.00	-	-	-	
1/17/2016	2.00	-	-	0.00	-	-	-	
1/18/2016	1.50	431.3	0.0	0.00	500.8	0.0	-	
1/19/2016	1.50	431.3	0.0	0.00	500.8	0.0	-	
1/20/2016	1.50	431.3	0.0	0.00	500.9	0.1	-	
1/21/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
1/22/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
1/23/2016	0.50	-	-	0.00	-	-	-	
1/24/2016	0.50	-	-	0.00	-	-	-	
1/25/2016	1.25	431.3	0.0	0.00	500.9	0.0	-	
1/26/2016	1.20	431.3	0.0	0.00	500.9	0.0	-	
1/27/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
1/28/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
1/29/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
1/30/2016	0.50	-	-	0.00	-	-	-	
1/31/2016	0.50	-	-	0.00	-	-	-	
2/1/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
2/2/2016	0.50	-	-	0.00	500.9	0.0	-	
2/3/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
2/4/2016	1.50	431.3	0.0	0.00	500.9	0.0	-	
2/5/2016	2.00	-	-	0.00	-	-	-	
2/6/2016	2.00	-	-	0.00	-	-	-	
2/7/2016	2.00	-	-	0.00	-	-	-	
2/8/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/9/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/10/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/11/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/12/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/13/2016	2.00	-	-	0.00	-	-	-	
2/14/2016	2.00	-	-	0.00	-	-	-	
2/15/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/16/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/17/2016	1.50	431.4	0.1	0.00	500.9	0.0	-	
2/18/2016	5.75	439.8	8.4	0.00	500.9	0.0	-	

Attachment 2: LD Sump Measurements
1st Quarter 2016
Lost Creek ISR Project SUA-1598

Date	North LD Sump Water Depth (inches)	N Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	South LD Sump Water Depth (inches)	S Sump Totalizer Reading (gal)	Net Volume Pumped (gal)	Precip* (inches)	Comments
2/19/2016	5.00	439.9	0.1	0.00	500.9	0.0	-	
2/20/2016	2.00	-	-	0.00	-	-	-	
2/21/2016	1.00	-	-	0.00	-	-	-	
2/22/2016	3.50	440.2	0.3	0.00	500.9	0.0	-	
2/23/2016	3.00	440.2	0.0	0.00	500.9	0.0	-	
2/24/2016	2.50	440.2	0.0	0.00	501.0	0.1	-	
2/25/2016	3.00	440.2	0.0	0.00	501.0	0.0	-	
2/26/2016	2.75	440.2	0.0	0.00	501.0	0.0	-	
2/27/2016	1.50	-	-	0.00	-	-	-	
2/28/2016	3.00	-	-	3.00	-	-	-	
2/29/2016	11.00	453.3	13.1	13.50	501.8	0.8	-	Notif. to NRC - Sample collected
3/1/2016	9.00	454.3	1.0	10.00	501.8	0.0	-	Sample collected
3/2/2016	7.25	462.0	7.7	10.00	501.8	0.0	-	Sample collected
3/3/2016	6.00	462.0	0.0	8.25	501.8	0.0	-	Sample collected
3/4/2016	5.50	466.6	4.6	8.00	501.8	0.0	-	Sample collected
3/5/2016	5.50	-	-	8.00	-	-	-	
3/6/2016	5.50	-	-	8.00	-	-	-	
3/7/2016	5.50	473.7	7.1	8.00	501.8	0.0	-	
3/8/2016	4.50	473.7	0.0	4.00	501.8	0.0	-	Notif. To NRC
3/9/2016	4.00	473.7	0.0	3.25	501.8	0.0	-	
3/10/2016	3.50	473.7	0.0	3.25	501.8	0.0	-	
3/11/2016	4.00	475.9	2.2	4.00	501.8	0.0	-	
3/12/2016	5.00	-	-	4.25	-	-	-	
3/13/2016	3.00	-	-	4.00	-	-	-	
3/14/2016	4.00	482.6	6.7	3.50	501.8	0.0	-	
3/15/2016	4.00	482.6	0.0	4.50	501.8	0.0	-	
3/16/2016	3.50	482.6	0.0	4.25	501.8	0.0	-	
3/17/2016	4.50	482.6	0.0	4.50	501.8	0.0	-	
3/18/2016	4.25	482.6	0.0	4.50	501.8	0.0	-	
3/19/2016	2.00	-	-	4.50	-	-	-	
3/20/2016	6.00	-	-	5.50	-	-	-	
3/21/2016	8.75	489.4	6.8	6.50	501.8	0.0	-	
3/22/2016	5.75	496.3	6.9	6.00	501.8	0.0	-	
3/23/2016	4.00	496.3	0.0	5.00	501.8	0.0	-	
3/24/2016	4.00	497.6	1.3	3.00	501.8	0.0	-	
3/25/2016	5.00	499.9	2.3	3.75	501.8	0.0	-	
3/26/2016	3.70	499.9	0.0	3.50	501.8	0.0	-	
3/27/2016	2.00	499.9	0.0	3.00	501.8	0.0	-	
3/28/2016	5.25	501.5	1.6	5.50	501.8	0.0	-	
3/29/2016	4.25	504.7	3.2	5.50	501.9	0.1	-	
3/30/2016	3.00	504.7	0.0	3.00	501.9	0.0	-	
3/31/2016	3.50	506.0	1.3	3.50	501.9	0.0	-	

**From Rawlins Weather Service Station*