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LOST CREEK ISR, LLC

July 26, 2017

40-9068

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)
2nd Quarter 2017
Lost Creek ISR Project License SUA-1598**

To Whom It May Concern:

This report for the second calendar quarter of 2017 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). Therefore, 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 and monitoring 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 HH1-13 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 percent difference (or percent change) of the analytical result compared to the UCL value is determined by the following formula:

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

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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 excursion monitoring sample analysis are provided on **Attachment 1**. The attachment table displays the analytical result, the applicable UCL value, and the percent difference. A negative percent difference indicates the analytical value is less than the UCL.

The following parameters were in excess of the UCL but less than the 20% threshold (with one exception):

- MO-111: 4/13/2017 Alkalinity
- MO-113: 6/30/2017 Conductivity
- MU-107: 6/29/2017 Conductivity
- MU-109: 4/13/2017 Conductivity
- MU-109: 5/1/2017 Conductivity (over 20% indicating potential excursion) – Excursion verification samples were collected on 5/5/2017 and 5/8/2017 both of which resulted in conductivity less than the 20% threshold. Data confirmed no excursion.
- MU-109: 5/17/2017 Chloride and Conductivity (two parameters over the UCL indicating a potential excursion) – Excursion verification samples were collected on 5/22/2017 and 5/24/2017. Chloride results were less than the UCL value. Conductivity results were less than the 20% threshold. Data confirmed no excursion.
- MU-109: 5/31/2017 Conductivity
- MU-109: 6/15/2017 Conductivity
- MU-112: 6/30/2017 Conductivity

Water quality for MU-109 normalized (no parameter values exceeded UCL) as of the end of the reporting period. Other well parameter values that exceeded the UCL, but not over 20% of the UCL, were incidental.

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

Excursion Status and Corrective Action

No wells were on excursion during the reporting period. Monitoring is continuing for recompleted well 11284 to verify that water quality has been restored in the overlying aquifer in the area of the corrected MO-108 excursion.

STORAGE PONDS INSPECTION AND MONITORING

The quarterly Pond inspection was completed by the RSO and Environmental Technician on May 16, 2017. No issues were identified. The following items are related to overall operations of the Ponds over the quarter:

- *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*

The daily and weekly inspections were completed for the quarter. No issues were noted other than the Pond netting was damaged by the wind on multiple occasions. The netting was repaired in each case. Pond photographs were taken weekly and submitted to EPA for Subpart W reporting to demonstrate that water remained over any sediment.

- *Leak Detection System*

Some water was present in the leak detection (LD) sumps during the quarter. The sump pumps were used manually to purge water from the sumps as needed. At no time during the quarter did the level exceed the action level of 6 inches.

The average rates of residual water accumulating in the North and South Pond LD Sumps remained low (**Table 1**). The higher accumulation rates for the sumps in April is likely due to spring thawing. A decline in accumulation rates by the end of the quarter was apparent.

TABLE 1: LD Sump Accumulation Rates

Month	North LD Sump Rate (in/hr)	South LD Sump Rate (in/hr)
April 2017	0.048	0.049
May 2017	0.034	0.029
June 2017	0.014	0.017
Average	0.032	0.032

- *Water Quality Monitoring*

Quarterly Pond samples were collected from the Pond surfaces on May 16, 2017. The samples were submitted to Energy Labs in Casper, WY and analyzed for the required parameters (**Table 2**).

TABLE 2: Pond 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	5/16/2017	327	14,800	38,500	8.54	8,470	1,430	20,800	0.007	0.056	166	302
S Pond	5/16/2017	283	1,920	12,400	7.99	2,290	455	6,930	0.016	0.043	76	467

- *Pond Monitor Wells*

Pond monitor wells were measured in association with the quarterly water sample collection. 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	5/16/2017	ND	NM
MW-2	5/16/2017	ND	NM
MW-3	5/16/2017	ND	NM
MW-4	5/16/2017	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**

Cc: Deputy Director, Division of Decommissioning
Uranium Recovery and Waste Programs
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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)
Nancy Williams, WDEQ-LQD, Lander (via e-mail)
Theresa Horne, Ur-Energy, Littleton (via e-mail)

**Attachment 1: MU1 Water Quality Data
2nd Quarter 2017
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	4/11/2017	13	112	172	-35	5.9	21	-72	671	965	-30	
M-101	MU1 Ring	4/26/2017	15	113	172	-34	5.5	21	-74	668	965	-31	
M-101	MU1 Ring	5/10/2017	14	127	172	-26	4.9	21	-77	651	965	-33	
M-101	MU1 Ring	5/26/2017	16	114	172	-33	6.2	21	-71	660	965	-32	
M-101	MU1 Ring	6/14/2017	19	115	172	-33	6.2	21	-71	660	965	-32	
M-101	MU1 Ring	6/28/2017	14	130	172	-25	5.9	21	-72	655	965	-32	
M-102	MU1 Ring	4/11/2017	13	136	173	-22	5.9	20	-70	806	971	-17	
M-102	MU1 Ring	4/26/2017	15	139	173	-19	6.3	20	-68	803	971	-17	
M-102	MU1 Ring	5/10/2017	14	134	173	-23	5.0	20	-75	801	971	-18	
M-102	MU1 Ring	5/26/2017	16	142	173	-18	6.1	20	-70	799	971	-18	
M-102	MU1 Ring	6/14/2017	19	138	173	-20	6.3	20	-68	796	971	-18	
M-102	MU1 Ring	6/28/2017	14	136	173	-21	5.7	20	-71	803	971	-17	
M-103A	MU1 Ring	4/11/2017	13	131	150	-12	5.5	21	-74	819	1171	-30	
M-103A	MU1 Ring	4/26/2017	15	132	150	-12	6.5	21	-69	805	1171	-31	
M-103A	MU1 Ring	5/10/2017	14	131	150	-13	6.1	21	-71	803	1171	-31	
M-103A	MU1 Ring	5/26/2017	16	137	150	-9	5.8	21	-72	801	1171	-32	
M-103A	MU1 Ring	6/14/2017	19	135	150	-10	5.7	21	-73	804	1171	-31	
M-103A	MU1 Ring	6/28/2017	14	135	150	-10	6.7	21	-68	808	1171	-31	
M-104	MU1 Ring	4/12/2017	14	134	173	-22	5.9	22	-73	820	1162	-29	
M-104	MU1 Ring	4/26/2017	14	135	173	-22	6.0	22	-73	805	1162	-31	
M-104	MU1 Ring	5/10/2017	14	133	173	-23	5.8	22	-74	744	1162	-36	
M-104	MU1 Ring	5/26/2017	16	132	173	-24	5.7	22	-74	696	1162	-40	
M-104	MU1 Ring	6/14/2017	19	121	173	-30	6.3	22	-71	683	1162	-41	
M-104	MU1 Ring	6/28/2017	14	127	173	-27	7.1	22	-68	681	1162	-41	
M-105	MU1 Ring	4/12/2017	14	122	148	-18	5.9	21	-72	659	1036	-36	
M-105	MU1 Ring	4/26/2017	14	125	148	-16	5.1	21	-76	672	1036	-35	
M-105	MU1 Ring	5/10/2017	14	119	148	-20	4.9	21	-77	676	1036	-35	
M-105	MU1 Ring	5/26/2017	16	124	148	-16	6.2	21	-71	649	1036	-37	
M-105	MU1 Ring	6/14/2017	19	130	148	-12	6.5	21	-69	696	1036	-33	
M-105	MU1 Ring	6/28/2017	14	125	148	-15	6.2	21	-71	712	1036	-31	
M-106	MU1 Ring	4/12/2017	14	114	134	-15	5.5	21	-74	641	980	-35	
M-106	MU1 Ring	4/26/2017	14	123	134	-8	5.8	21	-72	634	980	-35	
M-106	MU1 Ring	5/10/2017	14	124	134	-7	5.0	21	-76	660	980	-33	
M-106	MU1 Ring	5/26/2017	16	118	134	-12	5.6	21	-73	654	980	-33	
M-106	MU1 Ring	6/14/2017	19	119	134	-11	6.1	21	-71	662	980	-32	
M-106	MU1 Ring	6/28/2017	14	130	134	-3	5.6	21	-73	688	980	-30	
M-107	MU1 Ring	4/12/2017	14	117	138	-15	5.1	21	-76	648	1033	-37	
M-107	MU1 Ring	4/26/2017	14	121	138	-13	6.0	21	-71	667	1033	-35	
M-107	MU1 Ring	5/10/2017	14	116	138	-16	6.1	21	-71	679	1033	-34	
M-107	MU1 Ring	5/26/2017	16	122	138	-11	5.6	21	-73	673	1033	-35	
M-107	MU1 Ring	6/14/2017	19	124	138	-10	5.6	21	-73	672	1033	-35	
M-107	MU1 Ring	6/28/2017	14	118	138	-15	6.7	21	-68	677	1033	-34	
M-108	MU1 Ring	4/12/2017	14	107	127	-16	5.0	21	-76	561	905	-38	
M-108	MU1 Ring	4/26/2017	14	108	127	-15	5.1	21	-76	557	905	-38	
M-108	MU1 Ring	5/10/2017	14	110	127	-13	5.1	21	-76	552	905	-39	
M-108	MU1 Ring	5/26/2017	16	106	127	-16	5.7	21	-73	546	905	-40	
M-108	MU1 Ring	6/14/2017	19	105	127	-18	5.6	21	-73	545	905	-40	
M-108	MU1 Ring	6/28/2017	14	111	127	-12	7.1	21	-66	546	905	-40	
M-109	MU1 Ring	4/12/2017	14	103	161	-36	5.9	20	-70	571	703	-19	
M-109	MU1 Ring	4/26/2017	14	109	161	-33	5.2	20	-74	575	703	-19	
M-109	MU1 Ring	5/10/2017	14	106	161	-34	4.8	20	-76	570	703	-19	
M-109	MU1 Ring	5/26/2017	16	107	161	-34	6.3	20	-68	553	703	-21	
M-109	MU1 Ring	6/14/2017	19	104	161	-36	6.6	20	-67	539	703	-23	
M-109	MU1 Ring	6/28/2017	14	103	161	-36	5.8	20	-71	532	703	-24	
M-110	MU1 Ring	4/12/2017	14	109	147	-26	6.1	21	-71	551	1022	-46	
M-110	MU1 Ring	4/26/2017	14	109	147	-26	7.1	21	-66	550	1022	-46	
M-110	MU1 Ring	5/10/2017	14	104	147	-29	6.1	21	-71	551	1022	-46	
M-110	MU1 Ring	5/26/2017	16	111	147	-24	6.7	21	-68	555	1022	-46	
M-110	MU1 Ring	6/14/2017	19	112	147	-24	7.1	21	-66	554	1022	-46	
M-110	MU1 Ring	6/28/2017	14	107	147	-27	6.5	21	-69	545	1022	-47	
M-111	MU1 Ring	4/12/2017	14	105	146	-28	5.0	21	-76	550	897	-39	
M-111	MU1 Ring	4/27/2017	15	105	146	-28	5.6	21	-73	556	897	-38	
M-111	MU1 Ring	5/10/2017	13	109	146	-26	5.9	21	-72	540	897	-40	
M-111	MU1 Ring	5/26/2017	16	106	146	-28	5.4	21	-74	536	897	-40	
M-111	MU1 Ring	6/14/2017	19	104	146	-29	5.5	21	-74	537	897	-40	
M-111	MU1 Ring	6/28/2017	14	111	146	-24	5.4	21	-74	546	897	-39	
M-112	MU1 Ring	4/12/2017	14	104	147	-29	5.6	20	-72	549	636	-14	
M-112	MU1 Ring	4/27/2017	15	110	147	-25	4.9	20	-75	550	636	-14	
M-112	MU1 Ring	5/9/2017	12	109	147	-26	5.0	20	-75	544	636	-14	
M-112	MU1 Ring	5/26/2017	17	112	147	-24	5.8	20	-71	539	636	-15	
M-112	MU1 Ring	6/28/2017	33	108	147	-26	5.3	20	-74	536	636	-16	
M-113	MU1 Ring	4/11/2017	14	100	203	-51	5.7	21	-73	515	631	-18	
M-113	MU1 Ring	4/24/2017	13	102	203	-50	5.2	21	-75	514	631	-19	
M-113	MU1 Ring	5/9/2017	15	98	203	-52	4.5	21	-79	513	631	-19	
M-113	MU1 Ring	5/23/2017	14	104	203	-49	5.8	21	-72	508	631	-19	

**Attachment 1: MU1 Water Quality Data
2nd Quarter 2017
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-113	MU1 Ring	6/14/2017	22	101	203	-50	5.1	21	-76	512	631	-19	
M-113	MU1 Ring	6/27/2017	13	101	203	-50	5.4	21	-74	510	631	-19	
M-114A	MU1 Ring	4/11/2017	14	110	139	-21	4.9	20	-76	520	772	-33	
M-114A	MU1 Ring	4/24/2017	13	101	139	-27	5.9	20	-70	520	772	-33	
M-114A	MU1 Ring	5/9/2017	15	104	139	-25	5.0	20	-75	522	772	-32	
M-114A	MU1 Ring	5/23/2017	14	103	139	-26	5.3	20	-74	518	772	-33	
M-114A	MU1 Ring	6/13/2017	21	102	139	-26	4.9	20	-76	521	772	-33	
M-114A	MU1 Ring	6/27/2017	14	104	139	-26	6.8	20	-66	529	772	-31	
M-115A	MU1 Ring	4/11/2017	14	93	126	-26	5.0	20	-75	482	726	-34	
M-115A	MU1 Ring	4/24/2017	13	94	126	-26	4.9	20	-75	481	726	-34	
M-115A	MU1 Ring	5/9/2017	15	101	126	-20	5.0	20	-75	476	726	-34	
M-115A	MU1 Ring	5/23/2017	14	102	126	-19	4.7	20	-76	487	726	-33	
M-115A	MU1 Ring	6/13/2017	21	103	126	-18	5.9	20	-70	492	726	-32	
M-115A	MU1 Ring	6/27/2017	14	102	126	-19	5.6	20	-72	484	726	-33	
M-116A	MU1 Ring	4/11/2017	14	99	134	-26	5.2	20	-74	490	679	-28	
M-116A	MU1 Ring	4/24/2017	13	103	134	-23	4.8	20	-76	496	679	-27	
M-116A	MU1 Ring	5/9/2017	15	101	134	-25	4.7	20	-76	490	679	-28	
M-116A	MU1 Ring	5/23/2017	14	107	134	-20	5.7	20	-72	493	679	-27	
M-116A	MU1 Ring	6/13/2017	21	106	134	-21	5.9	20	-71	494	679	-27	
M-116A	MU1 Ring	6/27/2017	14	102	134	-24	5.8	20	-71	493	679	-27	
M-117	MU1 Ring	4/11/2017	14	98	139	-30	5.6	20	-72	503	711	-29	
M-117	MU1 Ring	4/24/2017	13	102	139	-27	5.0	20	-75	506	711	-29	
M-117	MU1 Ring	5/9/2017	15	98	139	-30	4.5	20	-78	500	711	-30	
M-117	MU1 Ring	5/23/2017	14	100	139	-28	5.6	20	-72	500	711	-30	
M-117	MU1 Ring	6/13/2017	21	101	139	-27	4.9	20	-75	496	711	-30	
M-117	MU1 Ring	6/27/2017	14	105	139	-25	5.2	20	-74	494	711	-31	
M-118	MU1 Ring	4/11/2017	14	93	108	-14	4.8	21	-77	500	762	-34	
M-118	MU1 Ring	4/24/2017	13	95	108	-12	5.6	21	-73	503	762	-34	
M-118	MU1 Ring	5/9/2017	15	94	108	-13	5.4	21	-74	506	762	-34	
M-118	MU1 Ring	5/23/2017	14	95	108	-12	5.3	21	-75	497	762	-35	
M-118	MU1 Ring	6/13/2017	21	95	108	-12	4.8	21	-77	501	762	-34	
M-118	MU1 Ring	6/27/2017	14	100	108	-8	5.3	21	-75	502	762	-34	
M-119	MU1 Ring	4/11/2017	14	109	128	-15	4.9	20	-75	469	622	-25	
M-119	MU1 Ring	4/24/2017	13	110	128	-14	5.2	20	-74	472	622	-24	
M-119	MU1 Ring	5/9/2017	15	117	128	-8	5.5	20	-73	462	622	-26	
M-119	MU1 Ring	5/23/2017	14	118	128	-8	5.5	20	-73	503	622	-19	
M-119	MU1 Ring	6/13/2017	21	116	128	-9	6.2	20	-69	458	622	-26	
M-119	MU1 Ring	6/27/2017	14	112	128	-12	6.3	20	-68	458	622	-26	
M-120A	MU1 Ring	4/11/2017	14	103	142	-27	5.7	20	-71	474	715	-34	
M-120A	MU1 Ring	4/24/2017	13	111	142	-22	4.8	20	-76	477	715	-33	
M-120A	MU1 Ring	5/9/2017	15	106	142	-25	4.9	20	-75	462	715	-35	
M-120A	MU1 Ring	5/23/2017	14	109	142	-23	6.1	20	-69	460	715	-36	
M-120A	MU1 Ring	6/13/2017	21	110	142	-23	6.0	20	-70	466	715	-35	
M-120A	MU1 Ring	6/27/2017	14	110	142	-22	6.1	20	-69	467	715	-35	
M-121	MU1 Ring	4/11/2017	14	111	140	-20	6.9	20	-65	512	755	-32	
M-121	MU1 Ring	4/26/2017	15	107	140	-23	4.7	20	-76	501	755	-34	
M-121	MU1 Ring	5/9/2017	13	108	140	-23	4.8	20	-76	509	755	-33	
M-121	MU1 Ring	5/23/2017	14	109	140	-22	5.7	20	-72	507	755	-33	
M-121	MU1 Ring	6/13/2017	21	109	140	-22	5.0	20	-75	512	755	-32	
M-121	MU1 Ring	6/27/2017	14	110	140	-21	5.5	20	-73	516	755	-32	
M-122	MU1 Ring	4/11/2017	14	110	142	-23	5.3	20	-73	501	593	-16	
M-122	MU1 Ring	4/26/2017	15	113	142	-20	4.8	20	-76	495	593	-17	
M-122	MU1 Ring	5/9/2017	13	112	142	-21	5.5	20	-73	503	593	-15	
M-122	MU1 Ring	5/23/2017	14	115	142	-19	5.3	20	-74	500	593	-16	
M-122	MU1 Ring	6/13/2017	21	115	142	-19	5.4	20	-73	503	593	-15	
M-122	MU1 Ring	6/27/2017	14	115	142	-19	6.6	20	-67	510	593	-14	
M-123	MU1 Ring	4/11/2017	14	109	131	-17	4.7	20	-77	494	718	-31	
M-123	MU1 Ring	4/26/2017	15	108	131	-18	5.4	20	-73	489	718	-32	
M-123	MU1 Ring	5/9/2017	13	117	131	-11	4.8	20	-76	496	718	-31	
M-123	MU1 Ring	5/23/2017	14	110	131	-16	5.0	20	-75	492	718	-31	
M-123	MU1 Ring	6/13/2017	21	111	131	-15	5.9	20	-70	497	718	-31	

**Attachment 1: MU1 Water Quality Data
2nd Quarter 2017
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-123	MU1 Ring	6/27/2017	14	113	131	-14	6.3	20	-68	501	718	-30	
M-124	MU1 Ring	4/11/2017	14	105	123	-15	5.2	20	-74	467	536	-13	
M-124	MU1 Ring	4/26/2017	15	110	123	-11	4.9	20	-75	463	536	-14	
M-124	MU1 Ring	5/9/2017	13	110	123	-11	4.3	20	-79	465	536	-13	
M-124	MU1 Ring	5/23/2017	14	113	123	-8	5.6	20	-72	468	536	-13	
M-124	MU1 Ring	6/13/2017	21	111	123	-10	5.4	20	-73	473	536	-12	
M-124	MU1 Ring	6/27/2017	14	111	123	-10	5.3	20	-73	470	536	-12	
M-125	MU1 Ring	4/11/2017	14	105	135	-22	6.6	21	-69	542	657	-18	
M-125	MU1 Ring	4/26/2017	15	116	135	-14	5.4	21	-74	543	657	-17	
M-125	MU1 Ring	5/9/2017	13	106	135	-21	6.0	21	-71	542	657	-18	
M-125	MU1 Ring	5/23/2017	14	108	135	-20	6.2	21	-70	540	657	-18	
M-125	MU1 Ring	6/13/2017	21	110	135	-18	5.7	21	-73	543	657	-17	
M-125	MU1 Ring	6/27/2017	14	111	135	-18	6.0	21	-71	546	657	-17	
M-126	MU1 Ring	4/11/2017	14	106	194	-45	5.8	21	-72	544	682	-20	
M-126	MU1 Ring	4/26/2017	15	106	194	-45	5.6	21	-74	542	682	-21	
M-126	MU1 Ring	5/9/2017	13	107	194	-45	6.8	21	-68	543	682	-20	
M-126	MU1 Ring	5/23/2017	14	115	194	-41	5.7	21	-73	542	682	-21	
M-126	MU1 Ring	6/13/2017	21	106	194	-45	6.4	21	-70	545	682	-20	
M-126	MU1 Ring	6/27/2017	14	107	194	-45	6.9	21	-67	549	682	-20	
M-127	MU1 Ring	4/11/2017	14	106	149	-29	5.5	21	-74	555	792	-30	
M-127	MU1 Ring	4/26/2017	15	111	149	-25	6.3	21	-70	551	792	-30	
M-127	MU1 Ring	5/9/2017	13	112	149	-25	5.5	21	-74	555	792	-30	
M-127	MU1 Ring	5/23/2017	14	114	149	-23	6.2	21	-70	555	792	-30	
M-127	MU1 Ring	6/14/2017	22	113	149	-24	7.1	21	-66	558	792	-30	
M-127	MU1 Ring	6/28/2017	14	110	149	-26	6.8	21	-68	569	792	-28	
M-128	MU1 Ring	4/11/2017	14	111	122	-9	6.2	21	-70	581	802	-28	
M-128	MU1 Ring	4/26/2017	15	109	122	-11	5.5	21	-74	557	802	-31	
M-128	MU1 Ring	5/9/2017	13	109	122	-11	5.2	21	-75	577	802	-28	
M-128	MU1 Ring	5/23/2017	14	110	122	-10	6.5	21	-69	569	802	-29	
M-128	MU1 Ring	6/14/2017	22	112	122	-8	6.2	21	-71	572	802	-29	
M-128	MU1 Ring	6/28/2017	14	116	122	-5	7.9	21	-63	584	802	-27	
MO-101	MU1 Overlying	4/12/2017	13	102	136	-25	7.9	23	-66	640	824	-22	
MO-101	MU1 Overlying	4/27/2017	15	103	136	-24	6.5	23	-72	646	824	-22	
MO-101	MU1 Overlying	5/10/2017	13	105	136	-23	7.5	23	-68	653	824	-21	
MO-101	MU1 Overlying	5/30/2017	20	107	136	-21	7.5	23	-68	651	824	-21	
MO-101	MU1 Overlying	6/15/2017	16	102	136	-25	7.1	23	-69	628	824	-24	
MO-101	MU1 Overlying	6/29/2017	14	106	136	-22	8.0	23	-65	648	824	-21	
MO-102	MU1 Overlying	4/12/2017	13	96	125	-23	5.9	21	-72	589	670	-12	
MO-102	MU1 Overlying	4/27/2017	15	101	125	-19	6.7	21	-68	581	670	-13	
MO-102	MU1 Overlying	5/10/2017	13	103	125	-18	6.7	21	-68	591	670	-12	
MO-102	MU1 Overlying	5/30/2017	20	103	125	-17	6.0	21	-72	589	670	-12	
MO-102	MU1 Overlying	6/15/2017	16	104	125	-17	7.1	21	-66	590	670	-12	
MO-102	MU1 Overlying	6/29/2017	14	102	125	-19	6.5	21	-69	597	670	-11	
MO-103	MU1 Overlying	4/12/2017	13	112	130	-14	8.9	21	-57	718	849	-15	
MO-103	MU1 Overlying	4/27/2017	15	113	130	-13	10.4	21	-51	703	849	-17	
MO-103	MU1 Overlying	5/10/2017	13	113	130	-13	7.6	21	-64	723	849	-15	
MO-103	MU1 Overlying	5/30/2017	20	113	130	-13	7.3	21	-65	713	849	-16	
MO-103	MU1 Overlying	6/15/2017	16	115	130	-12	10.4	21	-51	714	849	-16	
MO-103	MU1 Overlying	6/29/2017	14	114	130	-12	10.2	21	-51	710	849	-16	
MO-104	MU1 Overlying	4/12/2017	13	112	160	-30	9.7	24	-60	598	714	-16	
MO-104	MU1 Overlying	4/27/2017	15	109	160	-32	8.6	24	-64	591	714	-17	
MO-104	MU1 Overlying	5/10/2017	13	112	160	-30	7.5	24	-69	605	714	-15	
MO-104	MU1 Overlying	5/30/2017	20	118	160	-26	9.1	24	-62	603	714	-16	
MO-104	MU1 Overlying	6/15/2017	16	112	160	-30	8.7	24	-64	606	714	-15	
MO-104	MU1 Overlying	6/29/2017	14	117	160	-27	8.6	24	-64	598	714	-16	
MO-105	MU1 Overlying	4/12/2017	13	98	128	-24	5.8	20	-71	480	669	-28	
MO-105	MU1 Overlying	4/27/2017	15	104	128	-19	4.9	20	-76	479	669	-28	
MO-105	MU1 Overlying	5/10/2017	13	106	128	-17	5.7	20	-71	486	669	-27	
MO-105	MU1 Overlying	5/30/2017	20	105	128	-18	5.1	20	-74	485	669	-28	
MO-105	MU1 Overlying	6/15/2017	16	106	128	-17	5.2	20	-74	482	669	-28	
MO-105	MU1 Overlying	6/29/2017	14	105	128	-18	5.2	20	-74	484	669	-28	
MO-106	MU1 Overlying	4/13/2017	14	96	143	-33	5.0	20	-75	463	626	-26	
MO-106	MU1 Overlying	4/27/2017	14	100	143	-30	5.6	20	-72	468	626	-25	
MO-106	MU1 Overlying	5/11/2017	14	99	143	-31	5.5	20	-73	468	626	-25	
MO-106	MU1 Overlying	5/30/2017	19	100	143	-30	5.2	20	-74	467	626	-25	
MO-106	MU1 Overlying	6/15/2017	16	98	143	-31	6.4	20	-68	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	6/29/2017	14	105	143	-27	6.7	20	-67	468	626	-25	
MO-107	MU1 Overlying	4/13/2017	14	100	110	-9	5.0	20	-75	463	502	-8	
MO-107	MU1 Overlying	4/27/2017	14	98	110	-11	5.6	20	-72	462	502	-8	
MO-107	MU1 Overlying	5/11/2017	14	99	110	-10	4.6	20	-77	464	502	-8	
MO-107	MU1 Overlying	5/30/2017	19	104	110	-6	5.9	20	-71	464	502	-8	
MO-107	MU1 Overlying	6/15/2017	16	107	110	-3	5.8	20	-71	465	502	-7	
MO-107	MU1 Overlying	6/29/2017	14	102	110	-7	6.0	20	-70	467	502	-7	
MO-108	MU1 Overlying	4/13/2017	17	96	118	-19	6.5	20	-67	486	513	-5	
MO-108	MU1 Overlying	4/27/2017	14	95	118	-19	5.5	20	-72	484	513	-6	
MO-108	MU1 Overlying	5/11/2017	14	99	118	-16	5.4	20	-73	487	513	-5	
MO-108	MU1 Overlying	5/30/2017	19	102	118	-14	6.3	20	-69	486	513	-5	
MO-108	MU1 Overlying	6/15/2017	16	98	118	-17	5.5	20	-72	487	513	-5	
MO-108	MU1 Overlying	6/29/2017	14	99	118	-16	5.6	20	-72	489	513	-5	
MO-109	MU1 Overlying	4/13/2017	14	101	120	-16	6.8	21	-67	507	567	-11	
MO-109	MU1 Overlying	5/1/2017	18	108	120	-10	7.0	21	-67	510	567	-10	
MO-109	MU1 Overlying	5/11/2017	10	109	120	-9	7.5	21	-64	507	567	-11	
MO-109	MU1 Overlying	5/31/2017	20	107	120	-11	6.8	21	-68	512	567	-10	
MO-109	MU1 Overlying	6/15/2017	15	109	120	-9	7.3	21	-65	509	567	-10	
MO-109	MU1 Overlying	6/29/2017	14	113	120	-6	7.9	21	-62	516	567	-9	
MO-110	MU1 Overlying	4/13/2017	14	91	128	-29	4.7	23	-80	434	533	-19	
MO-110	MU1 Overlying	5/1/2017	18	96	128	-25	5.5	23	-76	431	533	-19	
MO-110	MU1 Overlying	5/11/2017	10	94	128	-26	5.1	23	-78	437	533	-18	
MO-110	MU1 Overlying	5/31/2017	20	97	128	-25	5.2	23	-77	435	533	-18	
MO-110	MU1 Overlying	6/16/2017	16	95	128	-26	6.1	23	-73	435	533	-18	
MO-110	MU1 Overlying	6/30/2017	14	98	128	-24	6.6	23	-71	438	533	-18	
MO-111	MU1 Overlying	4/13/2017	14	118	115	2	11.8	20	-41	485	639	-24	
MO-111	MU1 Overlying	5/1/2017	18	113	115	-2	11.0	20	-45	496	639	-22	
MO-111	MU1 Overlying	5/11/2017	10	111	115	-3	9.5	20	-53	491	639	-23	
MO-111	MU1 Overlying	5/31/2017	20	115	115	0	10.5	20	-48	474	639	-26	
MO-111	MU1 Overlying	6/16/2017	16	113	115	-2	10.4	20	-48	486	639	-24	
MO-111	MU1 Overlying	6/30/2017	14	114	115	-1	10.5	20	-48	493	639	-23	
MO-112	MU1 Overlying	4/13/2017	14	104	252	-59	6.8	22	-69	430	541	-21	
MO-112	MU1 Overlying	5/1/2017	18	106	252	-58	6.3	22	-71	427	541	-21	
MO-112	MU1 Overlying	5/11/2017	10	111	252	-56	6.5	22	-70	432	541	-20	
MO-112	MU1 Overlying	5/31/2017	20	106	252	-58	6.9	22	-69	430	541	-21	
MO-112	MU1 Overlying	6/16/2017	16	109	252	-57	6.5	22	-71	434	541	-20	
MO-112	MU1 Overlying	6/30/2017	14	114	252	-55	6.8	22	-69	441	541	-18	
MO-113	MU1 Overlying	4/13/2017	13	96	121	-20	5.8	21	-72	456	484	-6	
MO-113	MU1 Overlying	5/1/2017	18	103	121	-15	6.3	21	-70	454	484	-6	
MO-113	MU1 Overlying	5/11/2017	10	100	121	-17	6.9	21	-67	458	484	-5	
MO-113	MU1 Overlying	5/31/2017	20	102	121	-16	5.9	21	-72	454	484	-6	
MO-113	MU1 Overlying	6/16/2017	16	100	121	-18	7.2	21	-66	462	484	-5	
MO-113	MU1 Overlying	6/30/2017	14	107	121	-11	5.3	21	-75	548	484	19	
MU-101	MU1 Underlying	4/12/2017	13	105	157	-33	4.8	20	-76	544	653	-17	
MU-101	MU1 Underlying	4/27/2017	15	105	157	-33	5.8	20	-71	543	653	-17	
MU-101	MU1 Underlying	5/10/2017	13	104	157	-33	4.8	20	-76	545	653	-17	
MU-101	MU1 Underlying	5/30/2017	20	114	157	-27	5.5	20	-72	547	653	-16	
MU-101	MU1 Underlying	6/15/2017	16	108	157	-31	6.2	20	-69	548	653	-16	
MU-101	MU1 Underlying	6/29/2017	14	103	157	-35	5.0	20	-75	430	653	-34	
MU-102	MU1 Underlying	4/12/2017	13	101	119	-15	5.5	19	-71	427	507	-16	
MU-102	MU1 Underlying	4/27/2017	15	100	119	-16	4.8	19	-75	430	507	-15	
MU-102	MU1 Underlying	5/10/2017	13	104	119	-13	4.3	19	-77	432	507	-15	
MU-102	MU1 Underlying	5/30/2017	20	103	119	-13	6.0	19	-68	436	507	-14	
MU-102	MU1 Underlying	6/15/2017	16	104	119	-13	5.0	19	-74	428	507	-16	
MU-102	MU1 Underlying	6/29/2017	14	104	119	-13	6.0	19	-68	431	507	-15	
MU-103	MU1 Underlying	4/12/2017	13	97	213	-55	4.8	20	-76	421	560	-25	
MU-103	MU1 Underlying	4/27/2017	15	102	213	-52	4.3	20	-79	421	560	-25	
MU-103	MU1 Underlying	5/10/2017	13	101	213	-52	5.2	20	-74	423	560	-24	
MU-103	MU1 Underlying	5/30/2017	20	101	213	-53	4.9	20	-75	422	560	-25	
MU-103	MU1 Underlying	6/15/2017	16	100	213	-53	4.4	20	-78	423	560	-24	
MU-103	MU1 Underlying	6/29/2017	14	99	213	-53	5.6	20	-72	433	560	-23	
MU-104B	MU1 Underlying	4/12/2017	13	92	159	-42	4.4	21	-79	433	572	-24	
MU-104B	MU1 Underlying	4/27/2017	15	97	159	-39	4.6	21	-78	429	572	-25	
MU-104B	MU1 Underlying	5/10/2017	13	94	159	-41	4.6	21	-78	433	572	-24	
MU-104B	MU1 Underlying	5/30/2017	20	100	159	-37	4.6	21	-78	432	572	-24	
MU-104B	MU1 Underlying	6/15/2017	16	96	159	-39	5.0	21	-76	434	572	-24	

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2nd Quarter 2017
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	
MU-104B	MU1 Underlying	6/29/2017	14	101	159	-37	5.0	21	-76	440	572	-23	
MU-105	MU1 Underlying	4/12/2017	13	97	124	-22	4.9	19	-74	437	562	-22	
MU-105	MU1 Underlying	4/27/2017	15	97	124	-22	5.1	19	-73	433	562	-23	
MU-105	MU1 Underlying	5/10/2017	13	108	124	-13	5.2	19	-73	438	562	-22	
MU-105	MU1 Underlying	5/30/2017	20	104	124	-16	5.3	19	-72	436	562	-22	
MU-105	MU1 Underlying	6/15/2017	16	103	124	-17	6.1	19	-68	438	562	-22	
MU-105	MU1 Underlying	6/29/2017	14	101	124	-18	5.4	19	-72	447	562	-20	
MU-106	MU1 Underlying	4/13/2017	14	98	137	-28	5.1	20	-75	433	522	-17	
MU-106	MU1 Underlying	4/27/2017	14	97	137	-30	4.9	20	-75	438	522	-16	
MU-106	MU1 Underlying	5/11/2017	14	101	137	-26	5.5	20	-73	437	522	-16	
MU-106	MU1 Underlying	5/30/2017	19	99	137	-27	5.7	20	-71	436	522	-16	
MU-106	MU1 Underlying	6/15/2017	16	103	137	-25	5.3	20	-74	437	522	-16	
MU-106	MU1 Underlying	6/29/2017	14	105	137	-24	5.9	20	-70	475	522	-9	
MU-107	MU1 Underlying	4/13/2017	14	100	136	-27	5.2	20	-74	474	556	-15	
MU-107	MU1 Underlying	4/27/2017	14	107	136	-21	4.7	20	-77	471	556	-15	
MU-107	MU1 Underlying	5/11/2017	14	101	136	-26	4.9	20	-75	475	556	-15	
MU-107	MU1 Underlying	5/30/2017	19	101	136	-26	5.0	20	-75	477	556	-14	
MU-107	MU1 Underlying	6/15/2017	16	100	136	-26	4.9	20	-75	476	556	-14	
MU-107	MU1 Underlying	6/29/2017	14	122	136	-10	14.6	20	-27	590	556	6	
KPW-2	MU1 Underlying	4/13/2017	17	100	136	-26	8.8	21	-58	513	615	-17	
KPW-2	MU1 Underlying	4/27/2017	14	105	136	-23	9.5	21	-55	517	615	-16	
KPW-2	MU1 Underlying	5/11/2017	14	107	136	-21	10.4	21	-50	546	615	-11	
KPW-2	MU1 Underlying	5/30/2017	19	134	136	-2	12.8	21	-39	582	615	-5	
KPW-2	MU1 Underlying	6/15/2017	16	120	136	-12	16.6	21	-21	593	615	-4	
KPW-2	MU1 Underlying	6/29/2017	14	129	136	-5	12.5	21	-40	553	615	-10	
MU-109	MU1 Underlying	4/13/2017	14	132	196	-33	15.0	23	-35	616	525	17	
MU-109	MU1 Underlying	5/1/2017	18	137	196	-30	18.4	23	-20	642	525		
MU-109	MU1 Underlying	5/5/2017	4	135	196	-31	21.9	23	-5	623	525	19	1st Verification
MU-109	MU1 Underlying	5/8/2017	3	139	196	-29	18.4	23	-20	604	525	15	2nd Verification
MU-109	MU1 Underlying	5/17/2017	9	126	196	-36	24.5	23	7	568	525	8	
MU-109	MU1 Underlying	5/22/2017	5	133	196	-32	14.9	23	-35	563	525	7	1st Verification
MU-109	MU1 Underlying	5/24/2017	2	136	196	-31	15.7	23	-32	582	525	11	2nd Verification
MU-109	MU1 Underlying	5/31/2017	7	131	196	-33	14.2	23	-38	588	525	12	
MU-109	MU1 Underlying	6/15/2017	15	129	196	-34	13.1	23	-43	576	525	10	
MU-109	MU1 Underlying	6/29/2017	14	94	196	-52	6.9	23	-70	472	525	-10	
MU-110	MU1 Underlying	4/13/2017	14	91	144	-37	5.9	24	-75	468	596	-21	
MU-110	MU1 Underlying	5/1/2017	18	94	144	-35	5.5	24	-77	467	596	-22	
MU-110	MU1 Underlying	5/11/2017	10	94	144	-35	6.3	24	-74	472	596	-21	
MU-110	MU1 Underlying	5/31/2017	20	96	144	-33	5.8	24	-76	473	596	-21	
MU-110	MU1 Underlying	6/16/2017	16	93	144	-35	6.3	24	-74	472	596	-21	
MU-110	MU1 Underlying	6/30/2017	14	94	144	-34	5.7	24	-76	511	596	-14	
MU-111	MU1 Underlying	4/13/2017	14	91	188	-52	5.5	22	-75	509	652	-22	
MU-111	MU1 Underlying	5/1/2017	18	93	188	-50	5.4	22	-76	510	652	-22	
MU-111	MU1 Underlying	5/11/2017	10	96	188	-49	4.8	22	-78	509	652	-22	
MU-111	MU1 Underlying	5/31/2017	20	97	188	-49	4.9	22	-78	509	652	-22	
MU-111	MU1 Underlying	6/16/2017	16	96	188	-49	6.4	22	-71	510	652	-22	
MU-111	MU1 Underlying	6/30/2017	14	95	188	-49	4.9	22	-78	453	652	-31	
MU-112	MU1 Underlying	4/13/2017	14	90	224	-60	4.9	24	-80	457	483	-5	
MU-112	MU1 Underlying	5/1/2017	18	92	224	-59	5.0	24	-79	456	483	-6	
MU-112	MU1 Underlying	5/11/2017	10	96	224	-57	4.5	24	-81	454	483	-6	
MU-112	MU1 Underlying	5/31/2017	20	95	224	-58	5.5	24	-77	453	483	-6	
MU-112	MU1 Underlying	6/16/2017	16	97	224	-57	5.6	24	-77	455	483	-6	
MU-112	MU1 Underlying	6/30/2017	14	96	224	-57	5.6	24	-77	488	483	7	
MU-113	MU1 Underlying	4/13/2017	13	89	140	-36	4.8	25	-81	484	590	-18	
MU-113	MU1 Underlying	5/1/2017	18	90	140	-36	4.7	25	-81	483	590	-18	
MU-113	MU1 Underlying	5/11/2017	10	92	140	-34	5.0	25	-80	484	590	-18	
MU-113	MU1 Underlying	5/31/2017	20	95	140	-32	5.5	25	-78	493	590	-16	
MU-113	MU1 Underlying	6/16/2017	16	93	140	-33	5.0	25	-80	492	590	-17	
MU-113	MU1 Underlying	6/30/2017	14	104	140	-26	6.3	25	-75	516	590	-13	
LC29M	Regional DE	3/27/2017	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	Insufficient water
MB-10	Regional DE	3/27/2017	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	Insufficient water

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 - QC
2nd Quarter 2017
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	1/13/2017	Duplicate	M-120	128	115	11	5.0	5.0	0	487	488	0
M-129	1/26/2017	Duplicate	M-123	108	111	3	5.1	5.6	10	504	495	2
M-129	2/10/2017	Duplicate	M-123	116	115	1	5.3	5.3	1	498	496	0
M-129	2/20/2017	Duplicate	M-121	108	112	4	5.9	6.3	7	514	514	0
M-129	3/8/2017	Duplicate	M-118	99	95	4	4.9	5.8	17	513	492	4
M-129	3/28/2017	Duplicate	M-117	93	98	5	5.4	5.8	6	504	500	1
M-130	1/13/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
M-130	1/27/2017	Field Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
M-130	2/10/2017	Field Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	5	N/A	N/A
M-130	2/21/2017	Field Blank	N/A	15	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
M-130	3/8/2017	Field Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
M-130	3/28/2017	Field Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	28	N/A	N/A
M-131	1/13/2017	Duplicate	M-121	116	112	4	6.0	5.7	5	522	516	1
M-131	1/26/2017	Duplicate	M-124	105	107	1	4.5	4.7	5	470	469	0
M-131	2/10/2017	Duplicate	M-124	107	108	1	4.6	4.8	6	468	469	0
M-131	2/20/2017	Duplicate	M-122	118	110	7	5.1	5.4	5	502	502	0
M-131	3/8/2017	Duplicate	M-119	113	112	1	5.5	6.4	16	473	468	1
M-131	3/28/2017	Duplicate	M-118	93	91	2	5.5	5.3	3	510	502	2
M-132	1/13/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
M-132	1/27/2017	Field Blank	N/A	9	N/A	N/A	0.6	N/A	N/A	2	N/A	N/A
M-132	2/10/2017	Field Blank	N/A	1	N/A	N/A	0.0	N/A	N/A	1	N/A	N/A
M-132	2/21/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	33	N/A	N/A
M-132	3/8/2017	Field Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
M-132	3/28/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
MO-121	1/17/2017	Duplicate	MO-109	113	113	0	7.0	8.0	13	516	517	0
MO-121	1/30/2017	Duplicate	MO-102	97	100	3	6.8	6.6	3	595	590	1
MO-121	2/15/2017	Duplicate	MO-109	109	107	2	6.7	7.1	6	511	508	1
MO-121	2/28/2017	Duplicate	MU-105	102	100	2	5.0	6.0	18	434	432	0
MO-121	3/13/2017	Duplicate	MO-103	115	95	19	10.0	9.7	4	715	718	0
MO-121	3/30/2017	Duplicate	MO-109	103	101	2	7.4	7.6	3	523	516	1
MO-122	1/17/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
MO-122	1/31/2017	Field Blank	N/A	110	N/A	N/A	10.0	N/A	N/A	712	N/A	N/A
MO-122	2/15/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	6	N/A	N/A
MO-122	3/1/2017	Field Blank	N/A	17	N/A	N/A	0.0	N/A	N/A	37	N/A	N/A
MO-122	3/14/2017	Field Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
MO-122	3/30/2017	Duplicate	MO-110	92	91	1	4.9	5.0	1	444	438	1
MU-123	1/17/2017	Duplicate	MO-110	97	102	5	7.0	5.0	33	469	442	6
MU-123	1/30/2017	Field Blank	N/A	9	N/A	N/A	0.0	N/A	N/A	33	N/A	N/A
MU-123	2/15/2017	Duplicate	MO-110	96	98	2	5.7	5.2	10	438	434	1
MU-123	3/1/2017	Duplicate	MU-112	95	94	1	4.8	6.2	25	450	447	1
MU-123	3/13/2017	Duplicate	MO-105	106	104	2	6.2	5.4	14	481	479	0
MU-123	3/30/2017	Field Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
MU-124	1/17/2017	Field Blank	N/A	ND(5)	N/A	N/A	ND(1)	N/A	N/A	ND(5)	N/A	N/A
MU-124	1/31/2017	Field Blank	N/A	10	N/A	N/A	0.5	N/A	N/A	2	N/A	N/A
MU-124	2/15/2017	Field Blank	N/A	3	N/A	N/A	0.0	N/A	N/A	7	N/A	N/A
MU-124	3/1/2017	Field Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	35	N/A	N/A
MU-124	3/14/2017	Field Blank	N/A	15	N/A	N/A	0.0	N/A	N/A	34	N/A	N/A

RPD: Relative Percent Difference