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**LOST CREEK ISR, LLC**

40-9068

October 27, 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)  
3rd Quarter 2016  
Lost Creek ISR Project License SUA-1598**

To Whom It May Concern:

This report for the third 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). 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 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

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

3-100-42

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

The following results were in excess of the UCL but less than the 20% threshold:

- M-106 7/21/2016 Alkalinity
- M-118 9/21/2016 Alkalinity
- MO-107 8/4/2016 Alkalinity
- MO-108 – see Excursion Status below
- MU-109 9/27/2016 Conductivity

The fluctuations in alkalinity and conductivity are likely due to natural variations in groundwater chemistry. The results of the other parameters (chloride and conductivity) for these wells were nominal.

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

#### *Excursion Status and Corrective Action*

An excursion was verified and declared for MO-108 on September 29, 2016 as described in the notification submitted to NRC dated October 4, 2016. In response to the excursion, injection into wells 1I171, 1I527, 1I161, 1I162, 1I181, 1I305A, 1I306, 1I307, and 1I284 was terminated, production at 1P078A and 1P152 was maintained, and monitoring at MO-108 was increased to weekly. Well 1P153I, a producer converted to injector, was converted back to a production well to increase drawdown capacity in the area.

#### **STORAGE PONDS INSPECTION AND MONITORING**

The quarterly Storage Pond water quality samples were collected on September 29, 2016 and the quarterly inspection was completed by the RSO also on September 30, 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

Inspections were conducted daily throughout the quarter. There were no issues noted as a result of the quarterly inspection.

### Leak Detection System

Residual water between the liners continued to slowly drain into the sumps. 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 recharge rates of the North and South Pond LD Sumps were on a downward trend as shown in the following table:

Month	North LD Sump Rate (in/hr)	South LD Sump Rate (in/hr)
Jul 2016	0.04	0.02
Aug 2016	0.01	0.01
Sep 2016	0.02	0.01
Average	0.02	0.01

### Water Quality Monitoring

Quarterly Pond samples were collected from the Pond surface on September 29, 2016. The 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 <sub>3</sub> )	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	9/29/2016	390	33,000	80,000	8.2	20,100	2,310	53,800	0.022	0.18	191	250
S Pond	9/29/2016	537	8,040	24,000	7.5	4,810	1,470	15,500	0.044	0.07	192 <sup>a</sup>	2,130

### *Pond Monitor Wells*

Pond monitor wells were measured in association 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	8/18/2016	ND	NM
MW-2	8/18/2016	ND	NM
MW-3	8/18/2016	ND	NM
MW-4	8/18/2016	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**

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, Two White Flint North  
Rockville, MD. 20852-2738  
John Saxton, NRC (via e-mail)  
Brian Wood, WDEQ-LQD, Lander (via e-mail)  
Theresa Horne, Ur-Energy, Littleton (via e-mail)

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**Attachment 1: MU1 Water Quality Data**  
**3rd 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	7/7/2016	--	116	172	-33	5.4	21	-74	651	965	-33	
M-101	MU1 Ring	7/19/2016	12	119	172	-31	5.4	21	-74	668	965	-31	
M-101	MU1 Ring	8/3/2016	15	117	172	-32	6.6	21	-69	664	965	-31	
M-101	MU1 Ring	8/17/2016	14	117	172	-32	5.8	21	-72	671	965	-30	
M-101	MU1 Ring	9/2/2016	16	117	172	-32	5.7	21	-73	679	965	-30	
M-101	MU1 Ring	9/23/2016	21	114	172	-34	6.0	21	-72	663	965	-31	
M-102	MU1 Ring	7/7/2016	--	139	173	-20	5.7	20	-71	803	971	-17	
M-102	MU1 Ring	7/21/2016	14	131	173	-24	6.2	20	-69	800	971	-18	
M-102	MU1 Ring	8/3/2016	13	134	173	-23	6.0	20	-70	789	971	-19	
M-102	MU1 Ring	8/17/2016	14	139	173	-20	6.2	20	-69	796	971	-18	
M-102	MU1 Ring	9/2/2016	16	139	173	-20	5.4	20	-73	805	971	-17	
M-102	MU1 Ring	9/23/2016	21	138	173	-20	6.5	20	-68	806	971	-17	
M-103A	MU1 Ring	7/7/2016	--	141	150	-6	6.8	21	-67	832	1171	-29	
M-103A	MU1 Ring	7/21/2016	14	139	150	-7	6.3	21	-70	821	1171	-30	
M-103A	MU1 Ring	8/3/2016	13	140	150	-7	5.7	21	-73	811	1171	-31	
M-103A	MU1 Ring	8/17/2016	14	137	150	-9	6.0	21	-72	811	1171	-31	
M-103A	MU1 Ring	9/2/2016	16	133	150	-11	6.1	21	-71	816	1171	-30	
M-103A	MU1 Ring	9/23/2016	21	135	150	-10	6.6	21	-69	801	1171	-32	
M-104	MU1 Ring	7/7/2016	--	128	173	-26	6.5	22	-71	733	1162	-37	
M-104	MU1 Ring	7/21/2016	14	127	173	-27	5.8	22	-73	720	1162	-38	
M-104	MU1 Ring	8/3/2016	13	121	173	-30	5.7	22	-74	687	1162	-41	
M-104	MU1 Ring	8/17/2016	14	131	173	-24	5.8	22	-74	764	1162	-34	
M-104	MU1 Ring	9/2/2016	16	141	173	-19	7.2	22	-67	820	1162	-29	
M-104	MU1 Ring	9/23/2016	21	138	173	-20	6.3	22	-71	818	1162	-30	
M-105	MU1 Ring	7/7/2016	--	126	148	-15	5.4	21	-74	632	1036	-39	
M-105	MU1 Ring	7/21/2016	14	124	148	-16	5.7	21	-73	694	1036	-33	
M-105	MU1 Ring	8/3/2016	13	133	148	-10	6.6	21	-69	739	1036	-29	
M-105	MU1 Ring	8/17/2016	14	140	148	-5	6.6	21	-69	796	1036	-23	
M-105	MU1 Ring	9/2/2016	16	140	148	-6	6.0	21	-71	794	1036	-23	
M-105	MU1 Ring	9/23/2016	21	137	148	-8	5.9	21	-72	791	1036	-24	
M-106	MU1 Ring	7/7/2016	--	117	134	-13	5.5	21	-74	613	980	-37	
M-106	MU1 Ring	7/21/2016	14	139	134	4	6.1	21	-71	617	980	-37	
M-106	MU1 Ring	8/3/2016	13	120	134	-10	5.6	21	-73	632	980	-36	
M-106	MU1 Ring	8/17/2016	14	124	134	-7	5.9	21	-72	666	980	-32	
M-106	MU1 Ring	9/2/2016	16	119	134	-11	5.1	21	-76	658	980	-33	
M-106	MU1 Ring	9/23/2016	21	120	134	-11	5.9	21	-72	652	980	-33	
M-107	MU1 Ring	7/7/2016	--	127	138	-8	6.9	21	-67	685	1033	-34	
M-107	MU1 Ring	7/21/2016	14	119	138	-14	6.5	21	-69	688	1033	-33	
M-107	MU1 Ring	8/3/2016	13	122	138	-12	5.6	21	-73	686	1033	-34	
M-107	MU1 Ring	8/17/2016	14	122	138	-12	6.3	21	-70	682	1033	-34	
M-107	MU1 Ring	9/2/2016	16	124	138	-10	5.8	21	-72	682	1033	-34	
M-107	MU1 Ring	9/23/2016	21	120	138	-13	6.5	21	-69	680	1033	-34	
M-108	MU1 Ring	7/7/2016	--	107	127	-16	6.2	21	-71	554	905	-39	
M-108	MU1 Ring	7/21/2016	14	111	127	-13	5.6	21	-73	554	905	-39	
M-108	MU1 Ring	8/3/2016	13	109	127	-14	5.6	21	-73	552	905	-39	
M-108	MU1 Ring	8/17/2016	14	107	127	-16	5.5	21	-74	554	905	-39	
M-108	MU1 Ring	9/2/2016	16	106	127	-17	6.4	21	-69	556	905	-39	
M-108	MU1 Ring	9/23/2016	21	105	127	-17	6.1	21	-71	553	905	-39	
M-109	MU1 Ring	7/7/2016	--	108	161	-33	5.7	20	-72	559	703	-20	
M-109	MU1 Ring	7/21/2016	14	103	161	-36	5.4	20	-73	553	703	-21	
M-109	MU1 Ring	8/3/2016	13	108	161	-33	6.2	20	-69	552	703	-21	
M-109	MU1 Ring	8/17/2016	14	109	161	-32	5.6	20	-72	561	703	-20	
M-109	MU1 Ring	9/2/2016	16	106	161	-34	6.0	20	-70	554	703	-21	
M-109	MU1 Ring	9/23/2016	21	106	161	-34	5.5	20	-72	550	703	-22	
M-110	MU1 Ring	7/7/2016	--	115	147	-22	6.9	21	-67	575	1022	-44	
M-110	MU1 Ring	7/21/2016	14	110	147	-25	7.0	21	-67	546	1022	-47	
M-110	MU1 Ring	8/3/2016	13	109	147	-26	6.6	21	-69	566	1022	-45	
M-110	MU1 Ring	8/18/2016	15	112	147	-24	7.5	21	-64	585	1022	-43	
M-110	MU1 Ring	9/2/2016	15	114	147	-22	6.5	21	-69	584	1022	-43	
M-110	MU1 Ring	9/23/2016	21	110	147	-25	7.0	21	-67	582	1022	-43	
M-111	MU1 Ring	7/7/2016	--	129	146	-12	6.0	21	-71	559	897	-38	
M-111	MU1 Ring	7/21/2016	14	116	146	-21	6.2	21	-70	557	897	-38	
M-111	MU1 Ring	8/3/2016	13	112	146	-23	5.2	21	-75	550	897	-39	
M-111	MU1 Ring	8/18/2016	15	136	146	-7	5.7	21	-73	562	897	-37	
M-111	MU1 Ring	9/2/2016	15	112	146	-23	5.1	21	-76	559	897	-38	
M-111	MU1 Ring	9/23/2016	21	103	146	-30	5.9	21	-72	555	897	-38	
M-112	MU1 Ring	7/7/2016	--	112	147	-24	5.6	20	-72	552	636	-13	
M-112	MU1 Ring	7/21/2016	14	107	147	-27	5.3	20	-73	548	636	-14	
M-112	MU1 Ring	8/3/2016	13	112	147	-24	5.8	20	-71	547	636	-14	
M-112	MU1 Ring	8/18/2016	15	109	147	-26	5.3	20	-74	554	636	-13	
M-112	MU1 Ring	9/2/2016	15	109	147	-26	6.0	20	-70	552	636	-13	
M-112	MU1 Ring	9/23/2016	21	106	147	-28	6.2	20	-69	550	636	-14	
M-113	MU1 Ring	7/6/2016	--	104	203	-49	5.1	21	-76	515	631	-18	
M-113	MU1 Ring	7/19/2016	13	103	203	-49	5.0	21	-76	517	631	-18	
M-113	MU1 Ring	8/2/2016	14	117	203	-42	5.8	21	-73	517	631	-18	

**Attachment 1: MU1 Water Quality Data**  
**3rd 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-113	MU1 Ring	8/16/2016	14	104	203	-49	5.0	21	-76	517	631	-18	
M-113	MU1 Ring	9/1/2016	16	104	203	-49	5.6	21	-73	519	631	-18	
M-113	MU1 Ring	9/21/2016	20	97	203	-52	6.6	21	-69	523	631	-17	
M-114A	MU1 Ring	7/6/2016	--	111	139	-20	5.2	20	-74	523	772	-32	
M-114A	MU1 Ring	7/19/2016	13	109	139	-22	5.9	20	-70	524	772	-32	
M-114A	MU1 Ring	8/2/2016	14	108	139	-22	5.2	20	-74	529	772	-31	
M-114A	MU1 Ring	8/16/2016	14	108	139	-22	5.6	20	-72	523	772	-32	
M-114A	MU1 Ring	9/1/2016	16	108	139	-22	4.7	20	-76	521	772	-33	
M-114A	MU1 Ring	9/21/2016	20	98	139	-30	5.2	20	-74	525	772	-32	
M-115A	MU1 Ring	7/6/2016	--	106	126	-16	5.6	20	-72	484	726	-33	
M-115A	MU1 Ring	7/19/2016	13	103	126	-18	5.9	20	-70	485	726	-33	
M-115A	MU1 Ring	8/2/2016	14	103	126	-18	4.7	20	-77	488	726	-33	
M-115A	MU1 Ring	8/16/2016	14	102	126	-19	5.2	20	-74	484	726	-33	
M-115A	MU1 Ring	9/1/2016	16	103	126	-19	4.6	20	-77	486	726	-33	
M-115A	MU1 Ring	9/21/2016	20	95	126	-25	5.2	20	-74	487	726	-33	
M-116A	MU1 Ring	7/6/2016	--	105	134	-22	5.4	20	-73	496	679	-27	
M-116A	MU1 Ring	7/19/2016	13	102	134	-24	4.8	20	-76	496	679	-27	
M-116A	MU1 Ring	8/2/2016	14	102	134	-24	5.3	20	-74	497	679	-27	
M-116A	MU1 Ring	8/16/2016	14	104	134	-22	4.8	20	-76	494	679	-27	
M-116A	MU1 Ring	9/1/2016	16	104	134	-23	5.9	20	-71	496	679	-27	
M-116A	MU1 Ring	9/21/2016	20	100	134	-26	5.4	20	-73	493	679	-27	
M-117	MU1 Ring	7/6/2016	--	109	139	-22	4.1	20	-79	484	711	-32	
M-117	MU1 Ring	7/19/2016	13	105	139	-24	4.9	20	-75	488	711	-31	
M-117	MU1 Ring	8/2/2016	14	103	139	-26	5.6	20	-72	495	711	-30	
M-117	MU1 Ring	8/16/2016	14	105	139	-24	4.9	20	-75	493	711	-31	
M-117	MU1 Ring	9/1/2016	16	106	139	-24	5.3	20	-74	490	711	-31	
M-117	MU1 Ring	9/21/2016	20	103	139	-26	5.9	20	-70	494	711	-31	
M-118	MU1 Ring	7/6/2016	--	108	108	0	5.3	21	-75	498	762	-35	
M-118	MU1 Ring	7/19/2016	13	102	108	-6	5.7	21	-73	503	762	-34	
M-118	MU1 Ring	8/2/2016	14	102	108	-6	6.2	21	-70	507	762	-33	
M-118	MU1 Ring	8/16/2016	14	104	108	-4	5.7	21	-73	498	762	-35	
M-118	MU1 Ring	9/1/2016	16	107	108	-1	4.7	21	-78	498	762	-35	
M-118	MU1 Ring	9/21/2016	20	111	108	3	5.3	21	-75	503	762	-34	
M-119	MU1 Ring	7/6/2016	--	113	128	-12	6.3	20	-68	475	622	-24	
M-119	MU1 Ring	7/19/2016	13	110	128	-14	5.7	20	-72	474	622	-24	
M-119	MU1 Ring	8/2/2016	14	111	128	-13	5.2	20	-74	473	622	-24	
M-119	MU1 Ring	8/16/2016	14	112	128	-13	5.7	20	-72	471	622	-24	
M-119	MU1 Ring	9/1/2016	16	111	128	-13	5.2	20	-74	472	622	-24	
M-119	MU1 Ring	9/21/2016	20	109	128	-15	5.5	20	-73	471	622	-24	
M-120A	MU1 Ring	7/6/2016	--	113	142	-20	5.7	20	-72	471	715	-34	
M-120A	MU1 Ring	7/19/2016	13	110	142	-23	5.3	20	-74	470	715	-34	
M-120A	MU1 Ring	8/2/2016	14	108	142	-24	5.9	20	-71	473	715	-34	
M-120A	MU1 Ring	8/17/2016	15	113	142	-20	4.9	20	-75	472	715	-34	
M-120A	MU1 Ring	9/1/2016	15	112	142	-21	6.3	20	-69	474	715	-34	
M-120A	MU1 Ring	9/21/2016	20	104	142	-27	5.4	20	-73	474	715	-34	
M-121	MU1 Ring	7/6/2016	--	108	140	-23	5.5	20	-72	503	755	-33	
M-121	MU1 Ring	7/19/2016	13	109	140	-22	5.3	20	-74	505	755	-33	
M-121	MU1 Ring	8/2/2016	14	115	140	-18	5.8	20	-71	512	755	-32	
M-121	MU1 Ring	8/17/2016	15	111	140	-21	4.9	20	-75	507	755	-33	
M-121	MU1 Ring	9/1/2016	15	111	140	-21	5.4	20	-73	511	755	-32	
M-121	MU1 Ring	9/21/2016	20	110	140	-22	6.0	20	-70	513	755	-32	
M-122	MU1 Ring	7/6/2016	--	116	142	-18	6.0	20	-70	500	593	-16	
M-122	MU1 Ring	7/19/2016	13	115	142	-19	4.4	20	-78	503	593	-15	
M-122	MU1 Ring	8/2/2016	14	110	142	-23	5.3	20	-74	507	593	-15	
M-122	MU1 Ring	8/17/2016	15	116	142	-18	5.3	20	-73	502	593	-15	
M-122	MU1 Ring	9/1/2016	15	115	142	-19	5.6	20	-72	499	593	-16	
M-122	MU1 Ring	9/21/2016	20	111	142	-22	5.9	20	-71	507	593	-15	
M-123	MU1 Ring	7/6/2016	--	116	131	-11	5.3	20	-74	493	718	-31	
M-123	MU1 Ring	7/19/2016	13	112	131	-15	6.0	20	-70	495	718	-31	
M-123	MU1 Ring	8/2/2016	14	119	131	-9	5.1	20	-74	496	718	-31	
M-123	MU1 Ring	8/17/2016	15	113	131	-14	5.6	20	-72	494	718	-31	

**Attachment 1: MU1 Water Quality Data**  
**3rd 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-123	MU1 Ring	9/1/2016	15	112	131	-15	5.2	20	-74	501	718	-30	
M-123	MU1 Ring	9/23/2016	22	111	131	-16	5.4	20	-73	498	718	-31	
M-124	MU1 Ring	7/6/2016	--	111	123	-10	4.6	20	-77	463	536	-14	
M-124	MU1 Ring	7/19/2016	13	110	123	-11	5.1	20	-75	468	536	-13	
M-124	MU1 Ring	8/2/2016	14	108	123	-12	4.9	20	-76	471	536	-12	
M-124	MU1 Ring	8/17/2016	15	115	123	-7	4.8	20	-76	464	536	-13	
M-124	MU1 Ring	9/1/2016	15	112	123	-9	4.6	20	-77	467	536	-13	
M-124	MU1 Ring	9/23/2016	22	110	123	-10	4.8	20	-76	466	536	-13	
M-125	MU1 Ring	7/6/2016	--	114	135	-16	6.3	21	-70	547	657	-17	
M-125	MU1 Ring	7/19/2016	13	112	135	-17	5.7	21	-73	548	657	-17	
M-125	MU1 Ring	8/2/2016	14	109	135	-19	6.1	21	-71	547	657	-17	
M-125	MU1 Ring	8/17/2016	15	109	135	-19	5.6	21	-73	546	657	-17	
M-125	MU1 Ring	9/1/2016	15	110	135	-19	6.7	21	-68	547	657	-17	
M-125	MU1 Ring	9/23/2016	22	112	135	-17	7.0	21	-67	543	657	-17	
M-126	MU1 Ring	7/6/2016	--	114	194	-41	6.7	21	-68	535	682	-22	
M-126	MU1 Ring	7/19/2016	13	123	194	-37	6.5	21	-69	542	682	-21	
M-126	MU1 Ring	8/2/2016	14	109	194	-44	6.3	21	-70	530	682	-22	
M-126	MU1 Ring	8/17/2016	15	122	194	-37	5.6	21	-73	527	682	-23	
M-126	MU1 Ring	9/1/2016	15	109	194	-44	6.2	21	-70	536	682	-21	
M-126	MU1 Ring	9/23/2016	22	109	194	-44	7.0	21	-67	541	682	-21	
M-127	MU1 Ring	7/6/2016	--	116	149	-22	6.1	21	-71	534	792	-33	
M-127	MU1 Ring	7/19/2016	13	112	149	-25	7.5	21	-64	544	792	-31	
M-127	MU1 Ring	8/2/2016	14	107	149	-28	6.2	21	-70	539	792	-32	
M-127	MU1 Ring	8/17/2016	15	109	149	-27	6.7	21	-68	547	792	-31	
M-127	MU1 Ring	9/1/2016	15	115	149	-23	5.6	21	-73	557	792	-30	
M-127	MU1 Ring	9/23/2016	22	118	149	-21	6.0	21	-72	553	792	-30	
M-128	MU1 Ring	7/6/2016	--	112	122	-8	4.5	21	-79	554	802	-31	
M-128	MU1 Ring	7/19/2016	13	109	122	-11	6.5	21	-69	568	802	-29	
M-128	MU1 Ring	8/3/2016	15	114	122	-7	5.6	21	-73	571	802	-29	
M-128	MU1 Ring	8/17/2016	14	115	122	-6	5.9	21	-72	566	802	-29	
M-128	MU1 Ring	9/1/2016	15	111	122	-9	5.4	21	-74	573	802	-29	
M-128	MU1 Ring	9/23/2016	22	112	122	-8	5.7	21	-73	570	802	-29	
MO-101	MU1 Overlying	7/7/2016	--	115	136	-15	7.0	23	-70	642	824	-22	
MO-101	MU1 Overlying	7/21/2016	14	105	136	-23	7.5	23	-67	645	824	-22	
MO-101	MU1 Overlying	8/4/2016	14	109	136	-20	7.1	23	-69	649	824	-21	
MO-101	MU1 Overlying	8/18/2016	14	109	136	-20	6.9	23	-70	645	824	-22	
MO-101	MU1 Overlying	9/3/2016	16	107	136	-21	8.5	23	-63	647	824	-21	
MO-101	MU1 Overlying	9/26/2016	23	109	136	-20	8.4	23	-63	640	824	-22	
MO-102	MU1 Overlying	7/7/2016	--	115	125	-8	7.2	21	-66	579	670	-14	
MO-102	MU1 Overlying	7/21/2016	14	102	125	-18	8.1	21	-61	585	670	-13	
MO-102	MU1 Overlying	8/4/2016	14	98	125	-22	7.4	21	-65	589	670	-12	
MO-102	MU1 Overlying	8/18/2016	14	117	125	-6	6.1	21	-71	583	670	-13	
MO-102	MU1 Overlying	9/3/2016	16	105	125	-16	6.7	21	-68	587	670	-12	
MO-102	MU1 Overlying	9/26/2016	23	104	125	-17	7.7	21	-63	591	670	-12	
MO-103	MU1 Overlying	7/7/2016	--	118	130	-9	9.4	21	-55	679	849	-20	
MO-103	MU1 Overlying	7/21/2016	14	111	130	-15	9.9	21	-53	676	849	-20	
MO-103	MU1 Overlying	8/4/2016	14	114	130	-12	8.8	21	-58	681	849	-20	
MO-103	MU1 Overlying	8/18/2016	14	117	130	-10	9.5	21	-55	682	849	-20	
MO-103	MU1 Overlying	9/3/2016	16	112	130	-14	8.6	21	-59	716	849	-16	
MO-103	MU1 Overlying	9/26/2016	23	110	130	-16	8.8	21	-58	700	849	-18	
MO-104	MU1 Overlying	7/7/2016	--	118	160	-26	8.6	24	-64	611	714	-14	
MO-104	MU1 Overlying	7/21/2016	14	114	160	-29	8.9	24	-63	610	714	-15	
MO-104	MU1 Overlying	8/4/2016	14	116	160	-28	8.0	24	-67	607	714	-15	
MO-104	MU1 Overlying	8/18/2016	14	114	160	-29	8.6	24	-64	608	714	-15	
MO-104	MU1 Overlying	9/3/2016	16	137	160	-15	9.0	24	-62	609	714	-15	
MO-104	MU1 Overlying	9/26/2016	23	117	160	-27	7.8	24	-67	602	714	-16	
MO-105	MU1 Overlying	7/7/2016	--	105	128	-18	5.3	20	-74	482	669	-28	
MO-105	MU1 Overlying	7/22/2016	15	106	128	-17	5.1	20	-75	481	669	-28	
MO-105	MU1 Overlying	8/4/2016	13	102	128	-20	5.0	20	-75	482	669	-28	
MO-105	MU1 Overlying	8/18/2016	14	104	128	-19	5.0	20	-75	479	669	-28	
MO-105	MU1 Overlying	9/3/2016	16	102	128	-20	5.6	20	-72	479	669	-28	
MO-105	MU1 Overlying	9/26/2016	23	103	128	-19	5.6	20	-72	479	669	-28	
MO-106	MU1 Overlying	7/8/2016	--	106	143	-26	6.5	20	-67	466	626	-26	
MO-106	MU1 Overlying	7/22/2016	14	100	143	-30	5.8	20	-71	469	626	-25	
MO-106	MU1 Overlying	8/4/2016	13	105	143	-27	6.3	20	-68	472	626	-25	
MO-106	MU1 Overlying	8/18/2016	14	105	143	-27	5.7	20	-72	472	626	-25	

**Attachment 1: MU1 Water Quality Data  
3rd Quarter 2016  
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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 Overlaying	9/3/2016	16	101	143	-30	5.7	20	-72	469	626	-25	
MO-106	MU1 Overlaying	9/26/2016	23	98	143	-31	6.8	20	-66	472	626	-25	
MO-107	MU1 Overlaying	7/8/2016	--	103	110	-6	5.8	20	-71	462	502	-8	
MO-107	MU1 Overlaying	7/22/2016	14	100	110	-9	5.9	20	-70	469	502	-7	
MO-107	MU1 Overlaying	8/4/2016	13	118	110	7	5.9	20	-71	469	502	-7	
MO-107	MU1 Overlaying	8/18/2016	14	101	110	-8	6.0	20	-70	466	502	-7	
MO-107	MU1 Overlaying	9/3/2016	16	104	110	-6	5.2	20	-74	466	502	-7	
MO-107	MU1 Overlaying	9/26/2016	23	101	110	-8	6.3	20	-69	474	502	-6	
MO-108	MU1 Overlaying	7/8/2016	--	103	118	-13	7.2	20	-64	506	513	-1	
MO-108	MU1 Overlaying	7/22/2016	14	104	118	-12	9.1	20	-54	525	513	2	
MO-108	MU1 Overlaying	8/4/2016	13	107	118	-9	10.7	20	-47	547	513	7	
MO-108	MU1 Overlaying	8/18/2016	14	111	118	-6	11.4	20	-43	556	513	8	
MO-108	MU1 Overlaying	8/30/2016	12	114	118	-4	12.6	20	-37	551	513	7	
MO-108	MU1 Overlaying	9/3/2016	4	115	118	-2	13.8	20	-31	548	513	7	
MO-108	MU1 Overlaying	9/27/2016	24	136	118	15	14.9	20	-26	589	513	15	
MO-108	MU1 Overlaying	9/29/2016	2	121	118	3	18.3	20	-8	583	513	14	Excursion verification
MO-109	MU1 Overlaying	7/8/2016	--	116	120	-3	7.8	21	-63	514	567	-9	
MO-109	MU1 Overlaying	7/22/2016	14	110	120	-8	7.1	21	-66	516	567	-9	
MO-109	MU1 Overlaying	8/4/2016	13	112	120	-7	7.1	21	-66	522	567	-8	
MO-109	MU1 Overlaying	8/19/2016	15	115	120	-4	7.6	21	-64	521	567	-8	
MO-109	MU1 Overlaying	9/3/2016	15	111	120	-7	7.5	21	-64	522	567	-8	
MO-109	MU1 Overlaying	9/27/2016	24	106	120	-11	7.9	21	-62	514	567	-9	
MO-110	MU1 Overlaying	7/8/2016	--	98	128	-23	5.9	23	-75	432	533	-19	
MO-110	MU1 Overlaying	7/22/2016	14	95	128	-26	5.3	23	-77	433	533	-19	
MO-110	MU1 Overlaying	8/4/2016	13	97	128	-24	5.8	23	-75	438	533	-18	
MO-110	MU1 Overlaying	8/19/2016	15	97	128	-24	5.5	23	-76	433	533	-19	
MO-110	MU1 Overlaying	9/3/2016	15	96	128	-25	5.5	23	-76	440	533	-17	
MO-110	MU1 Overlaying	9/27/2016	24	97	128	-25	6.1	23	-73	437	533	-18	
MO-111	MU1 Overlaying	7/8/2016	--	101	115	-12	6.0	20	-70	427	639	-33	
MO-111	MU1 Overlaying	7/22/2016	14	99	115	-14	6.1	20	-70	431	639	-33	
MO-111	MU1 Overlaying	8/5/2016	14	99	115	-14	6.0	20	-70	432	639	-32	
MO-111	MU1 Overlaying	8/19/2016	14	98	115	-15	6.1	20	-70	429	639	-33	
MO-111	MU1 Overlaying	9/3/2016	15	100	115	-13	5.4	20	-73	431	639	-33	
MO-111	MU1 Overlaying	9/27/2016	24	97	115	-15	5.9	20	-70	428	639	-33	
MO-112	MU1 Overlaying	7/8/2016	--	108	252	-57	6.0	22	-73	418	541	-23	
MO-112	MU1 Overlaying	7/22/2016	14	109	252	-57	6.1	22	-72	419	541	-23	
MO-112	MU1 Overlaying	8/5/2016	14	109	252	-57	6.0	22	-73	424	541	-22	
MO-112	MU1 Overlaying	8/19/2016	14	109	252	-57	6.0	22	-73	421	541	-22	
MO-112	MU1 Overlaying	9/3/2016	15	110	252	-56	6.1	22	-72	425	541	-21	
MO-112	MU1 Overlaying	9/27/2016	24	105	252	-59	5.8	22	-73	423	541	-22	
MO-113	MU1 Overlaying	7/8/2016	--	102	121	-16	5.6	21	-73	446	484	-8	
MO-113	MU1 Overlaying	7/22/2016	14	100	121	-17	6.0	21	-72	448	484	-7	
MO-113	MU1 Overlaying	8/5/2016	14	107	121	-12	4.9	21	-77	453	484	-6	
MO-113	MU1 Overlaying	8/19/2016	14	101	121	-17	5.1	21	-76	448	484	-7	
MO-113	MU1 Overlaying	9/3/2016	15	102	121	-15	5.2	21	-75	452	484	-7	
MO-113	MU1 Overlaying	9/27/2016	24	102	121	-16	5.6	21	-74	460	484	-5	
MU-101	MU1 Underlying	7/7/2016	--	117	157	-25	4.9	20	-76	547	653	-16	
MU-101	MU1 Underlying	7/21/2016	14	130	157	-17	5.5	20	-72	547	653	-16	
MU-101	MU1 Underlying	8/4/2016	14	114	157	-27	4.6	20	-77	532	653	-19	
MU-101	MU1 Underlying	8/18/2016	14	114	157	-27	4.6	20	-77	543	653	-17	
MU-101	MU1 Underlying	9/3/2016	16	111	157	-29	10.5	20	-47	542	653	-17	
MU-101	MU1 Underlying	9/26/2016	23	108	157	-31	5.8	20	-71	544	653	-17	
MU-102	MU1 Underlying	7/7/2016	--	105	119	-12	5.1	19	-73	431	507	-15	
MU-102	MU1 Underlying	7/21/2016	14	102	119	-14	5.5	19	-71	428	507	-16	
MU-102	MU1 Underlying	8/4/2016	14	102	119	-14	5.2	19	-73	422	507	-17	
MU-102	MU1 Underlying	8/18/2016	14	104	119	-13	5.2	19	-73	428	507	-16	
MU-102	MU1 Underlying	9/3/2016	16	100	119	-16	7.1	19	-63	417	507	-18	
MU-102	MU1 Underlying	9/26/2016	23	106	119	-11	6.0	19	-69	446	507	-12	
MU-103	MU1 Underlying	7/7/2016	--	103	213	-52	5.9	20	-71	424	560	-24	
MU-103	MU1 Underlying	7/21/2016	14	102	213	-52	4.8	20	-76	421	560	-25	
MU-103	MU1 Underlying	8/4/2016	14	100	213	-53	5.2	20	-74	416	560	-26	
MU-103	MU1 Underlying	8/18/2016	14	101	213	-53	4.7	20	-77	422	560	-25	
MU-103	MU1 Underlying	9/3/2016	16	120	213	-44	5.4	20	-73	413	560	-26	
MU-103	MU1 Underlying	9/26/2016	23	101	213	-53	6.8	20	-66	437	560	-22	
MU-104B	MU1 Underlying	7/7/2016	--	97	159	-39	5.2	21	-75	413	572	-28	
MU-104B	MU1 Underlying	7/21/2016	14	85	159	-47	4.6	21	-78	403	572	-30	

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**3rd Quarter 2016**  
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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	8/4/2016	14	88	159	-45	4.9	21	-77	402	572	-30	
MU-104B	MU1 Underlying	8/18/2016	14	96	159	-40	5.5	21	-74	428	572	-25	
MU-104B	MU1 Underlying	9/3/2016	16	96	159	-40	5.0	21	-76	424	572	-26	
MU-104B	MU1 Underlying	9/26/2016	23	96	159	-39	7.0	21	-67	445	572	-22	
MU-105	MU1 Underlying	7/7/2016	--	108	124	-13	4.6	19	-76	442	562	-21	
MU-105	MU1 Underlying	7/22/2016	15	106	124	-15	5.1	19	-73	442	562	-21	
MU-105	MU1 Underlying	8/4/2016	13	107	124	-14	4.7	19	-76	442	562	-21	
MU-105	MU1 Underlying	8/18/2016	14	108	124	-13	5.1	19	-73	443	562	-21	
MU-105	MU1 Underlying	9/3/2016	16	101	124	-19	5.3	19	-72	439	562	-22	
MU-105	MU1 Underlying	9/26/2016	23	104	124	-16	6.5	19	-66	456	562	-19	
MU-106	MU1 Underlying	7/8/2016	--	102	137	-26	5.6	20	-72	460	522	-12	
MU-106	MU1 Underlying	7/22/2016	14	101	137	-26	5.0	20	-75	459	522	-12	
MU-106	MU1 Underlying	8/4/2016	13	101	137	-26	6.0	20	-70	457	522	-12	
MU-106	MU1 Underlying	8/18/2016	14	102	137	-26	5.1	20	-75	462	522	-11	
MU-106	MU1 Underlying	9/3/2016	16	100	137	-27	5.2	20	-74	454	522	-13	
MU-106	MU1 Underlying	9/26/2016	23	102	137	-25	5.9	20	-71	462	522	-11	
MU-107	MU1 Underlying	7/8/2016	--	124	136	-9	5.7	20	-71	470	556	-15	
MU-107	MU1 Underlying	7/22/2016	14	101	136	-26	5.3	20	-74	468	556	-16	
MU-107	MU1 Underlying	8/4/2016	13	100	136	-26	5.4	20	-73	462	556	-17	
MU-107	MU1 Underlying	8/18/2016	14	101	136	-26	5.1	20	-74	464	556	-17	
MU-107	MU1 Underlying	9/3/2016	16	103	136	-24	4.8	20	-76	460	556	-17	
MU-107	MU1 Underlying	9/26/2016	23	100	136	-27	6.0	20	-70	474	556	-15	
KPW-2	MU1 Underlying	7/8/2016	--	105	136	-23	6.0	21	-72	494	615	-20	
KPW-2	MU1 Underlying	7/22/2016	14	104	136	-24	6.5	21	-69	494	615	-20	
KPW-2	MU1 Underlying	8/4/2016	13	131	136	-4	6.8	21	-68	514	615	-16	
KPW-2	MU1 Underlying	8/18/2016	14	128	136	-6	6.7	21	-68	496	615	-19	
KPW-2	MU1 Underlying	9/3/2016	16	105	136	-23	6.1	21	-71	484	615	-21	
KPW-2	MU1 Underlying	9/27/2016	24	105	136	-23	8.2	21	-61	500	615	-19	
MU-109	MU1 Underlying	7/8/2016	--	115	196	-41	9.3	23	-60	517	525	-2	
MU-109	MU1 Underlying	7/22/2016	14	113	196	-42	8.6	23	-62	505	525	-4	
MU-109	MU1 Underlying	8/4/2016	13	110	196	-44	8.7	23	-62	498	525	-5	
MU-109	MU1 Underlying	8/19/2016	15	113	196	-42	8.7	23	-62	508	525	-3	
MU-109	MU1 Underlying	9/3/2016	15	112	195	-43	10.4	23	-55	514	525	-2	
MU-109	MU1 Underlying	9/27/2016	24	119	196	-39	12.6	23	-45	532	525	1	
MU-110	MU1 Underlying	7/8/2016	--	95	144	-34	7.8	24	-67	466	596	-22	
MU-110	MU1 Underlying	7/22/2016	14	91	144	-37	6.5	24	-73	465	596	-22	
MU-110	MU1 Underlying	8/4/2016	13	93	144	-35	6.8	24	-72	457	596	-23	
MU-110	MU1 Underlying	8/19/2016	15	94	144	-35	6.1	24	-75	463	596	-22	
MU-110	MU1 Underlying	9/3/2016	15	91	144	-37	6.3	24	-74	453	596	-24	
MU-110	MU1 Underlying	9/27/2016	24	90	144	-38	9.1	24	-62	469	596	-21	
MU-111	MU1 Underlying	7/8/2016	--	98	188	-48	6.3	22	-71	507	652	-22	
MU-111	MU1 Underlying	7/22/2016	14	95	188	-49	5.6	22	-75	509	652	-22	
MU-111	MU1 Underlying	8/5/2016	14	97	188	-48	5.3	22	-76	504	652	-23	
MU-111	MU1 Underlying	8/19/2016	14	98	188	-48	5.5	22	-75	507	652	-22	
MU-111	MU1 Underlying	9/3/2016	15	97	188	-48	4.9	22	-78	499	652	-23	
MU-111	MU1 Underlying	9/27/2016	24	93	188	-51	6.5	22	-70	509	652	-22	
MU-112	MU1 Underlying	7/8/2016	--	98	224	-56	5.0	24	-79	444	483	-8	
MU-112	MU1 Underlying	7/22/2016	14	97	224	-57	5.4	24	-77	449	483	-7	
MU-112	MU1 Underlying	8/5/2016	14	98	224	-56	5.2	24	-78	449	483	-7	
MU-112	MU1 Underlying	8/19/2016	14	97	224	-57	5.9	24	-75	448	483	-7	
MU-112	MU1 Underlying	9/3/2016	15	98	224	-56	5.3	24	-78	440	483	-9	
MU-112	MU1 Underlying	9/27/2016	24	95	224	-58	5.9	24	-76	446	483	-8	
MU-113	MU1 Underlying	7/8/2016	--	94	140	-33	4.8	25	-81	478	590	-19	
MU-113	MU1 Underlying	7/22/2016	14	93	140	-34	5.0	25	-80	480	590	-19	
MU-113	MU1 Underlying	8/5/2016	14	94	140	-33	5.0	25	-80	482	590	-18	
MU-113	MU1 Underlying	8/19/2016	14	94	140	-33	4.9	25	-81	480	590	-19	
MU-113	MU1 Underlying	9/3/2016	15	93	140	-33	5.7	25	-77	478	590	-19	
MU-113	MU1 Underlying	9/27/2016	24	93	140	-34	5.5	25	-78	485	590	-18	
LC29M	Regional DE	6/29/2016	N/A	--	N/A	N/A	--	N/A	N/A	--	N/A	N/A	Insufficient water
MB-10	Regional DE	6/29/2016	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 - Quality Control Data**  
**3rd 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	7/6/2016	Duplicate	M-116A	108	105	3	5.6	5.4	4	501	496	1
M-129	7/19/2016	Duplicate	M-113	106	103	3	5.1	5.0	1	524	517	1
M-129	8/2/2016	Duplicate	M-114A	105	108	3	5.2	5.2	1	530	529	0
M-129	8/17/2016	Duplicate	M-120A	112	113	1	4.9	4.9	1	516	472	9
M-129	9/1/2016	Duplicate	M-117	102	106	4	4.9	5.3	7	494	490	1
M-129	9/21/2016	Duplicate	M-115A	106	95	11	5.7	5.2	9	497	487	2
M-130	7/6/2016	Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	37	N/A	N/A
M-130	7/19/2016	Blank	N/A	9	N/A	N/A	0.0	N/A	N/A	27	N/A	N/A
M-130	8/2/2016	Blank	N/A	5	N/A	N/A	0.0	N/A	N/A	15	N/A	N/A
M-130	8/17/2016	Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
M-130	9/1/2016	Blank	N/A	5	N/A	N/A	0.0	N/A	N/A	15	N/A	N/A
M-130	9/21/2016	Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
M-131	7/6/2016	Duplicate	M-117	108	109	1	4.8	4.1	16	492	484	2
M-131	7/19/2016	Duplicate	M-114A	106	109	3	5.1	5.9	14	528	524	1
M-131	8/2/2016	Duplicate	M-115A	108	102	6	4.9	5.3	7	489	497	2
M-131	8/17/2016	Duplicate	M-122	117	116	1	5.5	5.3	4	499	502	1
M-131	9/1/2016	Duplicate	M-120A	113	112	1	5.0	6.3	24	472	474	0
M-131	9/21/2016	Duplicate	M-116A	100	100	0	6.9	5.4	24	506	493	3
M-132	7/6/2016	Blank	N/A	1	N/A	N/A	0.6	N/A	N/A	2	N/A	N/A
M-132	7/19/2016	Blank	N/A	13	N/A	N/A	0.0	N/A	N/A	28	N/A	N/A
M-132	8/2/2016	Blank	N/A	3	N/A	N/A	0.0	N/A	N/A	7	N/A	N/A
M-132	8/17/2016	Blank	N/A	10	N/A	N/A	0.0	N/A	N/A	27	N/A	N/A
M-132	9/1/2016	Blank	N/A	4	N/A	N/A	0.0	N/A	N/A	8	N/A	N/A
M-132	9/21/2016	Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	28	N/A	N/A
MO-121	7/8/2016	Duplicate	MO-109	114	116	2	8.8	7.8	12	522	514	2
MO-121	7/22/2016	Duplicate	MO-109	112	110	2	8.4	7.1	17	519	516	1
MO-121	8/4/2016	Duplicate	MO-108	107	107	0	11.3	10.7	6	546	547	0
MO-121	8/18/2016	Duplicate	MO-108	117	111	5	11.6	11.4	2	557	556	0
MO-121	9/3/2016	Duplicate	MO-109	108	111	2	7.1	7.5	5	516	522	1
MO-121	9/26/2016	Duplicate	MU-103	103	101	2	6.9	6.8	1	433	437	1
MO-122	7/8/2016	Blank	N/A	14	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
MO-122	7/22/2016	Blank	N/A	6	N/A	N/A	0.0	N/A	N/A	17	N/A	N/A
MO-122	8/4/2016	Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	22	N/A	N/A
MO-122	8/18/2016	Blank	N/A	10	N/A	N/A	0.0	N/A	N/A	24	N/A	N/A
MO-122	9/3/2016	Blank	N/A	6	N/A	N/A	0.0	N/A	N/A	19	N/A	N/A
MO-122	9/26/2016	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	32	N/A	N/A
MU-123	7/8/2016	Duplicate	MU-111	98	98	0	6.0	6.3	4	512	507	1
MU-123	7/22/2016	Duplicate	MO-111	106	99	7	6.5	6.1	6	423	431	2
MU-123	8/4/2016	Duplicate	MO-109	115	112	3	8.8	7.1	22	522	522	0
MU-123	8/18/2016	Duplicate	KPW-2	105	128	20	5.7	6.7	16	503	496	1
MU-123	9/3/2016	Duplicate	MU-111	97	97	0	5.0	4.9	2	504	499	1
MU-123	9/26/2016	Duplicate	MO-104	113	117	4	9.7	7.8	21	602	602	0
MU-124	7/8/2016	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	31	N/A	N/A
MU-124	7/22/2016	Blank	N/A	15	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
MU-124	8/4/2016	Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	20	N/A	N/A
MU-124	8/18/2016	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	30	N/A	N/A
MU-124	9/3/2016	Blank	N/A	10	N/A	N/A	0.0	N/A	N/A	23	N/A	N/A
MU-124	9/26/2016	Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	39	N/A	N/A

RPD: Relative Percent Difference