

COLORADO OFFICE
10758 W. CENTENNIAL RD., STE. 200
LITTLETON, CO 80127
TEL: (866) 981-4588
FAX: (720) 981-5643



WYOMING OFFICE
5880 ENTERPRISE DR., STE. 200
CASPER, WY 82609
TEL: (307) 265-2373
FAX: (307) 265-2801

LOST CREEK ISR, LLC

October 27, 2017

Nancy Williams
Wyoming Department of Environmental Quality
Land Quality Division
510 Meadowview Drive
Lander, WY 82520

**Re: 3rd Quarter 2017 Report for the Lost Creek ISR Project
Permit #788 (BLM WYW-166318)**

Dear Ms. Williams,

This Quarterly Report for the 3rd calendar quarter of 2017 for the Lost Creek ISR Project has been submitted pursuant to Wyoming Department of Environmental Quality - Land Quality Division (LQD) Rules and Regulations Chapter 11 Section 15(b) to provide a summary of:

- *Mechanical Integrity Testing (Ch11 Sect 15(b)(ii)).*
- *Wellfield Monitoring and Water Quality (Ch11 Sect 14).*

Mechanical Integrity Testing

A total of 98 Mechanical Integrity Tests (MIT) were performed on a total of 98 wells in accordance with the approved Permit Operations Plan Section 3.4. Results are summarized on **Attachment 1**. The MITs resulted in 94 successful tests with 4 failures. Failed wells have been or will be abandoned in accordance with the Permit. Replacement wells were installed for the 4 failed wells. One well (2M1287) MIT passed but was abandoned due to incorrect casing depth and another well (2M1229) was damaged during swabbing operations following the MIT and was abandoned and replaced.

Wellfield Monitoring

Wellfield injection and production in Mine Unit 1 (MU1) continued throughout the quarter with thirteen (13) header houses in operation as of the end of the quarter. Wellfield injection and production in Mine Unit 2 (MU2) started August 30, 2017 with one header house (HH2-2) in operation as of the end of the quarter. Lixiviant was generated by the addition of carbon dioxide (CO₂), and oxygen (O₂) to the injection stream.

The injection rates and pressures for each header house manifold are provided on **Attachment 2**. Additionally, production flow (PC), injection flow (IC), bleed values, and number of wells injecting are also presented. The bleed rate percentage is calculated by dividing the bleed rate by the production rate and multiplying by 100. Main bleed is diverted in a metered line directly from the injection circuit line. Additional bleed is determined by accounting for the swab water generated from the wellfield and converting the volume to a flow rate equivalent. Bleed water is either recycled for Plant process use or is sent directly to the waste water stream.

Water Quality

An alternate monitoring plan for MU2 was approved by LQD prior to startup. The monitor ring was truncated temporarily into a “subring” since only the eastern portion of MU2 would be active. Two new “trend” wells screened in the HJ Horizon were installed to complete the subring and the other wells in the plan were already in place. The following wells are included in the monitoring scheme:

Ring Wells	Subring (Trend) Wells	Overlying Monitors	Underlying Monitors
M-201	M-HJ211	M-FG213	M-KM213
M-202	M-HJ226	M-FG214	M-KM214
M-229	M-HJ232	M-FG215	M-KM215
M-230	M-HJ233		
M-231A			

Although the subring wells do not have a UCL, they are well within the full MU2 ring and the water quality trends will be monitored to look for any migration of mining fluids. Any indication of lixiviant migrating to a trend well will be reported to LQD and NRC utilizing the excursion reporting protocol. Indication of mining solution at any of these four trend wells would not indicate an excursion since these wells are located within the permitted mine unit, but would indicate that lixiviant is migrating beyond the normal flare and that corrective action, and potentially additional monitoring as approved by the agencies, would be required.

The groundwater level data collected from MU1, MU2, and regional monitoring wells is included in **Attachment 3**. Water levels for MU1 and MU2 were measured semi-monthly in conjunction with routine excursion groundwater sampling for the ring (“M”), overlying (“MO”), and underlying monitor (“MU”) wells. Quarterly water levels were collected from regional (“LC” and “MB”) wells. The wells experienced typical fluctuation in water levels and no significant changes occurred for MO or MU wells. Fluctuations are typical for the M wells but more pronounced since they are more directly affected by water balance in the wellfield.

Water quality and quality control (QC) results from routine groundwater quality monitoring, as described in the Permit Operations Plan Section 3.6.4, for MU1 is included as **Attachment 4**. Excursion monitoring parameters include alkalinity, chloride, and specific conductance for which

associated Upper Control Limits (UCLs) have been established by well group (i.e. ring, overlying, and underlying wells). As described in the Permit Operations Plan Section 3.6.4, 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 respective UCL.

No analytical results exceeded the associated UCL during the quarter. Some of the samples were collected slightly within the 10-day minimum range in order to accommodate the sample schedule for MU2. No abnormal trends were apparent in the data for these wells and the sampling schedule should be normalized during the next quarter.

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

If you have any questions regarding this submittal please feel free to contact me at the Casper Office.

Sincerely,



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

Attachments: Attachment 1: Mechanical Integrity Testing
Attachment 2: Operational Flow Summary
Attachment 3: Groundwater Level Measurement Data
Attachment 4: MU1 Water Quality Data

Cc: Mr. Mark Newman, BLM Rawlins Field Office
Mr. John Saxton, NRC (via e-mail)
Ms. Theresa Horne, Ur-Energy, Littleton Office (via e-mail)

**Attachment 1: Mechanical Integrity Testing
3rd Quarter 2017
Lost Creek ISR Project PT788**

	Well ID	Well Type	MIT ⁽¹⁾ Date	P/F	P&A ⁽²⁾ Date	Comments
1	2M1001	I	8/21/2017	Pass		
2	2M1010	P	9/19/2017	Pass		
3	2M1012	P	8/21/2017	Pass		
4	2M1013A	P	8/25/2017	Pass		
5	2M1016	I	8/31/2017	Pass		
6	2M1017	I	8/30/2017	Pass		
7	2M1018	I	8/17/2017	Pass		
8	2M1019	P	8/30/2017	Pass		
9	2M1020	P	8/21/2017	Pass		
10	2M1024	I	9/18/2017	Pass		
11	2M1025	I	9/5/2017	Pass		
12	2M1026	I	8/25/2017	Pass		
13	2M1027A	I	8/30/2017	Pass		
14	2M1028	I	9/5/2017	Pass		
15	2M1029	P	8/23/2017	Pass		
16	2M1031	I	9/5/2017	Pass		
17	2M1032	P	8/23/2017	Pass		
18	2M1033	I	9/1/2017	Pass		
19	2M1034	I	8/31/2017	Pass		
20	2M1035	P	8/22/2017	Pass		
21	2M1036	I	8/24/2017	Pass		
22	2M1038	I	8/29/2017	Pass		
23	2M1040	I	8/29/2017	Pass		
24	2M1041	P	8/19/2017	Pass		
25	2M1043	I	8/28/2017	Pass		
26	2M1045	I	9/19/2017	Pass		
27	2M1046	P	8/19/2017	Pass		
28	2M1048	P	8/28/2017	Pass		
29	2M1049	P	9/13/2017	Fail		
30	2M1049	P	9/22/2017	Pass		Retest
31	2M1052	I	8/17/2017	Pass		
32	2M1054	P	8/23/2017	Pass		
33	2M1055	I	9/18/2017	Pass		
34	2M1056	I	9/15/2017	Fail	TBA	
35	2M1057	I	9/11/2017	Fail		
36	2M1057	I	9/13/2017	Pass		Retest
37	2M1058	P	8/22/2017	Pass		
38	2M1060	I	9/1/2017	Pass		
39	2M1061	I	8/19/2017	Pass		
40	2M1062	I	8/28/2017	Pass		
41	2M1065A	I	8/28/2017	Pass		
42	2M1066	I	8/29/2017	Pass		
43	2M1067	I	8/22/2017	Pass		
44	2M1068	I	9/5/2017	Pass		
45	2M1071	I	8/31/2017	Pass		
46	2M1072	P	8/22/2017	Pass		
47	2M1074	P	9/19/2017	Pass		
48	2M1085	P	9/22/2017	Pass		
49	2M1086	I	9/15/2017	Pass		
50	2M1091	I	9/15/2017	Pass		

**Attachment 1: Mechanical Integrity Testing
3rd Quarter 2017
Lost Creek ISR Project PT788**

	Well ID	Well Type	MIT ⁽¹⁾ Date	P/F	P&A ⁽²⁾ Date	Comments
51	2M1094	P	8/29/2017	Pass		
52	2M1095	P	8/21/2017	Pass		
53	2M1098	P	9/15/2017	Pass		
54	2M1099	I	9/5/2017	Pass		
55	2M1101	P	8/24/2017	Fail		
56	2M1101	P	8/25/2017	Pass		Retest
57	2M1105	P	9/1/2017	Pass		
58	2M1116	P	8/8/2017	Pass		
59	2M1123	P	9/1/2017	Pass		
60	2M1130	I	8/17/2017	Pass		
61	2M1131	I	7/17/2017	Pass		
62	2M1132	I	8/18/2017	Pass		
63	2M1133	I	7/18/2017	Pass		
64	2M1135A	I	7/19/2017	Pass		
65	2M1136A	I	7/17/2017	Pass		
66	2M1137A	P	7/25/2017	Pass		
67	2M1138	I	7/7/2017	Pass		
68	2M1139	P	7/18/2017	Pass		
69	2M1141	I	7/20/2017	Pass		
70	2M1142	I	9/7/2017	Fail		
71	2M1142	I	9/8/2017	Fail		Retest
72	2M1142	I	9/13/2017	Pass		Retest after swab
73	2M1143	P	8/4/2017	Pass		
74	2M1145	P	7/12/2017	Fail		
75	2M1145	P	7/26/2017	Pass		Retest
76	2M1160	I	7/7/2017	Pass		
77	2M1164	P	7/21/2017	Fail		
78	2M1164	P	8/12/2017	Pass		
79	2M1165	P	7/19/2017	Pass		
80	2M1166	I	7/20/2017	Pass		
81	2M1174	I	7/19/2017	Fail		
82	2M1174	I	7/28/2017	Pass		
83	2M1175	I	7/21/2017	Pass		
84	2M1187	I	8/7/2017	Pass		
85	2M1188	I	7/13/2017	Pass		
86	2M1189	I	7/20/2017	Fail		
87	2M1189	I	7/31/2017	Pass		
88	2M1190	I	7/15/2017	Pass		
89	2M1191	P	7/13/2017	Pass		
90	2M1192	I	7/14/2017	Pass		
91	2M1193	I	7/21/2017	Pass		
92	2M1194	P	7/14/2017	Pass		
93	2M1197	P	8/7/2017	Pass		
94	2M1212	P	7/25/2017	Fail		
95	2M1212	P	8/1/2017	Pass		
96	2M1213	I	7/15/2017	Pass		
97	2M1214	I	7/15/2017	Pass		
98	2M1215	P	7/15/2017	Pass		
99	2M1216	I	7/15/2017	Pass		
100	2M1217	P	8/8/2017	Pass		

**Attachment 1: Mechanical Integrity Testing
3rd Quarter 2017
Lost Creek ISR Project PT788**

	Well ID	Well Type	MIT ⁽¹⁾ Date	P/F	P&A ⁽²⁾ Date	Comments
101	2M1225	I	7/12/2017	Fail		
102	2M1225	I	8/11/2017	Pass		
103	2M1226	I	7/10/2017	Pass		
104	2M1227	P	7/18/2017	Pass		
105	2M1235	I	8/8/2017	Pass		
106	2M1236	I	7/17/2017	Fail		
107	2M1236	I	7/26/2017	Pass		
108	2M1253	I	7/6/2017	Pass		
109	2M1256A	P	8/31/2017	Pass		
110	2M1262	P	7/12/2017	Fail		
111	2M1262	P	8/24/2017	Fail	TBA	
112	2M1262A	P	9/6/2017	Pass		
113	2M1267	P	7/18/2017	Pass		
114	2M1270	I	7/17/2017	Fail	TBA	
115	2M1270A	I	8/31/2017	Pass		
116	2M1271	I	9/6/2017	Fail		
117	2M1271	I	9/6/2017	Fail		
118	2M1271	I	9/7/2017	Fail		
119	2M1271	I	9/14/2017	Fail	TBA	
120	2M1273	I	8/23/2017	Pass		
121	2M1280	P	7/11/2017	Pass		
122	2M1283	I	7/13/2017	Pass		
123	2M1284	P	7/14/2017	Pass		
124	2M1290	I	9/22/2017	Pass		
125	2M1302	P	8/19/2017	Pass		
126	2M1307	I	9/20/2017	Pass		
127	2M1308	I	8/10/2017	Pass		
128	2M1309	P	7/18/2017	Pass		
129	2M1310	P	8/10/2017	Pass		
130	2M1319	I	9/19/2017	Pass		
131	2M1330	P	8/8/2017	Pass		
132	2M1338	I	8/30/2017	Pass		
133	2M1339	I	9/5/2017	Pass		
134	2M1340	I	9/18/2017	Pass		
135	2M1342	P	9/5/2017	Pass		
136	2M1343	I	9/18/2017	Pass		
137	2M1344	I	9/18/2017	Pass		
138	2M1348	P	9/18/2017	Pass		
139	2M1351	P	9/20/2017	Pass		
140	2M1352	I	9/1/2017	Pass		
141	M-HJ230	P	9/18/2017	Pass		Converted to production well
142	M-HJ232	M	8/16/2017	Pass		
143	M-HJ233	M	8/17/2017	Pass		

143 Total Tests
123 Pass
20 Fail
127 Wells Tested
16 Net Failed Wells

(1) MIT method for "Monitoring Wells" as described in WDEQ Permit #788 Operations Plan Section 3.4. Test performed by using packer(s) to isolate casing and then pressurize well.

(2) Plugging and abandonment (P&A) according to WDEQ Permit #788 Reclamation Plan Section 3.1

I: Class III Injection Well

P: Production Well

TBA: To be abandoned

**Attachment 2: Plant Operational Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Alternate Bleed* (equiv. gpm)	Total Bleed Rate (%)	Comments
7/1/2017	2237	2222	14.2	0.0	0.63%	
7/2/2017	2231	2216	14.2	0.0	0.63%	
7/3/2017	2230	2213	14.2	0.0	0.63%	
7/4/2017	2205	2198	14.1	0.0	0.64%	
7/5/2017	2200	2186	14.1	0.0	0.64%	
7/6/2017	2180	2167	12.4	2.6	0.69%	
7/7/2017	2210	2197	13.2	1.4	0.66%	
7/8/2017	2217	2201	14.0	0.0	0.63%	
7/9/2017	2213	2198	14.2	0.0	0.64%	
7/10/2017	2208	2191	14.2	0.0	0.64%	
7/11/2017	2231	2218	12.4	2.6	0.67%	
7/12/2017	2237	2222	14.2	0.0	0.63%	
7/13/2017	2234	2222	12.6	2.7	0.68%	
7/14/2017	2246	2234	11.5	4.4	0.71%	
7/15/2017	2234	2219	14.2	0.0	0.64%	
7/16/2017	2225	2210	14.2	0.0	0.64%	
7/17/2017	2222	2209	12.9	2.1	0.68%	
7/18/2017	2238	2225	12.5	2.5	0.67%	
7/19/2017	2240	2226	14.2	0.0	0.63%	
7/20/2017	1664	1694	10.6	0.0	0.63%	
7/21/2017	2228	2212	14.3	0.0	0.64%	
7/22/2017	2184	2168	14.1	0.0	0.64%	
7/23/2017	2163	2148	13.9	0.0	0.64%	
7/24/2017	2164	2149	13.8	0.0	0.64%	
7/25/2017	2163	2149	13.8	0.0	0.64%	
7/26/2017	2171	2156	13.8	0.0	0.64%	
7/27/2017	2169	2155	13.8	0.0	0.64%	
7/28/2017	2126	2112	13.7	0.0	0.64%	
7/29/2017	2111	2099	11.1	4.2	0.73%	
7/30/2017	2115	2100	12.9	0.0	0.61%	
7/31/2017	2110	2097	13.8	0.0	0.65%	
8/1/2017	2153	2140	12.3	2.3	0.68%	
8/2/2017	2161	2147	11.6	3.2	0.69%	
8/3/2017	2173	2158	12.7	2.1	0.68%	
8/4/2017	2198	2185	11.0	4.5	0.71%	
8/5/2017	2200	2185	13.8	0.0	0.63%	
8/6/2017	2195	2179	14.0	0.0	0.64%	
8/7/2017	2192	2176	14.0	0.0	0.64%	
8/8/2017	2182	2167	11.3	4.2	0.71%	
8/9/2017	2186	2172	12.0	3.1	0.69%	
8/10/2017	2170	2154	13.7	0.0	0.63%	
8/11/2017	2117	2101	13.7	0.0	0.65%	
8/12/2017	2144	2128	13.6	0.0	0.64%	
8/13/2017	2140	2124	13.7	0.0	0.64%	
8/14/2017	2107	2091	13.5	0.0	0.64%	
8/15/2017	2120	2106	11.5	3.1	0.69%	
8/16/2017	1953	1942	12.5	1.0	0.69%	
8/17/2017	2108	2091	12.4	2.1	0.69%	
8/18/2017	1818	1892	11.0	2.1	0.72%	
8/19/2017	1914	1929	12.4	0.0	0.65%	
8/20/2017	1979	1964	12.7	0.0	0.64%	

**Attachment 2: Plant Operational Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Production Flow Rate (avg gpm)	Injection Flow Rate (avg gpm)	Main Bleed Flow Rate (avg gpm)	Alternate Bleed* (equiv. gpm)	Total Bleed Rate (%)	Comments
8/21/2017	1951	1937	12.6	0.0	0.65%	
8/22/2017	1955	1944	10.8	3.1	0.71%	
8/23/2017	1961	1949	10.5	3.3	0.71%	
8/24/2017	2012	1998	11.7	2.1	0.68%	
8/25/2017	2027	2015	11.5	2.4	0.69%	
8/26/2017	2031	2017	13.0	0.0	0.64%	
8/27/2017	2016	2003	12.9	0.0	0.64%	
8/28/2017	2011	1998	12.9	0.0	0.64%	
8/29/2017	2044	2031	11.7	2.3	0.69%	
8/30/2017	2291	2276	12.4	3.1	0.68%	
8/31/2017	2450	2433	15.3	0.0	0.63%	
9/1/2017	2465	2449	15.4	0.0	0.63%	
9/2/2017	2459	2442	15.4	0.0	0.63%	
9/3/2017	2454	2436	15.5	0.0	0.63%	
9/4/2017	2496	2483	15.7	0.0	0.63%	
9/5/2017	2393	2374	14.1	1.4	0.65%	
9/6/2017	584	649	3.6	0.0	0.62%	
9/7/2017	762	821	4.3	0.0	0.56%	
9/8/2017	857	853	4.7	0.0	0.55%	
9/9/2017	1847	1833	10.1	0.0	0.55%	
9/10/2017	1845	1831	10.1	0.0	0.55%	
9/11/2017	1923	1912	10.7	0.0	0.56%	
9/12/2017	2042	2031	11.6	0.0	0.57%	
9/13/2017	2369	2359	10.9	3.5	0.61%	
9/14/2017	2497	2484	14.3	1.3	0.63%	
9/15/2017	2153	2163	14.2	0.0	0.66%	
9/16/2017	2456	2445	15.4	0.0	0.63%	
9/17/2017	2468	2456	15.5	0.0	0.63%	
9/18/2017	2552	2543	12.2	5.8	0.70%	
9/19/2017	2546	2537	15.9	0.0	0.62%	
9/20/2017	2539	2525	15.2	1.3	0.65%	
9/21/2017	2545	2530	12.5	3.7	0.63%	
9/22/2017	2553	2544	12.5	2.6	0.59%	
9/23/2017	2562	2552	14.7	0.0	0.58%	
9/24/2017	2558	2551	14.2	0.0	0.55%	
9/25/2017	2563	2556	14.2	0.0	0.55%	
9/26/2017	2558	2549	14.1	0.0	0.55%	
9/27/2017	2564	2555	14.2	2.1	0.63%	
9/28/2017	2556	2550	11.6	3.8	0.60%	
9/29/2017	2561	2556	12.1	3.1	0.59%	
9/30/2017	2564	2556	14.1	0.0	0.55%	

NOTE: Flow rates are normalized to a 24 hr period.

gpm: gallons per minute

*Wellfield swab water discharge to ponds - volume converted to equivalent flow rate

**Attachment 2: HH1-1 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	24	123	14	
7/2/2017	24	123	14	
7/3/2017	24	123	14	
7/4/2017	24	123	14	
7/5/2017	24	125	13	
7/6/2017	24	125	13	
7/7/2017	24	125	14	
7/8/2017	24	125	14	
7/9/2017	24	124	14	
7/10/2017	24	124	14	
7/11/2017	24	124	14	
7/12/2017	24	124	13	
7/13/2017	24	125	13	
7/14/2017	24	125	13	
7/15/2017	25	125	13	
7/16/2017	25	125	13	
7/17/2017	25	125	14	
7/18/2017	25	125	13	
7/19/2017	25	125	13	
7/20/2017	25	125	13	
7/21/2017	25	125	14	
7/22/2017	26	125	14	
7/23/2017	26	125	14	
7/24/2017	25	125	14	
7/25/2017	25	125	14	
7/26/2017	25	125	14	
7/27/2017	25	125	14	
7/28/2017	26	125	13	
7/29/2017	26	125	13	
7/30/2017	26	125	13	
7/31/2017	27	125	13	
8/1/2017	25	125	14	
8/2/2017	27	125	14	
8/3/2017	27	125	14	
8/4/2017	25	125	14	
8/5/2017	25	125	14	
8/6/2017	25	125	14	
8/7/2017	25	125	18	
8/8/2017	25	125	18	
8/9/2017	25	125	18	
8/10/2017	24	125	18	
8/11/2017	23	125	18	
8/12/2017	23	125	18	
8/13/2017	23	125	18	
8/14/2017	23	125	18	
8/15/2017	23	125	18	
8/16/2017	31	126	19	
8/17/2017	31	126	19	
8/18/2017	31	126	19	
8/19/2017	31	126	19	

**Attachment 2: HH1-1 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	33	125	19	
8/21/2017	33	125	19	
8/22/2017	33	125	19	
8/23/2017	33	125	19	
8/24/2017	33	125	19	
8/25/2017	33	125	19	
8/26/2017	26	125	19	
8/27/2017	26	125	19	
8/28/2017	27	125	19	
8/29/2017	27	125	19	
8/30/2017	25	125	18	
8/31/2017	27	125	18	
9/1/2017	27	125	18	
9/2/2017	27	125	18	
9/3/2017	27	125	18	
9/4/2017	27	124	18	
9/5/2017	35	124	18	
9/6/2017	0	0	0	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	0	0	0	
9/10/2017	0	0	0	
9/11/2017	0	0	0	
9/12/2017	0	0	0	
9/13/2017	0	0	0	
9/14/2017	0	0	0	
9/15/2017	0	0	0	
9/16/2017	0	0	0	
9/17/2017	0	0	0	
9/18/2017	0	0	0	
9/19/2017	0	0	0	
9/20/2017	0	0	0	
9/21/2017	0	0	0	
9/22/2017	0	0	0	
9/23/2017	0	0	0	
9/24/2017	0	0	0	
9/25/2017	0	0	0	
9/26/2017	0	0	0	
9/27/2017	0	0	0	
9/28/2017	0	0	0	
9/29/2017	0	0	0	
9/30/2017	0	0	0	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated fracture pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-2 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	52	123	25	
7/2/2017	52	123	26	
7/3/2017	51	123	25	
7/4/2017	52	123	25	
7/5/2017	51	123	24	
7/6/2017	51	123	23	
7/7/2017	55	123	23	
7/8/2017	55	123	31	
7/9/2017	55	123	30	
7/10/2017	55	123	30	
7/11/2017	54	123	29	
7/12/2017	60	120	30	
7/13/2017	60	120	30	
7/14/2017	61	123	29	
7/15/2017	61	123	29	
7/16/2017	61	123	29	
7/17/2017	60	124	29	
7/18/2017	61	124	29	
7/19/2017	61	124	29	
7/20/2017	60	124	29	
7/21/2017	63	128	28	
7/22/2017	61	121	30	
7/23/2017	63	123	31	
7/24/2017	62	123	31	
7/25/2017	62	123	31	
7/26/2017	62	123	31	
7/27/2017	63	125	31	
7/28/2017	63	124	29	
7/29/2017	62	124	28	
7/30/2017	62	124	21	
7/31/2017	63	123	28	
8/1/2017	62	124	28	
8/2/2017	62	124	29	
8/3/2017	62	124	29	
8/4/2017	62	124	29	
8/5/2017	62	123	30	
8/6/2017	61	123	30	
8/7/2017	61	123	31	
8/8/2017	61	123	29	
8/9/2017	60	123	29	
8/10/2017	64	121	29	
8/11/2017	63	122	29	
8/12/2017	64	126	30	
8/13/2017	64	126	31	
8/14/2017	64	126	30	
8/15/2017	63	127	30	
8/16/2017	64	126	30	
8/17/2017	63	122	28	
8/18/2017	65	126	30	
8/19/2017	52	96	13	

**Attachment 2: HH1-2 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	61	128	32	
8/21/2017	60	128	33	
8/22/2017	60	128	32	
8/23/2017	59	128	33	
8/24/2017	59	128	33	
8/25/2017	59	128	27	
8/26/2017	59	128	27	
8/27/2017	60	127	27	
8/28/2017	59	128	27	
8/29/2017	59	128	26	
8/30/2017	59	128	27	
8/31/2017	59	122	28	
9/1/2017	61	125	29	
9/2/2017	62	124	28	
9/3/2017	62	124	28	
9/4/2017	62	124	26	
9/5/2017	61	124	28	
9/6/2017	61	124	29	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	0	0	0	
9/10/2017	0	0	0	
9/11/2017	0	0	0	
9/12/2017	0	0	0	
9/13/2017	0	0	0	
9/14/2017	63	126	26	
9/15/2017	60	122	28	
9/16/2017	60	123	30	
9/17/2017	62	123	33	
9/18/2017	62	124	32	
9/19/2017	62	124	29	
9/20/2017	62	124	29	
9/21/2017	61	122	28	
9/22/2017	62	126	28	
9/23/2017	62	126	28	
9/24/2017	61	124	28	
9/25/2017	61	124	27	
9/26/2017	61	124	28	
9/27/2017	61	124	27	
9/28/2017	61	124	27	
9/29/2017	61	124	26	
9/30/2017	60	124	28	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-3 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	98	122	99	
7/2/2017	98	122	100	
7/3/2017	99	122	99	
7/4/2017	99	122	99	
7/5/2017	98	122	96	
7/6/2017	98	122	95	
7/7/2017	98	122	95	
7/8/2017	98	122	96	
7/9/2017	98	122	96	
7/10/2017	98	122	95	
7/11/2017	98	122	95	
7/12/2017	98	122	94	
7/13/2017	98	123	94	
7/14/2017	98	123	93	
7/15/2017	98	123	93	
7/16/2017	100	122	93	
7/17/2017	99	122	93	
7/18/2017	99	122	94	
7/19/2017	99	122	93	
7/20/2017	99	122	93	
7/21/2017	98	122	92	
7/22/2017	100	123	96	
7/23/2017	100	123	96	
7/24/2017	98	123	94	
7/25/2017	99	123	95	
7/26/2017	100	124	96	
7/27/2017	100	124	95	
7/28/2017	100	124	109	
7/29/2017	99	124	107	
7/30/2017	99	122	109	
7/31/2017	99	122	108	
8/1/2017	99	123	108	
8/2/2017	103	122	109	
8/3/2017	103	122	110	
8/4/2017	103	122	110	
8/5/2017	103	121	111	
8/6/2017	104	123	112	
8/7/2017	104	123	112	
8/8/2017	104	123	109	
8/9/2017	103	123	109	
8/10/2017	110	123	110	
8/11/2017	112	123	111	
8/12/2017	110	123	110	
8/13/2017	109	123	112	
8/14/2017	109	123	111	
8/15/2017	108	123	111	
8/16/2017	108	123	112	
8/17/2017	109	123	108	
8/18/2017	109	123	112	
8/19/2017	104	119	86	

**Attachment 2: HH1-3 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	110	122	116	
8/21/2017	108	123	118	
8/22/2017	108	123	115	
8/23/2017	108	123	117	
8/24/2017	108	123	117	
8/25/2017	107	123	108	
8/26/2017	108	122	104	
8/27/2017	108	123	105	
8/28/2017	106	123	107	
8/29/2017	103	124	106	
8/30/2017	103	123	108	
8/31/2017	103	121	111	
9/1/2017	105	121	111	
9/2/2017	104	122	109	
9/3/2017	104	122	109	
9/4/2017	104	122	112	
9/5/2017	104	122	114	
9/6/2017	106	122	118	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	0	0	0	
9/10/2017	0	0	0	
9/11/2017	0	0	0	
9/12/2017	0	0	0	
9/13/2017	0	0	0	
9/14/2017	97	123	117	
9/15/2017	95	123	114	
9/16/2017	111	123	118	
9/17/2017	108	123	123	
9/18/2017	108	124	121	
9/19/2017	113	124	120	
9/20/2017	112	124	118	
9/21/2017	112	124	119	
9/22/2017	111	124	120	
9/23/2017	118	122	121	
9/24/2017	120	123	121	
9/25/2017	119	123	121	
9/26/2017	118	123	122	
9/27/2017	117	123	120	
9/28/2017	117	123	121	
9/29/2017	117	123	120	
9/30/2017	116	123	120	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-4 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	148	123	149	
7/2/2017	148	123	153	
7/3/2017	147	123	146	
7/4/2017	148	123	152	
7/5/2017	146	124	144	
7/6/2017	146	123	142	
7/7/2017	146	123	144	
7/8/2017	146	123	129	
7/9/2017	146	123	145	
7/10/2017	144	123	143	
7/11/2017	145	124	143	
7/12/2017	142	125	142	
7/13/2017	142	125	142	
7/14/2017	139	123	140	
7/15/2017	139	123	141	
7/16/2017	145	124	141	
7/17/2017	144	124	143	
7/18/2017	144	124	142	
7/19/2017	144	124	142	
7/20/2017	143	124	141	
7/21/2017	138	125	141	
7/22/2017	137	123	145	
7/23/2017	136	124	146	
7/24/2017	136	123	143	
7/25/2017	136	123	144	
7/26/2017	135	123	144	
7/27/2017	135	123	144	
7/28/2017	135	122	140	
7/29/2017	132	122	138	
7/30/2017	132	122	140	
7/31/2017	133	123	140	
8/1/2017	131	124	139	
8/2/2017	141	122	141	
8/3/2017	142	122	142	
8/4/2017	141	122	142	
8/5/2017	142	123	145	
8/6/2017	142	123	145	
8/7/2017	142	123	146	
8/8/2017	140	124	143	
8/9/2017	138	124	142	
8/10/2017	153	126	145	
8/11/2017	152	126	147	
8/12/2017	151	126	146	
8/13/2017	151	126	136	
8/14/2017	148	126	134	
8/15/2017	146	126	134	
8/16/2017	147	125	135	
8/17/2017	125	88	131	
8/18/2017	158	124	138	
8/19/2017	74	45	90	

**Attachment 2: HH1-4 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	98	80	124	
8/21/2017	154	130	129	
8/22/2017	156	129	125	
8/23/2017	151	130	125	
8/24/2017	151	130	126	
8/25/2017	150	130	117	
8/26/2017	150	129	118	
8/27/2017	150	130	119	
8/28/2017	149	129	117	
8/29/2017	149	130	116	
8/30/2017	150	129	118	
8/31/2017	146	122	120	
9/1/2017	147	123	120	
9/2/2017	146	123	117	
9/3/2017	145	125	116	
9/4/2017	142	125	117	
9/5/2017	142	125	119	
9/6/2017	153	122	122	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	0	0	0	
9/10/2017	0	0	0	
9/11/2017	0	0	0	
9/12/2017	0	0	0	
9/13/2017	145	125	119	
9/14/2017	143	125	121	
9/15/2017	146	125	117	
9/16/2017	142	123	116	
9/17/2017	139	124	97	
9/18/2017	138	124	119	
9/19/2017	134	124	95	
9/20/2017	134	123	114	
9/21/2017	133	124	113	
9/22/2017	133	124	113	
9/23/2017	133	124	114	
9/24/2017	133	124	113	
9/25/2017	132	124	113	
9/26/2017	132	124	115	
9/27/2017	131	124	113	
9/28/2017	132	124	113	
9/29/2017	131	124	113	
9/30/2017	131	124	113	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-5 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	96	124	119	
7/2/2017	96	124	119	
7/3/2017	96	124	118	
7/4/2017	96	125	118	
7/5/2017	94	125	114	
7/6/2017	94	125	114	
7/7/2017	94	125	115	
7/8/2017	88	125	115	
7/9/2017	94	123	115	
7/10/2017	93	123	114	
7/11/2017	94	123	113	
7/12/2017	96	126	113	
7/13/2017	96	126	113	
7/14/2017	95	126	112	
7/15/2017	95	126	112	
7/16/2017	95	126	112	
7/17/2017	94	125	112	
7/18/2017	94	124	112	
7/19/2017	94	124	112	
7/20/2017	101	121	112	
7/21/2017	100	121	112	
7/22/2017	102	120	116	
7/23/2017	105	123	116	
7/24/2017	102	124	96	
7/25/2017	101	124	97	
7/26/2017	102	125	96	
7/27/2017	103	125	96	
7/28/2017	104	125	93	
7/29/2017	103	125	92	
7/30/2017	102	125	93	
7/31/2017	102	125	93	
8/1/2017	102	126	93	
8/2/2017	100	123	93	
8/3/2017	100	122	93	
8/4/2017	100	122	94	
8/5/2017	101	124	95	
8/6/2017	100	123	94	
8/7/2017	100	124	95	
8/8/2017	99	124	93	
8/9/2017	98	125	93	
8/10/2017	100	124	93	
8/11/2017	99	124	94	
8/12/2017	99	126	81	
8/13/2017	100	126	82	
8/14/2017	99	126	81	
8/15/2017	92	128	81	
8/16/2017	99	125	81	
8/17/2017	98	122	91	
8/18/2017	88	121	93	
8/19/2017	71	132	73	

**Attachment 2: HH1-5 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	90	126	96	
8/21/2017	82	129	97	
8/22/2017	82	129	95	
8/23/2017	82	129	96	
8/24/2017	82	129	96	
8/25/2017	81	129	88	
8/26/2017	82	128	88	
8/27/2017	82	128	88	
8/28/2017	82	129	88	
8/29/2017	81	129	87	
8/30/2017	81	129	88	
8/31/2017	80	123	90	
9/1/2017	80	123	91	
9/2/2017	79	125	89	
9/3/2017	78	125	89	
9/4/2017	79	126	89	
9/5/2017	79	125	90	
9/6/2017	79	125	92	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	0	0	0	
9/10/2017	0	0	0	
9/11/2017	0	0	0	
9/12/2017	0	0	0	
9/13/2017	92	125	91	
9/14/2017	89	125	95	
9/15/2017	89	124	92	
9/16/2017	0	0	0	
9/17/2017	0	0	0	
9/18/2017	0	0	0	
9/19/2017	82	123	93	
9/20/2017	82	123	92	
9/21/2017	79	123	92	
9/22/2017	79	124	92	
9/23/2017	79	124	93	
9/24/2017	86	125	93	
9/25/2017	85	126	93	
9/26/2017	85	126	94	
9/27/2017	83	124	93	
9/28/2017	82	124	94	
9/29/2017	82	124	93	
9/30/2017	82	124	93	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-6 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	123	129	182	
7/2/2017	120	129	183	
7/3/2017	120	129	192	
7/4/2017	120	129	180	
7/5/2017	116	129	186	
7/6/2017	114	130	183	
7/7/2017	115	130	184	
7/8/2017	113	130	179	
7/9/2017	114	130	173	
7/10/2017	112	129	181	
7/11/2017	120	130	189	
7/12/2017	120	130	199	
7/13/2017	119	130	189	
7/14/2017	118	130	197	
7/15/2017	118	130	197	
7/16/2017	120	129	196	
7/17/2017	120	129	188	
7/18/2017	119	129	198	
7/19/2017	119	129	198	
7/20/2017	115	129	196	
7/21/2017	127	128	199	
7/22/2017	124	129	194	
7/23/2017	119	129	195	
7/24/2017	116	129	177	
7/25/2017	116	129	178	
7/26/2017	116	129	178	
7/27/2017	116	129	207	
7/28/2017	116	129	200	
7/29/2017	114	129	185	
7/30/2017	112	127	191	
7/31/2017	112	129	189	
8/1/2017	110	129	189	
8/2/2017	112	128	191	
8/3/2017	111	128	191	
8/4/2017	111	128	199	
8/5/2017	111	129	198	
8/6/2017	111	129	198	
8/7/2017	111	129	198	
8/8/2017	109	130	192	
8/9/2017	107	130	191	
8/10/2017	105	131	187	
8/11/2017	104	131	180	
8/12/2017	108	130	180	
8/13/2017	109	130	183	
8/14/2017	108	130	180	
8/15/2017	107	130	180	
8/16/2017	107	130	192	
8/17/2017	104	116	178	
8/18/2017	109	130	182	
8/19/2017	0	0	0	

**Attachment 2: HH1-6 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	0	0	0	
8/21/2017	0	0	0	
8/22/2017	0	0	0	
8/23/2017	0	15	0	
8/24/2017	0	13	0	
8/25/2017	89	129	182	
8/26/2017	97	127	173	
8/27/2017	96	127	172	
8/28/2017	93	128	182	
8/29/2017	92	128	184	
8/30/2017	90	128	181	
8/31/2017	92	127	176	
9/1/2017	93	130	156	
9/2/2017	92	129	153	
9/3/2017	91	128	152	
9/4/2017	96	127	152	
9/5/2017	96	127	166	
9/6/2017	102	126	171	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	0	0	0	
9/10/2017	0	0	0	
9/11/2017	0	0	0	
9/12/2017	0	0	0	
9/13/2017	0	0	0	
9/14/2017	0	0	0	
9/15/2017	114	129	165	
9/16/2017	111	129	156	
9/17/2017	108	129	161	
9/18/2017	107	129	165	
9/19/2017	105	129	157	
9/20/2017	104	129	154	
9/21/2017	104	129	155	
9/22/2017	104	130	156	
9/23/2017	103	129	157	
9/24/2017	103	129	156	
9/25/2017	103	129	157	
9/26/2017	102	129	159	
9/27/2017	101	129	158	
9/28/2017	102	129	159	
9/29/2017	106	128	159	
9/30/2017	105	129	140	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-7 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	162	130	159	
7/2/2017	162	131	160	
7/3/2017	162	131	159	
7/4/2017	163	131	158	
7/5/2017	160	131	153	
7/6/2017	160	131	152	
7/7/2017	170	130	171	
7/8/2017	178	130	174	
7/9/2017	178	130	173	
7/10/2017	176	130	171	
7/11/2017	175	130	170	
7/12/2017	175	130	170	
7/13/2017	175	130	170	
7/14/2017	174	130	168	
7/15/2017	172	130	169	
7/16/2017	171	130	166	
7/17/2017	170	130	168	
7/18/2017	170	131	169	
7/19/2017	170	130	168	
7/20/2017	168	130	167	
7/21/2017	175	128	168	
7/22/2017	165	130	172	
7/23/2017	166	130	175	
7/24/2017	162	131	172	
7/25/2017	163	131	172	
7/26/2017	164	131	172	
7/27/2017	163	131	155	
7/28/2017	164	131	171	
7/29/2017	161	131	168	
7/30/2017	160	131	173	
7/31/2017	162	131	171	
8/1/2017	175	131	173	
8/2/2017	176	130	173	
8/3/2017	176	130	175	
8/4/2017	174	130	175	
8/5/2017	172	130	165	
8/6/2017	171	130	164	
8/7/2017	171	130	164	
8/8/2017	170	130	174	
8/9/2017	177	130	174	
8/10/2017	175	130	173	
8/11/2017	173	130	175	
8/12/2017	172	131	174	
8/13/2017	172	131	176	
8/14/2017	169	131	173	
8/15/2017	168	131	173	
8/16/2017	169	131	175	
8/17/2017	167	127	172	
8/18/2017	169	131	177	
8/19/2017	128	97	128	

**Attachment 2: HH1-7 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	168	131	184	
8/21/2017	164	130	185	
8/22/2017	163	131	181	
8/23/2017	163	131	184	
8/24/2017	174	130	185	
8/25/2017	173	130	168	
8/26/2017	172	130	171	
8/27/2017	172	130	170	
8/28/2017	171	130	169	
8/29/2017	168	130	167	
8/30/2017	171	130	170	
8/31/2017	170	130	173	
9/1/2017	170	130	177	
9/2/2017	168	130	173	
9/3/2017	169	131	173	
9/4/2017	176	130	173	
9/5/2017	169	131	154	
9/6/2017	165	131	158	
9/7/2017	0	0	0	
9/8/2017	151	131	174	
9/9/2017	179	131	185	
9/10/2017	176	131	185	
9/11/2017	175	131	185	
9/12/2017	175	130	185	
9/13/2017	173	130	185	
9/14/2017	171	130	187	
9/15/2017	168	130	178	
9/16/2017	164	132	162	
9/17/2017	165	131	166	
9/18/2017	165	132	164	
9/19/2017	174	131	181	
9/20/2017	172	131	180	
9/21/2017	170	131	179	
9/22/2017	179	130	179	
9/23/2017	179	131	181	
9/24/2017	174	131	181	
9/25/2017	171	131	180	
9/26/2017	184	130	184	
9/27/2017	182	130	182	
9/28/2017	181	131	183	
9/29/2017	179	130	182	
9/30/2017	177	131	184	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-8 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	212	122	221	
7/2/2017	209	122	222	
7/3/2017	209	122	228	
7/4/2017	209	122	228	
7/5/2017	204	124	221	
7/6/2017	201	123	220	
7/7/2017	179	123	227	
7/8/2017	203	122	228	
7/9/2017	201	122	229	
7/10/2017	196	123	228	
7/11/2017	209	124	225	
7/12/2017	207	124	227	
7/13/2017	207	124	226	
7/14/2017	213	122	224	
7/15/2017	210	122	228	
7/16/2017	205	123	223	
7/17/2017	203	123	226	
7/18/2017	208	123	227	
7/19/2017	225	121	228	
7/20/2017	220	121	226	
7/21/2017	213	126	225	
7/22/2017	198	122	196	
7/23/2017	194	122	176	
7/24/2017	196	122	207	
7/25/2017	196	122	208	
7/26/2017	196	122	206	
7/27/2017	196	122	205	
7/28/2017	196	122	201	
7/29/2017	190	123	198	
7/30/2017	198	121	206	
7/31/2017	195	122	205	
8/1/2017	197	123	193	
8/2/2017	197	123	206	
8/3/2017	215	121	211	
8/4/2017	212	121	211	
8/5/2017	211	122	215	
8/6/2017	209	122	214	
8/7/2017	209	122	216	
8/8/2017	206	123	211	
8/9/2017	207	123	208	
8/10/2017	200	123	208	
8/11/2017	197	124	199	
8/12/2017	196	125	207	
8/13/2017	196	126	202	
8/14/2017	191	126	206	
8/15/2017	190	126	197	
8/16/2017	192	126	199	
8/17/2017	186	120	188	
8/18/2017	189	126	194	
8/19/2017	67	19	142	

**Attachment 2: HH1-8 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	192	127	212	
8/21/2017	189	127	210	
8/22/2017	186	128	214	
8/23/2017	196	127	208	
8/24/2017	194	127	209	
8/25/2017	195	127	204	
8/26/2017	192	126	207	
8/27/2017	193	127	207	
8/28/2017	191	127	195	
8/29/2017	189	127	193	
8/30/2017	192	126	206	
8/31/2017	216	122	214	
9/1/2017	213	122	215	
9/2/2017	212	123	208	
9/3/2017	211	123	208	
9/4/2017	211	123	189	
9/5/2017	210	124	194	
9/6/2017	214	124	199	
9/7/2017	0	0	0	
9/8/2017	204	123	178	
9/9/2017	203	122	203	
9/10/2017	201	122	203	
9/11/2017	199	122	202	
9/12/2017	197	121	200	
9/13/2017	201	125	200	
9/14/2017	201	125	201	
9/15/2017	198	126	194	
9/16/2017	196	122	195	
9/17/2017	197	123	199	
9/18/2017	196	123	197	
9/19/2017	190	123	193	
9/20/2017	190	123	192	
9/21/2017	188	123	192	
9/22/2017	188	123	192	
9/23/2017	195	122	195	
9/24/2017	194	122	194	
9/25/2017	194	122	194	
9/26/2017	196	122	197	
9/27/2017	194	122	195	
9/28/2017	193	122	197	
9/29/2017	192	122	195	
9/30/2017	191	122	195	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-9 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	303	124	283	
7/2/2017	303	125	286	
7/3/2017	304	124	282	
7/4/2017	305	125	280	
7/5/2017	301	125	272	
7/6/2017	300	125	270	
7/7/2017	301	125	274	
7/8/2017	301	125	272	
7/9/2017	301	125	272	
7/10/2017	298	125	256	
7/11/2017	299	125	268	
7/12/2017	299	125	259	
7/13/2017	302	125	265	
7/14/2017	304	125	262	
7/15/2017	334	123	269	
7/16/2017	313	124	261	
7/17/2017	323	124	254	
7/18/2017	321	124	255	
7/19/2017	319	124	265	
7/20/2017	315	124	266	
7/21/2017	305	125	249	
7/22/2017	303	125	284	
7/23/2017	302	125	287	
7/24/2017	303	125	274	
7/25/2017	304	125	273	
7/26/2017	304	125	273	
7/27/2017	305	125	271	
7/28/2017	293	125	263	
7/29/2017	291	126	257	
7/30/2017	287	125	256	
7/31/2017	297	125	265	
8/1/2017	296	125	264	
8/2/2017	301	125	260	
8/3/2017	300	125	262	
8/4/2017	313	124	265	
8/5/2017	322	124	271	
8/6/2017	321	124	270	
8/7/2017	321	124	270	
8/8/2017	313	124	264	
8/9/2017	308	124	264	
8/10/2017	304	125	260	
8/11/2017	303	125	259	
8/12/2017	304	125	259	
8/13/2017	306	125	261	
8/14/2017	302	125	257	
8/15/2017	302	125	257	
8/16/2017	302	125	261	
8/17/2017	297	107	247	
8/18/2017	313	125	255	
8/19/2017	75	12	134	

**Attachment 2: HH1-9 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	316	125	229	
8/21/2017	297	125	231	
8/22/2017	298	126	253	
8/23/2017	298	126	255	
8/24/2017	298	125	245	
8/25/2017	290	126	240	
8/26/2017	292	125	240	
8/27/2017	293	126	240	
8/28/2017	292	125	236	
8/29/2017	291	126	234	
8/30/2017	298	125	239	
8/31/2017	304	124	244	
9/1/2017	300	124	249	
9/2/2017	302	124	274	
9/3/2017	302	124	273	
9/4/2017	309	124	287	
9/5/2017	308	124	293	
9/6/2017	303	124	305	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	312	123	291	
9/10/2017	310	123	291	
9/11/2017	311	125	290	
9/12/2017	315	124	282	
9/13/2017	315	124	278	
9/14/2017	314	123	278	
9/15/2017	309	123	268	
9/16/2017	311	124	272	
9/17/2017	312	124	280	
9/18/2017	311	124	275	
9/19/2017	307	124	271	
9/20/2017	306	124	270	
9/21/2017	305	123	267	
9/22/2017	300	122	267	
9/23/2017	306	124	271	
9/24/2017	308	124	269	
9/25/2017	309	124	269	
9/26/2017	310	124	273	
9/27/2017	309	124	269	
9/28/2017	307	124	256	
9/29/2017	308	124	263	
9/30/2017	309	123	259	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-10 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	201	122	165	
7/2/2017	196	123	156	
7/3/2017	196	123	164	
7/4/2017	197	123	155	
7/5/2017	194	123	163	
7/6/2017	193	123	154	
7/7/2017	195	123	153	
7/8/2017	196	123	154	
7/9/2017	195	122	155	
7/10/2017	192	123	152	
7/11/2017	193	125	160	
7/12/2017	193	125	159	
7/13/2017	194	125	193	
7/14/2017	192	122	190	
7/15/2017	191	122	181	
7/16/2017	187	122	180	
7/17/2017	185	122	183	
7/18/2017	186	125	174	
7/19/2017	190	125	191	
7/20/2017	184	126	188	
7/21/2017	185	126	189	
7/22/2017	176	122	124	
7/23/2017	175	122	123	
7/24/2017	177	122	154	
7/25/2017	177	122	154	
7/26/2017	176	122	154	
7/27/2017	175	122	165	
7/28/2017	174	122	161	
7/29/2017	168	123	157	
7/30/2017	164	122	127	
7/31/2017	162	123	126	
8/1/2017	163	122	146	
8/2/2017	163	122	163	
8/3/2017	163	122	164	
8/4/2017	162	122	165	
8/5/2017	162	122	168	
8/6/2017	160	122	168	
8/7/2017	160	122	169	
8/8/2017	156	123	165	
8/9/2017	164	122	166	
8/10/2017	163	122	184	
8/11/2017	159	123	183	
8/12/2017	158	126	182	
8/13/2017	159	126	184	
8/14/2017	156	126	181	
8/15/2017	150	127	180	
8/16/2017	173	124	184	
8/17/2017	175	130	187	
8/18/2017	170	125	185	
8/19/2017	158	129	100	

**Attachment 2: HH1-10 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	161	127	192	
8/21/2017	156	127	189	
8/22/2017	154	128	183	
8/23/2017	154	128	185	
8/24/2017	154	127	186	
8/25/2017	147	125	175	
8/26/2017	149	124	176	
8/27/2017	148	125	176	
8/28/2017	147	125	175	
8/29/2017	147	125	175	
8/30/2017	165	123	175	
8/31/2017	177	121	179	
9/1/2017	180	123	179	
9/2/2017	181	122	173	
9/3/2017	179	122	172	
9/4/2017	179	121	174	
9/5/2017	183	124	175	
9/6/2017	0	0	0	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	0	0	0	
9/10/2017	0	0	0	
9/11/2017	0	0	0	
9/12/2017	190	127	185	
9/13/2017	182	125	184	
9/14/2017	180	125	185	
9/15/2017	173	127	177	
9/16/2017	174	120	179	
9/17/2017	179	123	185	
9/18/2017	181	123	182	
9/19/2017	176	123	181	
9/20/2017	175	123	183	
9/21/2017	175	123	180	
9/22/2017	175	124	181	
9/23/2017	175	123	181	
9/24/2017	173	122	179	
9/25/2017	172	122	179	
9/26/2017	173	122	181	
9/27/2017	176	122	179	
9/28/2017	174	122	182	
9/29/2017	171	122	180	
9/30/2017	172	122	199	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-11 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	210	120	190	
7/2/2017	206	120	186	
7/3/2017	206	120	183	
7/4/2017	206	121	191	
7/5/2017	205	121	199	
7/6/2017	204	121	190	
7/7/2017	200	119	191	
7/8/2017	200	119	189	
7/9/2017	201	121	188	
7/10/2017	199	121	186	
7/11/2017	203	125	185	
7/12/2017	203	125	192	
7/13/2017	203	125	168	
7/14/2017	195	120	167	
7/15/2017	196	120	186	
7/16/2017	192	121	183	
7/17/2017	191	121	181	
7/18/2017	190	121	182	
7/19/2017	195	126	180	
7/20/2017	193	126	179	
7/21/2017	191	126	194	
7/22/2017	175	118	180	
7/23/2017	176	120	178	
7/24/2017	175	121	174	
7/25/2017	175	121	175	
7/26/2017	175	121	174	
7/27/2017	181	127	163	
7/28/2017	180	127	160	
7/29/2017	169	121	157	
7/30/2017	168	120	159	
7/31/2017	166	120	155	
8/1/2017	170	126	155	
8/2/2017	167	120	154	
8/3/2017	166	120	154	
8/4/2017	165	120	152	
8/5/2017	166	121	155	
8/6/2017	165	121	155	
8/7/2017	164	121	141	
8/8/2017	162	122	155	
8/9/2017	158	123	155	
8/10/2017	156	123	151	
8/11/2017	154	123	151	
8/12/2017	157	125	150	
8/13/2017	157	125	150	
8/14/2017	156	125	148	
8/15/2017	154	126	147	
8/16/2017	155	125	148	
8/17/2017	153	124	157	
8/18/2017	152	126	156	
8/19/2017	153	129	143	

**Attachment 2: HH1-11 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	160	128	165	
8/21/2017	158	128	162	
8/22/2017	157	129	156	
8/23/2017	152	124	146	
8/24/2017	152	124	147	
8/25/2017	148	125	138	
8/26/2017	148	125	139	
8/27/2017	147	125	139	
8/28/2017	146	125	138	
8/29/2017	146	125	127	
8/30/2017	145	125	129	
8/31/2017	141	120	130	
9/1/2017	144	120	129	
9/2/2017	145	120	124	
9/3/2017	145	120	124	
9/4/2017	142	121	130	
9/5/2017	150	125	129	
9/6/2017	146	123	120	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	179	120	168	
9/10/2017	179	120	166	
9/11/2017	178	121	168	
9/12/2017	172	120	176	
9/13/2017	170	120	175	
9/14/2017	183	126	177	
9/15/2017	187	125	186	
9/16/2017	172	118	189	
9/17/2017	178	118	195	
9/18/2017	179	119	192	
9/19/2017	197	121	193	
9/20/2017	195	121	189	
9/21/2017	192	121	188	
9/22/2017	190	122	186	
9/23/2017	192	122	185	
9/24/2017	188	120	184	
9/25/2017	190	122	185	
9/26/2017	190	122	185	
9/27/2017	190	122	185	
9/28/2017	185	119	189	
9/29/2017	183	119	187	
9/30/2017	183	119	185	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-12 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	254	121	246	
7/2/2017	251	121	243	
7/3/2017	250	122	228	
7/4/2017	250	121	245	
7/5/2017	249	122	234	
7/6/2017	250	122	228	
7/7/2017	252	121	232	
7/8/2017	251	121	231	
7/9/2017	252	121	233	
7/10/2017	248	122	231	
7/11/2017	252	125	234	
7/12/2017	253	125	231	
7/13/2017	253	125	229	
7/14/2017	249	122	228	
7/15/2017	249	122	228	
7/16/2017	243	122	223	
7/17/2017	243	122	230	
7/18/2017	243	122	225	
7/19/2017	247	125	228	
7/20/2017	245	126	226	
7/21/2017	246	121	240	
7/22/2017	241	120	243	
7/23/2017	235	116	243	
7/24/2017	241	122	238	
7/25/2017	239	122	240	
7/26/2017	239	122	241	
7/27/2017	240	122	240	
7/28/2017	238	123	236	
7/29/2017	238	122	244	
7/30/2017	238	122	243	
7/31/2017	236	122	243	
8/1/2017	236	122	241	
8/2/2017	235	121	243	
8/3/2017	235	121	244	
8/4/2017	235	121	243	
8/5/2017	258	120	251	
8/6/2017	259	121	248	
8/7/2017	257	121	252	
8/8/2017	257	121	245	
8/9/2017	254	122	249	
8/10/2017	254	122	245	
8/11/2017	252	122	247	
8/12/2017	253	126	241	
8/13/2017	255	126	242	
8/14/2017	253	126	239	
8/15/2017	251	126	222	
8/16/2017	251	126	232	
8/17/2017	255	121	228	
8/18/2017	264	125	229	
8/19/2017	269	132	212	

**Attachment 2: HH1-12 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	268	125	239	
8/21/2017	264	125	234	
8/22/2017	262	125	229	
8/23/2017	263	125	231	
8/24/2017	264	124	233	
8/25/2017	257	125	220	
8/26/2017	256	125	222	
8/27/2017	256	125	222	
8/28/2017	255	125	218	
8/29/2017	255	125	221	
8/30/2017	258	125	224	
8/31/2017	259	120	228	
9/1/2017	264	121	267	
9/2/2017	264	120	279	
9/3/2017	265	122	279	
9/4/2017	261	121	283	
9/5/2017	268	124	284	
9/6/2017	269	125	285	
9/7/2017	0	0	0	
9/8/2017	0	0	0	
9/9/2017	256	121	262	
9/10/2017	256	121	259	
9/11/2017	255	121	258	
9/12/2017	253	121	261	
9/13/2017	259	125	262	
9/14/2017	258	125	264	
9/15/2017	254	125	255	
9/16/2017	259	120	242	
9/17/2017	260	122	251	
9/18/2017	259	122	248	
9/19/2017	256	122	246	
9/20/2017	256	122	243	
9/21/2017	255	122	243	
9/22/2017	254	122	242	
9/23/2017	256	122	259	
9/24/2017	253	121	256	
9/25/2017	252	121	257	
9/26/2017	252	121	259	
9/27/2017	244	121	256	
9/28/2017	264	119	259	
9/29/2017	261	119	256	
9/30/2017	261	119	255	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH1-13 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	368	124	401	
7/2/2017	362	125	387	
7/3/2017	357	125	386	
7/4/2017	349	126	383	
7/5/2017	344	126	373	
7/6/2017	349	126	402	
7/7/2017	355	125	403	
7/8/2017	355	125	403	
7/9/2017	356	125	403	
7/10/2017	360	125	402	
7/11/2017	358	125	404	
7/12/2017	356	125	404	
7/13/2017	357	125	405	
7/14/2017	357	125	400	
7/15/2017	356	125	402	
7/16/2017	355	125	399	
7/17/2017	356	125	402	
7/18/2017	355	125	401	
7/19/2017	355	125	399	
7/20/2017	358	124	399	
7/21/2017	356	121	381	
7/22/2017	359	123	386	
7/23/2017	358	122	387	
7/24/2017	357	122	388	
7/25/2017	362	125	384	
7/26/2017	360	124	384	
7/27/2017	359	124	382	
7/28/2017	356	124	377	
7/29/2017	353	125	371	
7/30/2017	348	125	378	
7/31/2017	346	125	373	
8/1/2017	349	125	372	
8/2/2017	361	124	375	
8/3/2017	362	125	376	
8/4/2017	365	124	378	
8/5/2017	364	124	386	
8/6/2017	361	124	387	
8/7/2017	360	124	387	
8/8/2017	374	124	384	
8/9/2017	366	124	371	
8/10/2017	362	124	369	
8/11/2017	362	124	369	
8/12/2017	340	125	368	
8/13/2017	341	125	371	
8/14/2017	335	125	366	
8/15/2017	334	125	366	
8/16/2017	335	125	369	
8/17/2017	318	124	350	
8/18/2017	299	125	350	
8/19/2017	271	125	312	

**Attachment 2: HH1-13 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	305	121	362	
8/21/2017	306	122	359	
8/22/2017	291	123	351	
8/23/2017	299	124	358	
8/24/2017	299	124	360	
8/25/2017	295	124	342	
8/26/2017	293	124	346	
8/27/2017	293	125	347	
8/28/2017	291	124	345	
8/29/2017	302	124	366	
8/30/2017	303	123	309	
8/31/2017	310	122	374	
9/1/2017	311	122	369	
9/2/2017	311	122	357	
9/3/2017	309	122	357	
9/4/2017	304	121	361	
9/5/2017	308	122	362	
9/6/2017	308	123	365	
9/7/2017	0	0	0	
9/8/2017	327	126	346	
9/9/2017	322	125	364	
9/10/2017	321	125	360	
9/11/2017	320	126	359	
9/12/2017	317	125	361	
9/13/2017	313	125	362	
9/14/2017	308	125	363	
9/15/2017	304	125	352	
9/16/2017	307	125	362	
9/17/2017	316	125	353	
9/18/2017	315	125	350	
9/19/2017	316	124	369	
9/20/2017	314	125	365	
9/21/2017	314	124	367	
9/22/2017	310	125	363	
9/23/2017	313	125	362	
9/24/2017	315	125	360	
9/25/2017	328	124	364	
9/26/2017	329	124	367	
9/27/2017	329	124	362	
9/28/2017	327	124	369	
9/29/2017	325	125	366	
9/30/2017	325	124	365	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 2: HH2-2 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
7/1/2017	---	---	---	
7/2/2017	---	---	---	
7/3/2017	---	---	---	
7/4/2017	---	---	---	
7/5/2017	---	---	---	
7/6/2017	---	---	---	
7/7/2017	---	---	---	
7/8/2017	---	---	---	
7/9/2017	---	---	---	
7/10/2017	---	---	---	
7/11/2017	---	---	---	
7/12/2017	---	---	---	
7/13/2017	---	---	---	
7/14/2017	---	---	---	
7/15/2017	---	---	---	
7/16/2017	---	---	---	
7/17/2017	---	---	---	
7/18/2017	---	---	---	
7/19/2017	---	---	---	
7/20/2017	---	---	---	
7/21/2017	---	---	---	
7/22/2017	---	---	---	
7/23/2017	---	---	---	
7/24/2017	---	---	---	
7/25/2017	---	---	---	
7/26/2017	---	---	---	
7/27/2017	---	---	---	
7/28/2017	---	---	---	
7/29/2017	---	---	---	
7/30/2017	---	---	---	
7/31/2017	---	---	---	
8/1/2017	---	---	---	
8/2/2017	---	---	---	
8/3/2017	---	---	---	
8/4/2017	---	---	---	
8/5/2017	---	---	---	
8/6/2017	---	---	---	
8/7/2017	---	---	---	
8/8/2017	---	---	---	
8/9/2017	---	---	---	
8/10/2017	---	---	---	
8/11/2017	---	---	---	
8/12/2017	---	---	---	
8/13/2017	---	---	---	
8/14/2017	---	---	---	
8/15/2017	---	---	---	
8/16/2017	---	---	---	
8/17/2017	---	---	---	
8/18/2017	---	---	---	
8/19/2017	---	---	---	

**Attachment 2: HH2-2 Flow Summary
3rd Quarter 2017
Lost Creek ISR Project PT788**

Date	Manifold Injection Flow Rate (gpm)	Manifold Injection Pressure* (psi)	Manifold Production Flow Rate (gpm)	Comments
8/20/2017	---	---	---	
8/21/2017	---	---	---	
8/22/2017	---	---	---	
8/23/2017	---	---	---	
8/24/2017	---	---	---	
8/25/2017	---	---	---	
8/26/2017	---	---	---	
8/27/2017	---	---	---	
8/28/2017	---	---	---	
8/29/2017	---	---	---	
8/30/2017	316	125	309	HH2-2 Start
8/31/2017	299	126	304	
9/1/2017	363	126	365	
9/2/2017	357	127	356	
9/3/2017	357	127	357	
9/4/2017	377	125	369	
9/5/2017	380	125	371	
9/6/2017	413	123	385	
9/7/2017	367	111	382	
9/8/2017	365	121	355	
9/9/2017	365	126	355	
9/10/2017	382	124	373	
9/11/2017	381	125	375	
9/12/2017	369	126	342	
9/13/2017	364	125	366	
9/14/2017	409	124	414	
9/15/2017	424	123	409	
9/16/2017	401	130	404	
9/17/2017	427	126	424	
9/18/2017	428	126	420	
9/19/2017	428	126	420	
9/20/2017	425	125	415	
9/21/2017	438	127	420	
9/22/2017	440	127	420	
9/23/2017	436	127	424	
9/24/2017	431	127	421	
9/25/2017	430	127	421	
9/26/2017	425	127	408	
9/27/2017	428	128	421	
9/28/2017	414	129	407	
9/29/2017	440	126	428	
9/30/2017	439	127	428	

* Manifold pressure is not indicative of actual well pressures. Flows to wells are throttled on an individual basis at each stub to keep injection pressure below the rated pressure for the well.

gpm: gallons per minute

psi: pounds per square inch

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-101	MU1 Ring	7/12/2017	178.03	
M-101	MU1 Ring	7/27/2017	174.39	
M-101	MU1 Ring	8/9/2017	164.30	
M-101	MU1 Ring	8/23/2017	183.70	
M-101	MU1 Ring	9/14/2017	189.00	
M-101	MU1 Ring	9/26/2017	182.09	
M-102	MU1 Ring	7/12/2017	183.43	
M-102	MU1 Ring	7/27/2017	178.38	
M-102	MU1 Ring	8/9/2017	168.70	
M-102	MU1 Ring	8/23/2017	188.33	
M-102	MU1 Ring	9/14/2017	193.69	
M-102	MU1 Ring	9/26/2017	186.43	
M-103A	MU1 Ring	7/12/2017	177.97	
M-103A	MU1 Ring	7/27/2017	172.12	
M-103A	MU1 Ring	8/9/2017	161.65	
M-103A	MU1 Ring	8/23/2017	182.85	
M-103A	MU1 Ring	9/14/2017	184.80	
M-103A	MU1 Ring	9/26/2017	180.48	
M-104	MU1 Ring	7/12/2017	184.75	
M-104	MU1 Ring	7/27/2017	179.93	
M-104	MU1 Ring	8/9/2017	175.95	
M-104	MU1 Ring	8/23/2017	191.87	
M-104	MU1 Ring	9/14/2017	195.66	
M-104	MU1 Ring	9/26/2017	192.30	
M-105	MU1 Ring	7/12/2017	181.95	
M-105	MU1 Ring	7/27/2017	176.52	
M-105	MU1 Ring	8/10/2017	181.42	
M-105	MU1 Ring	8/24/2017	188.74	
M-105	MU1 Ring	9/14/2017	192.10	
M-105	MU1 Ring	9/27/2017	191.60	
M-106	MU1 Ring	7/12/2017	174.07	
M-106	MU1 Ring	7/27/2017	168.15	
M-106	MU1 Ring	8/10/2017	171.53	
M-106	MU1 Ring	8/24/2017	181.31	
M-106	MU1 Ring	9/14/2017	186.18	
M-106	MU1 Ring	9/27/2017	183.88	
M-107	MU1 Ring	7/12/2017	190.40	
M-107	MU1 Ring	7/27/2017	187.69	
M-107	MU1 Ring	8/10/2017	188.48	
M-107	MU1 Ring	8/24/2017	187.96	
M-107	MU1 Ring	9/14/2017	192.79	
M-107	MU1 Ring	9/27/2017	194.13	
M-108	MU1 Ring	7/12/2017	190.90	
M-108	MU1 Ring	7/27/2017	188.34	
M-108	MU1 Ring	8/10/2017	189.25	
M-108	MU1 Ring	8/24/2017	187.65	
M-108	MU1 Ring	9/14/2017	192.42	
M-108	MU1 Ring	9/27/2017	194.65	
M-109	MU1 Ring	7/12/2017	189.22	

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-109	MU1 Ring	7/27/2017	187.29	
M-109	MU1 Ring	8/10/2017	187.13	
M-109	MU1 Ring	8/24/2017	183.30	
M-109	MU1 Ring	9/14/2017	188.06	
M-109	MU1 Ring	9/27/2017	190.94	
M-110	MU1 Ring	7/12/2017	196.09	
M-110	MU1 Ring	7/27/2017	195.31	
M-110	MU1 Ring	8/10/2017	199.22	
M-110	MU1 Ring	8/24/2017	186.19	
M-110	MU1 Ring	9/14/2017	192.70	
M-110	MU1 Ring	9/27/2017	193.70	
M-111	MU1 Ring	7/12/2017	187.28	
M-111	MU1 Ring	7/27/2017	187.59	
M-111	MU1 Ring	8/10/2017	182.30	
M-111	MU1 Ring	8/24/2017	176.91	
M-111	MU1 Ring	9/14/2017	184.35	
M-111	MU1 Ring	9/27/2017	181.32	
M-112	MU1 Ring	7/12/2017	196.92	
M-112	MU1 Ring	7/27/2017	196.65	
M-112	MU1 Ring	8/10/2017	191.70	
M-112	MU1 Ring	8/24/2017	186.13	
M-112	MU1 Ring	9/14/2017	192.15	
M-112	MU1 Ring	9/27/2017	189.50	
M-113	MU1 Ring	7/11/2017	205.89	
M-113	MU1 Ring	7/24/2017	206.97	
M-113	MU1 Ring	8/8/2017	204.94	
M-113	MU1 Ring	8/22/2017	206.68	
M-114A	MU1 Ring	7/11/2017	200.83	
M-114A	MU1 Ring	7/24/2017	201.68	
M-114A	MU1 Ring	8/8/2017	211.53	
M-114A	MU1 Ring	8/22/2017	205.33	
M-115A	MU1 Ring	7/11/2017	200.50	
M-115A	MU1 Ring	7/24/2017	200.21	
M-115A	MU1 Ring	8/8/2017	209.95	
M-115A	MU1 Ring	8/22/2017	204.61	
M-116A	MU1 Ring	7/11/2017	191.33	
M-116A	MU1 Ring	7/24/2017	187.84	
M-116A	MU1 Ring	8/8/2017	197.30	
M-116A	MU1 Ring	8/22/2017	193.74	
M-116A	MU1 Ring	9/13/2017	194.80	
M-116A	MU1 Ring	9/26/2017	178.36	
M-117	MU1 Ring	7/11/2017	201.37	
M-117	MU1 Ring	7/26/2017	198.62	
M-117	MU1 Ring	8/8/2017	204.95	
M-117	MU1 Ring	8/22/2017	206.13	
M-117	MU1 Ring	9/13/2017	203.02	
M-117	MU1 Ring	9/26/2017	190.38	
M-118	MU1 Ring	7/11/2017	201.32	
M-118	MU1 Ring	7/26/2017	198.85	

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-118	MU1 Ring	8/9/2017	209.04	
M-118	MU1 Ring	8/22/2017	203.70	
M-118	MU1 Ring	9/13/2017	203.93	
M-118	MU1 Ring	9/26/2017	191.76	
M-119	MU1 Ring	7/11/2017	204.82	
M-119	MU1 Ring	7/26/2017	202.49	
M-119	MU1 Ring	8/9/2017	205.63	
M-119	MU1 Ring	8/22/2017	205.02	
M-119	MU1 Ring	9/13/2017	197.62	
M-119	MU1 Ring	9/26/2017	192.95	
M-120A	MU1 Ring	7/11/2017	202.05	
M-120A	MU1 Ring	7/26/2017	202.89	
M-120A	MU1 Ring	8/9/2017	203.80	
M-120A	MU1 Ring	8/22/2017	205.30	
M-120A	MU1 Ring	9/13/2017	194.49	
M-120A	MU1 Ring	9/26/2017	194.20	
M-121	MU1 Ring	7/11/2017	196.21	
M-121	MU1 Ring	7/26/2017	200.81	
M-121	MU1 Ring	8/9/2017	200.30	
M-121	MU1 Ring	8/23/2017	202.23	
M-121	MU1 Ring	9/13/2017	193.90	
M-121	MU1 Ring	9/26/2017	193.62	
M-122	MU1 Ring	7/11/2017	195.02	
M-122	MU1 Ring	7/26/2017	200.15	
M-122	MU1 Ring	8/9/2017	200.54	
M-122	MU1 Ring	8/23/2017	202.58	
M-122	MU1 Ring	9/13/2017	195.41	
M-122	MU1 Ring	9/26/2017	199.50	
M-123	MU1 Ring	7/12/2017	190.59	
M-123	MU1 Ring	7/26/2017	202.62	
M-123	MU1 Ring	8/9/2017	199.06	
M-123	MU1 Ring	8/23/2017	200.87	
M-123	MU1 Ring	9/13/2017	195.42	
M-123	MU1 Ring	9/26/2017	200.11	
M-124	MU1 Ring	7/12/2017	193.41	
M-124	MU1 Ring	7/26/2017	203.44	
M-124	MU1 Ring	8/9/2017	201.54	
M-124	MU1 Ring	8/23/2017	206.44	
M-124	MU1 Ring	9/13/2017	201.98	
M-124	MU1 Ring	9/26/2017	206.64	
M-125	MU1 Ring	7/12/2017	183.17	
M-125	MU1 Ring	7/26/2017	192.02	
M-125	MU1 Ring	8/9/2017	193.68	
M-125	MU1 Ring	8/23/2017	195.66	
M-125	MU1 Ring	9/13/2017	190.89	
M-125	MU1 Ring	9/26/2017	195.51	
M-126	MU1 Ring	7/12/2017	184.23	
M-126	MU1 Ring	7/26/2017	191.07	
M-126	MU1 Ring	8/9/2017	193.59	

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-126	MU1 Ring	8/23/2017	194.74	
M-126	MU1 Ring	9/13/2017	190.64	
M-126	MU1 Ring	9/26/2017	194.89	
M-127	MU1 Ring	7/12/2017	174.38	
M-127	MU1 Ring	7/26/2017	171.26	
M-127	MU1 Ring	8/9/2017	166.20	
M-127	MU1 Ring	8/23/2017	180.17	
M-127	MU1 Ring	9/13/2017	182.70	
M-127	MU1 Ring	9/26/2017	183.56	
M-128	MU1 Ring	7/12/2017	174.70	
M-128	MU1 Ring	7/26/2017	170.98	
M-128	MU1 Ring	8/9/2017	164.68	
M-128	MU1 Ring	8/23/2017	181.07	
M-128	MU1 Ring	9/13/2017	183.33	
M-128	MU1 Ring	9/26/2017	180.62	
MO-101	MU1 Overlying	7/13/2017	162.74	
MO-101	MU1 Overlying	7/27/2017	161.90	
MO-101	MU1 Overlying	8/11/2017	159.85	
MO-101	MU1 Overlying	8/24/2017	164.50	
MO-101	MU1 Overlying	9/14/2017	165.53	
MO-101	MU1 Overlying	9/27/2017	165.40	
MO-102	MU1 Overlying	7/13/2017	169.21	
MO-102	MU1 Overlying	7/27/2017	168.54	
MO-102	MU1 Overlying	8/11/2017	168.83	
MO-102	MU1 Overlying	8/24/2017	172.33	
MO-102	MU1 Overlying	9/18/2017	173.42	
MO-102	MU1 Overlying	9/27/2017	172.65	
MO-103	MU1 Overlying	7/13/2017	163.79	
MO-103	MU1 Overlying	7/27/2017	163.27	
MO-103	MU1 Overlying	8/11/2017	163.19	
MO-103	MU1 Overlying	8/24/2017	163.19	
MO-103	MU1 Overlying	9/18/2017	167.31	
MO-103	MU1 Overlying	9/28/2017	166.90	
MO-104	MU1 Overlying	7/13/2017	179.45	
MO-104	MU1 Overlying	7/27/2017	179.83	
MO-104	MU1 Overlying	8/11/2017	189.21	
MO-104	MU1 Overlying	8/24/2017	182.00	
MO-104	MU1 Overlying	9/18/2017	183.41	
MO-104	MU1 Overlying	9/28/2017	180.85	
MO-105	MU1 Overlying	7/13/2017	173.43	
MO-105	MU1 Overlying	7/27/2017	174.96	
MO-105	MU1 Overlying	8/11/2017	170.69	
MO-105	MU1 Overlying	8/25/2017	174.75	
MO-105	MU1 Overlying	9/18/2017	174.51	
MO-105	MU1 Overlying	9/28/2017	175.50	
MO-106	MU1 Overlying	7/13/2017	174.41	
MO-106	MU1 Overlying	7/28/2017	172.32	
MO-106	MU1 Overlying	8/11/2017	173.51	
MO-106	MU1 Overlying	8/25/2017	174.21	

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-106	MU1 Overlying	9/18/2017	174.86	
MO-106	MU1 Overlying	9/28/2017	170.82	
MO-107	MU1 Overlying	7/13/2017	167.40	
MO-107	MU1 Overlying	7/28/2017	168.11	
MO-107	MU1 Overlying	8/14/2017	168.17	
MO-107	MU1 Overlying	8/25/2017	169.14	
MO-107	MU1 Overlying	9/18/2017	170.32	
MO-107	MU1 Overlying	9/28/2017	167.10	
MO-108	MU1 Overlying	7/13/2017	168.30	
MO-108	MU1 Overlying	7/28/2017	167.96	
MO-108	MU1 Overlying	8/14/2017	182.68	
MO-108	MU1 Overlying	8/25/2017	189.53	
MO-108	MU1 Overlying	9/18/2017	189.98	
MO-108	MU1 Overlying	9/28/2017	167.38	
MO-109	MU1 Overlying	7/13/2017	175.41	
MO-109	MU1 Overlying	7/28/2017	174.86	
MO-109	MU1 Overlying	8/14/2017	174.86	
MO-109	MU1 Overlying	8/25/2017	174.80	
MO-109	MU1 Overlying	9/18/2017	174.93	
MO-109	MU1 Overlying	9/29/2017	170.21	
MO-110	MU1 Overlying	7/13/2017	175.18	
MO-110	MU1 Overlying	7/28/2017	174.08	
MO-110	MU1 Overlying	8/14/2017	174.68	
MO-110	MU1 Overlying	8/28/2017	174.98	
MO-110	MU1 Overlying	9/18/2017	175.06	
MO-110	MU1 Overlying	9/29/2017	171.89	
MO-111	MU1 Overlying	7/14/2017	175.36	
MO-111	MU1 Overlying	7/28/2017	175.81	
MO-111	MU1 Overlying	8/14/2017	174.00	
MO-111	MU1 Overlying	8/25/2017	175.34	
MO-111	MU1 Overlying	9/18/2017	174.93	
MO-111	MU1 Overlying	9/29/2017	172.32	
MO-112	MU1 Overlying	7/14/2017	174.43	
MO-112	MU1 Overlying	7/28/2017	175.10	
MO-112	MU1 Overlying	8/14/2017	174.00	
MO-112	MU1 Overlying	8/28/2017	175.69	
MO-112	MU1 Overlying	9/18/2017	176.23	
MO-112	MU1 Overlying	9/29/2017	176.48	
MO-113	MU1 Overlying	7/14/2017	168.40	
MO-113	MU1 Overlying	7/28/2017	168.92	
MO-113	MU1 Overlying	8/14/2017	167.61	
MO-113	MU1 Overlying	8/28/2017	168.24	
MO-113	MU1 Overlying	9/18/2017	176.23	
MO-113	MU1 Overlying	9/29/2017	167.23	
MO-LC0254	MU1 Overlying	7/14/2017	173.89	
MO-LC0254	MU1 Overlying	7/28/2017	172.43	
MO-LC0254	MU1 Overlying	8/14/2017	170.10	
MO-LC0254	MU1 Overlying	8/28/2017	173.09	
MO-LC0254	MU1 Overlying	9/18/2017	173.46	

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MO-LC0254	MU1 Overlying	9/29/2017	174.56	
MU-101	MU1 Underlying	7/13/2017	191.14	
MU-101	MU1 Underlying	7/27/2017	190.93	
MU-101	MU1 Underlying	8/11/2017	193.63	
MU-101	MU1 Underlying	8/24/2017	191.73	
MU-101	MU1 Underlying	9/14/2017	195.88	
MU-101	MU1 Underlying	9/27/2017	192.10	
MU-102	MU1 Underlying	7/13/2017	192.32	
MU-102	MU1 Underlying	7/27/2017	192.04	
MU-102	MU1 Underlying	8/11/2017	192.74	
MU-102	MU1 Underlying	8/24/2017	192.91	
MU-102	MU1 Underlying	9/18/2017	192.69	
MU-102	MU1 Underlying	9/27/2017	193.29	
MU-103	MU1 Underlying	7/13/2017	188.11	
MU-103	MU1 Underlying	7/27/2017	187.93	
MU-103	MU1 Underlying	8/11/2017	188.62	
MU-103	MU1 Underlying	8/24/2017	188.73	
MU-103	MU1 Underlying	9/18/2017	189.04	
MU-103	MU1 Underlying	9/28/2017	188.92	
MU-104B	MU1 Underlying	7/13/2017	196.02	
MU-104B	MU1 Underlying	7/27/2017	196.32	
MU-104B	MU1 Underlying	8/11/2017	196.37	
MU-104B	MU1 Underlying	8/24/2017	195.93	
MU-104B	MU1 Underlying	9/18/2017	196.67	
MU-104B	MU1 Underlying	9/28/2017	196.39	
MU-105	MU1 Underlying	7/13/2017	204.60	
MU-105	MU1 Underlying	7/27/2017	206.62	
MU-105	MU1 Underlying	8/11/2017	204.15	
MU-105	MU1 Underlying	8/25/2017	210.35	
MU-105	MU1 Underlying	9/18/2017	209.65	
MU-105	MU1 Underlying	9/28/2017	205.35	
MU-106	MU1 Underlying	7/13/2017	198.79	
MU-106	MU1 Underlying	7/28/2017	204.66	
MU-106	MU1 Underlying	8/11/2017	200.16	
MU-106	MU1 Underlying	8/25/2017	200.84	
MU-106	MU1 Underlying	9/18/2017	201.23	
MU-106	MU1 Underlying	9/28/2017	198.91	
MU-107	MU1 Underlying	7/13/2017	197.48	
MU-107	MU1 Underlying	7/28/2017	198.80	
MU-107	MU1 Underlying	8/14/2017	198.53	
MU-107	MU1 Underlying	8/25/2017	198.94	
MU-107	MU1 Underlying	9/18/2017	199.64	
MU-107	MU1 Underlying	9/28/2017	196.91	
KPW-2	MU1 Underlying	7/13/2017	199.23	
KPW-2	MU1 Underlying	7/28/2017	200.38	
KPW-2	MU1 Underlying	8/14/2017	198.35	
KPW-2	MU1 Underlying	8/25/2017	200.30	
KPW-2	MU1 Underlying	9/18/2017	201.72	
KPW-2	MU1 Underlying	9/28/2017	198.63	

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
MU-109	MU1 Underlying	7/13/2017	202.00	
MU-109	MU1 Underlying	7/28/2017	201.70	
MU-109	MU1 Underlying	8/14/2017	200.02	
MU-109	MU1 Underlying	8/25/2017	199.12	
MU-109	MU1 Underlying	9/18/2017	200.71	
MU-109	MU1 Underlying	9/29/2017	199.69	
MU-110	MU1 Underlying	7/13/2017	205.47	
MU-110	MU1 Underlying	7/28/2017	205.95	
MU-110	MU1 Underlying	8/14/2017	206.31	
MU-110	MU1 Underlying	8/28/2017	207.60	
MU-110	MU1 Underlying	9/18/2017	207.98	
MU-110	MU1 Underlying	9/29/2017	205.63	
MU-111	MU1 Underlying	7/14/2017	204.18	
MU-111	MU1 Underlying	7/28/2017	205.54	
MU-111	MU1 Underlying	8/14/2017	205.04	
MU-111	MU1 Underlying	8/28/2017	206.75	
MU-111	MU1 Underlying	9/18/2017	206.58	
MU-111	MU1 Underlying	9/29/2017	204.49	
MU-112	MU1 Underlying	7/14/2017	205.19	
MU-112	MU1 Underlying	7/28/2017	205.68	
MU-112	MU1 Underlying	8/14/2017	205.90	
MU-112	MU1 Underlying	8/28/2017	207.41	
MU-112	MU1 Underlying	9/18/2017	206.92	
MU-112	MU1 Underlying	9/29/2017	205.09	
MU-113	MU1 Underlying	7/14/2017	193.19	
MU-113	MU1 Underlying	7/28/2017	193.44	
MU-113	MU1 Underlying	8/14/2017	191.69	
MU-113	MU1 Underlying	8/28/2017	192.58	
MU-113	MU1 Underlying	9/18/2017	192.98	
MU-113	MU1 Underlying	9/29/2017	190.28	
M-201	MU2 Ring	9/8/2017	204.93	
M-201	MU2 Ring	9/20/2017	208.08	
M-202	MU2 Ring	9/8/2017	217.55	
M-202	MU2 Ring	9/20/2017	219.15	
M-229	MU2 Ring	9/8/2017	202.39	
M-229	MU2 Ring	9/21/2017	205.55	
M-230	MU2 Ring	9/8/2017	202.96	
M-230	MU2 Ring	9/21/2017	206.32	
M-231A	MU2 Ring	9/8/2017	194.77	
M-231A	MU2 Ring	9/21/2017	199.04	
M-FG213	MU2 Overlying	9/8/2017	190.58	
M-FG213	MU2 Overlying	9/20/2017	192.70	
M-FG214	MU2 Overlying	9/11/2017	176.89	
M-FG214	MU2 Overlying	9/20/2017	205.49	
M-FG215	MU2 Overlying	9/11/2017	192.26	
M-FG215	MU2 Overlying	9/20/2017	217.60	
M-HJ211	MU2 Interim Ring	9/8/2017	212.68	
M-HJ211	MU2 Interim Ring	9/20/2017	215.20	
M-HJ226	MU2 Interim Ring	9/8/2017	207.92	

**Attachment 3: Groundwater Level Measurement Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Measure Date	Depth to Water (ft-bmp)	Comments
M-HJ226	MU2 Interim Ring	9/20/2017	205.52	
M-HJ232	MU2 Interim Ring	9/8/2017	205.96	
M-HJ232	MU2 Interim Ring	9/20/2017	208.80	
M-KM213	MU2 Underlying	9/8/2017	222.88	
M-KM213	MU2 Underlying	9/20/2017	225.00	
M-KM214	MU2 Underlying	9/11/2017	205.72	
M-KM214	MU2 Underlying	9/20/2017	205.49	
M-KM215	MU2 Underlying	9/11/2017	214.80	
M-KM215	MU2 Underlying	9/20/2017	217.60	
LC15M	Regional FG	10/8/2017	163.22	
LC16M	Regional HJ	10/8/2017	170.29	
LC17M	Regional KM	10/8/2017	190.17	
LC18M	Regional FG	10/8/2017	172.48	
LC19M	Regional HJ	10/8/2017	207.33	
LC20M	Regional KM	10/8/2017	211.10	
LC21M	Regional FG	10/8/2017	197.68	
LC22MA	Regional HJ	10/8/2017	210.40	
LC23M	Regional KM	10/8/2017	222.38	
LC24M	Regional KM	10/8/2017	195.69	
LC25MA	Regional FG	10/8/2017	169.55	
LC26M	Regional HJ	10/8/2017	169.55	
LC27M	Regional KM	10/8/2017	195.41	
LC28M	Regional KM	10/8/2017	155.93	
LC29M	Regional DE	10/8/2017	158.73	Insufficient water for sampling
LC30M	Regional DE	10/8/2017	200.27	
LC31M	Regional DE	10/8/2017	144.69	
MB-01	Regional DE	10/8/2017	238.61	
MB-02	Regional FG	10/8/2017	243.15	
MB-03B	Regional HJ	10/8/2017	268.37	
MB-04	Regional KM	10/8/2017	277.71	
MB-05	Regional FG	10/8/2017	144.75	
MB-06	Regional HJ	10/8/2017	143.39	
MB-07	Regional DE	10/8/2017	162.43	
MB-08	Regional FG	10/8/2017	174.17	
MB-09	Regional HJ	10/8/2017	186.21	
MB-10	Regional DE	10/8/2017	172.23	Insufficient water for sampling

ft-bmp: feet below measuring point

MU1: Mine Unit 1

**Attachment 4a: MU1 Water Quality Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
M-101	Ring	7/12/2017	---	120	186.2	-36	6.4	20.5	-69	637	1012.4	-37	
M-101	Ring	7/27/2017	15	117	186.2	-37	6.2	20.5	-70	635	1012.4	-37	
M-101	Ring	8/9/2017	13	119	186.2	-36	6.4	20.5	-69	669	1012.4	-34	
M-101	Ring	8/23/2017	14	113	186.2	-39	6.6	20.5	-68	640	1012.4	-37	
M-101	Ring	9/14/2017	22	114	186.2	-39	6.5	20.5	-68	639	1012.4	-37	
M-101	Ring	9/26/2017	12	115	186.2	-38	6.7	20.5	-67	643	1012.4	-36	
M-102	Ring	7/12/2017	---	137	186.2	-26	7.0	20.5	-66	814	1012.4	-20	
M-102	Ring	7/27/2017	15	139	186.2	-25	7.0	20.5	-66	807	1012.4	-20	
M-102	Ring	8/9/2017	13	146	186.2	-22	8.8	20.5	-57	846	1012.4	-16	
M-102	Ring	8/23/2017	14	141	186.2	-24	6.3	20.5	-69	810	1012.4	-20	
M-102	Ring	9/14/2017	22	151	186.2	-19	6.6	20.5	-68	805	1012.4	-20	
M-102	Ring	9/26/2017	12	137	186.2	-26	6.1	20.5	-70	808	1012.4	-20	
M-103A	Ring	7/12/2017	---	138	186.2	-26	7.1	20.5	-65	819	1012.4	-19	
M-103A	Ring	7/27/2017	15	139	186.2	-25	6.5	20.5	-68	805	1012.4	-20	
M-103A	Ring	8/9/2017	13	135	186.2	-28	6.5	20.5	-68	819	1012.4	-19	
M-103A	Ring	8/23/2017	14	134	186.2	-28	6.8	20.5	-67	806	1012.4	-20	
M-103A	Ring	9/14/2017	22	138	186.2	-26	7.8	20.5	-62	804	1012.4	-21	
M-103A	Ring	9/26/2017	12	137	186.2	-26	7.0	20.5	-66	808	1012.4	-20	
M-104	Ring	7/12/2017	---	129	186.2	-31	6.2	20.5	-70	678	1012.4	-33	
M-104	Ring	7/27/2017	15	123	186.2	-34	6.5	20.5	-68	666	1012.4	-34	
M-104	Ring	8/9/2017	13	120	186.2	-35	6.0	20.5	-71	666	1012.4	-34	
M-104	Ring	8/23/2017	14	119	186.2	-36	6.6	20.5	-68	652	1012.4	-36	
M-104	Ring	9/14/2017	22	120	186.2	-35	6.4	20.5	-69	644	1012.4	-36	
M-104	Ring	9/26/2017	12	117	186.2	-37	6.8	20.5	-67	645	1012.4	-36	
M-105	Ring	7/12/2017	---	129	186.2	-31	7.0	20.5	-66	724	1012.4	-28	
M-105	Ring	7/27/2017	15	133	186.2	-28	6.7	20.5	-68	734	1012.4	-27	
M-105	Ring	8/10/2017	14	127	186.2	-32	6.5	20.5	-68	683	1012.4	-33	
M-105	Ring	8/24/2017	14	123	186.2	-34	5.4	20.5	-74	646	1012.4	-36	
M-105	Ring	9/14/2017	21	122	186.2	-35	6.1	20.5	-70	631	1012.4	-38	
M-105	Ring	9/27/2017	13	126	186.2	-32	5.8	20.5	-71	651	1012.4	-36	
M-106	Ring	7/12/2017	---	132	186.2	-29	6.6	20.5	-68	698	1012.4	-31	
M-106	Ring	7/27/2017	15	132	186.2	-29	6.5	20.5	-68	715	1012.4	-29	
M-106	Ring	8/10/2017	14	122	186.2	-34	5.7	20.5	-72	673	1012.4	-34	
M-106	Ring	8/24/2017	14	123	186.2	-34	6.0	20.5	-71	668	1012.4	-34	
M-106	Ring	9/14/2017	21	123	186.2	-34	6.7	20.5	-67	676	1012.4	-33	
M-106	Ring	9/27/2017	13	121	186.2	-35	6.7	20.5	-67	675	1012.4	-33	
M-107	Ring	7/12/2017	---	120	186.2	-36	6.8	20.5	-67	682	1012.4	-33	
M-107	Ring	7/27/2017	15	120	186.2	-36	7.4	20.5	-64	672	1012.4	-34	
M-107	Ring	8/10/2017	14	125	186.2	-33	6.5	20.5	-68	679	1012.4	-33	
M-107	Ring	8/24/2017	14	124	186.2	-34	6.2	20.5	-70	674	1012.4	-33	
M-107	Ring	9/14/2017	21	122	186.2	-34	6.3	20.5	-69	676	1012.4	-33	
M-107	Ring	9/27/2017	13	123	186.2	-34	6.5	20.5	-68	675	1012.4	-33	
M-108	Ring	7/12/2017	---	114	186.2	-39	6.1	20.5	-70	544	1012.4	-46	
M-108	Ring	7/27/2017	15	114	186.2	-39	6.3	20.5	-69	538	1012.4	-47	
M-108	Ring	8/10/2017	14	107	186.2	-42	6.2	20.5	-70	549	1012.4	-46	
M-108	Ring	8/24/2017	14	108	186.2	-42	5.5	20.5	-73	546	1012.4	-46	
M-108	Ring	9/14/2017	21	107	186.2	-42	7.2	20.5	-65	545	1012.4	-46	
M-108	Ring	9/27/2017	13	105	186.2	-44	5.9	20.5	-71	546	1012.4	-46	
M-109	Ring	7/12/2017	---	104	186.2	-44	6.4	20.5	-69	527	1012.4	-48	
M-109	Ring	7/27/2017	15	105	186.2	-44	5.9	20.5	-71	516	1012.4	-49	
M-109	Ring	8/10/2017	14	102	186.2	-45	5.6	20.5	-73	522	1012.4	-48	
M-109	Ring	8/24/2017	14	100	186.2	-46	6.5	20.5	-68	506	1012.4	-50	
M-109	Ring	9/14/2017	21	105	186.2	-44	6.5	20.5	-68	513	1012.4	-49	
M-109	Ring	9/27/2017	13	105	186.2	-44	6.9	20.5	-66	517	1012.4	-49	
M-110	Ring	7/12/2017	---	111	186.2	-41	8.1	20.5	-60	540	1012.4	-47	
M-110	Ring	7/27/2017	15	107	186.2	-43	7.5	20.5	-64	527	1012.4	-48	
M-110	Ring	8/10/2017	14	111	186.2	-40	7.2	20.5	-65	534	1012.4	-47	
M-110	Ring	8/24/2017	14	107	186.2	-43	6.5	20.5	-68	515	1012.4	-49	
M-110	Ring	9/14/2017	21	107	186.2	-43	7.3	20.5	-64	531	1012.4	-48	
M-110	Ring	9/27/2017	13	110	186.2	-41	6.9	20.5	-66	547	1012.4	-46	
M-111	Ring	7/12/2017	---	112	186.2	-40	6.7	20.5	-67	539	1012.4	-47	
M-111	Ring	7/27/2017	15	112	186.2	-40	6.7	20.5	-67	552	1012.4	-45	
M-111	Ring	8/10/2017	14	112	186.2	-40	7.2	20.5	-65	562	1012.4	-44	
M-111	Ring	8/24/2017	14	123	186.2	-34	5.3	20.5	-74	529	1012.4	-48	
M-111	Ring	9/14/2017	21	110	186.2	-41	6.5	20.5	-68	537	1012.4	-47	
M-111	Ring	9/27/2017	13	105	186.2	-43	6.2	20.5	-70	535	1012.4	-47	

**Attachment 4a: MU1 Water Quality Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
M-112	Ring	7/12/2017	---	109	186.2	-42	7.3	20.5	-65	546	1012.4	-46	
M-112	Ring	7/27/2017	15	109	186.2	-42	6.2	20.5	-70	547	1012.4	-46	
M-112	Ring	8/10/2017	14	112	186.2	-40	5.8	20.5	-72	539	1012.4	-47	
M-112	Ring	8/24/2017	14	109	186.2	-41	6.4	20.5	-69	536	1012.4	-47	
M-112	Ring	9/14/2017	21	114	186.2	-39	5.9	20.5	-71	537	1012.4	-47	
M-112	Ring	9/27/2017	13	112	186.2	-40	6.2	20.5	-70	539	1012.4	-47	
M-113	Ring	7/11/2017	---	106	186.2	-43	6.0	20.5	-71	517	1012.4	-49	
M-113	Ring	7/26/2017	15	102	186.2	-45	6.1	20.5	-70	505	1012.4	-50	
M-113	Ring	8/9/2017	14	104	186.2	-44	5.8	20.5	-72	509	1012.4	-50	
M-113	Ring	8/22/2017	13	101	186.2	-46	6.0	20.5	-71	500	1012.4	-51	
M-114A	Ring	7/11/2017	---	108	186.2	-42	6.6	20.5	-68	517	1012.4	-49	
M-114A	Ring	7/26/2017	15	121	186.2	-35	5.8	20.5	-72	515	1012.4	-49	
M-114A	Ring	8/9/2017	14	103	186.2	-45	5.0	20.5	-76	519	1012.4	-49	
M-114A	Ring	8/22/2017	13	120	186.2	-35	5.2	20.5	-75	507	1012.4	-50	
M-115A	Ring	7/11/2017	---	102	186.2	-45	6.4	20.5	-69	485	1012.4	-52	
M-115A	Ring	7/26/2017	15	103	186.2	-45	5.7	20.5	-72	479	1012.4	-53	
M-115A	Ring	8/9/2017	14	113	186.2	-39	5.7	20.5	-72	482	1012.4	-52	
M-115A	Ring	8/22/2017	13	102	186.2	-45	5.2	20.5	-75	476	1012.4	-53	
M-116A	Ring	7/11/2017	---	121	186.2	-35	6.2	20.5	-70	493	1012.4	-51	
M-116A	Ring	7/26/2017	15	105	186.2	-44	6.2	20.5	-70	490	1012.4	-52	
M-116A	Ring	8/9/2017	14	105	186.2	-44	5.4	20.5	-74	492	1012.4	-51	
M-116A	Ring	8/22/2017	13	104	186.2	-44	5.6	20.5	-73	490	1012.4	-52	
M-116A	Ring	9/13/2017	22	102	186.2	-45	5.2	20.5	-75	484	1012.4	-52	
M-116A	Ring	9/26/2017	13	105	186.2	-44	5.2	20.5	-74	489	1012.4	-52	
M-117	Ring	7/11/2017	---	106	186.2	-43	6.8	20.5	-67	493	1012.4	-51	
M-117	Ring	7/26/2017	15	108	186.2	-42	5.5	20.5	-73	482	1012.4	-52	
M-117	Ring	8/9/2017	14	105	186.2	-44	5.6	20.5	-73	491	1012.4	-52	
M-117	Ring	8/22/2017	13	107	186.2	-43	5.1	20.5	-75	489	1012.4	-52	
M-117	Ring	9/13/2017	22	105	186.2	-44	5.7	20.5	-72	486	1012.4	-52	
M-117	Ring	9/26/2017	13	101	186.2	-46	6.2	20.5	-70	489	1012.4	-52	
M-118	Ring	7/11/2017	---	101	186.2	-46	6.3	20.5	-69	503	1012.4	-50	
M-118	Ring	7/26/2017	15	99	186.2	-47	6.2	20.5	-70	497	1012.4	-51	
M-118	Ring	8/9/2017	14	101	186.2	-46	5.6	20.5	-73	499	1012.4	-51	
M-118	Ring	8/22/2017	13	99	186.2	-47	5.7	20.5	-72	501	1012.4	-51	
M-118	Ring	9/13/2017	22	99	186.2	-47	4.9	20.5	-76	494	1012.4	-51	
M-118	Ring	9/26/2017	13	97	186.2	-48	5.4	20.5	-73	499	1012.4	-51	
M-119	Ring	7/11/2017	---	115	186.2	-38	6.7	20.5	-67	461	1012.4	-54	
M-119	Ring	7/26/2017	15	116	186.2	-38	6.5	20.5	-68	453	1012.4	-55	
M-119	Ring	8/9/2017	14	116	186.2	-38	5.4	20.5	-74	455	1012.4	-55	
M-119	Ring	8/22/2017	13	113	186.2	-39	6.0	20.5	-71	457	1012.4	-55	
M-119	Ring	9/13/2017	22	111	186.2	-41	5.9	20.5	-71	458	1012.4	-55	
M-119	Ring	9/26/2017	13	118	186.2	-37	5.6	20.5	-72	457	1012.4	-55	
M-120A	Ring	7/11/2017	---	115	186.2	-38	8.3	20.5	-60	483	1012.4	-52	
M-120A	Ring	7/26/2017	15	116	186.2	-38	6.4	20.5	-69	464	1012.4	-54	
M-120A	Ring	8/9/2017	14	110	186.2	-41	6.7	20.5	-67	466	1012.4	-54	
M-120A	Ring	8/22/2017	13	115	186.2	-38	6.2	20.5	-70	466	1012.4	-54	
M-120A	Ring	9/13/2017	22	113	186.2	-39	5.7	20.5	-72	468	1012.4	-54	
M-120A	Ring	9/26/2017	13	106	186.2	-43	6.6	20.5	-68	468	1012.4	-54	
M-121	Ring	7/11/2017	---	125	186.2	-33	5.4	20.5	-74	506	1012.4	-50	
M-121	Ring	7/26/2017	15	111	186.2	-40	6.5	20.5	-68	507	1012.4	-50	
M-121	Ring	8/9/2017	14	116	186.2	-38	5.5	20.5	-73	508	1012.4	-50	
M-121	Ring	8/23/2017	14	110	186.2	-41	6.1	20.5	-70	510	1012.4	-50	
M-121	Ring	9/13/2017	21	110	186.2	-41	5.1	20.5	-75	504	1012.4	-50	
M-121	Ring	9/26/2017	13	125	186.2	-33	5.3	20.5	-74	506	1012.4	-50	
M-122	Ring	7/11/2017	---	111	186.2	-40	5.7	20.5	-72	500	1012.4	-51	
M-122	Ring	7/26/2017	15	117	186.2	-37	6.0	20.5	-71	499	1012.4	-51	
M-122	Ring	8/9/2017	14	111	186.2	-40	5.5	20.5	-73	503	1012.4	-50	
M-122	Ring	8/23/2017	14	113	186.2	-39	5.2	20.5	-75	500	1012.4	-51	
M-122	Ring	9/13/2017	21	108	186.2	-42	5.8	20.5	-72	493	1012.4	-51	
M-122	Ring	9/26/2017	13	111	186.2	-41	6.2	20.5	-70	492	1012.4	-51	
M-123	Ring	7/12/2017	---	119	186.2	-36	5.1	20.5	-75	492	1012.4	-51	
M-123	Ring	7/26/2017	14	115	186.2	-38	6.0	20.5	-71	492	1012.4	-51	
M-123	Ring	8/9/2017	14	118	186.2	-36	5.9	20.5	-71	495	1012.4	-51	
M-123	Ring	8/23/2017	14	116	186.2	-38	5.8	20.5	-71	493	1012.4	-51	
M-123	Ring	9/13/2017	21	113	186.2	-39	4.9	20.5	-76	486	1012.4	-52	
M-123	Ring	9/26/2017	13	113	186.2	-39	5.6	20.5	-73	483	1012.4	-52	

**Attachment 4a: MU1 Water Quality Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
M-124	Ring	7/12/2017	---	112	186.2	-40	5.5	20.5	-73	465	1012.4	-54	
M-124	Ring	7/26/2017	14	114	186.2	-39	6.2	20.5	-70	465	1012.4	-54	
M-124	Ring	8/9/2017	14	111	186.2	-41	5.1	20.5	-75	467	1012.4	-54	
M-124	Ring	8/23/2017	14	109	186.2	-41	5.4	20.5	-74	468	1012.4	-54	
M-124	Ring	9/13/2017	21	111	186.2	-41	5.9	20.5	-71	460	1012.4	-55	
M-124	Ring	9/26/2017	13	113	186.2	-40	4.9	20.5	-76	465	1012.4	-54	
M-125	Ring	7/12/2017	---	110	186.2	-41	6.3	20.5	-69	542	1012.4	-46	
M-125	Ring	7/26/2017	14	112	186.2	-40	6.6	20.5	-68	538	1012.4	-47	
M-125	Ring	8/9/2017	14	109	186.2	-41	6.9	20.5	-66	538	1012.4	-47	
M-125	Ring	8/23/2017	14	112	186.2	-40	6.1	20.5	-70	540	1012.4	-47	
M-125	Ring	9/13/2017	21	110	186.2	-41	6.5	20.5	-68	534	1012.4	-47	
M-125	Ring	9/26/2017	13	107	186.2	-43	7.6	20.5	-63	536	1012.4	-47	
M-126	Ring	7/12/2017	---	114	186.2	-39	6.5	20.5	-68	542	1012.4	-46	
M-126	Ring	7/26/2017	14	109	186.2	-41	7.4	20.5	-64	541	1012.4	-47	
M-126	Ring	8/9/2017	14	113	186.2	-39	6.3	20.5	-69	543	1012.4	-46	
M-126	Ring	8/23/2017	14	108	186.2	-42	7.2	20.5	-65	546	1012.4	-46	
M-126	Ring	9/13/2017	21	107	186.2	-43	5.9	20.5	-71	538	1012.4	-47	
M-126	Ring	9/26/2017	13	111	186.2	-40	6.3	20.5	-69	548	1012.4	-46	
M-127	Ring	7/12/2017	---	112	186.2	-40	7.2	20.5	-65	555	1012.4	-45	
M-127	Ring	7/26/2017	14	118	186.2	-37	7.4	20.5	-64	556	1012.4	-45	
M-127	Ring	8/9/2017	14	111	186.2	-41	6.1	20.5	-70	558	1012.4	-45	
M-127	Ring	8/23/2017	14	112	186.2	-40	6.2	20.5	-70	565	1012.4	-44	
M-127	Ring	9/13/2017	21	113	186.2	-39	6.8	20.5	-67	555	1012.4	-45	
M-127	Ring	9/26/2017	13	113	186.2	-39	6.7	20.5	-67	557	1012.4	-45	
M-128	Ring	7/12/2017	---	118	186.2	-37	6.0	20.5	-71	565	1012.4	-44	
M-128	Ring	7/26/2017	14	111	186.2	-40	6.7	20.5	-67	564	1012.4	-44	
M-128	Ring	8/9/2017	14	116	186.2	-38	6.7	20.5	-67	562	1012.4	-44	
M-128	Ring	8/23/2017	14	115	186.2	-38	6.2	20.5	-70	576	1012.4	-43	
M-128	Ring	9/13/2017	21	113	186.2	-39	5.9	20.5	-71	570	1012.4	-44	
M-128	Ring	9/26/2017	13	109	186.2	-42	6.7	20.5	-67	564	1012.4	-44	
MO-101	Overlying	7/13/2017	---	109	186.2	-42	7.7	20.5	-62	644	1012.4	-36	
MO-101	Overlying	7/27/2017	14	113	186.2	-40	9.6	20.5	-53	647	1012.4	-36	
MO-101	Overlying	8/11/2017	15	111	186.2	-41	7.3	20.5	-65	647	1012.4	-36	
MO-101	Overlying	8/24/2017	13	112	186.2	-40	7.0	20.5	-66	645	1012.4	-36	
MO-101	Overlying	9/18/2017	25	106	186.2	-43	7.7	20.5	-62	639	1012.4	-37	
MO-101	Overlying	9/27/2017	9	111	186.2	-40	7.1	20.5	-65	642	1012.4	-37	
MO-102	Overlying	7/13/2017	---	106	182.1	-42	7.4	21.4	-66	594	921.7	-36	
MO-102	Overlying	7/27/2017	14	106	182.1	-42	7.5	21.4	-65	591	921.7	-36	
MO-102	Overlying	8/11/2017	15	101	182.1	-44	7.4	21.4	-65	586	921.7	-36	
MO-102	Overlying	8/24/2017	13	103	182.1	-43	6.8	21.4	-68	581	921.7	-37	
MO-102	Overlying	9/18/2017	25	102	182.1	-44	8.4	21.4	-61	588	921.7	-36	
MO-102	Overlying	9/27/2017	9	103	182.1	-43	7.8	21.4	-64	589	921.7	-36	
MO-103	Overlying	7/13/2017	---	121	182.1	-34	9.2	21.4	-57	705	921.7	-24	
MO-103	Overlying	7/27/2017	14	116	182.1	-36	10.7	21.4	-50	716	921.7	-22	
MO-103	Overlying	8/11/2017	15	119	182.1	-35	8.9	21.4	-58	714	921.7	-23	
MO-103	Overlying	8/24/2017	13	118	182.1	-35	10.1	21.4	-53	705	921.7	-24	
MO-103	Overlying	9/18/2017	25	121	182.1	-34	10.1	21.4	-53	717	921.7	-22	
MO-103	Overlying	9/28/2017	10	115	182.1	-37	9.8	21.4	-54	717	921.7	-22	
MO-104	Overlying	7/13/2017	---	116	182.1	-36	9.5	21.4	-55	598	921.7	-35	
MO-104	Overlying	7/27/2017	14	122	182.1	-33	10.7	21.4	-50	599	921.7	-35	
MO-104	Overlying	8/11/2017	15	114	182.1	-37	9.3	21.4	-56	593	921.7	-36	
MO-104	Overlying	8/24/2017	13	118	182.1	-35	8.4	21.4	-61	585	921.7	-37	
MO-104	Overlying	9/18/2017	25	111	182.1	-39	9.8	21.4	-54	585	921.7	-37	
MO-104	Overlying	9/28/2017	10	118	182.1	-35	8.9	21.4	-58	591	921.7	-36	
MO-105	Overlying	7/13/2017	---	110	182.1	-40	6.7	21.4	-69	486	921.7	-47	
MO-105	Overlying	7/27/2017	14	103	182.1	-43	6.2	21.4	-71	480	921.7	-48	
MO-105	Overlying	8/11/2017	15	104	182.1	-43	5.9	21.4	-72	482	921.7	-48	
MO-105	Overlying	8/25/2017	14	103	182.1	-43	6.1	21.4	-72	472	921.7	-49	
MO-105	Overlying	9/18/2017	24	107	182.1	-41	6.0	21.4	-72	474	921.7	-49	
MO-105	Overlying	9/28/2017	10	102	182.1	-44	6.7	21.4	-68	477	921.7	-48	
MO-106	Overlying	7/13/2017	---	102	182.1	-44	6.3	21.4	-70	466	921.7	-49	
MO-106	Overlying	7/28/2017	15	103	182.1	-44	6.9	21.4	-68	468	921.7	-49	
MO-106	Overlying	8/11/2017	14	105	182.1	-42	5.8	21.4	-73	465	921.7	-50	
MO-106	Overlying	8/25/2017	14	103	182.1	-43	6.1	21.4	-72	456	921.7	-51	
MO-106	Overlying	9/18/2017	24	103	182.1	-43	5.7	21.4	-73	459	921.7	-50	
MO-106	Overlying	9/28/2017	10	101	182.1	-45	5.9	21.4	-73	466	921.7	-49	

**Attachment 4a: MU1 Water Quality Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
MO-107	Overlying	7/13/2017	---	104	182.1	-43	5.9	21.4	-72	462	921.7	-50	
MO-107	Overlying	7/28/2017	15	108	182.1	-41	6.7	21.4	-69	460	921.7	-50	
MO-107	Overlying	8/14/2017	17	102	182.1	-44	6.0	21.4	-72	460	921.7	-50	
MO-107	Overlying	8/25/2017	11	104	182.1	-43	5.2	21.4	-76	455	921.7	-51	
MO-107	Overlying	9/18/2017	24	100	182.1	-45	6.5	21.4	-70	455	921.7	-51	
MO-107	Overlying	9/28/2017	10	106	182.1	-42	5.6	21.4	-74	464	921.7	-50	
MO-108	Overlying	7/13/2017	---	106	182.1	-42	6.3	21.4	-71	490	921.7	-47	
MO-108	Overlying	7/28/2017	15	110	182.1	-40	6.5	21.4	-70	483	921.7	-48	
MO-108	Overlying	8/14/2017	17	100	182.1	-45	5.8	21.4	-73	482	921.7	-48	
MO-108	Overlying	8/25/2017	11	99	182.1	-46	6.6	21.4	-69	480	921.7	-48	
MO-108	Overlying	9/18/2017	24	100	182.1	-45	6.0	21.4	-72	478	921.7	-48	
MO-108	Overlying	9/28/2017	10	101	182.1	-44	6.8	21.4	-68	481	921.7	-48	
MO-109	Overlying	7/13/2017	---	108	182.1	-41	7.7	21.4	-64	505	921.7	-45	
MO-109	Overlying	7/28/2017	15	110	182.1	-40	9.3	21.4	-57	505	921.7	-45	
MO-109	Overlying	8/14/2017	17	110	182.1	-40	7.2	21.4	-66	503	921.7	-45	
MO-109	Overlying	8/25/2017	11	108	182.1	-41	7.4	21.4	-65	505	921.7	-45	
MO-109	Overlying	9/18/2017	24	112	182.1	-39	8.3	21.4	-61	500	921.7	-46	
MO-109	Overlying	9/29/2017	11	112	182.1	-39	7.4	21.4	-66	505	921.7	-45	
MO-110	Overlying	7/13/2017	---	98	182.1	-46	6.3	21.4	-70	433	921.7	-53	
MO-110	Overlying	7/28/2017	15	100	182.1	-45	6.6	21.4	-69	432	921.7	-53	
MO-110	Overlying	8/14/2017	17	99	182.1	-46	6.2	21.4	-71	427	921.7	-54	
MO-110	Overlying	8/28/2017	14	100	182.1	-45	5.2	21.4	-76	432	921.7	-53	
MO-110	Overlying	9/18/2017	21	97	182.1	-47	6.8	21.4	-68	431	921.7	-53	
MO-110	Overlying	9/29/2017	11	98	182.1	-46	6.5	21.4	-70	426	921.7	-54	
MO-111	Overlying	7/14/2017	---	129	182.1	-29	12.0	21.4	-44	500	921.7	-46	
MO-111	Overlying	7/28/2017	14	118	182.1	-35	11.3	21.4	-47	489	921.7	-47	
MO-111	Overlying	8/14/2017	17	115	182.1	-37	9.8	21.4	-54	490	921.7	-47	
MO-111	Overlying	8/28/2017	14	119	182.1	-35	11.7	21.4	-45	497	921.7	-46	
MO-111	Overlying	9/18/2017	21	127	182.1	-30	9.8	21.4	-54	483	921.7	-48	
MO-111	Overlying	9/29/2017	11	98	182.1	-46	9.8	21.4	-54	488	921.7	-47	
MO-112	Overlying	7/14/2017	---	108	182.1	-41	7.6	21.4	-65	434	921.7	-53	
MO-112	Overlying	7/28/2017	14	114	182.1	-37	9.2	21.4	-57	432	921.7	-53	
MO-112	Overlying	8/14/2017	17	114	182.1	-38	7.7	21.4	-64	423	921.7	-54	
MO-112	Overlying	8/28/2017	14	110	182.1	-40	6.8	21.4	-68	425	921.7	-54	
MO-112	Overlying	9/19/2017	22	109	182.1	-40	8.7	21.4	-59	438	921.7	-52	
MO-112	Overlying	9/29/2017	10	98	182.1	-46	7.0	21.4	-67	424	921.7	-54	
MO-113	Overlying	7/14/2017	---	107	182.1	-41	8.0	21.4	-63	451	921.7	-51	
MO-113	Overlying	7/28/2017	14	106	182.1	-42	8.2	21.4	-62	458	921.7	-50	
MO-113	Overlying	8/14/2017	17	113	182.1	-38	7.6	21.4	-64	454	921.7	-51	
MO-113	Overlying	8/28/2017	14	105	182.1	-42	8.0	21.4	-62	452	921.7	-51	
MO-113	Overlying	9/19/2017	22	103	182.1	-43	8.6	21.4	-60	457	921.7	-50	
MO-113	Overlying	9/29/2017	10	98	182.1	-46	9.2	21.4	-57	457	921.7	-50	
MU-101	Underlying	7/13/2017	---	122	182.1	-33	5.5	21.4	-74	543	921.7	-41	
MU-101	Underlying	7/27/2017	14	111	182.1	-39	6.2	21.4	-71	544	921.7	-41	
MU-101	Underlying	8/11/2017	15	110	182.1	-39	5.0	21.4	-77	546	921.7	-41	
MU-101	Underlying	8/24/2017	13	108	182.1	-41	5.8	21.4	-73	538	921.7	-42	
MU-101	Underlying	9/14/2017	21	113	182.1	-38	5.4	21.4	-75	543	921.7	-41	
MU-101	Underlying	9/27/2017	13	121	182.1	-34	5.2	21.4	-76	541	921.7	-41	
MU-102	Underlying	7/13/2017	---	108	182.1	-41	5.6	21.4	-74	432	921.7	-53	
MU-102	Underlying	7/27/2017	14	105	182.1	-42	5.5	21.4	-74	426	921.7	-54	
MU-102	Underlying	8/11/2017	15	106	206.0	-48	5.4	21.3	-74	421	658.9	-36	
MU-102	Underlying	8/24/2017	13	105	206.0	-49	4.7	21.3	-78	416	658.9	-37	
MU-102	Underlying	9/18/2017	25	103	206.0	-50	6.0	21.3	-72	426	658.9	-35	
MU-102	Underlying	9/27/2017	9	106	206.0	-49	5.6	21.3	-74	419	658.9	-36	
MU-103	Underlying	7/13/2017	---	107	206.0	-48	5.7	21.3	-73	419	658.9	-36	
MU-103	Underlying	7/27/2017	14	108	206.0	-47	5.2	21.3	-76	421	658.9	-36	
MU-103	Underlying	8/11/2017	15	101	206.0	-51	5.0	21.3	-76	413	658.9	-37	
MU-103	Underlying	8/24/2017	13	106	206.0	-48	6.1	21.3	-71	414	658.9	-37	
MU-103	Underlying	9/18/2017	25	101	206.0	-51	5.1	21.3	-76	414	658.9	-37	
MU-103	Underlying	9/28/2017	10	101	206.0	-51	5.4	21.3	-75	418	658.9	-37	
MU-104B	Underlying	7/13/2017	---	100	206.0	-51	5.8	21.3	-73	431	658.9	-35	
MU-104B	Underlying	7/27/2017	14	101	206.0	-51	5.1	21.3	-76	432	658.9	-34	
MU-104B	Underlying	8/11/2017	15	98	206.0	-52	4.9	21.3	-77	424	658.9	-36	
MU-104B	Underlying	8/24/2017	13	99	206.0	-52	5.1	21.3	-76	428	658.9	-35	
MU-104B	Underlying	9/18/2017	25	102	206.0	-50	5.7	21.3	-73	438	658.9	-34	
MU-104B	Underlying	9/28/2017	10	99	206.0	-52	4.8	21.3	-78	431	658.9	-35	

**Attachment 4a: MU1 Water Quality Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
MU-105	Underlying	7/13/2017	---	105	206.0	-49	5.5	21.3	-74	438	658.9	-34	
MU-105	Underlying	7/27/2017	14	103	206.0	-50	5.5	21.3	-74	434	658.9	-34	
MU-105	Underlying	8/11/2017	15	105	206.0	-49	5.7	21.3	-73	430	658.9	-35	
MU-105	Underlying	8/25/2017	14	102	206.0	-51	5.0	21.3	-77	436	658.9	-34	
MU-105	Underlying	9/18/2017	24	103	206.0	-50	6.0	21.3	-72	446	658.9	-32	
MU-105	Underlying	9/28/2017	10	105	206.0	-49	4.9	21.3	-77	439	658.9	-33	
MU-106	Underlying	7/13/2017	---	108	206.0	-48	6.3	21.3	-70	449	658.9	-32	
MU-106	Underlying	7/28/2017	15	106	206.0	-48	5.4	21.3	-75	446	658.9	-32	
MU-106	Underlying	8/11/2017	14	104	206.0	-50	5.2	21.3	-75	446	658.9	-32	
MU-106	Underlying	8/25/2017	14	105	206.0	-49	6.2	21.3	-71	447	658.9	-32	
MU-106	Underlying	9/18/2017	24	100	206.0	-51	5.8	21.3	-73	457	658.9	-31	
MU-106	Underlying	9/28/2017	10	105	206.0	-49	5.4	21.3	-75	456	658.9	-31	
MU-107	Underlying	7/13/2017	---	104	206.0	-50	5.8	21.3	-73	472	658.9	-28	
MU-107	Underlying	7/28/2017	15	105	206.0	-49	5.9	21.3	-72	473	658.9	-28	
MU-107	Underlying	8/14/2017	17	101	206.0	-51	5.7	21.3	-73	470	658.9	-29	
MU-107	Underlying	8/25/2017	11	103	206.0	-50	5.1	21.3	-76	469	658.9	-29	
MU-107	Underlying	9/18/2017	24	103	206.0	-50	6.2	21.3	-71	476	658.9	-28	
MU-107	Underlying	9/28/2017	10	100	206.0	-51	5.9	21.3	-72	473	658.9	-28	
KPW-2	Underlying	7/13/2017	---	130	206.0	-37	17.9	21.3	-16	596	658.9	-10	
KPW-2	Underlying	7/28/2017	15	119	206.0	-42	12.6	21.3	-41	565	658.9	-14	
KPW-2	Underlying	8/14/2017	17	131	206.0	-37	15.4	21.3	-27	604	658.9	-8	
KPW-2	Underlying	8/25/2017	11	123	206.0	-40	14.1	21.3	-34	572	658.9	-13	
KPW-2	Underlying	9/18/2017	24	130	206.0	-37	14.7	21.3	-31	597	658.9	-9	
KPW-2	Underlying	9/28/2017	10	144	206.0	-30	19.2	21.3	-10	662	658.9	0	
MU-109	Underlying	7/13/2017	---	124	206.0	-40	13.3	21.3	-38	545	658.9	-17	
MU-109	Underlying	7/28/2017	15	124	206.0	-40	11.1	21.3	-48	525	658.9	-20	
MU-109	Underlying	8/14/2017	17	117	206.0	-43	11.7	21.3	-45	540	658.9	-18	
MU-109	Underlying	8/25/2017	11	119	206.0	-42	10.9	21.3	-49	530	658.9	-20	
MU-109	Underlying	9/18/2017	24	125	206.0	-39	14.1	21.3	-34	539	658.9	-18	
MU-109	Underlying	9/29/2017	11	118	206.0	-43	12.7	21.3	-40	535	658.9	-19	
MU-110	Underlying	7/13/2017	---	100	206.0	-52	6.4	21.3	-70	470	658.9	-29	
MU-110	Underlying	7/28/2017	15	96	206.0	-53	6.9	21.3	-68	471	658.9	-29	
MU-110	Underlying	8/14/2017	17	95	206.0	-54	6.4	21.3	-70	468	658.9	-29	
MU-110	Underlying	8/28/2017	14	96	206.0	-54	6.3	21.3	-70	464	658.9	-30	
MU-110	Underlying	9/18/2017	21	98	206.0	-53	7.3	21.3	-66	463	658.9	-30	
MU-110	Underlying	9/27/2017	9	97	206.0	-53	6.2	21.3	-71	466	658.9	-29	
MU-111	Underlying	7/14/2017	---	102	206.0	-51	5.8	21.3	-73	508	658.9	-23	
MU-111	Underlying	7/28/2017	14	98	206.0	-53	5.4	21.3	-75	509	658.9	-23	
MU-111	Underlying	8/14/2017	17	99	206.0	-52	6.0	21.3	-72	521	658.9	-21	
MU-111	Underlying	8/28/2017	14	98	206.0	-52	7.1	21.3	-67	506	658.9	-23	
MU-111	Underlying	9/18/2017	21	96	206.0	-53	5.6	21.3	-74	504	658.9	-24	
MU-111	Underlying	9/27/2017	9	100	206.0	-52	5.9	21.3	-72	508	658.9	-23	
MU-112	Underlying	7/14/2017	---	97	206.0	-53	5.8	21.3	-73	453	658.9	-31	
MU-112	Underlying	7/28/2017	14	101	206.0	-51	5.3	21.3	-75	452	658.9	-31	
MU-112	Underlying	8/14/2017	17	97	206.0	-53	4.8	21.3	-77	447	658.9	-32	
MU-112	Underlying	8/28/2017	14	98	206.0	-52	5.6	21.3	-74	451	658.9	-32	
MU-112	Underlying	9/19/2017	22	96	206.0	-54	6.0	21.3	-72	447	658.9	-32	
MU-112	Underlying	9/27/2017	8	97	206.0	-53	5.6	21.3	-74	450	658.9	-32	
MU-113	Underlying	7/14/2017	---	96	206.0	-53	6.2	21.3	-71	484	658.9	-27	
MU-113	Underlying	7/28/2017	14	98	206.0	-53	5.6	21.3	-73	484	658.9	-27	
MU-113	Underlying	8/14/2017	17	94	206.0	-54	5.9	21.3	-72	480	658.9	-27	
MU-113	Underlying	8/28/2017	14	95	206.0	-54	5.3	21.3	-75	481	658.9	-27	
MU-113	Underlying	9/19/2017	22	94	206.0	-54	5.6	21.3	-73	478	658.9	-27	
MU-113	Underlying	9/27/2017	8	94	206.0	-54	5.1	21.3	-76	487	658.9	-26	
LC29M	Regional DE	10/7/2017	---	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficient water
MB-10	Regional DE	10/7/2017	---	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficient water

UCL : Upper Control Limit

[†] : UCL determined by well group (see Permit to Mine, Mine Unit 1 Report, Table MU1 4-12)

Italics (yellow highlight) : Indicates warning when result is > UCL but < 120% of UCL

Bold Italics (red highlight) : Indicates one value > 120% of UCL; or 2 or 3 values > UCL

**Attachment 4b: MU2 Water Quality Data
3rd Quarter 2017
Lost Creek ISR Project PT788**

Well ID	Well Type	Collection Date	Days Apart	Alkalinity (mg/L)			Chloride (mg/L)			Specific Conductance @ 25°C (µS/cm)			Comments
				Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	Assay	UCL [†]	% Diff	
M-201	Ring	9/8/2017	---	97	190	-49	4.5	20.1	-78	463	870	-47	
M-201	Ring	9/21/2017	13	99	190	-48	6.1	20.1	-70	464	870	-47	
M-202	Ring	9/8/2017	---	56	190	-71	5.4	20.1	-73	355	870	-59	
M-202	Ring	9/21/2017	13	75	190	-60	5.0	20.1	-75	420	870	-52	
M-229	Ring	9/8/2017	---	101	190	-47	5.6	20.1	-72	516	870	-41	
M-229	Ring	9/21/2017	13	97	190	-49	6.2	20.1	-69	511	870	-41	
M-230	Ring	9/8/2017	---	100	190	-48	5.2	20.1	-74	517	870	-41	
M-230	Ring	9/21/2017	13	103	190	-46	5.9	20.1	-71	532	870	-39	
M-231A	Ring	9/8/2017	---	100	190	-47	5.7	20.1	-72	551	870	-37	
M-231A	Ring	9/21/2017	13	110	190	-42	5.7	20.1	-72	560	870	-36	
M-FG213	Overlying	9/8/2017	---	107	186	-43	6.2	20.3	-70	403	587	-31	
M-FG213	Overlying	9/20/2017	12	116	186	-38	5.6	20.3	-73	419	587	-29	
M-FG214	Overlying	9/8/2017	---	100	186	-46	5.1	20.3	-75	375	587	-36	
M-FG214	Overlying	9/20/2017	12	103	186	-45	5.3	20.3	-74	380	587	-35	
M-FG215	Overlying	9/8/2017	---	94	186	-50	6.0	20.3	-71	400	587	-32	
M-FG215	Overlying	9/20/2017	12	100	186	-46	6.0	20.3	-70	397	587	-32	
M-KM213	Underlying	9/8/2017	---	40	141	-72	4.5	20.0	-78	407	592	-31	
M-KM213	Underlying	9/20/2017	12	73	141	-48	5.1	20.0	-74	481	592	-19	
M-KM214	Underlying	9/8/2017	---	100	141	-29	5.1	20.0	-75	512	592	-14	
M-KM214	Underlying	9/20/2017	12	104	141	-27	6.0	20.0	-70	520	592	-12	
M-KM215	Underlying	9/8/2017	---	97	141	-31	5.3	20.0	-73	470	592	-21	
M-KM215	Underlying	9/20/2017	12	98	141	-30	5.4	20.0	-73	480	592	-19	
M-HJ226	Interim Ring	9/8/2017	---	105	n/a	n/a	5.1	n/a	n/a	525	n/a	n/a	
M-HJ226	Interim Ring	9/20/2017	12	102	n/a	n/a	6.0	n/a	n/a	523	n/a	n/a	
M-HJ211	Interim Ring	9/8/2017	---	79	n/a	n/a	5.6	n/a	n/a	541	n/a	n/a	
M-HJ211	Interim Ring	9/20/2017	12	32	n/a	n/a	5.5	n/a	n/a	413	n/a	n/a	
M-HJ232	Interim Ring	9/8/2017	---	86	n/a	n/a	5.4	n/a	n/a	506	n/a	n/a	
M-HJ232	Interim Ring	9/20/2017	12	98	n/a	n/a	5.3	n/a	n/a	517	n/a	n/a	
M-HJ233	Interim Ring	9/8/2017	---	83	n/a	n/a	4.4	n/a	n/a	422	n/a	n/a	
M-HJ233	Interim Ring	9/20/2017	12	87	n/a	n/a	5.5	n/a	n/a	458	n/a	n/a	

UCL : Upper Control Limit

[†] : UCL determined by well group (see Permit to Mine, Mine Unit 1 Report, Table MU1 4-12)

Italics (yellow highlight) : Indicates warning when result is > UCL but < 120% of UCL

Bold Italics (red highlight) : Indicates one value > 120% of UCL; or 2 or 3 values > UCL

Attachment 4: MU1 Water Quality Data - QC
3rd Quarter 2017
Lost Creek ISR Project PT788

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	7/11/2017	Duplicate	M-117	109	106	2	6.1	6.8	11	496	493	1
M-129	7/26/2017	Duplicate	M-118	107	99	9	5.1	6.2	19	506	497	2
M-129	8/14/2017	Duplicate	M-118	99	101	1	4.9	5.6	13	503	499	1
M-129	8/23/2017	Duplicate	M-122	110	113	3	5.7	5.2	9	499	500	0
M-129	9/13/2017	Duplicate	M-121	109	110	1	5.3	5.1	3	512	504	2
M-129	9/26/2017	Duplicate	M-117	107	101	N/A	6.4	6.2	3	486	489	1
M-130	7/11/2017	Blank	N/A	1	N/A	N/A	0.0	N/A	N/A	2	N/A	N/A
M-130	7/26/2017	Blank	N/A	2	N/A	N/A	0.0	N/A	N/A	5	N/A	N/A
M-130	8/14/2017	Blank	N/A	2	N/A	N/A	0.0	N/A	N/A	5	N/A	N/A
M-130	8/23/2017	Blank	N/A	8	N/A	N/A	0.0	N/A	N/A	21	N/A	N/A
M-130	9/13/2017	Blank	N/A	6	N/A	N/A	0.0	N/A	N/A	17	N/A	N/A
M-130	9/26/2017	Blank	N/A	12	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
M-131	7/11/2017	Duplicate	M-118	99	101	2	6.9	6.3	9	504	503	0
M-131	7/26/2017	Duplicate	M-119	119	116	3	5.4	6.5	18	462	453	2
M-131	8/14/2017	Duplicate	M-119	114	116	2	5.7	5.4	5	457	455	0
M-131	8/23/2017	Duplicate	M-123	119	116	2	5.2	5.8	11	492	493	0
M-131	9/13/2017	Duplicate	M-122	114	108	5	4.9	5.8	17	495	493	0
M-131	9/26/2017	Duplicate	M-119	111	118	6	6.1	5.6	8	461	457	1
M-132	7/11/2017	Blank	N/A	6	N/A	N/A	0.0	N/A	N/A	18	N/A	N/A
M-132	7/26/2017	Blank	N/A	3	N/A	N/A	0.0	N/A	N/A	6	N/A	N/A
M-132	8/14/2017	Blank	N/A	4	N/A	N/A	0.0	N/A	N/A	6	N/A	N/A
M-132	8/23/2017	Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	22	N/A	N/A
M-132	9/13/2017	Blank	N/A	5	N/A	N/A	0.0	N/A	N/A	17	N/A	N/A
M-132	9/26/2017	Blank	N/A	4	N/A	N/A	0.0	N/A	N/A	11	N/A	N/A
MO-121	7/13/2017	Duplicate	MO-106	102	102	0	5.8	6.3	9	467	466	0
MO-121	7/28/2017	Duplicate	MO-109	108	110	2	8.0	9.3	15	509	505	1
MO-121	8/14/2017	Duplicate	MO-109	107	110	3	7.2	7.2	0	503	503	0
MO-121	8/25/2017	Duplicate	KPW2	123	123	0	13.7	14.1	3	582	572	2
MO-121	9/18/2017	Duplicate	KPW2	134	130	3	16.8	14.7	13	606	597	1
MO-121	9/27/2017	Duplicate	MU-101	113	121	7	5.5	5.2	7	543	541	0
MO-122	7/13/2017	Blank	N/A	1	N/A	N/A	0.0	N/A	N/A	2	N/A	N/A
MO-122	7/28/2017	Blank	N/A	5	N/A	N/A	0.0	N/A	N/A	12	N/A	N/A
MO-122	8/14/2017	Blank	N/A	2	N/A	N/A	0.0	N/A	N/A	2	N/A	N/A
MO-122	8/28/2017	Blank	N/A	1	N/A	N/A	0.0	N/A	N/A	1	N/A	N/A
MO-122	9/18/2017	Blank	N/A	8	N/A	N/A	0.0	N/A	N/A	25	N/A	N/A
MO-122	9/27/2017	Blank	N/A	6	N/A	N/A	0.0	N/A	N/A	13	N/A	N/A
MU-123	7/13/2017	Duplicate	MU-106	116	108	8	5.2	6.3	20	450	449	0
MU-123	7/28/2017	Duplicate	MU-110	101	96	5	6.4	6.9	7	470	471	0
MU-123	8/14/2017	Duplicate	MO-110	100	99	2	5.8	6.2	6	431	427	1
MU-123	8/25/2017	Duplicate	MO-109	110	108	1	8.2	7.4	11	508	505	1
MU-123	9/18/2017	Duplicate	MO-109	109	112	3	7.4	8.3	12	503	500	1
MU-123	9/27/2017	Duplicate	MO-102	101	103	2	7.5	7.8	4	594	589	1
MU-124	7/13/2017	Blank	N/A	7	N/A	N/A	0.0	N/A	N/A	20	N/A	N/A
MU-124	7/28/2017	Blank	N/A	1	N/A	N/A	0.0	N/A	N/A	2	N/A	N/A
MU-124	8/14/2017	Blank	N/A	1	N/A	N/A	0.0	N/A	N/A	3	N/A	N/A
MU-124	8/28/2017	Blank	N/A	6	N/A	N/A	0.0	N/A	N/A	18	N/A	N/A
MU-124	9/18/2017	Blank	N/A	2	N/A	N/A	0.0	N/A	N/A	4	N/A	N/A
MU-124	9/27/2017	Blank	N/A	10	N/A	N/A	0.0	N/A	N/A	28	N/A	N/A
M-232	9/20/2017	Duplicate	M-202	75	75	1	5.5	5.0	10	421	420	0
M-233	9/20/2017	Blank	N/A	2	N/A	N/A	0.0	N/A	N/A	5	N/A	N/A
M-234	9/20/2017	Duplicate	M-201	98	99	1	4.5	6.1	31	468	464	1
M-235	9/20/2017	Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	27	N/A	N/A
M-FG232	9/8/2017	Duplicate	M-KM213	51	40	24	5.7	4.5	25	426	407	5
M-FG232	9/20/2017	Duplicate	M-FG213	104	116	11	4.5	5.6	22	420	419	0
M-FG233	9/8/2017	Blank	N/A	2	N/A	N/A	0.0	N/A	N/A	0	N/A	N/A
M-FG233	9/20/2017	Blank	N/A	11	N/A	N/A	0.0	N/A	N/A	29	N/A	N/A
M-KM230	9/8/2017	Duplicate	M-FG213	103	107	4	6.5	6.2	5	411	403	2
M-KM230	9/20/2017	Duplicate	M-FG215	102	100	1	4.6	6.0	27	395	397	1
M-KM231	9/8/2017	Blank	N/A	3	N/A	N/A	0.0	N/A	N/A	13	N/A	N/A
M-KM231	9/20/2017	Blank	N/A	2	N/A	N/A	0.0	N/A	N/A	5	N/A	N/A

RPD: Relative Percent Difference