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**UIC CLASS I QUARTERLY REPORT  
for the  
LOST CREEK ISR PROJECT  
1st Quarter 2017**



**LOST CREEK ISR, LLC  
SWEETWATER COUNTY, WY**

**UIC PERMIT 13-409**

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**Prepared by Ur-Energy for  
Wyoming Department of Environmental Quality -  
Water Quality Division – Underground Injection Control**

**April 28, 2017**



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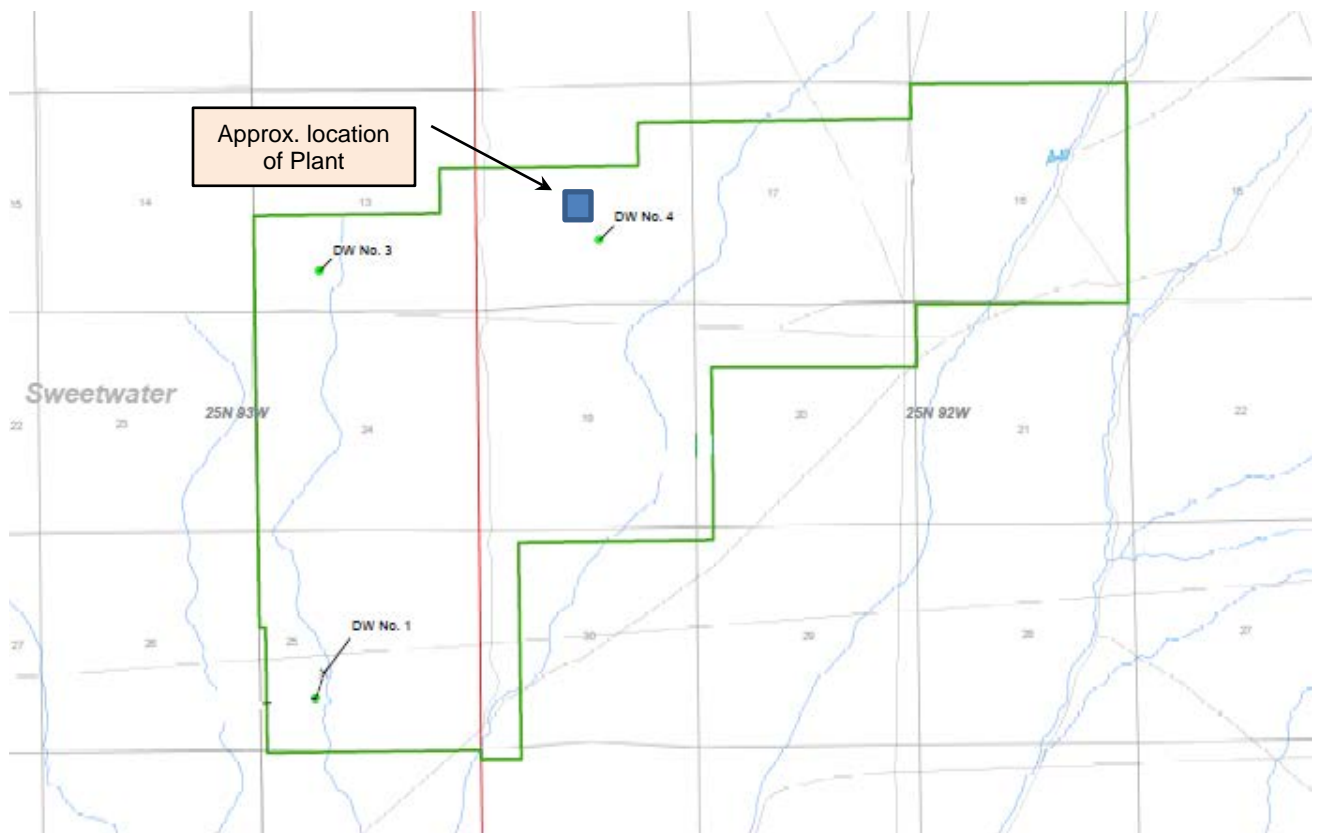


## 1.0 Introduction

The period covered by this report is the first calendar quarter of 2017 from January 1 to March 31, 2017.

Three Class I disposal wells were operational during the reporting period: LC DW No. 1 (“DDW-1”), LC DW No. 3 (“DDW-3”), and LC DW No. 4 (“DDW-4”). Well locations (labeled) are shown below in relation to the Permit to Mine boundary (green line):

**FIGURE 1: Well Locations**



All three wells were operated intermittently during the quarter. Operational data was monitored and recorded electronically and also recorded manually by operator each shift.

As per permit requirements, the following elements from Section K(6) of the UIC Permit have been included in this report:

- a. Minimum, volume-weighted average, and maximum instantaneous injection rates for each well for each month*
- b. Minimum, average, and maximum daily injection pressures for each well for each month*



- c. Total injection volume in barrels (bbl) for each well for each month, total for the quarter, and cumulative volume of waste injected to date.*
- d. Maximum and minimum annulus pressures for each month with alarm/kill pressure value*
- e. Quarterly analytical results*
- f. Permit exceedances during the quarter*
- g. Any alarms or shutdowns and corrective actions*
- h. Summary of well tests or workovers*

## 2.0 Summary Data

**Tables 1A, 1B, 1C, and 2** below provide a data summary for above items **a**, **c**, and **d** above. Data for item **b** above is provided in **Appendix 1** including tables and charts of the daily injection pressure values.



**TABLE 1A: Operational Data Summary for DDW-1**

PARAMETER	UNITS	LC DW No. 1			
		January 2017	February 2017	March 2017	Quarterly Total/Avg/Min/Max
Operation Time	min	43,576	31,358	29,758	34,897
% Run Time	%	98%	78%	67%	81%
Injection Rate Minimum Instantaneous	gpm	0	0	0	0
Injection Rate Average (TWA)	gpm	0.3	1.4	1.5	1.1
Injection Rate Maximum Instantaneous	gpm	2.4	1.6	2.3	2.4
Injection Rate Maximum Permit Limit	gpm	<b>50</b>			<b>50</b>
Injection Pressure Daily Minimum	psig	491	434	334	334
Injection Pressure Daily Average	psig	565	542	527	545
Injection Pressure Daily Maximum	psig	592	596	587	596
Injection Pressure Permit Limit (LSIP)	psig	<b>609</b>			<b>609</b>
Injection Pressure Automatic Kill	psig	<b>600</b>			<b>600</b>
Injection Volume	gal	12,492	43,802	45,803	102,097
Injection Volume	bbl	297	1,043	1,091	2,431
Annulus Pressure Minimum	psig	248	291	315	248
Annulus Pressure Average	psig	286	315	362	321
Annulus Pressure Maximum	psig	298	329	378	378
Annulus Pressure Permit Limit	psig	<b>200-800</b>			<b>200-800</b>
Annulus Pressure Automatic Kill	psig	N/A			N/A



**TABLE 1B: Operational Data Summary for DDW-3**

PARAMETER	UNITS	LC DW No. 3			
		January 2017	February 2017	March 2017	Quarterly Total/Avg/Min/Max
Operation Time	min	35,530	36,247	42,279	114,056
% Run Time	%	80%	90%	95%	88%
Injection Rate Minimum Instantaneous	gpm	0	0	0	0
Injection Rate Average (TWA)	gpm	9	7	7	7
Injection Rate Maximum Instantaneous	gpm	16	18	15	18
Injection Rate Maximum Permit Limit	gpm	<b>50</b>			<b>50</b>
Injection Pressure Daily Minimum	psig	767	776	721	721
Injection Pressure Daily Average	psig	846	838	839	841
Injection Pressure Daily Maximum	psig	902	895	885	902
Injection Pressure Permit Limit (LSIP)	psig	<b>915</b>			<b>915</b>
Injection Pressure Automatic Kill	psig	<b>910</b>			<b>910</b>
Injection Volume	gal	305,672	251,877	279,778	837,327
Injection Volume	bbl	7,278	5,997	6,661	19,936
Annulus Pressure Minimum	psig	259	260	264	259
Annulus Pressure Average	psig	268	272	270	270
Annulus Pressure Maximum	psig	280	281	278	281
Annulus Pressure Permit Limit	psig	<b>200-800</b>			<b>200-800</b>
Annulus Pressure Automatic Kill	psig	N/A			N/A



**TABLE 1C: Operational Data Summary for DDW-4**

PARAMETER	UNITS	LC DW No. 4			
		January 2017	February 2017	March 2017	Quarterly Total/Avg/Min/Max
Operation Time	min	41606	36,482	42,204	120,297
% Run Time	%	93%	90%	95%	93%
Injection Rate Minimum Instantaneous	gpm	0	0	0	0
Injection Rate Average (TWA)	gpm	8	8	8	8
Injection Rate Maximum Instantaneous	gpm	21	23	8	23
Injection Rate Maximum Permit Limit	gpm	50			50
Injection Pressure Daily Minimum	psig	597	645	615	597
Injection Pressure Daily Average	psig	733	752	737	740
Injection Pressure Daily Maximum	psig	781	801	780	801
Injection Pressure Permit Limit (LSIP)	psig	838			838
Injection Pressure Automatic Kill	psig	830			830
Injection Volume	gal	312,043	291,890	337,018	966,503
Injection Volume	bbl	7,430	6,950	8,024	23,012
Annulus Pressure Minimum	psig	287	290	287	287
Annulus Pressure Average	psig	294	298	294	296
Annulus Pressure Maximum	psig	307	306	307	307
Annulus Pressure Permit Limit	psig	200-800			200-800
Annulus Pressure Automatic Kill	psig	N/A			N/A

**TABLE 2: Cumulative Injection Volumes to Date**

TIME PERIOD	UNITS	LC DW No. 1	LC DW No. 3	LC DW No. 4
2013	bbl	14,625	N/A	6,471
2014	bbl	31,278	8,239	164,694
2015	bbl	14,966	130,113	105,999
2016	bbl	9,300	95,653	107,254
2017Q1	bbl	2,431	19,936	22,367
<b>CUMULATIVE TOTAL TO DATE</b>	<b>bbl</b>	<b>72,600</b>	<b>253,941</b>	<b>406,786</b>



### 3.0 Analytical Results

A quarterly grab sample of the injectate was collected from the Plant waste water line upstream of the branch points to each individual well. Sample parameters pH, conductivity, and temperature were measured with a field meter at the sampling site or in the onsite lab and other applicable parameters were analyzed by Energy Laboratories in Casper, WY. Results of the sample analyses are summarized in **Table 3** below and the associated lab report is included as **Appendix 2**.

**TABLE 3: Analytical Results Summary**

Sample ID: DDW-Injectate			
Sample Date: 3/9/2017			
Lab Analyte or Parameter	Method Used	Results	Units
pH, field	SM4500-H*B	6.62	s.u.
Specific Cond. at 25°C, field	120.1	14,890	uS/cm
Temperature, field	SM2550B	14.0	°C
Specific Gravity	n/a	1.007	---
Total Dissolved Solids	SM2540C	9,210	mg/L
Bicarbonate	SM2320B	680	mg/L
Carbonate	SM2320B	ND(5)	mg/L
Chloride, total	300.0	4,560	mg/L
Sulfate, total	300.0	830	mg/L
Sulfide (as hydrogen sulfide)	A4500-S F	3	mg/L
Arsenic, dissolved	200.8	0.002	mg/L
Selenium, dissolved	200.8	0.265	mg/L
Vanadium, dissolved	200.8	ND(0.01)	mg/L
Uranium, total	200.7	6.26	mg/L
Radium-226, total	E903.0	1,270	pCi/L

The only constituent with a defined Permit limit is pH which must have a value between 2.0 and 12.5. The measured value for pH of 6.62 was within the limit.

### 4.0 Permit Exceedances

No exceedances occurred during the quarter (**Table 4**).





**TABLE 4: Summary of Exceedances**

Event	Well	Date	Limit Exceeded	Peak Value	Permit Limit	Comment
No exceedances occurred during the quarter						

## 5.0 Alarms, Shut-Downs, and Corrective Actions

Well DDW-4 was shut down for a pressure switch repair in February. Nominal shutdowns occurred automatically due to pressure settings or due to maintenance activity such as changing inline filters or program changes. Intermittent operation of the injection systems is typical.

Maintenance activities completed during the quarter included:

- Routine pump oil and filter changes at all wells
- Pressure switch (shunt trip) was rewired for DDW-4 following failed pressure test. Well was shut off and locked out during the repair and the wiring was replaced for the sensor. Well was retested and proper function of automatic shutoff was verified.

Testing of the pressure switches to verify operation of automatic shutdown and pressures occurred in February and March. Results of the testing are summarized on **Table 5**:

**TABLE 5: Summary of Automatic Pressure Shutoff Testing**

Well	Permit Pressure Limit (psi)	Test Date	Digital Shutoff Set To (psi)	Digital Shutoff Function	Well Shutoff by Analog Pressure Switch At (psi)	Analog Pressure Switch Function	Comments
DDW-1	609	2/16/2017	600	Pass	604	Pass	
DDW-1	609	3/29/2017	600	Pass	604	Pass	
DDW-3	915	2/16/2017	900	Pass	911	Pass	
DDW-3	915	3/29/2017	900	Pass	911	Pass	
DDW-4	838	2/16/2017	810	Pass	N/A	Fail	Shutoff manually at 828 psi
DDW-4	838	2/17/2017	810	Pass	826	Pass	Retest after repair
DDW-4	838	3/29/2017	810	Pass	829	Pass	



## 6.0 Summary of Well Tests or Workovers

No well tests or workovers occurred during the quarter.



## APPENDIX 1

**APPENDIX 1: Daily Injection Pressures  
DDW-1 1st Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
1/1/2017	535	555	573	600	609	
1/2/2017	532	539	551	600	609	
1/3/2017	549	562	570	600	609	
1/4/2017	569	576	586	600	609	
1/5/2017	585	588	589	600	609	
1/6/2017	582	588	590	600	609	
1/7/2017	521	553	584	600	609	
1/8/2017	521	525	531	600	609	
1/9/2017	529	555	579	600	609	
1/10/2017	558	580	584	600	609	
1/11/2017	582	585	587	600	609	
1/12/2017	585	588	592	600	609	
1/13/2017	574	580	589	600	609	
1/14/2017	570	577	579	600	609	
1/15/2017	532	550	572	600	609	
1/16/2017	523	527	533	600	609	
1/17/2017	512	542	567	600	609	
1/18/2017	567	576	578	600	609	
1/19/2017	531	558	578	600	609	
1/20/2017	568	575	579	600	609	
1/21/2017	524	546	571	600	609	
1/22/2017	491	519	536	600	609	
1/23/2017	535	548	551	600	609	
1/24/2017	550	550	550	600	609	
1/25/2017	550	550	550	600	609	
1/26/2017	497	542	552	600	609	
1/27/2017	543	551	556	600	609	
1/28/2017	543	556	569	600	609	
1/29/2017	544	567	573	600	609	
1/30/2017	555	567	573	600	609	
1/31/2017	540	546	558	600	609	
2/1/2017	555	567	578	600	609	
2/2/2017	575	585	593	600	609	
2/3/2017	558	586	596	600	609	
2/4/2017	567	591	596	600	609	
2/5/2017	583	591	596	600	609	
2/6/2017	571	576	586	600	609	
2/7/2017	556	578	592	600	609	
2/8/2017	505	539	591	600	609	
2/9/2017	495	532	565	600	609	
2/10/2017	513	540	562	600	609	
2/11/2017	476	492	516	600	609	

**APPENDIX 1: Daily Injection Pressures  
DDW-1 1st Quarter 2017  
Lost Creek ISR Project 13-409**

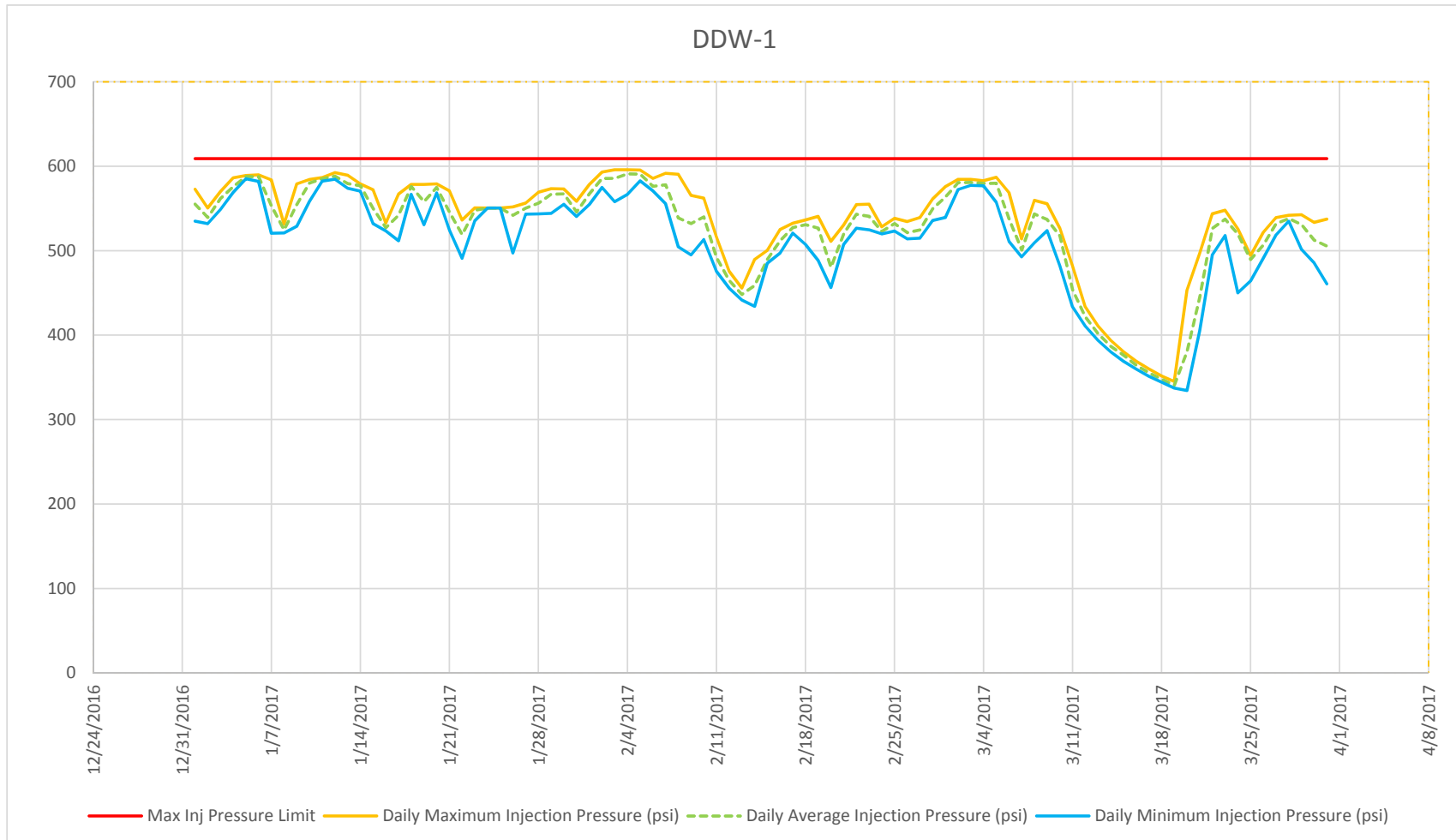
Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
2/12/2017	456	465	476	600	609	
2/13/2017	442	448	456	600	609	
2/14/2017	434	459	490	600	609	
2/15/2017	485	490	500	600	609	
2/16/2017	497	512	525	600	609	
2/17/2017	521	527	532	600	609	
2/18/2017	507	531	536	600	609	
2/19/2017	488	527	541	600	609	
2/20/2017	456	480	511	600	609	
2/21/2017	507	520	530	600	609	
2/22/2017	527	543	555	600	609	
2/23/2017	525	541	555	600	609	
2/24/2017	520	523	528	600	609	
2/25/2017	523	532	538	600	609	
2/26/2017	514	521	535	600	609	
2/27/2017	515	525	539	600	609	
2/28/2017	536	550	561	600	609	
3/1/2017	539	564	576	600	609	
3/2/2017	572	581	585	600	609	
3/3/2017	577	581	585	600	609	
3/4/2017	577	580	583	600	609	
3/5/2017	557	580	587	600	609	
3/6/2017	511	538	569	600	609	
3/7/2017	493	501	514	600	609	
3/8/2017	509	544	560	600	609	
3/9/2017	524	537	556	600	609	
3/10/2017	482	518	526	600	609	
3/11/2017	434	454	482	600	609	
3/12/2017	411	422	434	600	609	
3/13/2017	394	402	411	600	609	
3/14/2017	380	387	394	600	609	
3/15/2017	369	377	381	600	609	
3/16/2017	360	364	369	600	609	
3/17/2017	351	356	360	600	609	
3/18/2017	344	348	352	600	609	
3/19/2017	337	341	345	600	609	
3/20/2017	334	381	453	600	609	
3/21/2017	405	445	497	600	609	
3/22/2017	495	526	544	600	609	
3/23/2017	518	537	548	600	609	
3/24/2017	450	520	526	600	609	
3/25/2017	464	490	494	600	609	

**APPENDIX 1: Daily Injection Pressures  
DDW-1 1st Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
3/26/2017	491	507	522	600	609	
3/27/2017	519	532	539	600	609	
3/28/2017	535	538	542	600	609	
3/29/2017	501	531	543	600	609	
3/30/2017	486	513	533	600	609	
3/31/2017	461	505	537	600	609	

*psi: pounds per square inch*

APPENDIX 1: Daily Injection Pressures  
DDW-1 1st Quarter 2017  
Lost Creek ISR Project 13-409



**APPENDIX 1: Daily Injection Pressures  
DDW-3 1st Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
1/1/2017	846	870	880	900	915	
1/2/2017	820	850	885	900	915	
1/3/2017	838	864	881	900	915	
1/4/2017	834	858	889	900	915	
1/5/2017	779	803	855	900	915	
1/6/2017	824	845	900	900	915	
1/7/2017	839	858	893	900	915	
1/8/2017	846	867	885	900	915	
1/9/2017	845	865	902	900	915	
1/10/2017	843	862	892	900	915	
1/11/2017	808	849	900	900	915	
1/12/2017	841	857	878	900	915	
1/13/2017	797	814	856	900	915	
1/14/2017	792	819	853	900	915	
1/15/2017	838	861	898	900	915	
1/16/2017	847	862	881	900	915	
1/17/2017	853	871	880	900	915	
1/18/2017	792	847	878	900	915	
1/19/2017	774	788	813	900	915	
1/20/2017	811	852	874	900	915	
1/21/2017	827	844	873	900	915	
1/22/2017	828	858	888	900	915	
1/23/2017	866	871	873	900	915	
1/24/2017	799	829	871	900	915	
1/25/2017	842	862	870	900	915	
1/26/2017	836	850	866	900	915	
1/27/2017	844	852	867	900	915	
1/28/2017	815	852	869	900	915	
1/29/2017	767	800	853	900	915	
1/30/2017	851	865	874	900	915	
1/31/2017	849	854	861	900	915	
2/1/2017	847	849	852	900	915	
2/2/2017	846	852	860	900	915	
2/3/2017	824	848	865	900	915	
2/4/2017	807	836	851	900	915	
2/5/2017	836	858	886	900	915	
2/6/2017	861	865	876	900	915	
2/7/2017	806	835	877	900	915	
2/8/2017	782	800	815	900	915	
2/9/2017	776	804	857	900	915	
2/10/2017	840	850	859	900	915	
2/11/2017	803	830	878	900	915	



**APPENDIX 1: Daily Injection Pressures  
DDW-3 1st Quarter 2017  
Lost Creek ISR Project 13-409**

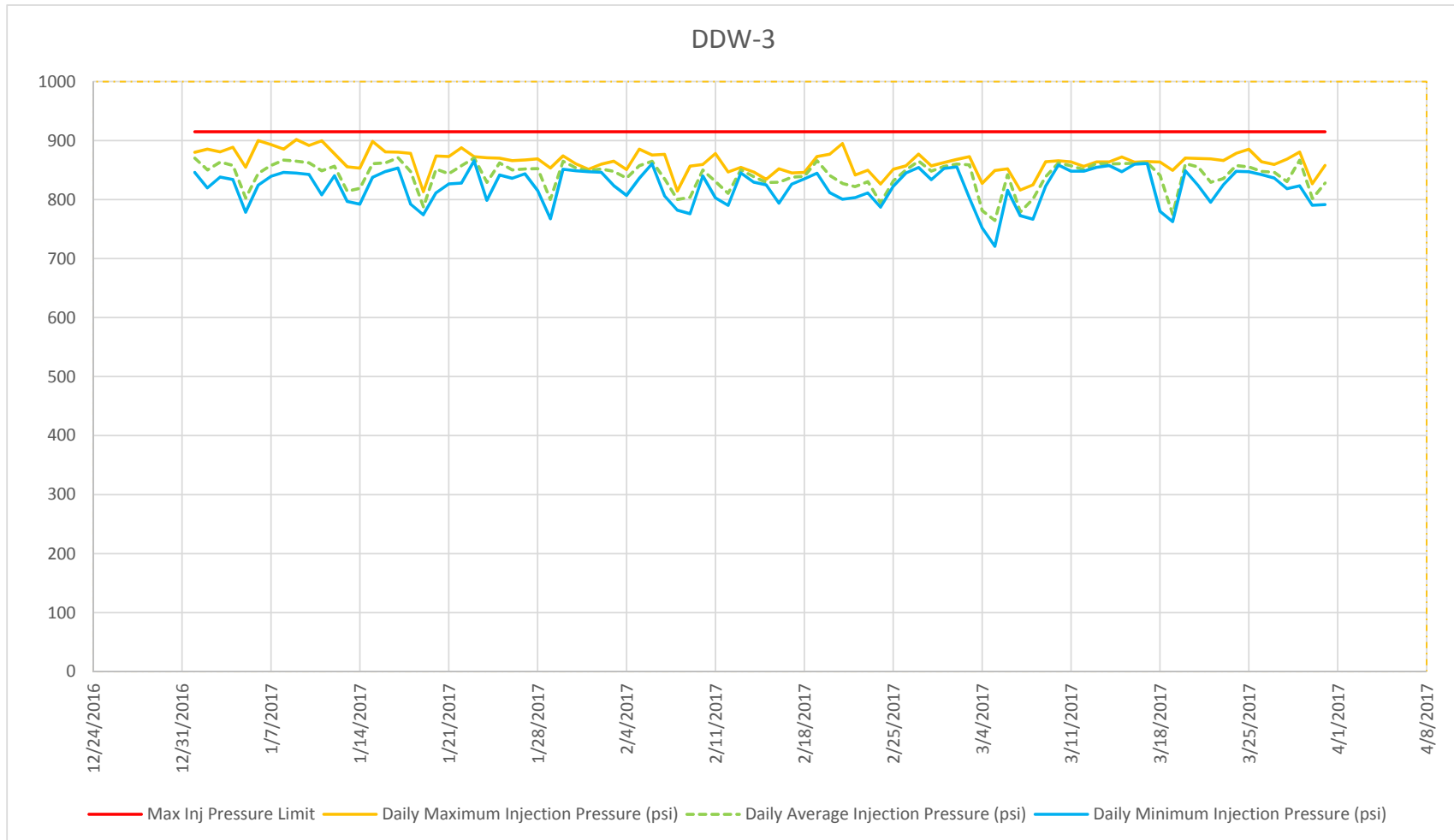
Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Automatic Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
2/12/2017	790	811	847	900	915	
2/13/2017	845	851	855	900	915	
2/14/2017	830	839	847	900	915	
2/15/2017	825	829	834	900	915	
2/16/2017	794	830	852	900	915	
2/17/2017	826	838	845	900	915	
2/18/2017	835	840	846	900	915	
2/19/2017	845	866	873	900	915	
2/20/2017	812	841	877	900	915	
2/21/2017	801	827	895	900	915	
2/22/2017	803	822	842	900	915	
2/23/2017	811	830	850	900	915	
2/24/2017	787	795	826	900	915	
2/25/2017	823	832	851	900	915	
2/26/2017	845	851	857	900	915	
2/27/2017	854	865	877	900	915	
2/28/2017	834	848	857	900	915	
3/1/2017	853	856	863	900	915	
3/2/2017	855	860	868	900	915	
3/3/2017	803	859	873	900	915	
3/4/2017	752	781	827	900	915	
3/5/2017	721	765	849	900	915	
3/6/2017	816	842	852	900	915	
3/7/2017	773	779	816	900	915	
3/8/2017	767	801	825	900	915	
3/9/2017	823	839	864	900	915	
3/10/2017	859	862	866	900	915	
3/11/2017	848	857	864	900	915	
3/12/2017	848	851	856	900	915	
3/13/2017	855	861	864	900	915	
3/14/2017	858	861	864	900	915	
3/15/2017	847	861	872	900	915	
3/16/2017	860	862	863	900	915	
3/17/2017	861	863	865	900	915	
3/18/2017	780	841	864	900	915	
3/19/2017	763	775	850	900	915	
3/20/2017	849	861	870	900	915	
3/21/2017	824	856	870	900	915	
3/22/2017	795	830	869	900	915	
3/23/2017	825	836	866	900	915	
3/24/2017	848	858	878	900	915	
3/25/2017	847	856	885	900	915	

**APPENDIX 1: Daily Injection Pressures  
DDW-3 1st Quarter 2017  
Lost Creek ISR Project 13-409**

<b>Date</b>	<b>Daily Minimum Injection Pressure (psi)</b>	<b>Daily Average Injection Pressure (psi)</b>	<b>Daily Maximum Injection Pressure (psi)</b>	<b>Automatic Shutdown Pressure (psi)</b>	<b>Maximum Injection Pressure Limit (psi)</b>	<b>Comments</b>
3/26/2017	842	848	864	900	915	
3/27/2017	837	846	859	900	915	
3/28/2017	818	831	869	900	915	
3/29/2017	823	867	881	900	915	
3/30/2017	790	802	827	900	915	
3/31/2017	792	828	858	900	915	

*psi: pounds per square inch*

APPENDIX 1: Daily Injection Pressures  
DDW-3 1st Quarter 2017  
Lost Creek ISR Project 13-409



**APPENDIX 1: Daily Injection Pressures  
DDW-4 1st Quarter 2017  
Lost Creek ISR Project 13-409**

Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
1/1/2017	719	728	751	810	838	
1/2/2017	744	754	761	810	838	
1/3/2017	743	753	764	810	838	
1/4/2017	711	747	764	810	838	
1/5/2017	653	678	718	810	838	
1/6/2017	697	729	770	810	838	
1/7/2017	728	763	781	810	838	
1/8/2017	748	759	772	810	838	
1/9/2017	714	757	772	810	838	
1/10/2017	729	759	773	810	838	
1/11/2017	680	731	759	810	838	
1/12/2017	695	737	749	810	838	
1/13/2017	665	685	723	810	838	
1/14/2017	636	681	750	810	838	
1/15/2017	732	749	764	810	838	
1/16/2017	682	725	750	810	838	
1/17/2017	682	742	761	810	838	
1/18/2017	625	690	755	810	838	
1/19/2017	597	667	708	810	838	
1/20/2017	703	734	747	810	838	
1/21/2017	706	715	758	810	838	
1/22/2017	710	759	778	810	838	
1/23/2017	696	749	766	810	838	
1/24/2017	662	727	764	810	838	
1/25/2017	697	738	769	810	838	
1/26/2017	706	738	755	810	838	
1/27/2017	679	720	757	810	838	
1/28/2017	675	721	751	810	838	
1/29/2017	620	692	761	810	838	
1/30/2017	733	768	777	810	838	
1/31/2017	724	762	778	810	838	
2/1/2017	774	781	786	810	838	
2/2/2017	749	776	788	810	838	
2/3/2017	692	738	783	810	838	
2/4/2017	675	739	770	810	838	
2/5/2017	762	781	787	810	838	
2/6/2017	741	780	790	810	838	
2/7/2017	697	732	750	810	838	
2/8/2017	645	691	701	810	838	
2/9/2017	657	737	776	810	838	
2/10/2017	721	754	767	810	838	
2/11/2017	741	769	799	810	838	

**APPENDIX 1: Daily Injection Pressures  
DDW-4 1st Quarter 2017  
Lost Creek ISR Project 13-409**

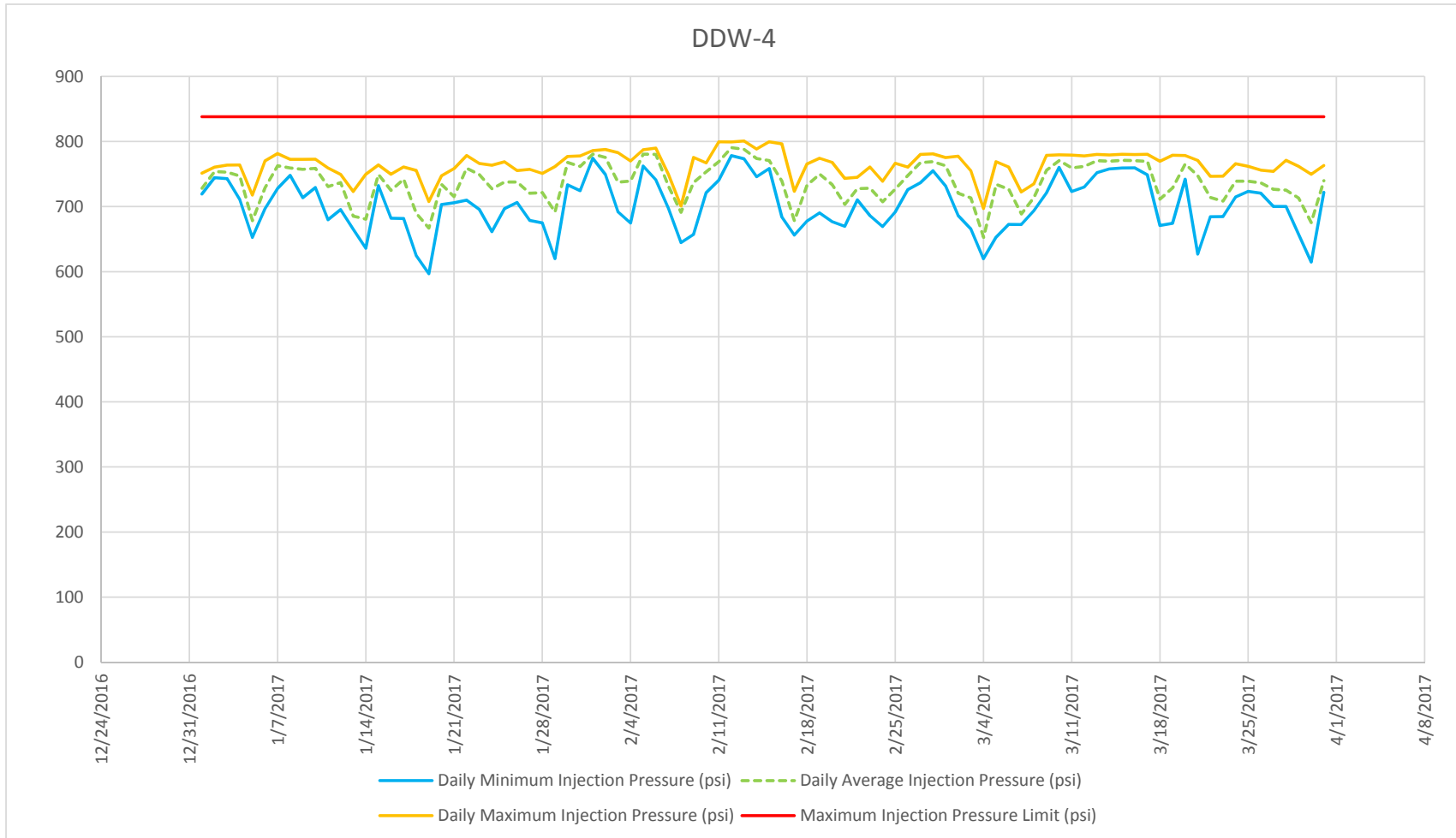
Date	Daily Minimum Injection Pressure (psi)	Daily Average Injection Pressure (psi)	Daily Maximum Injection Pressure (psi)	Shutdown Pressure (psi)	Maximum Injection Pressure Limit (psi)	Comments
2/12/2017	778	791	799	810	838	
2/13/2017	773	788	801	810	838	
2/14/2017	746	774	788	810	838	
2/15/2017	758	771	800	810	838	
2/16/2017	684	739	796	810	838	
2/17/2017	656	678	724	810	838	
2/18/2017	678	733	766	810	838	
2/19/2017	690	750	774	810	838	
2/20/2017	677	734	768	810	838	
2/21/2017	670	704	743	810	838	
2/22/2017	710	728	745	810	838	
2/23/2017	686	728	761	810	838	
2/24/2017	669	708	739	810	838	
2/25/2017	691	727	766	810	838	
2/26/2017	726	748	761	810	838	
2/27/2017	737	768	780	810	838	
2/28/2017	755	769	781	810	838	
3/1/2017	732	763	775	810	838	
3/2/2017	686	721	777	810	838	
3/3/2017	666	713	755	810	838	
3/4/2017	620	653	697	810	838	
3/5/2017	653	734	769	810	838	
3/6/2017	673	727	761	810	838	
3/7/2017	672	689	722	810	838	
3/8/2017	694	714	735	810	838	
3/9/2017	721	756	779	810	838	
3/10/2017	760	771	780	810	838	
3/11/2017	723	759	779	810	838	
3/12/2017	730	762	778	810	838	
3/13/2017	752	771	780	810	838	
3/14/2017	758	770	779	810	838	
3/15/2017	759	771	780	810	838	
3/16/2017	760	771	780	810	838	
3/17/2017	749	770	780	810	838	
3/18/2017	671	711	770	810	838	
3/19/2017	674	729	779	810	838	
3/20/2017	742	765	778	810	838	
3/21/2017	627	747	771	810	838	
3/22/2017	684	714	746	810	838	
3/23/2017	685	709	747	810	838	
3/24/2017	715	739	766	810	838	
3/25/2017	723	739	762	810	838	

**APPENDIX 1: Daily Injection Pressures  
DDW-4 1st Quarter 2017  
Lost Creek ISR Project 13-409**

<b>Date</b>	<b>Daily Minimum Injection Pressure (psi)</b>	<b>Daily Average Injection Pressure (psi)</b>	<b>Daily Maximum Injection Pressure (psi)</b>	<b>Shutdown Pressure (psi)</b>	<b>Maximum Injection Pressure Limit (psi)</b>	<b>Comments</b>
3/26/2017	721	737	756	810	838	
3/27/2017	700	727	754	810	838	
3/28/2017	700	725	771	810	838	
3/29/2017	657	713	762	810	838	
3/30/2017	615	676	750	810	838	
3/31/2017	722	740	763	810	838	

*psi: pounds per square inch*

APPENDIX 1: Daily Injection Pressures  
DDW-4 1st Quarter 2017  
Lost Creek ISR Project 13-409





## APPENDIX 2





# ANALYTICAL SUMMARY REPORT

March 28, 2017

UR Energy USA Inc  
10758 W Centennial Rd Ste 200  
Ken Caryl Ranch, CO 80127

Work Order: C17030340

Project Name: Lost Creek Wastewater

Energy Laboratories, Inc. Casper WY received the following 1 sample for UR Energy USA Inc on 3/10/2017 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C17030340-001	DDW-Injectate	03/09/17 9:30	03/10/17	Aqueous	Metals by ICP/ICPMS, Total Alkalinity Conductivity Specific Gravity Anions by Ion Chromatography pH Metals Preparation by EPA 200.2 Radium 226, Total Solids, Total Dissolved Sulfide, Iodine Titrimetric

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:



**CLIENT:** UR Energy USA Inc  
**Project:** Lost Creek Wastewater  
**Work Order:** C17030340

**Report Date:** 03/28/17

## CASE NARRATIVE

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Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-G were subcontracted to Energy Laboratories, 400 W. Boxelder Rd., Gillette, WY, EPA Number WY00006.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc  
**Project:** Lost Creek Wastewater  
**Lab ID:** C17030340-001  
**Client Sample ID:** DDW-Injectate

**Report Date:** 03/28/17  
**Collection Date:** 03/09/17 09:30  
**Date Received:** 03/10/17  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>MAJOR IONS</b>							
Alkalinity, Total as CaCO3	557	mg/L		5		A2320 B	03/14/17 02:11 / jcg
Carbonate as CO3	ND	mg/L		5		A2320 B	03/14/17 02:11 / jcg
Bicarbonate as HCO3	680	mg/L		5		A2320 B	03/14/17 02:11 / jcg
Chloride	4560	mg/L	D	10		E300.0	03/15/17 20:20 / jcg
Sulfate	830	mg/L	D	40		E300.0	03/15/17 20:20 / jcg
<b>INORGANICS</b>							
Sulfide	3	mg/L		1		A4500-S F	03/14/17 10:30 / eli-b
Sulfide as Hydrogen Sulfide (H2S)	3	mg/L		1		A4500-S F	03/14/17 10:30 / eli-b
<b>PHYSICAL PROPERTIES</b>							
Specific Gravity 60/60F	1.007	unitless				D1429	03/15/17 09:11 / eli-g
pH	6.54	s.u.	H	0.01		A4500-H B	03/10/17 14:35 / bah
Solids, Total Dissolved TDS @ 180 C	9210	mg/L	D	90		A2540 C	03/15/17 14:38 / bah
Conductivity @ 25 C	16100	umhos/cm		5		A2510 B	03/10/17 14:35 / bah
<b>METALS, TOTAL</b>							
Arsenic	0.002	mg/L	D	0.002		E200.8	03/15/17 13:25 / eli-b
Selenium	0.265	mg/L	D	0.004		E200.8	03/15/17 13:25 / eli-b
Uranium	6.26	mg/L		0.0003		E200.8	03/15/17 13:25 / eli-b
Vanadium	ND	mg/L		0.01		E200.8	03/15/17 13:25 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	1270	pCi/L				E903.0	03/27/17 08:22 / trs
Radium 226 precision (±)	237	pCi/L				E903.0	03/27/17 08:22 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	03/27/17 08:22 / trs

**Report Definitions:**

RL - Analyte reporting limit.	MCL - Maximum contaminant level.
QCL - Quality control limit.	ND - Not detected at the reporting limit.
MDC - Minimum detectable concentration	D - RL increased due to sample matrix.
H - Analysis performed past recommended holding time.	



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** UR Energy USA Inc  
**Project:** Lost Creek Wastewater

**Report Date:** 03/15/17  
**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: A4500-S F</b>								Batch: ttrsulfide170314A		
<b>Lab ID: MBLK</b>	2	Method Blank						Run: MISC-WC_170314B		03/14/17 10:30
Sulfide		ND	mg/L	0.3						
Sulfide as Hydrogen Sulfide (H2S)		ND	mg/L	0.3						
<b>Lab ID: LCS</b>		Laboratory Control Sample						Run: MISC-WC_170314B		03/14/17 10:30
Sulfide		27.4	mg/L	1.0	100	90	110			
<b>Lab ID: B17030889-001BMS</b>		Sample Matrix Spike						Run: MISC-WC_170314B		03/14/17 10:30
Sulfide		43.6	mg/L	1.0	101	70	130			
<b>Lab ID: B17030889-001BMSD</b>		Sample Matrix Spike Duplicate						Run: MISC-WC_170314B		03/14/17 10:30
Sulfide		43.2	mg/L	1.0	99	70	130	0.9	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** UR Energy USA Inc

**Report Date:** 03/15/17

**Project:** Lost Creek Wastewater

**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method: E200.8</b>							Analytical Run: ICPMS206-B_170315A				
<b>Lab ID: QCS</b>	4	Initial Calibration Verification Standard									03/15/17 10:04
Arsenic		0.0515	mg/L	0.0050	103	90	110				
Selenium		0.0503	mg/L	0.0050	101	90	110				
Uranium		0.0216	mg/L	0.0010	108	90	110				
Vanadium		0.0504	mg/L	0.10	101	90	110				
<b>Method: E200.8</b>							Batch: 107435				
<b>Lab ID: MB-107435</b>	4	Method Blank									03/15/17 11:18
Arsenic		ND	mg/L	0.0002							
Selenium		ND	mg/L	0.0004							
Uranium		ND	mg/L	0.00003							
Vanadium		ND	mg/L	0.00007							
<b>Lab ID: LCS-107435</b>	4	Laboratory Control Sample									03/15/17 12:18
Arsenic		0.464	mg/L	0.0010	93	85	115				
Selenium		0.456	mg/L	0.0050	91	85	115				
Uranium		0.462	mg/L	0.0010	92	85	115				
Vanadium		0.466	mg/L	0.010	93	85	115				
<b>Lab ID: B17030896-002KMS3</b>	4	Sample Matrix Spike									03/15/17 13:45
Arsenic		0.460	mg/L	0.0010	92	70	130				
Selenium		0.444	mg/L	0.0010	89	70	130				
Uranium		0.459	mg/L	0.00030	90	70	130				
Vanadium		0.471	mg/L	0.010	94	70	130				
<b>Lab ID: B17030896-002KMSD</b>	4	Sample Matrix Spike Duplicate									03/15/17 13:49
Arsenic		0.461	mg/L	0.0010	92	70	130	0.2	20		
Selenium		0.443	mg/L	0.0010	89	70	130	0.3	20		
Uranium		0.476	mg/L	0.00030	94	70	130	3.7	20		
Vanadium		0.466	mg/L	0.010	93	70	130	1.1	20		

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Gillette, WY Branch

**Client:** UR Energy USA Inc  
**Project:** Lost Creek Wastewater

**Report Date:** 03/15/17  
**Work Order:** C17030340

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> D1429									Batch: R234768
<b>Lab ID:</b> LCS	Laboratory Control Sample								Run: BAL-ACCU-124_170315A 03/15/17 08:59
Specific Gravity 60/60F	1.020	unitless	100		85	115			
<b>Lab ID:</b> G17030131-001ADUP	Sample Duplicate								Run: BAL-ACCU-124_170315A 03/15/17 09:07
Specific Gravity 60/60F	1.000	unitless					0.0	1	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc  
**Project:** Lost Creek Wastewater

**Report Date:** 03/27/17  
**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E903.0</b>								Batch: RA226-8443		
<b>Lab ID: LCS-RA226-8443</b>		Laboratory Control Sample				Run: TENNELEC-3_170317B		03/27/17 08:22		
Radium 226		9.0	pCi/L		87	80	120			
<b>Lab ID: MB-RA226-8443</b>	3	Method Blank				Run: TENNELEC-3_170317B		03/27/17 08:22		
Radium 226		0.1	pCi/L							
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.1	pCi/L							
<b>Lab ID: C17020610-001GMS</b>		Sample Matrix Spike				Run: TENNELEC-3_170317B		03/27/17 08:22		
Radium 226		15	pCi/L		73	70	130			
<b>Lab ID: C17020610-001GMSD</b>		Sample Matrix Spike Duplicate				Run: TENNELEC-3_170317B		03/27/17 08:22		
Radium 226		20	pCi/L		94	70	130	25	20	R

- The RPD for the MSD is high. The individual spike recoveries are within range, the MB is acceptable, and the LCS is acceptable therefore the batch is approved.

### Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

R - RPD exceeds advisory limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 03/16/17

**Project:** Lost Creek Wastewater

**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: A2320 B</b> Analytical Run: MANTECH_170313A										
<b>Lab ID: ICV-9186</b>	Initial Calibration Verification Standard									
pH		6.88	s.u.	0.010	100	98	102			03/13/17 17:13
<b>Method: A2320 B</b> Batch: R220803										
<b>Lab ID: MBLK</b>	Method Blank									
Alkalinity, Total as CaCO3		1	mg/L	1						Run: MANTECH_170313A 03/13/17 23:59
<b>Lab ID: LCS_170118</b>	Laboratory Control Sample									
Alkalinity, Total as CaCO3		251	mg/L	5.0	100	90	110			Run: MANTECH_170313A 03/14/17 00:16
<b>Lab ID: C17030305-009ADUP</b>	Sample Duplicate									
Alkalinity, Total as CaCO3		1.57	mg/L	5.0						Run: MANTECH_170313A 03/14/17 01:55 10

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.





# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc  
**Project:** Lost Creek Wastewater

**Report Date:** 03/16/17  
**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> A2510 B										Batch: R220713
<b>Lab ID:</b> SC 100		Initial Calibration Verification Standard					Run: PHSC_101-C_170310A			03/10/17 08:50
Conductivity @ 25 C		102	umhos/cm	5.0	102	90	110			
<b>Lab ID:</b> SC 5000		Initial Calibration Verification Standard					Run: PHSC_101-C_170310A			03/10/17 08:53
Conductivity @ 25 C		5090	umhos/cm	5.0	102	90	110			
<b>Lab ID:</b> SC 20000		Initial Calibration Verification Standard					Run: PHSC_101-C_170310A			03/10/17 08:56
Conductivity @ 25 C		20700	umhos/cm	5.0	104	90	110			
<b>Lab ID:</b> SC 50000		Initial Calibration Verification Standard					Run: PHSC_101-C_170310A			03/10/17 08:59
Conductivity @ 25 C		50100	umhos/cm	5.0	100	90	110			
<b>Lab ID:</b> MBLK		Method Blank					Run: PHSC_101-C_170310A			03/10/17 13:34
Conductivity @ 25 C		3	umhos/cm	2						
<b>Lab ID:</b> C17030305-007ADUP		Sample Duplicate					Run: PHSC_101-C_170310A			03/10/17 14:16
Conductivity @ 25 C		1260	umhos/cm	5.0				0.3	10	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 03/16/17

**Project:** Lost Creek Wastewater

**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: A2540 C</b>								Batch: TDS170315A		
<b>Lab ID: MB-1_170315A</b>		Method Blank					Run: BAL-18_170315B		03/15/17 14:36	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	7						
<b>Lab ID: LCS-2_170315A</b>		Laboratory Control Sample					Run: BAL-18_170315B		03/15/17 14:36	
Solids, Total Dissolved TDS @ 180 C		1100	mg/L	11	99	90	110			
<b>Lab ID: C17030190-004B DUP</b>		Sample Duplicate					Run: BAL-18_170315B		03/15/17 14:37	
Solids, Total Dissolved TDS @ 180 C		451	mg/L	10				1.6	5	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 03/16/17

**Project:** Lost Creek Wastewater

**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> A4500-H B								Analytical Run: PHSC_101-C_170310A		
<b>Lab ID:</b> pH 6.86		Initial Calibration Verification Standard								03/10/17 08:47
pH		6.88	s.u.	0.010	100	98	102			
<b>Method:</b> A4500-H B										Batch: R220713
<b>Lab ID:</b> C17030305-007ADUP		Sample Duplicate								03/10/17 14:16
pH		7.82	s.u.	0.010				0.3	3	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** UR Energy USA Inc

**Report Date:** 03/16/17

**Project:** Lost Creek Wastewater

**Work Order:** C17030340

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E300.0</b>								Analytical Run: IC2-C_170315A		
<b>Lab ID: ICV</b>	2	Initial Calibration Verification Standard								03/15/17 16:21
Chloride		10.5	mg/L	1.0	105	90	110			
Sulfate		42.4	mg/L	1.0	106	90	110			
<b>Method: E300.0</b>								Batch: R220905		
<b>Lab ID: ICB</b>	2	Method Blank					Run: IC2-C_170315A			03/15/17 16:39
Chloride		ND	mg/L	0.05						
Sulfate		ND	mg/L	0.05						
<b>Lab ID: LFB</b>	2	Laboratory Fortified Blank					Run: IC2-C_170315A			03/15/17 16:58
Chloride		9.95	mg/L	1.0	99	90	110			
Sulfate		39.9	mg/L	1.0	100	90	110			
<b>Lab ID: C17030305-006AMS</b>	2	Sample Matrix Spike					Run: IC2-C_170315A			03/15/17 17:53
Chloride		70.6	mg/L	1.0	99	80	120			
Sulfate		759	mg/L	2.1	86	80	120			
<b>Lab ID: C17030305-006AMSD</b>	2	Sample Matrix Spike Duplicate					Run: IC2-C_170315A			03/15/17 18:11
Chloride		69.6	mg/L	1.0	97	80	120	1.4	20	
Sulfate		751	mg/L	2.1	82	80	120	1.1	20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# Work Order Receipt Checklist

UR Energy USA Inc

C17030340

Login completed by: Corinne Wagner

Date Received: 3/10/2017

Reviewed by: Kasey Vidick

Received by: ckw

Reviewed Date: 3/13/2017

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	3.8°C No Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

## Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Contact and Corrective Action Comments:

None



Trust our People. Trust our Data.

# Chain of Custody & Analytical Request Record

www.energylab.com

Page 1 of 1

## Account Information (Billing information)

Company Name **OP-ENERGY**  
 Contact **MIKE CANTOR**  
 Phone **307 265-2373**  
 Mailing Address **5300 ENTERPRISE DR SUITE 200**  
 City, State, Zip **CASPER WY 82409**  
 Email **MIKE.CANTOR@OP-ENERGY.COM**  
 Receive Invoice  Hard Copy  Email  Receive Report  Hard Copy  Email   
 Purchase Order  Quote  Bottle Order **51A77**

## Report Information (if different than Account Information)

Company Name \_\_\_\_\_  
 Contact \_\_\_\_\_  
 Phone \_\_\_\_\_  
 Mailing Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Email \_\_\_\_\_  
 Receive Report  Hard Copy  Email   
 Special Report/Formats:  LEVEL IV  NELAC  EDD/EDT (contact laboratory)  Other \_\_\_\_\_

## Comments

\_\_\_\_\_

## Project Information

Project Name, PWSID, Permit, etc. **LOST CREEK WASTE WATER**  
 Sampler Name **MDX** Sampler Phone \_\_\_\_\_  
 Sample Origin State \_\_\_\_\_ EPA/State Compliance  Yes  No  
 MINING CLIENTS, please indicate sample type.  
 If ore has been processed or refined, call before sending.  
 Byproduct 11 (e)2 material  Unprocessed ore (NOT ground or refined)\*

## Matrix Codes

A - Air  
 W - Water  
 S - Soils/Solids  
 V - Vegetation  
 B - Bioassay  
 O - Other  
 DW - Drinking Water

## Analysis Requested

PH / Temp ✓  
 BLENB/CARB ✓  
 CHLORIDE ✓  
 SULFATE ✓  
 HARDEN SCALE ✓  
 SP. CAPACITY ✓  
 TDS ✓  
 AS, SE, V, U (TMD) ✓  
 See Attached ✓

All turnaround times are standard unless marked as RUSH.  
 Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

## Sample Identification

Number of Containers (See Codes Above)	Collection		Matrix (See Codes Above)
	Date	Time	
1	3/10/2017	0930	W
2			
3			
4			
5			
6			
7			
8			
9			
10			

ELI LAB ID  
 RUSH  
 TAT  
 070303410

Custody Record MUST be signed **M. Cantor** Relinquished by (print)  
 Date/Time **3/10/2017 1013** Signature **[Signature]**  
 Received by (print) **[Signature]** Date/Time **3/10/17 1013** Signature  
 Shipped By **Hand Client** Cooler ID(s) **Y N C B** Custody Seals **Y N C B** Intact **X N** Receipt Temp **3.8 °C** Temp Blank **Y N** On Ice **Y N**  
 Payment Type **CC** Cash  Check  Amount \$ \_\_\_\_\_  
 Receipt Number (cash/check only) \_\_\_\_\_

LABORATORY USE ONLY

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.