



**Environmental Property Management, LLC
Cimarron Decommissioning Project**

**Determination of Conservative U-235 Enrichment Levels for
Groundwater at Cimarron Site
Utilizing ICP-MS Data Collected December 2016 Through 2nd
Quarter 2017**

Technical Memorandum

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1.0 PURPOSE

To establish a rational nuclear material inventory program for the Cimarron site, it is necessary to have a method to estimate both the mass of uranium and the U-235 enrichment present in the planned groundwater treatment system during start-up. As remediation proceeds, data will be available from laboratory analysis of treated groundwater and spent resin.

The purpose of this technical memorandum is to provide a conservative estimate of groundwater enrichment that will be managed between the start of remediation and the receipt of the first round of laboratory data.

2.0 EXECUTIVE SUMMARY

Conservative uranium enrichment percentage expected for each train was calculated at the 95% confidence level (CL). The calculation used the average calculated enrichment plus the average propagated uncertainty of the laboratory analysis of recent data. Calculations were completed for three treatment trains (1, 2, and 3) described in the Decommissioning Plan (DP) and for the combination of the flow to Trains 1 and 2. The data set used in this analysis is limited to measurements made by the ICP-MS (EPA 200.8) method for groundwater samples collected from December 2016 through the 2nd Quarter of 2017. This method has been selected as the primary analytical method for the analysis of both liquid and solid samples for the project.

The initial conservative values for the U-235 enrichment are as follows:

- For Train 1, the initial conservative U-235 enrichment = 2.9%
- For Train 2, the initial conservative U-235 enrichment = 1.3%
- For combined Train 1 & 2, the initial conservative U-235 enrichment = 2.6%
- For Train 3, the initial conservative U-235 enrichment = 1.3%

These initial conservative U-235 values represent the maximum calculated enrichment at the 95% confidence level. As samples of resin containing higher concentrations of uranium are obtained and analyzed, these conservative enrichment values will be replaced by actual enrichment values.



3.0 DISCUSSION

Three areas of the Cimarron site, based on groundwater data, exhibit different levels of uranium enrichment. Groundwater from these areas will be processed through three separate treatment trains as described below.

1. Train 1 will process groundwater from a portion of the Western Alluvial Area where the uranium concentrations are greater than the DCGL for release. This area exhibits the highest enrichment levels for the uranium. The contamination source for this area is from early process waste water that was flowing through a process drain line in this area.
2. Train 2 will process groundwater from the Bluff Area of the Western Alluvial Area. The uranium concentrations in this area are less than the DCGL for release but the groundwater will be processed to remove the nitrate constituent. The contamination source for this area is the up-gradient uranium ponds (UP1 and UP2).
3. Train 3 will process groundwater from the area designated as Burial Area 1 (BA1). The contamination source in this area was the waste material that was placed in trenches. This area exhibits the highest uranium concentrations and a low enrichment level.

Each of the three areas that will be processed through the separate groundwater treatment trains represent different contamination sources. Thus, different conservative maximum uranium enrichment values need to be determined in this analysis. The current basis for the system design assumes that the groundwater flow from Trains 1 & 2 will be combined into one influent tank so a conservative maximum enrichment value has also been determined for the combined influent for Trains 1 & 2.

The mass of U-235 is the limiting factor for the groundwater treatment system. The license limit for the site is to maintain the U-235 mass inventory at equal to or less than (\leq) 1,200 grams in the entire treatment system.

As the groundwater is extracted from each area, inflow of surrounding natural groundwater containing natural uranium will begin lowering the average uranium concentration and enrichment level for each of the trains. It is expected that the uranium concentration and enrichment levels that are encountered at the initial startup of will continually decrease with time. Therefore, the enrichment levels that are derived in this analysis are expected to be the maximum conservative values.

4.0 METHODOLOGY

The process for determination of the mass values for the uranium inventory is to measure the uranium concentration ($\mu\text{g/L}$) and assign a conservative enrichment value to determine the mass of U-235.

1. Based on the average 95% relative uncertainty value of 5.11% (with a standard deviation of 0.0023% for the 2nd Quarter results) for both the U-235 and U-238 results reported for the December and the 2nd Quarter results, the relative uncertainty value of 5.11% was assigned to all of the U-235 and U-238 results for this evaluation.
2. The analytical determination of enrichment has been based on ICP-MS measurements of two uranium isotopes (U-235, and U-238). Each measurement has an associated uncertainty for the calculated enrichment value. In this evaluation the relative uncertainty associated with the reported individual measurement result is $\pm 5.11\%$ at the 95% confidence level. To evaluate the uncertainty associated with the calculated enrichment based on the ICP-MS results for each uranium isotope, the propagated uncertainty has been calculated. For these results, the relative uncertainty for the calculated enrichment value is $\pm 7.2\%$ of the calculated enrichment value at the 95% confidence level. The propagation of uncertainty (or propagation of error) is the effect of variable uncertainty for each individual value on the uncertainty of the enrichment level that is calculated based on them. The equation used to calculate the propagated uncertainty is presented later.
3. The three treatment trains in the process will exhibit different levels of uranium enrichment in the groundwater based on the area of the site that the groundwater is extracted from. Each area is addressed separately in this analysis along with a case where the influents from the Train 1 and Train 2 areas are combined in one influent tank.
4. To obtain the average enrichment level for each treatment train, the results were weighted by the uranium mass concentration for each well that was included in the grouping for that treatment train. This weighting approach assumes that the flowrates from all individual wells are the same.

5.0 ASSUMPTIONS

This determination of the enrichment levels of the uranium in the groundwater at the site is based on the following assumptions:

1. Equal weight is given to each sample analysis result. This assumes that the flowrates from all individual wells are the same.
2. The mass of U-234 is negligible and is not included in the calculation of the uranium enrichment.
3. The uncertainty values for the U-235 and U-238 were provided for both the December and 2nd Quarter results but not for the 1st Quarter results. Since the average relative uncertainty values reported were 5.11% for both the December results and the 2nd Quarter results, the same value was assigned to all of the results, including the 1st Quarter results.
4. The groundwater feed flow rates from the well field areas are equal for Trains 1 and 2.

6.0 INPUT

The data set used as the initial basis for this evaluation was formed by combining several separate sources of information. Data from groundwater monitoring wells outside the three areas planned for treatment were not included.

The available data were separated into three subsets for analysis:

- Train 1 - WAA area where Uranium > DCGL (Appendix A)
- Train 2 – WAA where Uranium < DCGL (Appendix B)
- Combine Train 1 and Train 2 flows into one influent tank.
- Train 3 – BA1 area (Appendix C)

For this analysis, only the groundwater data collected during the period of December 2016 through the 2nd Quarter of 2017 and analyzed by the ICP-MS method has been utilized.

The data delineation (Train 1, 2, or 3) matches the groundwater treatment train designation described in the DP. Table 6.0 provides the list of the wells that are included in each treatment train.

Table 6.0 - List of Wells included in Data Analysis

Train 1	Train 2	Train 3	
1319B-1	1381	1361	02W46
1319B-3	1385	1362	02W47
MWWA-03	1387	1363	1315R
MWWA-09	1393	1365	1316R
T-62	1336A	02W01	TMW-01
T-64	T-102	02W02	TMW-09
T-65	T-53	02W03	
T-66	T-59	02W04	
T-67	T-60	02W05	
T-68	T-61	02W07	
T-69	T-86	02W11	
T-70R	T-87	02W14	
T-72	T-89	02W18	
T-75	T-90	02W19	
T-76	T-92R	02W28	
T-77	T-93	02W29	
T-79		02W30	
T-82		02W31	
T-84		02W37	
T-97		02W38	
T-98		02W39	

6.1 Data Set Compilation and Screening

To complete this analysis, a complete set of ICP-MS data which was compiled for the period of December through the second Quarter sampling events. Samples that had a “U” qualifier were not included in the analysis. Results for those wells identified in Table 6.1 are included in the analysis. The results for all other wells were not included in the analysis because they will not be pumped to feed the treatment system. As noted in Section 4.0, the relative uncertainty for the reported U-235 and U-238 results was set at the average of 5.11% for all reported results.

6.2 Train 1 Data Set Selection

Appendix A provides the laboratory data and calculation of propagated uncertainty and maximum enrichment values for Treatment Train 1.

6.3 Train 2 Data Set Selection

Appendix B provides the laboratory data and calculation of propagated uncertainty and maximum enrichment values for Treatment Train 2.

6.4 Combined Train 1 and Train 2

The calculation of the weighted average enrichment for these combined two groups of wells is based on the Data and results presented in Appendices A & B. The calculation of the average enrichment is shown in Table 6.4.

Table 6.4 – Calculation of Weighted Average Enrichment for Combined Trains 1 and Train 2

	Total U micro-g/L	Total U-235 micro-g/L	Comment
Train 1	2077	55.37	From Table A-1 in Appendix A
Train 2	504	5.72	From Table B-1 in Appendix B
Combined Train 1 & Train 2	2581	61.09	Summation of values from individual trains
	$61.09/2581 = 2.37\%$		Calculation of weighted average enrichment
	$2.37\% \times 7.2\% = 0.17\%$		Calculation of uncertainty for enrichment

6.5 Train 3 Data Set Selection

Appendix C provides the laboratory data and calculation of propagated uncertainty and maximum enrichment values for Treatment Train 3.

6.6 Complete Data Set

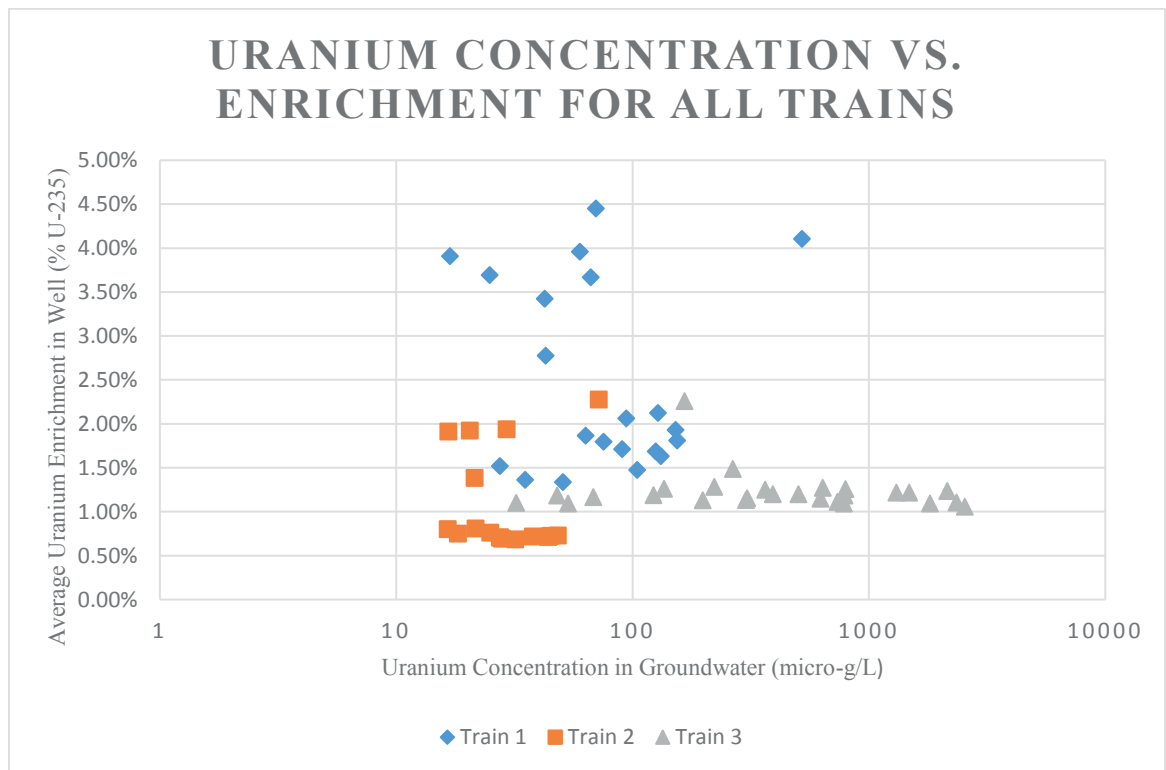
Appendix D provides the laboratory data for all the samples analyzed by the ICP-MS method. This Appendix includes those well locations that do not feed one of the three trains.

6.7 Enrichment Distribution

As presented above, Appendices A, B, and C provide the data sets that were used for Trains 1, 2 and 3, respectively. These three appendices include all the data for the wells feeding each train with the constraint that only measurement data collected by the ICP-MS method for the period from December 2016 through the 2nd Quarter of 2017. (The complete data set is provided in Appendix D.)

Figure 6.1 shows the distribution of the calculated enrichment for each well versus the uranium concentration in the groundwater for that well. The enrichment value plotted on this figure is the 95% Confidence Level (CL) value which is taken as the calculated enrichment plus the propagated uncertainty for the calculation.

Figure 6.1 - Distribution of Calculated Enrichment Values versus Uranium Concentration for the Three Trains



7.0 CALCULATIONS

7.1 Consideration of U-234 Mass

The calculation of the uranium enrichment has been based on the measured concentration of the two uranium isotopes of interest (U-235, and U-238). The measured concentrations are in units of mass (micrograms per liter). Even though the U-234 contributes over half of the activity for each sample, when converted to mass equivalents, the U-234 contributes on average only 0.013% of the total uranium mass. Therefore, the contribution of the U-234 to the total mass and the propagated uncertainty in the calculated enrichment of the uranium in the sample was not considered. See Table 7.1.

Table 7.1 - Contribution of U-234 to Activity and Mass of Enriched Uranium

Enrichment (% U-235 by mass)	Percent of Total Activity			Percent of Total Mass		
	U-234	U-235	U-238	U-234	U-235	U-238
0.711	48.1%	2.3%	49.7%	0.005%	0.711%	99.3%
1	54.8%	2.8%	42.5%	0.007%	1%	99%
2	68.3%	3.7%	28.1%	0.013%	2%	98%
3	75.1%	4.1%	20.8%	0.019%	3%	97%
5	82.1%	4.5%	13.4%	0.031%	5%	95%

7.2 Calculation of Enrichment

The enrichment of the uranium is calculated (ignoring the U-234 contribution) by:

$$E = M_{U235} / (M_{U235} + M_{U238})$$

Where:

E = the Uranium enrichment level in weight % U-235

M_i = the mass of the isotope in micrograms isotope per Liter of sample

7.3 Determination of Propagated Uncertainty for Calculation of Enrichment Level

The reported mass concentration for each isotope has an associated measurement uncertainty reported at the 2 sigma (95% CL) level. To accurately assess the

uncertainty for the calculated enrichment value associated with the sample, the propagated uncertainty was calculated as follows:

$$\sigma_E^2 = [M_{U235} / (M_{U235} + M_{U238})]^2 \times \{(\sigma_{U235}/M_{U235})^2 + [(\sigma_{U235}^2 + \sigma_{U238}^2) / (M_{U235} + M_{U238})^2]\}$$

Where:

σ_E = Calculated propagated uncertainty for enrichment value at the 95% confidence level;

M_i = the mass of the isotope in micrograms isotope per Liter of sample, and

σ_i = measurement uncertainty for mass concentration of isotope (M_i)

8.0 RESULTS

Conservative initial uranium enrichment percentages expected for each train were calculated at the 95% confidence level. The calculation used the average calculated enrichment plus the average propagated uncertainty of the laboratory analysis for the data. Calculations were completed for three treatment trains (1, 2, and 3) described in the DP.

Table 8.0 calculates the maximum enrichment expected for initial use for Trains 1, 2 and 3.

Table 8.0 - Average and Maximum Enrichment Value for Trains 1, 2 and 3

Train	Based on Method EPA 200.8 Method		
	Weighted Average Enrichment % U-235	% U-235 Uncertainty at 95% Confidence Level	Maximum Enrichment at 95% Confidence Level
1	2.67%	0.19%	2.86%
2	1.14%	0.08%	1.22%
1 & 2	2.37%	0.17%	2.54%
3	1.17%	0.08%	1.26%

These values have been derived based on the measurements obtained from groundwater samples. The current system design is based on combining the well field flow from the Train 1 and Train 2 areas into one influent tank to feed both the Train 1 and the Train 2 resin columns. Therefore the last two rows of the above table best represent the two maximum enrichments (2.54% and 1.26%) that will initially feed the three treatment systems.



9.0 CONCLUSIONS

The initial conservative values for the U-235 enrichment (rounded up) have been calculated as follows:

- For Train 1, the initial conservative U-235 enrichment = 2.9%
- For Train 2, the initial conservative U-235 enrichment = 1.3%
- For combined Train 1 & 2, the initial conservative U-235 enrichment = 2.6%
- For Train 3, the initial conservative U-235 enrichment = 1.3%

These initial conservative values represent the maximum enrichment at the 95% confidence level. As further information is developed based on measurement of the accumulated resin at higher uranium concentration levels, the conservative enrichment assumptions for each train will be adjusted accordingly.

APPENDIX A

Data Set for Measurements Used in Analysis for Train 1

Table A-1: Analysis of Average Enrichment for Wells Feeding Train 1

Location	Date	Total Uranium µg/L	Total µg/L Uncertainty (95% CL*)	% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)	Total Uranium µg/L (Average)	% U-235 (Average)	Total U-235 µg/L (Average)
1319B-1	4/28/2017	17	0.83	3.91%	0.28%	7.1%	17	3.91%	0.66
1319B-3	4/28/2017	25	1.22	3.69%	0.26%	7.1%	25	3.69%	0.92
MWWA-03	5/3/2017	521	25.57	4.10%	0.29%	7.1%	521	4.10%	21.40
MWWA-09	2/8/2017	145	7.31	1.62%	0.12%	7.2%	132	1.63%	2.15
MWWA-09	5/3/2017	118	5.93	1.64%	0.12%	7.2%			
T-62	2/7/2017	168	8.43	1.94%	0.14%	7.2%	152	1.93%	2.93
T-62	2/7/2017	177	8.89	1.96%	0.14%	7.2%			
T-62	5/2/2017	110	5.52	1.90%	0.14%	7.2%			
T-64	5/2/2017	43	2.13	2.77%	0.20%	7.1%	43	2.77%	1.19
T-65	4/17/2017	125	6.29	1.69%	0.12%	7.2%	125	1.69%	2.11
T-66	4/17/2017	105	5.26	1.47%	0.11%	7.2%	105	1.47%	1.54
T-67	12/14/2016	134	6.70	2.20%	0.16%	7.1%	128	2.12%	2.72
T-67	4/17/2017	125	6.24	2.06%	0.15%	7.2%			
T-67-11.6	12/14/2016	147	7.36	2.37%	0.17%	7.1%			
T-67-11.6	12/14/2016	157	7.82	2.37%	0.17%	7.1%			
T-67-13.6	12/14/2016	183	9.15	2.37%	0.17%	7.1%			
T-67-15.6	12/14/2016	174	8.69	2.42%	0.17%	7.1%			
T-67-17.6	12/14/2016	153	7.67	2.27%	0.16%	7.1%			
T-67-19.6	12/14/2016	129	6.44	2.21%	0.16%	7.1%			
T-67-21.6	12/14/2016	97	4.85	2.04%	0.15%	7.2%			
T-67-23.6	12/14/2016	49	2.45	1.64%	0.12%	7.2%			
T-67-25.6	12/14/2016	33	1.67	1.19%	0.09%	7.2%			
T-67-9.6	12/14/2016	129	6.44	2.29%	0.16%	7.1%			
T-67A	12/14/2016	137	6.85	2.15%	0.15%	7.2%			
T-67B	12/14/2016	131	6.54	2.16%	0.15%	7.2%			
T-67C	12/14/2016	136	6.80	2.16%	0.15%	7.1%			
T-67D	12/14/2016	141	7.05	2.15%	0.15%	7.2%			
T-67DUP	4/17/2017	125	6.24	2.08%	0.15%	7.2%			
T-68	12/14/2016	107	5.37	2.25%	0.16%	7.1%	75	1.79%	1.35
T-68	4/18/2017	140	7.00	1.86%	0.13%	7.2%			
T-68-11.2	12/14/2016	87	4.35	2.00%	0.14%	7.2%			
T-68-13.2	12/14/2016	136	6.80	1.90%	0.14%	7.2%			
T-68-13.2	12/14/2016	136	6.80	1.91%	0.14%	7.2%			
T-68-15.2	12/14/2016	156	7.82	1.64%	0.12%	7.2%			
T-68-17.2	12/14/2016	67	3.31	3.11%	0.22%	7.1%			
T-68-19.2	12/14/2016	21	1.04	2.82%	0.20%	7.1%			
T-68-21.2	12/14/2016	8	0.42	1.06%	0.08%	7.2%			
T-68-23.2	12/14/2016	8	0.39	0.87%	0.06%	7.2%			
T-68-25.2	12/14/2016	9	0.48	0.93%	0.07%	7.2%			
T-68-26.4	12/14/2016	14	0.70	0.81%	0.06%	7.2%			
T-68-9.2	12/14/2016	28	1.40	2.09%	0.15%	7.2%			
T-68DUP	4/18/2017	139	6.95	1.85%	0.13%	7.2%			

Table A-1: Analysis of Average Enrichment for Wells Feeding Train 1

Location	Date	Total Uranium µg/L	Total µg/L Uncertainty (95% CL*)	% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)	Total Uranium µg/L (Average)	% U-235 (Average)	Total U-235 µg/L (Average)
T-69	2/7/2017	92	4.64	1.73%	0.12%	7.2%	90	1.71%	1.54
T-69	4/18/2017	88	4.44	1.69%	0.12%	7.2%			
T-70R	5/2/2017	60	2.94	3.96%	0.28%	7.1%	60	3.96%	2.37
T-72	4/18/2017	94	4.71	2.06%	0.15%	7.2%	94	2.06%	1.94
T-75	4/18/2017	70	3.42	4.45%	0.31%	7.1%	70	4.45%	3.11
T-76	2/7/2017	155	7.77	1.85%	0.13%	7.2%	154	1.81%	2.79
T-76	5/2/2017	154	7.72	1.77%	0.13%	7.2%			
T-77	2/7/2017	77	3.79	4.14%	0.29%	7.1%	66	3.67%	2.44
T-77	5/2/2017	56	2.76	3.20%	0.23%	7.1%			
T-79	2/7/2017	42	2.08	3.46%	0.25%	7.1%	43	3.42%	1.45
T-79	2/7/2017	41	2.05	3.57%	0.25%	7.1%			
T-79	5/2/2017	44	2.17	3.23%	0.23%	7.1%			
T-82	5/2/2017	28	1.40	1.53%	0.11%	7.2%	27	1.52%	0.42
T-82DUP	5/2/2017	27	1.36	1.51%	0.11%	7.2%			
T-84	12/13/2016	38	1.93	1.41%	0.10%	7.2%	35	1.36%	0.48
T-84	4/18/2017	46	2.30	1.50%	0.11%	7.2%			
T-84-10.9	12/13/2016	39	1.97	1.95%	0.14%	7.2%			
T-84-12.9	12/13/2016	86	4.28	2.02%	0.14%	7.2%			
T-84-14.9	12/13/2016	61	3.07	1.64%	0.12%	7.2%			
T-84-16.9	12/13/2016	43	2.16	1.22%	0.09%	7.2%			
T-84-18.9	12/13/2016	32	1.64	0.84%	0.06%	7.2%			
T-84-20.9	12/13/2016	13	0.65	0.81%	0.06%	7.2%			
T-84-22.9	12/13/2016	15	0.75	0.79%	0.06%	7.2%			
T-84-6.9	12/13/2016	16	0.79	0.83%	0.06%	7.2%			
T-84-8.9	12/13/2016	16	0.82	1.64%	0.12%	7.2%			
T-84-8.9	12/13/2016	17	0.84	1.68%	0.12%	7.2%			
T-97	12/12/2016	63	3.14	1.76%	0.13%	7.2%	51	1.34%	0.68
T-97	2/7/2017	65	3.28	1.74%	0.12%	7.2%			
T-97	4/19/2017	68	3.40	1.76%	0.13%	7.2%			
T-97-11.7	12/12/2016	14	0.73	0.77%	0.06%	7.2%			
T-97-13.7	12/12/2016	9	0.47	0.76%	0.05%	7.2%			
T-97-15.7	12/12/2016	8	0.41	0.76%	0.05%	7.2%			
T-97-17.7	12/12/2016	12	0.61	0.73%	0.05%	7.2%			
T-97-19.7	12/12/2016	20	1.00	0.80%	0.06%	7.2%			
T-97-21.7	12/12/2016	48	2.44	1.14%	0.08%	7.2%			
T-97-23.7	12/12/2016	87	4.36	1.64%	0.12%	7.2%			
T-97-25.7	12/12/2016	109	5.47	2.01%	0.14%	7.2%			
T-97-27.7	12/12/2016	106	5.32	2.16%	0.15%	7.1%			
T-98	4/19/2017	63	3.17	1.86%	0.13%	7.2%	63	1.86%	1.18
Summation							2077		55.37
Weighted Average Enrichment								2.67%	
Average Uncertainty (95% CL)								0.19%	

* CL= Confidence Level

APPENDIX B

Data Set for Measurements Used in Analysis for Train 2

Table B-1: Analysis of Average Enrichment for Wells Feeding Train 2

Location	Date	Total ug/L	Total ug/L Uncertainty (95% CL)	% U-235	% U-235 Uncertainty (95% CL)	Relative Uncertainty (95% CL)	Tot ug/L (Average)	% U-235 (Average)	Weighting Factor (Total x %)
1381	2/8/2017	63	3	1.99%	0.14%	7.2%	72	2.28%	1.64
1381	4/27/2017	81	4	2.57%	0.18%	7.1%			
1385	4/26/2017	18	1	0.75%	0.05%	7.2%	18	0.75%	0.14
1387	4/26/2017	20	1	1.92%	0.14%	7.2%	20	1.92%	0.39
1393	2/8/2017	14	1	1.89%	0.14%	7.2%	17	1.91%	0.32
1393	4/27/2017	19	1	1.94%	0.14%	7.2%			
1336A	4/27/2017	29	1	1.94%	0.14%	7.2%	29	1.94%	0.57
T-102	4/19/2017	32	2	0.68%	0.05%	7.2%	32	0.68%	0.22
T-53	4/18/2017	22	1	0.81%	0.06%	7.2%	22	0.81%	0.18
T-53DUP	4/18/2017	22	1	0.81%	0.06%	7.2%			
T-59	12/13/2016	94	5	0.73%	0.05%	7.2%	48	0.73%	0.35
T-59	2/7/2017	96	5	0.73%	0.05%	7.2%			
T-59	4/18/2017	88	4	0.71%	0.05%	7.2%			
T-59-11.1	12/13/2016	10	1	0.74%	0.05%	7.2%			
T-59-13.1	12/13/2016								
T-59-15.1	12/13/2016	32	2	0.73%	0.05%	7.2%			
T-59-17.1	12/13/2016	37	2	0.80%	0.06%	7.2%			
T-59-19.1	12/13/2016	65	3	0.72%	0.05%	7.2%			
T-59-7.1	12/13/2016	7	0	1.04%	0.07%	7.2%			
T-59-7.1	12/13/2016	7	0	1.06%	0.08%	7.2%			
T-59-9.1	12/13/2016	9	0	0.90%	0.06%	7.2%			
T-59DUP	4/18/2017	86	4	0.72%	0.05%	7.2%			
T-60	4/18/2017	38	2	0.72%	0.05%	7.2%	38	0.72%	0.27
T-61	2/7/2017	32	2	0.71%	0.05%	7.2%	28	0.69%	0.19
T-61	4/18/2017	24	1	0.68%	0.05%	7.2%			
T-86	4/17/2017	22	1	1.40%	0.10%	7.2%	21	1.38%	0.30
T-86DUP	4/17/2017	21	1	1.37%	0.10%	7.2%			
T-87	4/17/2017	17	1	0.79%	0.06%	7.2%	17	0.80%	0.13
T-87DUP	4/17/2017	17	1	0.81%	0.06%	7.2%			
T-89	4/19/2017	45	2	0.72%	0.05%	7.2%	45	0.72%	0.33
T-90	4/19/2017	25	1	0.76%	0.05%	7.2%	25	0.76%	0.19
T-92R	4/19/2017	44	2	0.72%	0.05%	7.2%	44	0.72%	0.31
T-93	4/19/2017	27	1	0.71%	0.05%	7.2%	27	0.71%	0.19
Summation							504		5.72
Weighted Average Enrichment								1.14%	
Average STDev (95% CL)								0.08%	

APPENDIX C

Data Set for Measurements Used in Analysis for Train 3

Table C-1: Analysis of Average Enrichment for Wells Feeding Train 3

Location	Date	Total Uranium µg/L	Total µg/L Uncertainty (95% CL*)	% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)	Total Uranium µg/L (Average)	% U-235 (Average)	Total U-235 µg/L (Average)
1361	2/7/2017	169	9	1.20%	0.09%	7.2%	122	1.19%	1.45
1361	4/20/2017	76	4	1.17%	0.08%	7.2%			
1362	4/20/2017	32	2	1.10%	0.08%	7.2%	32	1.10%	0.35
1363	4/20/2017	48	2	1.18%	0.08%	7.2%	48	1.18%	0.57
1365	2/7/2017	72	4	1.19%	0.09%	7.2%	68	1.17%	0.80
1365	4/20/2017	65	3	1.15%	0.08%	7.2%			
02W01	2/8/2017	2309	117	1.26%	0.09%	7.2%	2,142	1.24%	26.47
02W01	4/24/2017	1974	100	1.22%	0.09%	7.2%			
02W02	4/24/2017	2346	119	1.10%	0.08%	7.2%	2346	1.10%	25.90
02W03	4/24/2017	796	40	1.26%	0.09%	7.2%	796	1.26%	10.00
02W04	4/24/2017	222	11	1.28%	0.09%	7.2%	222	1.28%	2.84
02W05	4/24/2017	638	32	1.27%	0.09%	7.2%	638	1.27%	8.10
02W07	4/20/2017	1478	75	1.22%	0.09%	7.2%	1478	1.22%	18.00
02W11	4/24/2017	53	3	1.09%	0.08%	7.2%	53	1.09%	0.58
02W14	4/24/2017	306	15	1.15%	0.08%	7.2%	306	1.15%	3.51
02W18	4/20/2017	504	25	1.20%	0.09%	7.2%	504	1.20%	6.04
02W19	4/20/2017	1306	66	1.22%	0.09%	7.2%	1306	1.22%	15.90
02W28	5/2/2017	301	15	1.13%	0.08%	7.2%	301	1.13%	3.41
02W29	4/25/2017	735	37	1.11%	0.08%	7.2%	735	1.11%	8.16
02W30	4/25/2017	266	13	1.49%	0.11%	7.2%	266	1.49%	3.95
02W31	4/24/2017	783	40	1.09%	0.08%	7.2%	783	1.09%	8.56
02W37	4/20/2017	789	40	1.18%	0.09%	7.2%	789	1.18%	9.35
02W38	4/24/2017	198	10	1.13%	0.08%	7.2%	198	1.13%	2.24
02W39	2/8/2017	344	17	1.26%	0.09%	7.2%	364	1.25%	4.54
02W39	4/25/2017	383	19	1.24%	0.09%	7.2%			
02W46	4/24/2017	1810	91	1.09%	0.08%	7.2%	1810	1.09%	19.80
02W47	4/25/2017	166	8	2.26%	0.16%	7.1%	166	2.26%	3.74
1315R	2/8/2017	523	26	1.17%	0.08%	7.2%	623	1.15%	7.14
1315R	4/25/2017	723	37	1.12%	0.08%	7.2%			
1316R	4/25/2017	136	7	1.26%	0.09%	7.2%	136	1.26%	1.71
TMW-01	4/25/2017	393	20	1.20%	0.09%	7.2%	393	1.20%	4.70
TMW-09	2/8/2017	2578	130	1.07%	0.08%	7.2%	2,544	1.06%	26.84
TMW-09	2/8/2017	2456	124	1.06%	0.08%	7.2%			
TMW-09	5/2/2017	2597	131	1.04%	0.07%	7.2%			
Summation								19168	224.65
Weighted Average Enrichment								1.17%	
Average Uncertainty (95% CL)								0.08%	

* CL= Confidence Level

APPENDIX D

**Complete Set of Sample Analysis Results by
ICP-MS Method for Period of December 2016
through the 2nd Quarter of 2017**

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
1311		5/1/2017	Uranium-235	0.0189	0.001	J	µg/L	3	0.1	0.64%	0.05%	7.2%
1311		5/1/2017	Uranium-238	2.92	0.149		µg/L					
1312		5/1/2017	Uranium-235	0.377	0.019		µg/L	20	1.0	1.87%	0.13%	7.2%
1312		5/1/2017	Uranium-238	19.8	1.012		µg/L					
1313		5/1/2017	Uranium-235	0.354	0.018		µg/L	18	0.9	1.95%	0.14%	7.2%
1313		5/1/2017	Uranium-238	17.8	0.910		µg/L					
1314		5/2/2017	Uranium-235	ND		U	µg/L					
1314		5/2/2017	Uranium-238	1.25	0.063		µg/L					
1320		4/27/2017	Uranium-235	0.0157	0.001	J	µg/L	2	0.1	0.71%	0.05%	7.2%
1320		4/27/2017	Uranium-238	2.21	0.113		µg/L					
1322		5/1/2017	Uranium-235	0.283	0.014		µg/L	20	1.0	1.42%	0.10%	7.2%
1322		5/1/2017	Uranium-238	19.6	1.002		µg/L					
1324		4/27/2017	Uranium-235	0.0126	0.001	J	µg/L	2	0.1	0.71%	0.05%	7.2%
1324		4/27/2017	Uranium-238	1.75	0.089		µg/L					
1326		4/28/2017	Uranium-235	0.0387	0.002	J	µg/L	5	0.3	0.70%	0.05%	7.2%
1326		4/28/2017	Uranium-238	5.46	0.279		µg/L					
1329		4/28/2017	Uranium-235	0.0275	0.001	J	µg/L	4	0.2	0.67%	0.05%	7.2%
1329		4/28/2017	Uranium-238	4.08	0.208		µg/L					
1330		4/28/2017	Uranium-235	0.104	0.005		µg/L	6	0.3	1.81%	0.13%	7.2%
1330		4/28/2017	Uranium-238	5.63	0.288		µg/L					
1331		5/1/2017	Uranium-235	0.795	0.041		µg/L	27	1.3	2.93%	0.21%	7.1%
1331		5/1/2017	Uranium-238	26.3	1.344		µg/L					
1333		5/1/2017	Uranium-235	0.533	0.027		µg/L	22	1.1	2.45%	0.18%	7.1%
1333		5/1/2017	Uranium-238	21.2	1.083		µg/L					
1334		5/2/2017	Uranium-235	0.152	0.008		µg/L	10	0.5	1.56%	0.11%	7.2%
1334		5/2/2017	Uranium-238	9.59	0.490		µg/L					
1337		4/26/2017	Uranium-235	0.0916	0.005		µg/L	5	0.2	1.91%	0.14%	7.2%
1337		4/26/2017	Uranium-238	4.71	0.241		µg/L					
1340		5/1/2017	Uranium-235	0.175	0.009		µg/L	9	0.4	1.95%	0.14%	7.2%
1340		5/1/2017	Uranium-238	8.8	0.450		µg/L					
1340DUP		5/1/2017	Uranium-235	0.168	0.009		µg/L	9	0.4	1.88%	0.13%	7.2%
1340DUP		5/1/2017	Uranium-238	8.77	0.448		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
1341		5/1/2017	Uranium-235	0.0153	0.001	J	µg/L	2	0.1	0.64%	0.05%	7.2%
1341		5/1/2017	Uranium-238	2.38	0.122		µg/L					
1341DUP		5/1/2017	Uranium-235	0.015	0.001	J	µg/L	2	0.1	0.64%	0.05%	7.2%
1341DUP		5/1/2017	Uranium-238	2.34	0.120		µg/L					
1344		4/19/2017	Uranium-235	ND		U	µg/L					
1344		4/19/2017	Uranium-238	1.33	0.067		µg/L					
1347		4/26/2017	Uranium-235	0.244	0.012		µg/L	13	0.6	1.91%	0.14%	7.2%
1347		4/26/2017	Uranium-238	12.5	0.639		µg/L					
1347DUP		4/26/2017	Uranium-235	0.245	0.013		µg/L	13	0.6	1.92%	0.14%	7.2%
1347DUP		4/26/2017	Uranium-238	12.5	0.639		µg/L					
1348		2/8/2017	Uranium-235	1.48	0.076		µg/L	71	3.6	2.08%	0.15%	7.2%
1348		2/8/2017	Uranium-238	69.6	3.557		µg/L					
1348		5/1/2017	Uranium-235	1.53	0.078		µg/L	74	3.7	2.08%	0.15%	7.2%
1348		5/1/2017	Uranium-238	72	3.679		µg/L					
1349		5/2/2017	Uranium-235	0.864	0.044		µg/L	30	1.5	2.88%	0.21%	7.1%
1349		5/2/2017	Uranium-238	29.1	1.487		µg/L					
1350		5/1/2017	Uranium-235	0.384	0.020		µg/L	19	1.0	1.98%	0.14%	7.2%
1350		5/1/2017	Uranium-238	19	0.971		µg/L					
1351		5/3/2017	Uranium-235	37.6	1.921		µg/L	1548	77.2	2.43%	0.17%	7.1%
1351		5/3/2017	Uranium-238	1510	77.161		µg/L					
1352		2/8/2017	Uranium-235	0.533	0.027		µg/L	55	2.8	0.98%	0.07%	7.2%
1352		2/8/2017	Uranium-238	54	2.759		µg/L					
1352		5/3/2017	Uranium-235	0.713	0.036		µg/L	76	3.8	0.94%	0.07%	7.2%
1352		5/3/2017	Uranium-238	74.9	3.827		µg/L					
1353		5/1/2017	Uranium-235	1.18	0.060		µg/L	45	2.2	2.64%	0.19%	7.1%
1353		5/1/2017	Uranium-238	43.5	2.223		µg/L					
1354		5/3/2017	Uranium-235	0.026	0.001	J	µg/L	3	0.2	0.84%	0.06%	7.2%
1354		5/3/2017	Uranium-238	3.08	0.157		µg/L					
1355		5/1/2017	Uranium-235	0.019	0.001	J	µg/L	3	0.1	0.72%	0.05%	7.2%
1355		5/1/2017	Uranium-238	2.62	0.134		µg/L					
1356		2/8/2017	Uranium-235	6.35	0.324		µg/L	393	19.8	1.61%	0.12%	7.2%
1356		2/8/2017	Uranium-238	387	19.776		µg/L					
1356		5/3/2017	Uranium-235	20.2	1.032		µg/L	1260	63.4	1.60%	0.11%	7.2%
1356		5/3/2017	Uranium-238	1240	63.364		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	1357	5/1/2017	Uranium-235	0.0142	0.001	J	µg/L	2	0.1	0.68%	0.05%	7.2%
	1357	5/1/2017	Uranium-238	2.08	0.106		µg/L					
	1358	5/1/2017	Uranium-235	0.0105	0.001	J	µg/L	2	0.1	0.66%	0.05%	7.2%
	1358	5/1/2017	Uranium-238	1.57	0.080		µg/L					
	1359	5/1/2017	Uranium-235	0.317	0.016		µg/L	14	0.7	2.21%	0.16%	7.1%
	1359	5/1/2017	Uranium-238	14	0.715		µg/L					
	1360	5/1/2017	Uranium-235	0.322	0.016		µg/L	16	0.8	2.06%	0.15%	7.2%
	1360	5/1/2017	Uranium-238	15.3	0.782		µg/L					
3	1361	2/7/2017	Uranium-235	2.03	0.104		µg/L	169	8.5	1.20%	0.09%	7.2%
3	1361	2/7/2017	Uranium-238	167	8.534		µg/L					
3	1361	4/20/2017	Uranium-235	0.887	0.045		µg/L	76	3.8	1.17%	0.08%	7.2%
3	1361	4/20/2017	Uranium-238	74.9	3.827		µg/L					
3	1362	4/20/2017	Uranium-235	0.354	0.018		µg/L	32	1.6	1.10%	0.08%	7.2%
3	1362	4/20/2017	Uranium-238	31.8	1.625		µg/L					
3	1363	4/20/2017	Uranium-235	0.567	0.029		µg/L	48	2.4	1.18%	0.08%	7.2%
3	1363	4/20/2017	Uranium-238	47.4	2.422		µg/L					
	1364	4/20/2017	Uranium-235	0.0237	0.001	J	µg/L	3	0.2	0.75%	0.05%	7.2%
	1364	4/20/2017	Uranium-238	3.15	0.161		µg/L					
3	1365	2/7/2017	Uranium-235	0.853	0.044		µg/L	72	3.6	1.19%	0.09%	7.2%
3	1365	2/7/2017	Uranium-238	71.1	3.633		µg/L					
3	1365	4/20/2017	Uranium-235	0.741	0.038		µg/L	65	3.3	1.15%	0.08%	7.2%
3	1365	4/20/2017	Uranium-238	63.9	3.265		µg/L					
	1366	4/20/2017	Uranium-235	0.0177	0.001	J	µg/L	2	0.1	0.73%	0.05%	7.2%
	1366	4/20/2017	Uranium-238	2.42	0.124		µg/L					
	1367	4/20/2017	Uranium-235	0.0397	0.002	J	µg/L	6	0.3	0.66%	0.05%	7.2%
	1367	4/20/2017	Uranium-238	6.02	0.308		µg/L					
	1368	4/20/2017	Uranium-235	0.0309	0.002	J	µg/L	5	0.2	0.67%	0.05%	7.2%
	1368	4/20/2017	Uranium-238	4.6	0.235		µg/L					
	1369	4/20/2017	Uranium-235	0.0753	0.004		µg/L	11	0.5	0.71%	0.05%	7.2%
	1369	4/20/2017	Uranium-238	10.5	0.537		µg/L					
	1370	4/19/2017	Uranium-235	0.016	0.001	J	µg/L	2	0.1	0.68%	0.05%	7.2%
	1370	4/19/2017	Uranium-238	2.32	0.119		µg/L					
	1371	4/19/2017	Uranium-235	0.229	0.012		µg/L	22	1.1	1.06%	0.08%	7.2%
	1371	4/19/2017	Uranium-238	21.3	1.088		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	1372	4/19/2017	Uranium-235	0.0658	0.003	J	µg/L	9	0.4	0.75%	0.05%	7.2%
	1372	4/19/2017	Uranium-238	8.75	0.447		µg/L					
	1373	12/15/2016	Uranium-235	0.332	0.017		µg/L	28	1.4	1.19%	0.09%	7.2%
	1373	12/15/2016	Uranium-238	27.6	1.410		µg/L					
	1373	2/7/2017	Uranium-235	0.367	0.019		µg/L	31	1.6	1.17%	0.08%	7.2%
	1373	2/7/2017	Uranium-238	30.9	1.579		µg/L					
	1373	4/19/2017	Uranium-235	0.293	0.015		µg/L	25	1.3	1.16%	0.08%	7.2%
	1373	4/19/2017	Uranium-238	25	1.278		µg/L					
	1374	4/28/2017	Uranium-235	0.223	0.011		µg/L	13	0.6	1.74%	0.12%	7.2%
	1374	4/28/2017	Uranium-238	12.6	0.644		µg/L					
	1375	4/28/2017	Uranium-235	0.0246	0.001	J	µg/L	3	0.2	0.73%	0.05%	7.2%
	1375	4/28/2017	Uranium-238	3.35	0.171		µg/L					
	1376	4/27/2017	Uranium-235	0.455	0.023		µg/L	27	1.4	1.68%	0.12%	7.2%
	1376	4/27/2017	Uranium-238	26.6	1.359		µg/L					
	1377	5/1/2017	Uranium-235	0.563	0.029		µg/L	20	1.0	2.78%	0.20%	7.1%
	1377	5/1/2017	Uranium-238	19.7	1.007		µg/L					
	1378	5/1/2017	Uranium-235	0.0166	0.001	J	µg/L	2	0.1	0.74%	0.05%	7.2%
	1378	5/1/2017	Uranium-238	2.22	0.113		µg/L					
	1379	5/1/2017	Uranium-235	0.431	0.022		µg/L	20	1.0	2.16%	0.15%	7.1%
	1379	5/1/2017	Uranium-238	19.5	0.996		µg/L					
	1380	5/1/2017	Uranium-235	0.147	0.008		µg/L	11	0.6	1.32%	0.09%	7.2%
	1380	5/1/2017	Uranium-238	11	0.562		µg/L					
2	1381	2/8/2017	Uranium-235	1.26	0.064		µg/L	63	3.2	1.99%	0.14%	7.2%
2	1381	2/8/2017	Uranium-238	62.2	3.178		µg/L					
2	1381	4/27/2017	Uranium-235	2.07	0.106		µg/L	81	4.0	2.57%	0.18%	7.1%
2	1381	4/27/2017	Uranium-238	78.5	4.011		µg/L					
	1383	4/27/2017	Uranium-235	0.209	0.011		µg/L	11	0.6	1.86%	0.13%	7.2%
	1383	4/27/2017	Uranium-238	11	0.562		µg/L					
2	1385	4/26/2017	Uranium-235	0.137	0.007		µg/L	18	0.9	0.75%	0.05%	7.2%
2	1385	4/26/2017	Uranium-238	18.1	0.925		µg/L					
2	1387	4/26/2017	Uranium-235	0.394	0.020		µg/L	20	1.0	1.92%	0.14%	7.2%
2	1387	4/26/2017	Uranium-238	20.1	1.027		µg/L					
	1389	4/26/2017	Uranium-235	ND		U	µg/L					
	1389	4/26/2017	Uranium-238	0.867	0.043		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
2	1393	2/8/2017	Uranium-235	0.266	0.014		µg/L	14	0.7	1.89%	0.14%	7.2%
2	1393	2/8/2017	Uranium-238	13.8	0.705		µg/L					
2	1393	4/27/2017	Uranium-235	0.371	0.019		µg/L	19	1.0	1.94%	0.14%	7.2%
2	1393	4/27/2017	Uranium-238	18.8	0.961		µg/L					
3	02W01	2/8/2017	Uranium-235	29	1.482		µg/L	2309	116.5	1.26%	0.09%	7.2%
3	02W01	2/8/2017	Uranium-238	2280	116.508		µg/L					
3	02W01	4/24/2017	Uranium-235	24	1.226		µg/L	1974	99.7	1.22%	0.09%	7.2%
3	02W01	4/24/2017	Uranium-238	1950	99.645		µg/L					
3	02W02	4/24/2017	Uranium-235	25.9	1.323		µg/L	2346	118.6	1.10%	0.08%	7.2%
3	02W02	4/24/2017	Uranium-238	2320	118.552		µg/L					
3	02W03	4/24/2017	Uranium-235	10	0.511		µg/L	796	40.2	1.26%	0.09%	7.2%
3	02W03	4/24/2017	Uranium-238	786	40.165		µg/L					
3	02W04	4/24/2017	Uranium-235	2.84	0.145		µg/L	222	11.2	1.28%	0.09%	7.2%
3	02W04	4/24/2017	Uranium-238	219	11.191		µg/L					
3	02W05	4/24/2017	Uranium-235	8.1	0.414		µg/L	638	32.2	1.27%	0.09%	7.2%
3	02W05	4/24/2017	Uranium-238	630	32.193		µg/L					
3	02W07	4/20/2017	Uranium-235	18	0.920		µg/L	1478	74.6	1.22%	0.09%	7.2%
3	02W07	4/20/2017	Uranium-238	1460	74.606		µg/L					
	02W08	2/7/2017	Uranium-235	6.04	0.309		µg/L	496	25.0	1.22%	0.09%	7.2%
	02W08	2/7/2017	Uranium-238	490	25.039		µg/L					
	02W09	5/2/2017	Uranium-235	0.0669	0.003	J	µg/L	7	0.3	1.00%	0.07%	7.2%
	02W09	5/2/2017	Uranium-238	6.63	0.339		µg/L					
	02W10	4/25/2017	Uranium-235	0.0325	0.002	J	µg/L	4	0.2	0.74%	0.05%	7.2%
	02W10	4/25/2017	Uranium-238	4.34	0.222		µg/L					
3	02W11	4/24/2017	Uranium-235	0.583	0.030		µg/L	53	2.7	1.09%	0.08%	7.2%
3	02W11	4/24/2017	Uranium-238	52.8	2.698		µg/L					
	02W12	4/24/2017	Uranium-235	0.709	0.036		µg/L	66	3.3	1.08%	0.08%	7.2%
	02W12	4/24/2017	Uranium-238	64.8	3.311		µg/L					
	02W13	4/24/2017	Uranium-235	0.291	0.015		µg/L	30	1.5	0.96%	0.07%	7.2%
	02W13	4/24/2017	Uranium-238	29.9	1.528		µg/L					
3	02W14	4/24/2017	Uranium-235	3.51	0.179		µg/L	306	15.4	1.15%	0.08%	7.2%
3	02W14	4/24/2017	Uranium-238	302	15.432		µg/L					
	02W15	4/24/2017	Uranium-235	0.308	0.016		µg/L	26	1.3	1.20%	0.09%	7.2%
	02W15	4/24/2017	Uranium-238	25.3	1.293		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
3	02W18	4/20/2017	Uranium-235	6.04	0.309		µg/L	504	25.4	1.20%	0.09%	7.2%
3	02W18	4/20/2017	Uranium-238	498	25.448		µg/L					
3	02W19	4/20/2017	Uranium-235	15.9	0.812		µg/L	1306	65.9	1.22%	0.09%	7.2%
3	02W19	4/20/2017	Uranium-238	1290	65.919		µg/L					
	02W20	4/25/2017	Uranium-235	0.0155	0.001	J	µg/L	2	0.1	1.00%	0.07%	7.2%
	02W20	4/25/2017	Uranium-238	1.53	0.078		µg/L					
	02W24	4/20/2017	Uranium-235	0.129	0.007		µg/L	14	0.7	0.92%	0.07%	7.2%
	02W24	4/20/2017	Uranium-238	13.9	0.710		µg/L					
	02W25	4/26/2017	Uranium-235	0.482	0.025		µg/L	28	1.4	1.69%	0.12%	7.2%
	02W25	4/26/2017	Uranium-238	28	1.431		µg/L					
	02W26	4/25/2017	Uranium-235	0.0263	0.001	J	µg/L	3	0.1	0.95%	0.07%	7.2%
	02W26	4/25/2017	Uranium-238	2.74	0.140		µg/L					
	02W27	5/2/2017	Uranium-235	1.24	0.063		µg/L	93	4.7	1.34%	0.10%	7.2%
	02W27	5/2/2017	Uranium-238	91.4	4.671		µg/L					
3	02W28	5/2/2017	Uranium-235	3.41	0.174		µg/L	301	15.2	1.13%	0.08%	7.2%
3	02W28	5/2/2017	Uranium-238	298	15.228		µg/L					
3	02W29	4/25/2017	Uranium-235	8.16	0.417		µg/L	735	37.2	1.11%	0.08%	7.2%
3	02W29	4/25/2017	Uranium-238	727	37.150		µg/L					
3	02W30	4/25/2017	Uranium-235	3.95	0.202		µg/L	266	13.4	1.49%	0.11%	7.2%
3	02W30	4/25/2017	Uranium-238	262	13.388		µg/L					
3	02W31	4/24/2017	Uranium-235	8.56	0.437		µg/L	783	39.6	1.09%	0.08%	7.2%
3	02W31	4/24/2017	Uranium-238	774	39.551		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	02W32	12/15/2016	Uranium-235	18.7	0.956		µg/L	1569	79.2	1.19%	0.09%	7.2%
	02W32	12/15/2016	Uranium-238	1550	79.205		µg/L					
	02W32	2/7/2017	Uranium-235	11.8	0.603		µg/L	1032	52.1	1.14%	0.08%	7.2%
	02W32	2/7/2017	Uranium-238	1020	52.122		µg/L					
	02W32-11.0	12/15/2016	Uranium-235	3.08	0.157		µg/L	269	13.6	1.14%	0.08%	7.2%
	02W32-11.0	12/15/2016	Uranium-238	266	13.593		µg/L					
	02W32-13.0	12/15/2016	Uranium-235	7.66	0.391		µg/L	649	32.8	1.18%	0.08%	7.2%
	02W32-13.0	12/15/2016	Uranium-238	641	32.755		µg/L					
	02W32-13.0	12/15/2016	Uranium-235	8.46	0.432		µg/L	709	35.8	1.19%	0.09%	7.2%
	02W32-13.0	12/15/2016	Uranium-238	701	35.821		µg/L					
	02W32-15.0	12/15/2016	Uranium-235	2.69	0.137		µg/L	227	11.4	1.19%	0.09%	7.2%
	02W32-15.0	12/15/2016	Uranium-238	224	11.446		µg/L					
	02W32-17.0	12/15/2016	Uranium-235	4.76	0.243		µg/L	408	20.6	1.17%	0.08%	7.2%
	02W32-17.0	12/15/2016	Uranium-238	403	20.593		µg/L					
	02W33	4/24/2017	Uranium-235	0.118	0.006		µg/L	16	0.8	0.72%	0.05%	7.2%
	02W33	4/24/2017	Uranium-238	16.3	0.833		µg/L					
	02W36	4/24/2017	Uranium-235	0.14	0.007		µg/L	15	0.8	0.91%	0.07%	7.2%
	02W36	4/24/2017	Uranium-238	15.3	0.782		µg/L					
	02W36DUP	4/24/2017	Uranium-235	0.124	0.006		µg/L	14	0.7	0.88%	0.06%	7.2%
	02W36DUP	4/24/2017	Uranium-238	14	0.715		µg/L					
3	02W37	4/20/2017	Uranium-235	9.35	0.478		µg/L	789	39.9	1.18%	0.09%	7.2%
3	02W37	4/20/2017	Uranium-238	780	39.858		µg/L					
3	02W38	4/24/2017	Uranium-235	2.24	0.114		µg/L	198	10.0	1.13%	0.08%	7.2%
3	02W38	4/24/2017	Uranium-238	196	10.016		µg/L					
3	02W39	2/8/2017	Uranium-235	4.34	0.222		µg/L	344	17.4	1.26%	0.09%	7.2%
3	02W39	2/8/2017	Uranium-238	340	17.374		µg/L					
3	02W39	4/25/2017	Uranium-235	4.74	0.242		µg/L	383	19.3	1.24%	0.09%	7.2%
3	02W39	4/25/2017	Uranium-238	378	19.316		µg/L					
	02W40	2/8/2017	Uranium-235	10.6	0.542		µg/L	842	42.5	1.26%	0.09%	7.2%
	02W40	2/8/2017	Uranium-238	831	42.464		µg/L					
	02W40	4/25/2017	Uranium-235	12.4	0.634		µg/L	1012	51.1	1.22%	0.09%	7.2%
	02W40	4/25/2017	Uranium-238	1000	51.100		µg/L					
	02W41	4/25/2017	Uranium-235	4.82	0.246		µg/L	354	17.8	1.36%	0.10%	7.2%
	02W41	4/25/2017	Uranium-238	349	17.834		µg/L					
	02W42	5/2/2017	Uranium-235	1.41	0.072		µg/L	128	6.5	1.10%	0.08%	7.2%
	02W42	5/2/2017	Uranium-238	127	6.490		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	02W44	12/15/2016	Uranium-235	3.79	0.194		µg/L	307	15.5	1.24%	0.09%	7.2%
	02W44	12/15/2016	Uranium-238	303	15.483		µg/L					
	02W44	2/7/2017	Uranium-235	4.14	0.212		µg/L	345	17.4	1.20%	0.09%	7.2%
	02W44	2/7/2017	Uranium-238	341	17.425		µg/L					
	02W44-10.5	12/15/2016	Uranium-235	0.388	0.020		µg/L	32	1.6	1.23%	0.09%	7.2%
	02W44-10.5	12/15/2016	Uranium-238	31.2	1.594		µg/L					
	02W44-12.5	12/15/2016	Uranium-235	2.72	0.139		µg/L	216	10.9	1.26%	0.09%	7.2%
	02W44-12.5	12/15/2016	Uranium-238	213	10.884		µg/L					
	02W44-14.5	12/15/2016	Uranium-235	4.45	0.227		µg/L	361	18.2	1.23%	0.09%	7.2%
	02W44-14.5	12/15/2016	Uranium-238	357	18.243		µg/L					
	02W44-16.5	12/15/2016	Uranium-235	3.49	0.178		µg/L	286	14.5	1.22%	0.09%	7.2%
	02W44-16.5	12/15/2016	Uranium-238	283	14.461		µg/L					
	02W44-18.5	12/15/2016	Uranium-235	3.32	0.170		µg/L	278	14.1	1.19%	0.09%	7.2%
	02W44-18.5	12/15/2016	Uranium-238	275	14.053		µg/L					
	02W44-20.5	12/15/2016	Uranium-235	1.3	0.066		µg/L	110	5.6	1.18%	0.08%	7.2%
	02W44-20.5	12/15/2016	Uranium-238	109	5.570		µg/L					
	02W44-22.5	12/15/2016	Uranium-235	1.49	0.076		µg/L	122	6.2	1.22%	0.09%	7.2%
	02W44-22.5	12/15/2016	Uranium-238	121	6.183		µg/L					
	02W44-22.5	12/15/2016	Uranium-235	1.52	0.078		µg/L	127	6.4	1.20%	0.09%	7.2%
	02W44-22.5	12/15/2016	Uranium-238	125	6.388		µg/L					
	02W44-24.5	12/15/2016	Uranium-235	1.96	0.100		µg/L	159	8.0	1.23%	0.09%	7.2%
	02W44-24.5	12/15/2016	Uranium-238	157	8.023		µg/L					
	02W44A	12/15/2016	Uranium-235	3.9	0.199		µg/L	317	16.0	1.23%	0.09%	7.2%
	02W44A	12/15/2016	Uranium-238	313	15.994		µg/L					
	02W44B	12/15/2016	Uranium-235	3.71	0.190		µg/L	302	15.2	1.23%	0.09%	7.2%
	02W44B	12/15/2016	Uranium-238	298	15.228		µg/L					
	02W44C	12/15/2016	Uranium-235	3.93	0.201		µg/L	312	15.7	1.26%	0.09%	7.2%
	02W44C	12/15/2016	Uranium-238	308	15.739		µg/L					
	02W44D	12/15/2016	Uranium-235	3.94	0.201		µg/L	322	16.3	1.22%	0.09%	7.2%
	02W44D	12/15/2016	Uranium-238	318	16.250		µg/L					
	02W45	4/20/2017	Uranium-235	0.473	0.024		µg/L	41	2.1	1.15%	0.08%	7.2%
	02W45	4/20/2017	Uranium-238	40.7	2.080		µg/L					
3	02W46	4/24/2017	Uranium-235	19.8	1.012		µg/L	1810	91.5	1.09%	0.08%	7.2%
3	02W46	4/24/2017	Uranium-238	1790	91.469		µg/L					
3	02W47	4/25/2017	Uranium-235	3.74	0.191		µg/L	166	8.3	2.26%	0.16%	7.1%
3	02W47	4/25/2017	Uranium-238	162	8.278		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	02W48	4/19/2017	Uranium-235	0.184	0.009		µg/L	26	1.3	0.71%	0.05%	7.2%
	02W48	4/19/2017	Uranium-238	25.6	1.308		µg/L					
	02W53	4/25/2017	Uranium-235	0.48	0.025		µg/L	38	1.9	1.27%	0.09%	7.2%
	02W53	4/25/2017	Uranium-238	37.2	1.901		µg/L					
	02W53DUP	4/25/2017	Uranium-235	0.484	0.025		µg/L	38	1.9	1.27%	0.09%	7.2%
	02W53DUP	4/25/2017	Uranium-238	37.7	1.926		µg/L					
3	1315R	2/8/2017	Uranium-235	6.11	0.312		µg/L	523	26.4	1.17%	0.08%	7.2%
3	1315R	2/8/2017	Uranium-238	517	26.419		µg/L					
3	1315R	4/25/2017	Uranium-235	8.13	0.415		µg/L	723	36.5	1.12%	0.08%	7.2%
3	1315R	4/25/2017	Uranium-238	715	36.537		µg/L					
3	1316R	4/25/2017	Uranium-235	1.71	0.087		µg/L	136	6.8	1.26%	0.09%	7.2%
3	1316R	4/25/2017	Uranium-238	134	6.847		µg/L					
	1319A-2	4/28/2017	Uranium-235	0.0354	0.002	J	µg/L	4	0.2	1.00%	0.07%	7.2%
	1319A-2	4/28/2017	Uranium-238	3.51	0.179		µg/L					
	1319A-3	4/28/2017	Uranium-235	0.0397	0.002	J	µg/L	6	0.3	0.68%	0.05%	7.2%
	1319A-3	4/28/2017	Uranium-238	5.76	0.294		µg/L					
1	1319B-1	4/28/2017	Uranium-235	0.659	0.034		µg/L	17	0.8	3.91%	0.28%	7.1%
1	1319B-1	4/28/2017	Uranium-238	16.2	0.828		µg/L					
	1319B-2	4/28/2017	Uranium-235	0.0102	0.001	J	µg/L	1	0.1	0.74%	0.05%	7.2%
	1319B-2	4/28/2017	Uranium-238	1.37	0.070		µg/L					
1	1319B-3	4/28/2017	Uranium-235	0.916	0.047		µg/L	25	1.2	3.69%	0.26%	7.1%
1	1319B-3	4/28/2017	Uranium-238	23.9	1.221		µg/L					
	1319B-4	4/28/2017	Uranium-235	0.0117	0.001	J	µg/L	2	0.1	0.72%	0.05%	7.2%
	1319B-4	4/28/2017	Uranium-238	1.61	0.082		µg/L					
	1319B-5	4/27/2017	Uranium-235	0.0388	0.002	J	µg/L	3	0.1	1.47%	0.11%	7.2%
	1319B-5	4/27/2017	Uranium-238	2.6	0.133		µg/L					
	1327B	4/27/2017	Uranium-235	0.0285	0.001	J	µg/L	4	0.2	0.67%	0.05%	7.2%
	1327B	4/27/2017	Uranium-238	4.21	0.215		µg/L					
	1335A	4/27/2017	Uranium-235	0.116	0.006		µg/L	7	0.3	1.77%	0.13%	7.2%
	1335A	4/27/2017	Uranium-238	6.42	0.328		µg/L					
2	1336A	4/27/2017	Uranium-235	0.567	0.029		µg/L	29	1.5	1.94%	0.14%	7.2%
2	1336A	4/27/2017	Uranium-238	28.7	1.467		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	1373-11.4	12/15/2016	Uranium-235	0.011	0.001	J	µg/L	1	0.1	0.75%	0.05%	7.2%
	1373-11.4	12/15/2016	Uranium-238	1.46	0.075		µg/L					
	1373-13.4	12/15/2016	Uranium-235	0.0283	0.001	J	µg/L	3	0.1	1.05%	0.08%	7.2%
	1373-13.4	12/15/2016	Uranium-238	2.67	0.136		µg/L					
	1373-15.4	12/15/2016	Uranium-235	0.323	0.017		µg/L	27	1.3	1.21%	0.09%	7.2%
	1373-15.4	12/15/2016	Uranium-238	26.4	1.349		µg/L					
	1373-17.4	12/15/2016	Uranium-235	0.573	0.029		µg/L	46	2.3	1.24%	0.09%	7.2%
	1373-17.4	12/15/2016	Uranium-238	45.8	2.340		µg/L					
	1373-19.4	12/15/2016	Uranium-235	0.0104	0.001	J	µg/L	1	0.1	0.94%	0.07%	7.2%
	1373-19.4	12/15/2016	Uranium-238	1.1	0.056		µg/L					
	1373-21.4	12/15/2016	Uranium-235	0.07		U	µg/L					
	1373-21.4	12/15/2016	Uranium-238	1.15	0.059		µg/L					
	1373-24.3	12/15/2016	Uranium-235	0.509	0.026		µg/L	42	2.1	1.21%	0.09%	7.2%
	1373-24.3	12/15/2016	Uranium-238	41.7	2.131		µg/L					
	1373-7.4	12/15/2016	Uranium-235	0.0457	0.002	J	µg/L	6	0.3	0.71%	0.05%	7.2%
	1373-7.4	12/15/2016	Uranium-238	6.38	0.326		µg/L					
	1373-9.4	12/15/2016	Uranium-235	0.0176	0.001	J	µg/L	2	0.1	0.77%	0.06%	7.2%
	1373-9.4	12/15/2016	Uranium-238	2.28	0.117		µg/L					
1	MWWA-03	5/3/2017	Uranium-235	21.4	1.094		µg/L	521	25.6	4.10%	0.29%	7.1%
1	MWWA-03	5/3/2017	Uranium-238	500	25.550		µg/L					
1	MWWA-09	2/8/2017	Uranium-235	2.35	0.120		µg/L	145	7.3	1.62%	0.12%	7.2%
1	MWWA-09	2/8/2017	Uranium-238	143	7.307		µg/L					
1	MWWA-09	5/3/2017	Uranium-235	1.94	0.099		µg/L	118	5.9	1.64%	0.12%	7.2%
1	MWWA-09	5/3/2017	Uranium-238	116	5.928		µg/L					
	T-100	4/19/2017	Uranium-235	0.189	0.010		µg/L	25	1.3	0.76%	0.05%	7.2%
	T-100	4/19/2017	Uranium-238	24.6	1.257		µg/L					
	T-101	4/19/2017	Uranium-235	0.249	0.013		µg/L	36	1.8	0.69%	0.05%	7.2%
	T-101	4/19/2017	Uranium-238	35.8	1.829		µg/L					
	T-101DUP	4/19/2017	Uranium-235	0.25	0.013		µg/L	36	1.8	0.70%	0.05%	7.2%
	T-101DUP	4/19/2017	Uranium-238	35.7	1.824		µg/L					
2	T-102	4/19/2017	Uranium-235	0.218	0.011		µg/L	32	1.6	0.68%	0.05%	7.2%
2	T-102	4/19/2017	Uranium-238	31.7	1.620		µg/L					
	T-103	4/18/2017	Uranium-235	0.0649	0.003	J	µg/L	10	0.5	0.66%	0.05%	7.2%
	T-103	4/18/2017	Uranium-238	9.73	0.497		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	T-51	12/12/2016	Uranium-235	0.319	0.016		µg/L	26	1.3	1.22%	0.09%	7.2%
	T-51	12/12/2016	Uranium-238	25.9	1.323		µg/L					
	T-51	4/18/2017	Uranium-235	0.394	0.020		µg/L	31	1.5	1.29%	0.09%	7.2%
	T-51	4/18/2017	Uranium-238	30.2	1.543		µg/L					
	T-51-11.1	12/12/2016	Uranium-235	0.0902	0.005		µg/L	10	0.5	0.94%	0.07%	7.2%
	T-51-11.1	12/12/2016	Uranium-238	9.54	0.487		µg/L					
	T-51-13.1	12/12/2016	Uranium-235	0.0968	0.005		µg/L	12	0.6	0.79%	0.06%	7.2%
	T-51-13.1	12/12/2016	Uranium-238	12.2	0.623		µg/L					
	T-51-15.1	12/12/2016	Uranium-235	0.156	0.008		µg/L	17	0.9	0.91%	0.07%	7.2%
	T-51-15.1	12/12/2016	Uranium-238	17	0.869		µg/L					
	T-51-17.1	12/12/2016	Uranium-235	0.509	0.026		µg/L	38	1.9	1.34%	0.10%	7.2%
	T-51-17.1	12/12/2016	Uranium-238	37.6	1.921		µg/L					
	T-51-19.1	12/12/2016	Uranium-235	0.969	0.050		µg/L	64	3.2	1.52%	0.11%	7.2%
	T-51-19.1	12/12/2016	Uranium-238	62.8	3.209		µg/L					
	T-51-9.1	12/12/2016	Uranium-235	0.0805	0.004		µg/L	8	0.4	0.99%	0.07%	7.2%
	T-51-9.1	12/12/2016	Uranium-238	8.02	0.410		µg/L					
	T-51-9.1	12/12/2016	Uranium-235	0.0652	0.003	J	µg/L	8	0.4	0.87%	0.06%	7.2%
	T-51-9.1	12/12/2016	Uranium-238	7.46	0.381		µg/L					
	T-51A	12/13/2016	Uranium-235	0.313	0.016		µg/L	25	1.3	1.25%	0.09%	7.2%
	T-51A	12/13/2016	Uranium-238	24.8	1.267		µg/L					
	T-51B	12/13/2016	Uranium-235	0.321	0.016		µg/L	25	1.2	1.30%	0.09%	7.2%
	T-51B	12/13/2016	Uranium-238	24.4	1.247		µg/L					
	T-51C	12/13/2016	Uranium-235	0.32	0.016		µg/L	25	1.2	1.29%	0.09%	7.2%
	T-51C	12/13/2016	Uranium-238	24.4	1.247		µg/L					
	T-51D	12/13/2016	Uranium-235	0.311	0.016		µg/L	24	1.2	1.28%	0.09%	7.2%
	T-51D	12/13/2016	Uranium-238	24	1.226		µg/L					
	T-51DUP	4/18/2017	Uranium-235	0.388	0.020		µg/L	31	1.5	1.26%	0.09%	7.2%
	T-51DUP	4/18/2017	Uranium-238	30.3	1.548		µg/L					
	T-52	4/18/2017	Uranium-235	0.187	0.010		µg/L	17	0.9	1.09%	0.08%	7.2%
	T-52	4/18/2017	Uranium-238	16.9	0.864		µg/L					
	T-52DUP	4/18/2017	Uranium-235	0.188	0.010		µg/L	17	0.9	1.11%	0.08%	7.2%
	T-52DUP	4/18/2017	Uranium-238	16.7	0.853		µg/L					
2	T-53	4/18/2017	Uranium-235	0.175	0.009		µg/L	22	1.1	0.81%	0.06%	7.2%
2	T-53	4/18/2017	Uranium-238	21.5	1.099		µg/L					
2	T-53DUP	4/18/2017	Uranium-235	0.176	0.009		µg/L	22	1.1	0.81%	0.06%	7.2%
2	T-53DUP	4/18/2017	Uranium-238	21.5	1.099		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	T-54	4/18/2017	Uranium-235	0.0227	0.001	J	µg/L	2	0.1	1.02%	0.07%	7.2%
	T-54	4/18/2017	Uranium-238	2.2	0.112		µg/L					
	T-55	4/18/2017	Uranium-235	0.0379	0.002	J	µg/L	4	0.2	0.89%	0.06%	7.2%
	T-55	4/18/2017	Uranium-238	4.2	0.215		µg/L					
	T-56	4/18/2017	Uranium-235	0.0514	0.003	J	µg/L	7	0.4	0.69%	0.05%	7.2%
	T-56	4/18/2017	Uranium-238	7.36	0.376		µg/L					
	T-57	4/17/2017	Uranium-235	0.27	0.014		µg/L	14	0.7	1.89%	0.14%	7.2%
	T-57	4/17/2017	Uranium-238	14	0.715		µg/L					
	T-57DUP	4/17/2017	Uranium-235	0.271	0.014		µg/L	14	0.7	1.87%	0.13%	7.2%
	T-57DUP	4/17/2017	Uranium-238	14.2	0.726		µg/L					
	T-58	4/17/2017	Uranium-235	0.335	0.017		µg/L	17	0.8	2.00%	0.14%	7.2%
	T-58	4/17/2017	Uranium-238	16.4	0.838		µg/L					
2	T-59	12/13/2016	Uranium-235	0.681	0.035		µg/L	94	4.8	0.73%	0.05%	7.2%
2	T-59	12/13/2016	Uranium-238	93.1	4.757		µg/L					
2	T-59	2/7/2017	Uranium-235	0.707	0.036		µg/L	96	4.9	0.73%	0.05%	7.2%
2	T-59	2/7/2017	Uranium-238	95.7	4.890		µg/L					
2	T-59	4/18/2017	Uranium-235	0.626	0.032		µg/L	88	4.4	0.71%	0.05%	7.2%
2	T-59	4/18/2017	Uranium-238	87	4.446		µg/L					
2	T-59-11.1	12/13/2016	Uranium-235	0.078	0.004		µg/L	10	0.5	0.74%	0.05%	7.2%
2	T-59-11.1	12/13/2016	Uranium-238	10.4	0.531		µg/L					
2	T-59-13.1	12/13/2016	Uranium-235	0.07	0.004	U	µg/L					
2	T-59-13.1	12/13/2016	Uranium-238	0.36	0.018		µg/L					
2	T-59-15.1	12/13/2016	Uranium-235	0.235	0.012		µg/L	32	1.6	0.73%	0.05%	7.2%
2	T-59-15.1	12/13/2016	Uranium-238	32	1.635		µg/L					
2	T-59-17.1	12/13/2016	Uranium-235	0.293	0.015		µg/L	37	1.9	0.80%	0.06%	7.2%
2	T-59-17.1	12/13/2016	Uranium-238	36.4	1.860		µg/L					
2	T-59-19.1	12/13/2016	Uranium-235	0.468	0.024		µg/L	65	3.3	0.72%	0.05%	7.2%
2	T-59-19.1	12/13/2016	Uranium-238	64.5	3.296		µg/L					
2	T-59-7.1	12/13/2016	Uranium-235	0.0717	0.004		µg/L	7	0.3	1.04%	0.07%	7.2%
2	T-59-7.1	12/13/2016	Uranium-238	6.81	0.348		µg/L					
2	T-59-7.1	12/13/2016	Uranium-235	0.0729	0.004		µg/L	7	0.3	1.06%	0.08%	7.2%
2	T-59-7.1	12/13/2016	Uranium-238	6.8	0.347		µg/L					
2	T-59-9.1	12/13/2016	Uranium-235	0.0846	0.004		µg/L	9	0.5	0.90%	0.06%	7.2%
2	T-59-9.1	12/13/2016	Uranium-238	9.29	0.475		µg/L					
2	T-59DUP	4/18/2017	Uranium-235	0.615	0.031		µg/L	86	4.3	0.72%	0.05%	7.2%
2	T-59DUP	4/18/2017	Uranium-238	85	4.344		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
2	T-60	4/18/2017	Uranium-235	0.271	0.014		µg/L	38	1.9	0.72%	0.05%	7.2%
2	T-60	4/18/2017	Uranium-238	37.6	1.921		µg/L					
2	T-61	2/7/2017	Uranium-235	0.228	0.012		µg/L	32	1.6	0.71%	0.05%	7.2%
2	T-61	2/7/2017	Uranium-238	31.9	1.630		µg/L					
2	T-61	4/18/2017	Uranium-235	0.162	0.008		µg/L	24	1.2	0.68%	0.05%	7.2%
2	T-61	4/18/2017	Uranium-238	23.8	1.216		µg/L					
1	T-62	2/7/2017	Uranium-235	3.26	0.167		µg/L	168	8.4	1.94%	0.14%	7.2%
1	T-62	2/7/2017	Uranium-238	165	8.432		µg/L					
1	T-62	2/7/2017	Uranium-235	3.47	0.177		µg/L	177	8.9	1.96%	0.14%	7.2%
1	T-62	2/7/2017	Uranium-238	174	8.891		µg/L					
1	T-62	5/2/2017	Uranium-235	2.09	0.107		µg/L	110	5.5	1.90%	0.14%	7.2%
1	T-62	5/2/2017	Uranium-238	108	5.519		µg/L					
	T-63	4/17/2017	Uranium-235	2.15	0.110		µg/L	104	5.2	2.06%	0.15%	7.2%
	T-63	4/17/2017	Uranium-238	102	5.212		µg/L					
1	T-64	5/2/2017	Uranium-235	1.19	0.061		µg/L	43	2.1	2.77%	0.20%	7.1%
1	T-64	5/2/2017	Uranium-238	41.7	2.131		µg/L					
1	T-65	4/17/2017	Uranium-235	2.11	0.108		µg/L	125	6.3	1.69%	0.12%	7.2%
1	T-65	4/17/2017	Uranium-238	123	6.285		µg/L					
1	T-66	4/17/2017	Uranium-235	1.54	0.079		µg/L	105	5.3	1.47%	0.11%	7.2%
1	T-66	4/17/2017	Uranium-238	103	5.263		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
1	T-67	12/14/2016	Uranium-235	2.95	0.151		µg/L	134	6.7	2.20%	0.16%	7.1%
1	T-67	12/14/2016	Uranium-238	131	6.694		µg/L					
1	T-67	4/17/2017	Uranium-235	2.56	0.131		µg/L	125	6.2	2.06%	0.15%	7.2%
1	T-67	4/17/2017	Uranium-238	122	6.234		µg/L					
1	T-67-11.6	12/14/2016	Uranium-235	3.49	0.178		µg/L	147	7.4	2.37%	0.17%	7.1%
1	T-67-11.6	12/14/2016	Uranium-238	144	7.358		µg/L					
1	T-67-11.6	12/14/2016	Uranium-235	3.71	0.190		µg/L	157	7.8	2.37%	0.17%	7.1%
1	T-67-11.6	12/14/2016	Uranium-238	153	7.818		µg/L					
1	T-67-13.6	12/14/2016	Uranium-235	4.35	0.222		µg/L	183	9.1	2.37%	0.17%	7.1%
1	T-67-13.6	12/14/2016	Uranium-238	179	9.147		µg/L					
1	T-67-15.6	12/14/2016	Uranium-235	4.22	0.216		µg/L	174	8.7	2.42%	0.17%	7.1%
1	T-67-15.6	12/14/2016	Uranium-238	170	8.687		µg/L					
1	T-67-17.6	12/14/2016	Uranium-235	3.48	0.178		µg/L	153	7.7	2.27%	0.16%	7.1%
1	T-67-17.6	12/14/2016	Uranium-238	150	7.665		µg/L					
1	T-67-19.6	12/14/2016	Uranium-235	2.85	0.146		µg/L	129	6.4	2.21%	0.16%	7.1%
1	T-67-19.6	12/14/2016	Uranium-238	126	6.439		µg/L					
1	T-67-21.6	12/14/2016	Uranium-235	1.97	0.101		µg/L	97	4.8	2.04%	0.15%	7.2%
1	T-67-21.6	12/14/2016	Uranium-238	94.8	4.844		µg/L					
1	T-67-23.6	12/14/2016	Uranium-235	0.799	0.041		µg/L	49	2.5	1.64%	0.12%	7.2%
1	T-67-23.6	12/14/2016	Uranium-238	48	2.453		µg/L					
1	T-67-25.6	12/14/2016	Uranium-235	0.393	0.020		µg/L	33	1.7	1.19%	0.09%	7.2%
1	T-67-25.6	12/14/2016	Uranium-238	32.7	1.671		µg/L					
1	T-67-9.6	12/14/2016	Uranium-235	2.95	0.151		µg/L	129	6.4	2.29%	0.16%	7.1%
1	T-67-9.6	12/14/2016	Uranium-238	126	6.439		µg/L					
1	T-67A	12/14/2016	Uranium-235	2.95	0.151		µg/L	137	6.8	2.15%	0.15%	7.2%
1	T-67A	12/14/2016	Uranium-238	134	6.847		µg/L					
1	T-67B	12/14/2016	Uranium-235	2.82	0.144		µg/L	131	6.5	2.16%	0.15%	7.2%
1	T-67B	12/14/2016	Uranium-238	128	6.541		µg/L					
1	T-67C	12/14/2016	Uranium-235	2.94	0.150		µg/L	136	6.8	2.16%	0.15%	7.1%
1	T-67C	12/14/2016	Uranium-238	133	6.796		µg/L					
1	T-67D	12/14/2016	Uranium-235	3.03	0.155		µg/L	141	7.1	2.15%	0.15%	7.2%
1	T-67D	12/14/2016	Uranium-238	138	7.052		µg/L					
1	T-67DUP	4/17/2017	Uranium-235	2.59	0.132		µg/L	125	6.2	2.08%	0.15%	7.2%
1	T-67DUP	4/17/2017	Uranium-238	122	6.234		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
1	T-68	12/14/2016	Uranium-235	2.42	0.124		µg/L	107	5.4	2.25%	0.16%	7.1%
1	T-68	12/14/2016	Uranium-238	105	5.366		µg/L					
1	T-68	4/18/2017	Uranium-235	2.6	0.133		µg/L	140	7.0	1.86%	0.13%	7.2%
1	T-68	4/18/2017	Uranium-238	137	7.001		µg/L					
1	T-68-11.2	12/14/2016	Uranium-235	1.74	0.089		µg/L	87	4.4	2.00%	0.14%	7.2%
1	T-68-11.2	12/14/2016	Uranium-238	85.2	4.354		µg/L					
1	T-68-13.2	12/14/2016	Uranium-235	2.57	0.131		µg/L	136	6.8	1.90%	0.14%	7.2%
1	T-68-13.2	12/14/2016	Uranium-238	133	6.796		µg/L					
1	T-68-13.2	12/14/2016	Uranium-235	2.59	0.132		µg/L	136	6.8	1.91%	0.14%	7.2%
1	T-68-13.2	12/14/2016	Uranium-238	133	6.796		µg/L					
1	T-68-15.2	12/14/2016	Uranium-235	2.55	0.130		µg/L	156	7.8	1.64%	0.12%	7.2%
1	T-68-15.2	12/14/2016	Uranium-238	153	7.818		µg/L					
1	T-68-17.2	12/14/2016	Uranium-235	2.08	0.106		µg/L	67	3.3	3.11%	0.22%	7.1%
1	T-68-17.2	12/14/2016	Uranium-238	64.7	3.306		µg/L					
1	T-68-19.2	12/14/2016	Uranium-235	0.589	0.030		µg/L	21	1.0	2.82%	0.20%	7.1%
1	T-68-19.2	12/14/2016	Uranium-238	20.3	1.037		µg/L					
1	T-68-21.2	12/14/2016	Uranium-235	0.0883	0.005		µg/L	8	0.4	1.06%	0.08%	7.2%
1	T-68-21.2	12/14/2016	Uranium-238	8.23	0.421		µg/L					
1	T-68-23.2	12/14/2016	Uranium-235	0.0673	0.003	J	µg/L	8	0.4	0.87%	0.06%	7.2%
1	T-68-23.2	12/14/2016	Uranium-238	7.67	0.392		µg/L					
1	T-68-25.2	12/14/2016	Uranium-235	0.0878	0.004		µg/L	9	0.5	0.93%	0.07%	7.2%
1	T-68-25.2	12/14/2016	Uranium-238	9.34	0.477		µg/L					
1	T-68-26.4	12/14/2016	Uranium-235	0.112	0.006		µg/L	14	0.7	0.81%	0.06%	7.2%
1	T-68-26.4	12/14/2016	Uranium-238	13.7	0.700		µg/L					
1	T-68-9.2	12/14/2016	Uranium-235	0.586	0.030		µg/L	28	1.4	2.09%	0.15%	7.2%
1	T-68-9.2	12/14/2016	Uranium-238	27.4	1.400		µg/L					
1	T-68DUP	4/18/2017	Uranium-235	2.56	0.131		µg/L	139	7.0	1.85%	0.13%	7.2%
1	T-68DUP	4/18/2017	Uranium-238	136	6.950		µg/L					
1	T-69	2/7/2017	Uranium-235	1.6	0.082		µg/L	92	4.6	1.73%	0.12%	7.2%
1	T-69	2/7/2017	Uranium-238	90.7	4.635		µg/L					
1	T-69	4/18/2017	Uranium-235	1.49	0.076		µg/L	88	4.4	1.69%	0.12%	7.2%
1	T-69	4/18/2017	Uranium-238	86.8	4.435		µg/L					
1	T-70R	5/2/2017	Uranium-235	2.37	0.121		µg/L	60	2.9	3.96%	0.28%	7.1%
1	T-70R	5/2/2017	Uranium-238	57.5	2.938		µg/L					
1	T-72	4/18/2017	Uranium-235	1.94	0.099		µg/L	94	4.7	2.06%	0.15%	7.2%
1	T-72	4/18/2017	Uranium-238	92.2	4.711		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	T-73	4/18/2017	Uranium-235	0.0628	0.003	J	µg/L	9	0.5	0.70%	0.05%	7.2%
	T-73	4/18/2017	Uranium-238	8.93	0.456		µg/L					
	T-74	4/17/2017	Uranium-235	0.115	0.006		µg/L	12	0.6	0.95%	0.07%	7.2%
	T-74	4/17/2017	Uranium-238	12	0.613		µg/L					
1	T-75	4/18/2017	Uranium-235	3.11	0.159		µg/L	70	3.4	4.45%	0.31%	7.1%
1	T-75	4/18/2017	Uranium-238	66.8	3.413		µg/L					
1	T-76	2/7/2017	Uranium-235	2.86	0.146		µg/L	155	7.8	1.85%	0.13%	7.2%
1	T-76	2/7/2017	Uranium-238	152	7.767		µg/L					
1	T-76	5/2/2017	Uranium-235	2.72	0.139		µg/L	154	7.7	1.77%	0.13%	7.2%
1	T-76	5/2/2017	Uranium-238	151	7.716		µg/L					
1	T-77	2/7/2017	Uranium-235	3.2	0.164		µg/L	77	3.8	4.14%	0.29%	7.1%
1	T-77	2/7/2017	Uranium-238	74.1	3.787		µg/L					
1	T-77	5/2/2017	Uranium-235	1.78	0.091		µg/L	56	2.8	3.20%	0.23%	7.1%
1	T-77	5/2/2017	Uranium-238	53.9	2.754		µg/L					
	T-78	4/18/2017	Uranium-235	0.103	0.005		µg/L	13	0.7	0.77%	0.06%	7.2%
	T-78	4/18/2017	Uranium-238	13.2	0.675		µg/L					
1	T-79	2/7/2017	Uranium-235	1.46	0.075		µg/L	42	2.1	3.46%	0.25%	7.1%
1	T-79	2/7/2017	Uranium-238	40.7	2.080		µg/L					
1	T-79	2/7/2017	Uranium-235	1.48	0.076		µg/L	41	2.0	3.57%	0.25%	7.1%
1	T-79	2/7/2017	Uranium-238	40	2.044		µg/L					
1	T-79	5/2/2017	Uranium-235	1.42	0.073		µg/L	44	2.2	3.23%	0.23%	7.1%
1	T-79	5/2/2017	Uranium-238	42.5	2.172		µg/L					
	T-81	4/18/2017	Uranium-235	0.0843	0.004		µg/L	10	0.5	0.82%	0.06%	7.2%
	T-81	4/18/2017	Uranium-238	10.2	0.521		µg/L					
1	T-82	5/2/2017	Uranium-235	0.425	0.022		µg/L	28	1.4	1.53%	0.11%	7.2%
1	T-82	5/2/2017	Uranium-238	27.4	1.400		µg/L					
1	T-82DUP	5/2/2017	Uranium-235	0.408	0.021		µg/L	27	1.4	1.51%	0.11%	7.2%
1	T-82DUP	5/2/2017	Uranium-238	26.6	1.359		µg/L					
	T-83	4/18/2017	Uranium-235	0.109	0.006		µg/L	13	0.7	0.83%	0.06%	7.2%
	T-83	4/18/2017	Uranium-238	13.1	0.669		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
1	T-84	12/13/2016	Uranium-235	0.54	0.028		µg/L	38	1.9	1.41%	0.10%	7.2%
1	T-84	12/13/2016	Uranium-238	37.7	1.926		µg/L					
1	T-84	4/18/2017	Uranium-235	0.683	0.035		µg/L	46	2.3	1.50%	0.11%	7.2%
1	T-84	4/18/2017	Uranium-238	45	2.300		µg/L					
1	T-84-10.9	12/13/2016	Uranium-235	0.766	0.039		µg/L	39	2.0	1.95%	0.14%	7.2%
1	T-84-10.9	12/13/2016	Uranium-238	38.5	1.967		µg/L					
1	T-84-12.9	12/13/2016	Uranium-235	1.73	0.088		µg/L	86	4.3	2.02%	0.14%	7.2%
1	T-84-12.9	12/13/2016	Uranium-238	83.8	4.282		µg/L					
1	T-84-14.9	12/13/2016	Uranium-235	1	0.051		µg/L	61	3.1	1.64%	0.12%	7.2%
1	T-84-14.9	12/13/2016	Uranium-238	60.1	3.071		µg/L					
1	T-84-16.9	12/13/2016	Uranium-235	0.524	0.027		µg/L	43	2.2	1.22%	0.09%	7.2%
1	T-84-16.9	12/13/2016	Uranium-238	42.3	2.162		µg/L					
1	T-84-18.9	12/13/2016	Uranium-235	0.272	0.014		µg/L	32	1.6	0.84%	0.06%	7.2%
1	T-84-18.9	12/13/2016	Uranium-238	32	1.635		µg/L					
1	T-84-20.9	12/13/2016	Uranium-235	0.105	0.005		µg/L	13	0.7	0.81%	0.06%	7.2%
1	T-84-20.9	12/13/2016	Uranium-238	12.8	0.654		µg/L					
1	T-84-22.9	12/13/2016	Uranium-235	0.117	0.006		µg/L	15	0.8	0.79%	0.06%	7.2%
1	T-84-22.9	12/13/2016	Uranium-238	14.7	0.751		µg/L					
1	T-84-6.9	12/13/2016	Uranium-235	0.13	0.007		µg/L	16	0.8	0.83%	0.06%	7.2%
1	T-84-6.9	12/13/2016	Uranium-238	15.5	0.792		µg/L					
1	T-84-8.9	12/13/2016	Uranium-235	0.268	0.014		µg/L	16	0.8	1.64%	0.12%	7.2%
1	T-84-8.9	12/13/2016	Uranium-238	16.1	0.823		µg/L					
1	T-84-8.9	12/13/2016	Uranium-235	0.28	0.014		µg/L	17	0.8	1.68%	0.12%	7.2%
1	T-84-8.9	12/13/2016	Uranium-238	16.4	0.838		µg/L					
	T-85	4/18/2017	Uranium-235	0.293	0.015		µg/L	24	1.2	1.23%	0.09%	7.2%
	T-85	4/18/2017	Uranium-238	23.6	1.206		µg/L					
	T-85DUP	4/18/2017	Uranium-235	0.295	0.015		µg/L	24	1.2	1.23%	0.09%	7.2%
	T-85DUP	4/18/2017	Uranium-238	23.7	1.211		µg/L					
2	T-86	4/17/2017	Uranium-235	0.307	0.016		µg/L	22	1.1	1.40%	0.10%	7.2%
2	T-86	4/17/2017	Uranium-238	21.6	1.104		µg/L					
2	T-86DUP	4/17/2017	Uranium-235	0.287	0.015		µg/L	21	1.1	1.37%	0.10%	7.2%
2	T-86DUP	4/17/2017	Uranium-238	20.7	1.058		µg/L					
2	T-87	4/17/2017	Uranium-235	0.131	0.007		µg/L	17	0.8	0.79%	0.06%	7.2%
2	T-87	4/17/2017	Uranium-238	16.4	0.838		µg/L					
2	T-87DUP	4/17/2017	Uranium-235	0.134	0.007		µg/L	17	0.8	0.81%	0.06%	7.2%
2	T-87DUP	4/17/2017	Uranium-238	16.4	0.838		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	T-88	2/7/2017	Uranium-235	0.0759	0.004		µg/L	10	0.5	0.76%	0.05%	7.2%
	T-88	2/7/2017	Uranium-238	9.86	0.504		µg/L					
	T-88	2/7/2017	Uranium-235	0.0725	0.004		µg/L	10	0.5	0.72%	0.05%	7.2%
	T-88	2/7/2017	Uranium-238	9.95	0.508		µg/L					
	T-88	4/18/2017	Uranium-235	0.0723	0.004		µg/L	10	0.5	0.71%	0.05%	7.2%
	T-88	4/18/2017	Uranium-238	10.1	0.516		µg/L					
2	T-89	4/19/2017	Uranium-235	0.325	0.017		µg/L	45	2.3	0.72%	0.05%	7.2%
2	T-89	4/19/2017	Uranium-238	44.6	2.279		µg/L					
2	T-90	4/19/2017	Uranium-235	0.19	0.010		µg/L	25	1.3	0.76%	0.05%	7.2%
2	T-90	4/19/2017	Uranium-238	24.8	1.267		µg/L					
	T-91	4/19/2017	Uranium-235	0.199	0.010		µg/L	27	1.4	0.74%	0.05%	7.2%
	T-91	4/19/2017	Uranium-238	26.7	1.364		µg/L					
2	T-92R	4/19/2017	Uranium-235	0.314	0.016		µg/L	44	2.2	0.72%	0.05%	7.2%
2	T-92R	4/19/2017	Uranium-238	43.6	2.228		µg/L					
2	T-93	4/19/2017	Uranium-235	0.194	0.010		µg/L	27	1.4	0.71%	0.05%	7.2%
2	T-93	4/19/2017	Uranium-238	27.3	1.395		µg/L					
	T-94	4/19/2017	Uranium-235	0.14	0.007		µg/L	20	1.0	0.70%	0.05%	7.2%
	T-94	4/19/2017	Uranium-238	19.8	1.012		µg/L					
	T-94DUP	4/19/2017	Uranium-235	0.144	0.007		µg/L	20	1.0	0.71%	0.05%	7.2%
	T-94DUP	4/19/2017	Uranium-238	20.1	1.027		µg/L					
	T-95	4/19/2017	Uranium-235	0.252	0.013		µg/L	27	1.4	0.92%	0.07%	7.2%
	T-95	4/19/2017	Uranium-238	27	1.380		µg/L					
	T-95DUP	4/19/2017	Uranium-235	0.251	0.013		µg/L	27	1.4	0.93%	0.07%	7.2%
	T-95DUP	4/19/2017	Uranium-238	26.6	1.359		µg/L					
	T-96	2/7/2017	Uranium-235	0.459	0.023		µg/L	36	1.8	1.27%	0.09%	7.2%
	T-96	2/7/2017	Uranium-238	35.6	1.819		µg/L					
	T-96	4/18/2017	Uranium-235	0.435	0.022		µg/L	34	1.7	1.26%	0.09%	7.2%
	T-96	4/18/2017	Uranium-238	34	1.737		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
1	T-97	12/12/2016	Uranium-235	1.1	0.056		µg/L	63	3.1	1.76%	0.13%	7.2%
1	T-97	12/12/2016	Uranium-238	61.5	3.143		µg/L					
1	T-97	2/7/2017	Uranium-235	1.14	0.058		µg/L	65	3.3	1.74%	0.12%	7.2%
1	T-97	2/7/2017	Uranium-238	64.2	3.281		µg/L					
1	T-97	4/19/2017	Uranium-235	1.19	0.061		µg/L	68	3.4	1.76%	0.13%	7.2%
1	T-97	4/19/2017	Uranium-238	66.6	3.403		µg/L					
1	T-97-11.7	12/12/2016	Uranium-235	0.111	0.006		µg/L	14	0.7	0.77%	0.06%	7.2%
1	T-97-11.7	12/12/2016	Uranium-238	14.3	0.731		µg/L					
1	T-97-13.7	12/12/2016	Uranium-235	0.0698	0.004	J	µg/L	9	0.5	0.76%	0.05%	7.2%
1	T-97-13.7	12/12/2016	Uranium-238	9.17	0.469		µg/L					
1	T-97-15.7	12/12/2016	Uranium-235	0.0612	0.003	J	µg/L	8	0.4	0.76%	0.05%	7.2%
1	T-97-15.7	12/12/2016	Uranium-238	8	0.409		µg/L					
1	T-97-17.7	12/12/2016	Uranium-235	0.0884	0.005		µg/L	12	0.6	0.73%	0.05%	7.2%
1	T-97-17.7	12/12/2016	Uranium-238	12	0.613		µg/L					
1	T-97-19.7	12/12/2016	Uranium-235	0.158	0.008		µg/L	20	1.0	0.80%	0.06%	7.2%
1	T-97-19.7	12/12/2016	Uranium-238	19.5	0.996		µg/L					
1	T-97-21.7	12/12/2016	Uranium-235	0.553	0.028		µg/L	48	2.4	1.14%	0.08%	7.2%
1	T-97-21.7	12/12/2016	Uranium-238	47.8	2.443		µg/L					
1	T-97-23.7	12/12/2016	Uranium-235	1.42	0.073		µg/L	87	4.4	1.64%	0.12%	7.2%
1	T-97-23.7	12/12/2016	Uranium-238	85.3	4.359		µg/L					
1	T-97-25.7	12/12/2016	Uranium-235	2.19	0.112		µg/L	109	5.5	2.01%	0.14%	7.2%
1	T-97-25.7	12/12/2016	Uranium-238	107	5.468		µg/L					
1	T-97-27.7	12/12/2016	Uranium-235	2.3	0.118		µg/L	106	5.3	2.16%	0.15%	7.1%
1	T-97-27.7	12/12/2016	Uranium-238	104	5.314		µg/L					
1	T-98	4/19/2017	Uranium-235	1.18	0.060		µg/L	63	3.2	1.86%	0.13%	7.2%
1	T-98	4/19/2017	Uranium-238	62.1	3.173		µg/L					
	T-99	2/7/2017	Uranium-235	0.288	0.015		µg/L	35	1.8	0.82%	0.06%	7.2%
	T-99	2/7/2017	Uranium-238	34.8	1.778		µg/L					
	T-99	4/19/2017	Uranium-235	0.29	0.015		µg/L	36	1.8	0.81%	0.06%	7.2%
	T-99	4/19/2017	Uranium-238	35.5	1.814		µg/L					
3	TMW-01	4/25/2017	Uranium-235	4.7	0.240		µg/L	393	19.8	1.20%	0.09%	7.2%
3	TMW-01	4/25/2017	Uranium-238	388	19.827		µg/L					
	TMW-02	4/25/2017	Uranium-235	0.0398	0.002	J	µg/L	5	0.3	0.74%	0.05%	7.2%
	TMW-02	4/25/2017	Uranium-238	5.36	0.274		µg/L					
	TMW-05	4/24/2017	Uranium-235	0.029	0.001	J	µg/L	4	0.2	0.75%	0.05%	7.2%
	TMW-05	4/24/2017	Uranium-238	3.84	0.196		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	TMW-06	4/25/2017	Uranium-235	0.0148	0.001	J	µg/L	2	0.1	0.69%	0.05%	7.2%
	TMW-06	4/25/2017	Uranium-238	2.13	0.109		µg/L					
	TMW-07	4/24/2017	Uranium-235	2.12	0.108		µg/L	190	9.6	1.12%	0.08%	7.2%
	TMW-07	4/24/2017	Uranium-238	188	9.607		µg/L					
	TMW-08	5/2/2017	Uranium-235	19.9	1.017		µg/L	2350	119.1	0.85%	0.06%	7.2%
	TMW-08	5/2/2017	Uranium-238	2330	119.063		µg/L					
3	TMW-09	2/8/2017	Uranium-235	27.5	1.405		µg/L	54	1.9	1.07%	0.08%	7.2%
3	TMW-09	2/8/2017	Uranium-238	2550	130.305		µg/L					
3	TMW-09	2/8/2017	Uranium-235	26	1.329		µg/L	53	1.9	1.06%	0.08%	7.2%
3	TMW-09	2/8/2017	Uranium-238	2430	124.173		µg/L					
3	TMW-09	5/2/2017	Uranium-235	27	1.380		µg/L	2597	131.3	1.04%	0.07%	7.2%
3	TMW-09	5/2/2017	Uranium-238	2570	131.327		µg/L					
	TMW-17	4/25/2017	Uranium-235	0.0196	0.001	J	µg/L	3	0.1	0.71%	0.05%	7.2%
	TMW-17	4/25/2017	Uranium-238	2.73	0.140		µg/L					
	TMW-18	4/24/2017	Uranium-235	0.184	0.009		µg/L	16	0.8	1.18%	0.08%	7.2%
	TMW-18	4/24/2017	Uranium-238	15.4	0.787		µg/L					
	TMW-19	4/26/2017	Uranium-235	0.617	0.032		µg/L	48	2.4	1.28%	0.09%	7.2%
	TMW-19	4/26/2017	Uranium-238	47.6	2.432		µg/L					
	TMW-21	4/25/2017	Uranium-235	0.836	0.043		µg/L	74	3.7	1.13%	0.08%	7.2%
	TMW-21	4/25/2017	Uranium-238	72.9	3.725		µg/L					
	TMW-23	4/24/2017	Uranium-235	0.039	0.002	J	µg/L	6	0.3	0.65%	0.05%	7.2%
	TMW-23	4/24/2017	Uranium-238	5.95	0.304		µg/L					

Table D-1: Data Set for All ICP-MS Analytical Results

Train #	Location	Date	Analyte	Result	+/-	Qual	Unit	Total ug/L		% U-235	% U-235 Uncertainty (95% CL*)	Relative Uncertainty (95% CL*)
								Total µg/L	Uncertainty (95% CL*)			
	TMW-24	12/15/2016	Uranium-235	0.471	0.024		µg/L	38	1.9	1.23%	0.09%	7.2%
	TMW-24	12/15/2016	Uranium-238	37.9	1.937		µg/L					
	TMW-24	2/7/2017	Uranium-235	0.482	0.025		µg/L	40	2.0	1.20%	0.09%	7.2%
	TMW-24	2/7/2017	Uranium-238	39.7	2.029		µg/L					
	TMW-24	4/19/2017	Uranium-235	0.601	0.031		µg/L	50	2.5	1.19%	0.09%	7.2%
	TMW-24	4/19/2017	Uranium-238	49.8	2.545		µg/L					
	TMW-24-10.7	12/15/2016	Uranium-235	0.164	0.008		µg/L	17	0.9	0.94%	0.07%	7.2%
	TMW-24-10.7	12/15/2016	Uranium-238	17.2	0.879		µg/L					
	TMW-24-12.7	12/15/2016	Uranium-235	0.307	0.016		µg/L	26	1.3	1.17%	0.08%	7.2%
	TMW-24-12.7	12/15/2016	Uranium-238	26	1.329		µg/L					
	TMW-24-14.7	12/15/2016	Uranium-235	0.0837	0.004		µg/L	7	0.4	1.12%	0.08%	7.2%
	TMW-24-14.7	12/15/2016	Uranium-238	7.39	0.378		µg/L					
	TMW-24-16.7	12/15/2016	Uranium-235	0.07		U	µg/L					
	TMW-24-16.7	12/15/2016	Uranium-238	0.0877	0.004	J	µg/L					
	TMW-24-22.7	12/15/2016	Uranium-235	0.198	0.010		µg/L	17	0.9	1.16%	0.08%	7.2%
	TMW-24-22.7	12/15/2016	Uranium-238	16.9	0.864		µg/L					
	TMW-24-24.7	12/15/2016	Uranium-235	0.354	0.018		µg/L	1	0.0	1.21%	0.09%	7.2%
	TMW-24-24.7	12/15/2016	Uranium-238	29	1.482		µg/L					
	TMW-24-24.7	12/15/2016	Uranium-235	0.355	0.018		µg/L	29	1.5	1.22%	0.09%	7.2%
	TMW-24-24.7	12/15/2016	Uranium-238	28.8	1.472		µg/L					
	TMW-25	4/25/2017	Uranium-235	1.25	0.064		µg/L	107	5.4	1.17%	0.08%	7.2%
	TMW-25	4/25/2017	Uranium-238	106	5.417		µg/L					

* CL= Confidence Level