Data Validation Package

February 2014
Groundwater and Surface Water Sampling at the Tuba City, Arizona, Disposal Site

May 2014

U.S. DEPARTMENT OF ENERGY
Legacy Management

TSME20

Data Validation Package for the Tuba City, Arizona, Disposal Site, February 2014

The U.S. Department of Energy (DOE) has prepared a Data Validation Package containing the groundwater and surface water monitoring data generated from the February 2014 sampling event at the Tuba City, Arizona, Disposal Site. This package includes worksheets and reports that document the sampling activities and validation procedures conducted. **At your request, you are receiving a hard copy of the report.**

The report is also available for your review on the Internet at the DOE Office of Legacy Management (LM) website, http://energy.gov/lm. From the LM website home page, select the LM SITES MAP. Then select Tuba City from the LM SITES list in the right column. The report will be available on the Tuba City Site page of the LM website under Site Documents and Links.

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Sampling Event Summary

Site: Tuba City, Arizona, Disposal Site

Sampling Period: February 10–14, 2014

The groundwater compliance strategy for the Tuba City Disposal Site is defined in the 1999 *Phase I Ground Water Compliance Action Plan for the Tuba City, Arizona, UMTRA Site.* Samples are collected and analyzed on a semiannual basis to evaluate the performance of the Phase I remediation system.

Sampling and analysis were conducted as specified in *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites* (LMS/PRO/S04351, continually updated).

U.S. Environmental Protection Agency (EPA) groundwater standards were exceeded in samples collected from monitoring wells as listed in Table 1.

The data from this sampling event are generally consistent with previously obtained values and are acceptable for general use as qualified. Data anomalies are not significant with respect to the known nature and extent of contamination and progress of remedial action at the site. The data from this sampling event will be incorporated into the annual performance evaluation report that will present a comprehensive hydrologic summary and evaluation of groundwater remedial action performance at the Tuba City site through March 2014.

Table 1. Tuba City Monitoring Wells with Analyte Concentrations that Exceed EPA Standard

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Arsenic	0.05	1105	0.68
		1106	0.23
Molybdenum	0.1	0262	0.46
		0287	0.15
		0936	0.44
		1105	0.12
		1106	0.15
		1129	0.39
		1132	3.1
Nitrate + Nitrite as Nitrogen	10	0262	190
		0263	210
		0264	13
		0265	170
		0267	280
		0268	17
		0273	16

Table 1 (continued). Tuba City Monitoring Wells with Analyte Concentrations that Exceed EPA Standard

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Nitrate + Nitrite as Nitrogen	10	0275	190
		0281	25
		0282	41
		0286	190
		0287	280
		0288	50
		0289	50
		0290	49
		0691	86
		0903	16
		0906	440
		0908	230
		0912	66
		0929	14
		0930	31
		0934	410
		0935	190
		0936	270
		0938	150
		0940	440
		0941	310
		0942	210
		1003	62
		1101	67
		1102	190
		1103	190
		1104	180
		1105	91
		1106	110
		1107	210
		1108	140
		1109	120
		1110	90
		1111	91
		1112	24
		1113	57
		1114	76
		1115	95
		1116	16
		1117	140
		1118	54
		1119	28

Table 1 (continued). Tuba City Monitoring Wells with Analyte Concentrations that Exceed EPA Standard

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Nitrate + Nitrite as Nitrogen	10	1120	23
		1121	14
		1122	25
		1123	12
		1124	70
		1125	13
		1126	280
		1127	54
		1128	130
		1129	110
		1130	270
		1131	360
		1132	240
Selenium	0.01	0262	0.05
		0263	0.043
		0267	0.046
		0275	0.038
		0286	0.027
		0287	0.097
		0904	0.012
		0906	0.046
		0908	0.018
		0934	0.01
		0935	0.017
		0936	0.047
		0938	0.075
		0940	0.053
		0941	0.088
		0942	0.052
		1101	0.023
		1102	0.05
		1103	0.031
		1104	0.039
		1105	0.023
		1106	0.043
		1107	0.087
		1108	0.034
		1109	0.026
		1110	0.014
		1114	0.012
		1115	0.011
		1117	0.017
		1120	0.01

Table 1 (continued). Tuba City Monitoring Wells with Analyte Concentrations that Exceed EPA Standard

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Selenium	0.01	1122	0.018
		1124	0.024
		1126	0.041
		1128	0.016
		1129	0.048
		1130	0.05
		1131	0.015
		1132	0.18
		1133	0.014
Uranium	0.044	0262	0.6
		0263	0.33
		0265	0.065
		0267	0.07
		0268	0.06
		0275	0.44
		0286	0.33
		0287	0.29
		0691	0.095
		0906	0.64
		0908	0.077
		0934	0.12
		0935	0.11
		0936	0.56
		0938	0.31
		0940	0.63
		0941	0.25
		0942	0.56
		1101	0.29
		1102	0.57
		1103	0.33
		1104	1.1
		1105	0.55
		1106	2.4
		1107	0.99
		1108	1
		1109	0.48
		1110	0.18
		1111	0.13
		1113	0.064
		1114	0.084
		1115	0.1
		1117	0.053

Table 1 (continued). Tuba City Monitoring Wells with Analyte Concentrations that Exceed EPA Standard

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Uranium	0.044	1119	0.077
		1120	0.11
		1121	0.1
		1122	0.18
		1123	0.12
		1124	0.26
		1126	0.057
		1128	0.052
		1129	0.45
		1130	0.7
		1131	0.59
		1132	3.2
		1133	0.095

mg/L = milligrams per liter

T R Bartlett

Tim Bartlett
Site Hydrologist
The S.M. Stoller Corporation
a wholly owned subsidiary of
Huntington Ingalls Industries

5/15/14

Date

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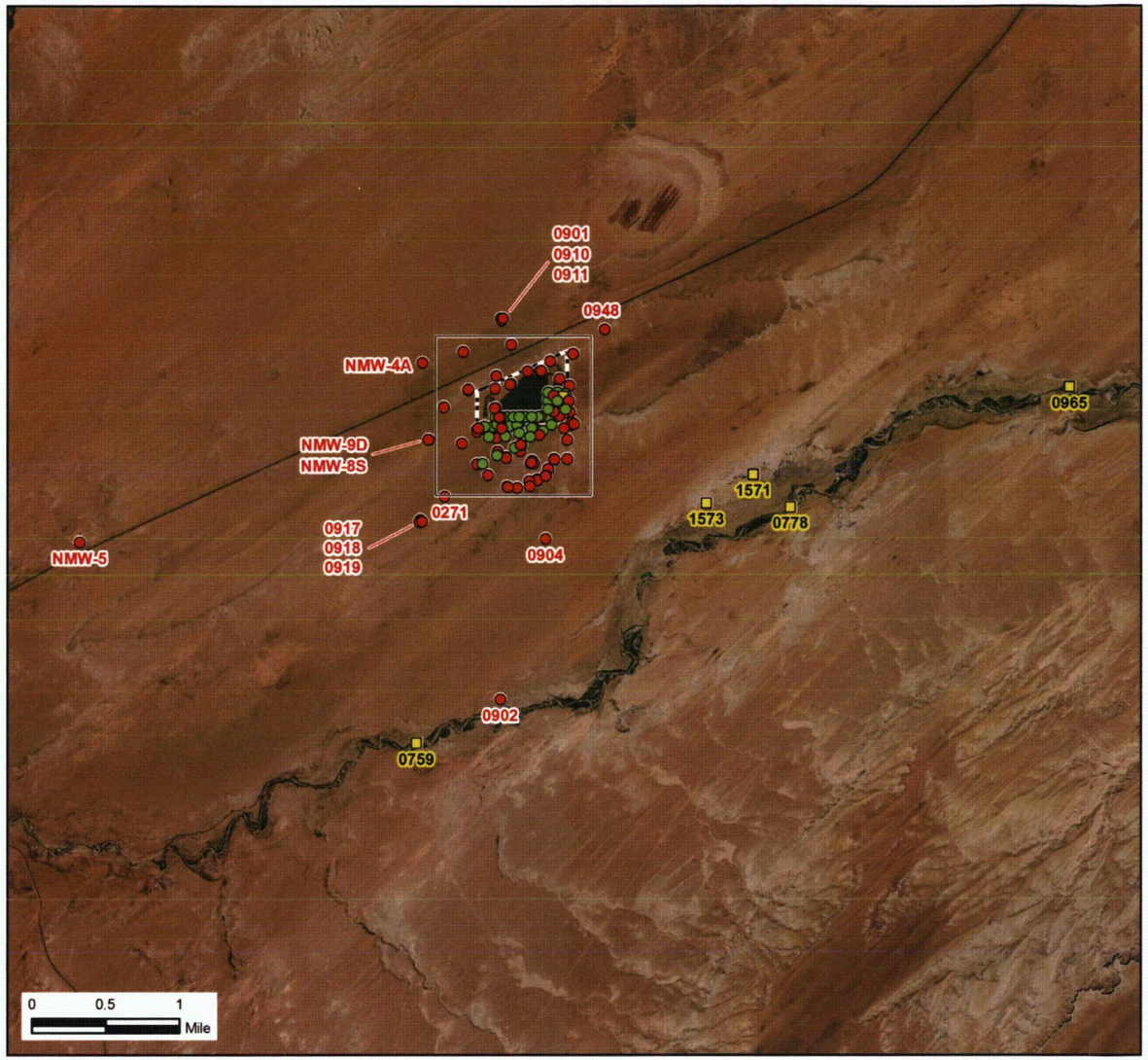

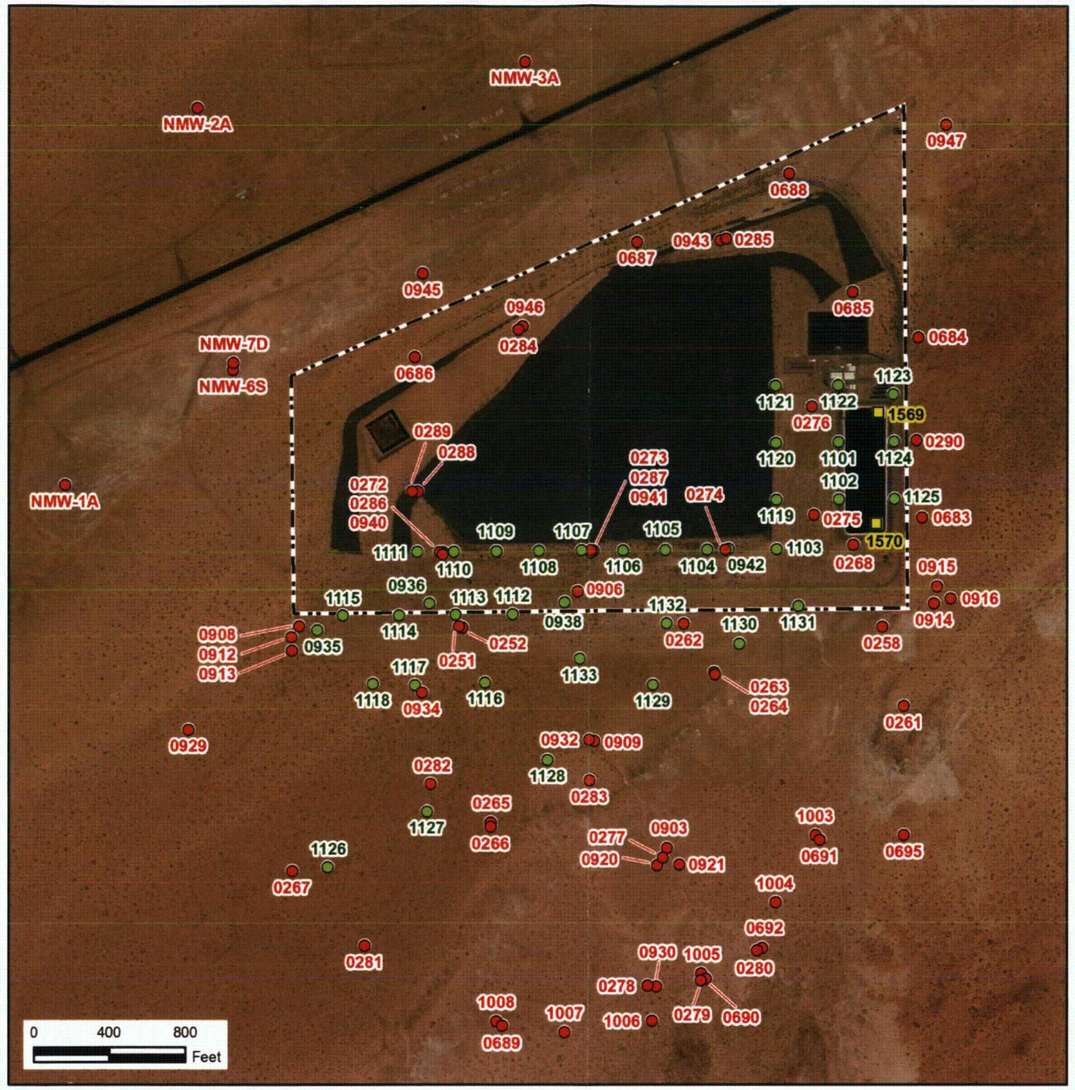

LEGEND

- MONITORING WELL TO BE SAMPLED
- EXTRACTION WELL TO BE SAMPLED
- SURFACE LOCATION TO BE SAMPLED
- SITE BOUNDARY

N

U.S. DEPARTMENT OF ENERGY GRAND JUNCTION, COLORADO	Work Performed by S.M. Stoller Corporation Under DOE Contract No. DE-AM01-07LM00060
Planned Sampling Map Tuba City, AZ, Disposal Site February 2014	
DATE PREPARED: January 29, 2014	FILENAME: S1137200

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Tuba City, Arizona, Disposal, Site, Sample Location Map

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Data Assessment Summary

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Water Sampling Field Activities Verification Checklist

Project	Tuba City, Arizona	**Date(s) of Water Sampling**	February 10–14, 2014
Date(s) of Verification	March 25, 2014	**Name of Verifier**	Stephen Donivan

	Response (Yes, No, NA)	Comments
1. *Is the SAP the primary document directing field procedures?*	Yes	
List any Program Directives or other documents, SOPs, instructions.		Work Order letter dated January 29, 2014. Program Directive No. TUB-2013-01.
2. Were the sampling locations specified in the planning documents sampled?	No	Monitoring well locations 0283, 0284, 0285, 0909, and 0918 were not sampled because they were dry.
3. Were calibrations conducted as specified in the above-named documents?	Yes	Calibrations were performed on February 6, 2014.
4. Was an operational check of the field equipment conducted daily?	Yes	
Did the operational checks meet criteria?	Yes	
5. Were the number and types (alkalinity, temperature, specific conductance, pH, turbidity, DO, ORP) of field measurements taken as specified?	No	Turbidity was measured at all surface water locations. Turbidity was not measured at four monitoring wells.
6. Were wells categorized correctly?	No	One well was categorized incorrectly in the field notes. The well was purged using the correct criteria, so no data qualification was necessary.
7. Were the following conditions met when purging a Category I well:		
Was one pump/tubing volume purged prior to sampling?	Yes	
Did the water level stabilize prior to sampling?	Yes	
Did pH, specific conductance, and turbidity measurements meet criteria prior to sampling?	Yes	
Was the flow rate less than 500 mL/min?	Yes	

Water Sampling Field Activities Verification Checklist (continued)

	Response (Yes, No, NA)	Comments
8. Were the following conditions met when purging a Category II well:		
Was the flow rate less than 500 mL/min?	Yes	
Was one pump/tubing volume removed prior to sampling?	Yes	
9. Were duplicates taken at a frequency of one per 20 samples?	Yes	Nine duplicate samples were collected.
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with non-dedicated equipment?	NA	Equipment blanks were not required.
11. Were trip blanks prepared and included with each shipment of VOC samples?	NA	
12. Were the true identities of the QC samples documented?	Yes	
13. Were samples collected in the containers specified?	Yes	
14. Were samples filtered and preserved as specified?	Yes	
15. Were the number and types of samples collected as specified?	Yes	
16. Were chain of custody records completed and was sample custody maintained?	Yes	
17. Was all pertinent information documented on the field data sheets?	Yes	
18. Was the presence or absence of ice in the cooler documented at every sample location?	Yes	
19. Were water levels measured at the locations specified in the planning documents?	Yes	

Laboratory Performance Assessment

General Information

Requisition No.:	14025914
Sample Event:	February 10-14, 2014
Site(s):	Tuba City, Arizona
Laboratory:	ALS Laboratory Group, Fort Collins, Colorado
Work Order Nos.:	1402170
Analysis:	Metals and Inorganics
Validator:	Stephen Donivan
Review Date:	March 14, 2014

This validation was performed according to the *Environmental Procedures Catalog* (LMS/POL/S04325, continually updated), "Standard Practice for Validation of Environmental Data." The procedure was applied at Level 3, Data Validation. See attached Data Validation Worksheets for supporting documentation on the data review and validation. All analyses were successfully completed. The samples were prepared and analyzed using accepted procedures based on methods specified by line item code, which are listed in Table 2.

Table 2. Analytes and Methods

Analyte	Line Item Code	Prep Method	Analytical Method
Ammonia as N	WCH-A-005	EPA 350.1	EPA 350.1
Arsenic, Molybdenum, Selenium, Uranium	LMM-02	SW-846 3005A	SW-846 6020A EPA 200.8
Calcium, Iron, Magnesium, Manganese, Potassium, Silica, Sodium	LMM-01	SW-846 3005A	SW-846 6010B
Chloride, Sulfate	MIS-A-045	SW-846 9056	SW-846 9056
Nitrite + Nitrate as N	WCH-A-022	EPA 353.2	EPA 353.2
Total Dissolved Solids	WCH-A-033	EPA 160.1	EPA 160.1

Data Qualifier Summary

Analytical results were qualified as listed in Table 3. Refer to the attached validation worksheets and the sections below for an explanation of the data qualifiers applied.

Table 3. Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
1402170-4	1103	Potassium	J	Field duplicate precision
1402170-5	1104	Potassium	J	Field duplicate precision
1402170-6	1105	Magnesium	J	Field duplicate precision
1402170-6	1105	Manganese	J	Field duplicate precision
1402170-6	1105	Molybdenum	J	Field duplicate precision
1402170-6	1105	Selenium	J	Field duplicate precision
1402170-6	1105	Silica	J	Field duplicate precision
1402170-6	1105	Sodium	J	Field duplicate precision

Table 3 (continued). Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
1402170-7	1106	Potassium	J	Field duplicate precision
1402170-8	1107	Potassium	J	Field duplicate precision
1402170-11	1110	Calcium	J	Matrix spike recovery
1402170-11	1110	Potassium	J	Serial dilution result
1402170-11	1110	Selenium	J	Serial dilution result
1402170-20	1119	Ammonia as N	J	Field duplicate precision
1402170-20	1119	Nitrate+Nitrite as N	J	Field duplicate precision
1402170-20	1119	Potassium	J	Field duplicate precision
1402170-20	1119	Uranium	J	Field duplicate precision
1402170-24	1123	Nitrate+Nitrite as N	J	Field duplicate precision
1402170-28	1123 Duplicate	Nitrate+Nitrite as N	J	Field duplicate precision
1402170-31	1119 Duplicate	Ammonia as N	J	Field duplicate precision
1402170-31	1119 Duplicate	Nitrate+Nitrite as N	J	Field duplicate precision
1402170-31	1119 Duplicate	Potassium	J	Field duplicate precision
1402170-31	1119 Duplicate	Uranium	J	Field duplicate precision
1402170-32	1103 Duplicate	Iron	U	Less than 5 times the calibration blank
1402170-33	1104 Duplicate	Iron	U	Less than 5 times the calibration blank
1402170-33	1104 Duplicate	Potassium	J	Field duplicate precision
1402170-34	1105 Duplicate	Magnesium	J	Field duplicate precision
1402170-34	1105 Duplicate	Manganese	J	Field duplicate precision
1402170-34	1105 Duplicate	Molybdenum	J	Field duplicate precision
1402170-34	1105 Duplicate	Selenium	J	Field duplicate precision
1402170-34	1105 Duplicate	Silica	J	Field duplicate precision
1402170-34	1105 Duplicate	Sodium	J	Field duplicate precision
1402170-35	1105 Duplicate	Potassium	J	Field duplicate precision
1402170-36	1107 Duplicate	Potassium	J	Field duplicate precision
1402170-41	0280	Manganese	U	Less than 5 times the method blank
1402170-42	0290	Manganese	U	Less than 5 times the method blank
1402170-45	0688	Manganese	U	Less than 5 times the method blank
1402170-46	0690	Manganese	U	Less than 5 times the method blank
1402170-47	0691	Manganese	U	Less than 5 times the method blank
1402170-50	0904	Manganese	U	Less than 5 times the method blank
1402170-54	0916	Magnesium	U	Less than 5 times the calibration blank
1402170-81	0276	Manganese	U	Less than 5 times the calibration blank
1402170-82	0685	Iron	U	Less than 5 times the calibration blank
1402170-84	0687	Iron	U	Less than 5 times the calibration blank
1402170-84	0687	Manganese	U	Less than 5 times the calibration blank
1402170-85	0906	Iron	U	Less than 5 times the calibration blank
1402170-89	0942	Iron	U	Less than 5 times the calibration blank
1402170-90	0948	Manganese	U	Less than 5 times the calibration blank
1402170-91	1127	Iron	U	Less than 5 times the calibration blank
1402170-92	1128	Manganese	U	Less than 5 times the calibration blank
1402170-93	1129	Manganese	U	Less than 5 times the calibration blank
1402170-95	1131	Iron	U	Less than 5 times the calibration blank
1402170-96	1132	Iron	U	Less than 5 times the calibration blank
1402170-100	0759	Iron	U	Less than 5 times the calibration blank
1402170-101	0778	Iron	U	Less than 5 times the calibration blank
1402170-103	0911	Manganese	U	Less than 5 times the calibration blank

Table 3 (continued). Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
1402170-105	0913	Manganese	U	Less than 5 times the calibration blank
1402170-106	0965	Iron	U	Less than 5 times the calibration blank
1402170-109	NMW-1A	Manganese	U	Less than 5 times the calibration blank
1402170-110	NMW-2A	Iron	U	Less than 5 times the calibration blank
1402170-111	NMW-3A	Iron	U	Less than 5 times the calibration blank
1402170-111	NMW-3A	Manganese	U	Less than 5 times the calibration blank
1402170-112	NMW-4A	Manganese	U	Less than 5 times the calibration blank
1402170-113	NMW-5	Iron	U	Less than 5 times the calibration blank
1402170-113	NMW-5	Manganese	U	Less than 5 times the calibration blank
1402170-114	NMW-6S	Iron	U	Less than 5 times the calibration blank
1402170-114	NMW-6S	Manganese	U	Less than 5 times the calibration blank
1402170-115	NMW-7D	Iron	U	Less than 5 times the calibration blank
1402170-115	NMW-7D	Manganese	U	Less than 5 times the calibration blank
1402170-116	NMW-8S	Iron	U	Less than 5 times the calibration blank
1402170-116	NMW-8S	Manganese	U	Less than 5 times the calibration blank
1402170-118	0251	Iron	U	Less than 5 times the calibration blank
1402170-118	0251	Sodium	J	Serial dilution result
1402170-119	0252	Iron	U	Less than 5 times the calibration blank
1402170-121	0267	Iron	U	Less than 5 times the calibration blank
1402170-122	0271	Manganese	U	Less than 5 times the method blank
1402170-122	0271	Sodium	J	Serial dilution result
1402170-125	0282	Iron	U	Less than 5 times the calibration blank
1402170-125	0282	Manganese	U	Less than 5 times the calibration blank
1402170-127	0903	Manganese	U	Less than 5 times the calibration blank
1402170-128	0917	Manganese	U	Less than 5 times the method blank
1402170-129	0919	Iron	U	Less than 5 times the calibration blank
1402170-129	0919	Manganese	U	Less than 5 times the method blank
1402170-130	0920	Manganese	U	Less than 5 times the method blank
1402170-132	0932	Iron	U	Less than 5 times the calibration blank
1402170-132	0932	Manganese	U	Less than 5 times the calibration blank
1402170-133	0945	Manganese	U	Less than 5 times the calibration blank
1402170-134	1005	Manganese	U	Less than 5 times the calibration blank
1402170-135	1008	Manganese	U	Less than 5 times the calibration blank
1402170-137	1205	Calcium	U	Less than 5 times the calibration blank

Sample Shipping/Receiving

ALS Laboratory Group in Fort Collins, Colorado, received 138 samples in two shipments on February 13 and 15, 2014, accompanied by Chain of Custody forms. Copies of the air bills were included in the receiving documentation. The Chain of Custody forms were checked to confirm that all of the samples were listed with sample collection dates and times, and that signatures and dates were present indicating sample relinquishment and receipt. The Chain of Custody forms had the following errors.

The bottle set from location 0689 was listed on the COC form, but not received. There were two bottle sets received from location 1008. It was determined from the sample date and time that one of the bottles sets was from location 0689, but had been incorrectly labeled.

Preservation and Holding Times

The sample shipment was received intact with the temperatures inside the iced coolers between 0.6 and 2.0 °C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses with the following exceptions. The bottles from five locations had the labels switched between the preserved and unpreserved bottles. The bottles were logged for the correct tests based on the preservation used. No data qualification or further corrective action is required. All samples were analyzed within the applicable holding times.

Detection and Quantitation Limits

The method detection limit (MDL) was reported for all analytes as required. The MDL, as defined in 40 CFR 136, is the minimum concentration of an analyte that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero. The practical quantitation limit (PQL) for these analytes is the lowest concentration that can be reliably measured, and is defined as 5 times the MDL. The reported MDLs for all analytes demonstrate compliance with contractual requirements.

Laboratory Instrument Calibration

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing acceptable qualitative and quantitative data for all analytes. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning of the analytical run. Compliance requirements for continuing calibration checks are established to ensure that the instrument continues to be capable of producing acceptable qualitative and quantitative data. All laboratory instrument calibrations were performed correctly in accordance with the cited methods. All calibration and laboratory spike standards were prepared from independent sources.

Method EPA 160.1
There is no initial or continuing calibration requirement associated with the determination of total dissolved solids.

Method EPA 350.1
The initial calibrations for ammonia as N were performed February 18, 20, and 27, 2014, using six calibration standards. The calibration curve correlation coefficient values were greater than 0.995 and the absolute values of the intercepts were less than 3 times the MDL. Initial and continuing calibration verification checks were made at the required frequency and all calibration check results met the acceptance criteria.

Method EPA 353.2
The initial calibrations for ammonia as N were performed February 19 and 26, 2014, using seven calibration standards. The calibration curve correlation coefficient values and the absolute values of the intercepts were not provided. Initial and continuing calibration verification checks were made at the required frequency and all calibration check results met the acceptance criteria.

Method SW-846 6010B
Calibrations for calcium, iron, magnesium, manganese, potassium, silica, and sodium were performed February 19 and 20, 2014, using three calibration standards. The correlation coefficient values were greater than 0.995. The absolute values of the intercepts were less than or only slightly above 3 times the MDL, with the exception of the intercepts for calcium, potassium, silicon, and sodium. These intercepts were less than 3 times the reporting limits and all results were above the reporting limits. Initial and continuing calibration verification checks were made at the required frequency with all checks meeting the acceptance criteria. Reporting limit verification checks were made at the required frequency to verify the linearity of the calibration curve near the PQL and all results associated with the samples were within the acceptance range.

Method SW-846 6020A
Calibrations for arsenic, molybdenum, selenium, and uranium were performed February 20, 2014, using four calibration standards. The correlation coefficient values were greater than 0.995. The absolute values of the intercepts were less than 3 times the MDL. Initial and continuing calibration verification checks were made at the required frequency and all calibration check results met the acceptance criteria. Reporting limit verification checks were made to verify the linearity of the calibration curve near the PQL and all results were within the acceptance range. Mass calibration and resolution verifications were performed at the beginning of each analytical run in accordance with the analytical procedure. Internal standard recoveries associated with requested analytes were stable and within acceptable ranges.

Method SW-846 9056
Calibrations for chloride and sulfate were performed December 16, 2013, using five calibration standards. The calibration curve correlation coefficient values were greater than 0.995 and the absolute values of the intercepts were less than 3 times the MDL. Initial and continuing calibration verification checks were made at the required frequency and all calibration check results met the acceptance criteria.

Method and Calibration Blanks

Method blanks are analyzed to assess any contamination that may have occurred during sample preparation. Calibration blanks are analyzed to assess instrument contamination prior to and during sample analysis. All method blank and calibration blank results associated with the samples were below the PQL for all analytes. In cases where a blank concentration exceeds the MDL, the associated sample results are qualified with a "U" flag (not detected) when the sample result is greater than the MDL but less than 5 times the blank concentration.

Inductively Coupled Plasma Interference Check Sample Analysis

Interference check samples were analyzed at the required frequency to verify the instrumental interelement and background correction factors. All check sample results met the acceptance criteria.

Matrix Spike Analysis

Matrix spike and matrix spike duplicate (MS/MSD) samples are used to measure method performance in the sample matrix. The MS/MSD data are not evaluated when the concentration

of the unspiked sample is greater than 4 times the spike. The spike recoveries met the acceptance criteria for all analytes evaluated with the following exceptions.

The nitrate + nitrite as N spike recoveries from sample 0267 exceeded the acceptance range. This sample required dilution prior to analysis and is therefore not subject to further qualification based on the MS/MSD performance.

The recoveries for two chloride and one sulfate MS/MSDs were outside the laboratory acceptance range but within the validation range of ±25 percent, not requiring qualification.

A spike recovery for calcium was slightly below the acceptance range. Three spike recoveries for ammonia as N were also below the acceptance range. The affected results are qualified with a "J" flag (estimated).

Laboratory Replicate Analysis

Laboratory replicate analyses are used to determine laboratory precision for each sample matrix. The relative percent difference (RPD) for replicate results that are greater than 5 times PQL should be less than 20 percent. For results that are less than 5 times the PQL, the range should be no greater than the PQL. The replicate results met these criteria, demonstrating acceptable laboratory precision.

Laboratory Control Sample

Laboratory control samples were analyzed at the correct frequency to provide information on the accuracy of the analytical method and the overall laboratory performance, including sample preparation. The results were acceptable for all analytes.

Metals Serial Dilution

Serial dilutions were prepared and analyzed for the metals analyses to monitor chemical or physical interferences in the sample matrix. Serial dilution data are evaluated when the concentration of the undiluted sample is greater than 50 times the MDL. All evaluated serial dilution data were acceptable with the following exceptions. The percent difference for the potassium and selenium results for sample 1110, the sodium result for sample 0251, and the sodium result for sample 0271 were outside the acceptance range of ±10 percent. Because of the possible reduced accuracy due to matrix interference, the associated results are qualified with a "J" flag as estimated values.

Completeness

Results were reported in the correct units for all analytes requested using contract-required laboratory qualifiers.

Chromatography Peak Integration

The integration of analyte peaks was reviewed for all ion chromatography data. There were no manual integrations performed and all peak integrations were satisfactory.

Electronic Data Deliverable (EDD) File

The revised EDD file arrived on March 25, 2014, with corrected ammonia as N data and the correct date sampled for sample 0910. The Sample Management System EDD validation module was used to verify that the EDD file was complete and in compliance with requirements. The module compares the contents of the file to the requested analyses to ensure all and only the requested data are delivered. The contents of the EDD were manually examined to verify that the sample results accurately reflect the data contained in the sample data package.

Anion/Cation Balance

The anion/cation balance is used to determine if major ion concentrations have been quantified correctly. The total anions should balance with (be equal to) the total cations when expressed in milliequivalents per liter. Table 4 shows the total anion and cation results from this event and the charge balance, which is a RPD calculation. Typically, a charge balance difference of 10 percent is considered acceptable.

Table 4. Comparison of Major Anions and Cations

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
0251	2.12	2.31	4.28
0252	1.90	2.08	4.50
0258	2.79	3.05	4.37
0261	2.79	3.32	8.66
0262	70.04	69.89	0.11
0263	72.21	74.86	1.81
0264	5.34	5.45	1.02
0265	46.29	47.35	1.13
0266	2.22	2.66	8.99
0267	106.45	110.52	1.88
0268	12.66	12.01	2.64
0271	2.61	3.17	9.66
0272	2.68	3.12	7.53
0273	6.45	6.30	1.19
0274	2.71	2.71	0
0275	85.63	88.65	1.73
0276	2.81	2.84	0.58
0277	2.62	2.73	2.02
0278	2.34	2.63	5.87
0279	4.06	4.42	4.16
0280	3.06	3.05	0.16
0281	6.89	6.77	0.83
0282	8.68	8.59	0.55
0286	66.94	71.59	3.36
0287	69.28	71.71	1.72
0288	13.21	12.65	2.15
0289	12.86	13.61	2.83

Table 4 (continued). Comparison of Major Anions and Cations

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
0290	13.41	13.98	2.07
0683	2.85	3.40	8.75
0684	2.81	2.85	0.67
0685	2.69	3.42	11.99
0686	6.30	6.57	2.14
0687	3.00	3.33	5.16
0688	7.69	7.66	0.16
0689	2.53	2.62	1.75
0690	2.42	2.77	6.64
0691	25.54	26.86	2.52
0692	2.50	2.77	5.20
0695	3.29	3.50	3.02
0759	13.50	13.21	1.09
0778	12.90	13.22	1.21
0901	3.57	3.36	3.09
0902	3.00	3.31	5.02
0903	5.74	6.43	5.64
0904	9.07	8.73	1.88
0906	86.69	92.24	3.11
0908	82.00	85.55	2.12
0910	2.67	3.50	13.48
0911	2.14	2.24	2.24
0912	22.59	21.78	1.83
0913	2.00	1.76	6.26
0914	1.48	1.66	5.75
0915	1.62	1.94	9.16
0916	5.35	5.61	2.41
0917	2.57	2.68	2.13
0919	27.03	23.19	7.64
0920	2.59	3.18	10.30
0921	2.00	2.12	2.89
0929	3.62	3.37	3.52
0930	8.99	9.53	2.91
0932	3.45	3.38	1.05
0934	93.70	101.30	3.89
0935	72.90	73.27	0.25
0936	76.85	75.82	0.67
0938	97.84	85.32	6.83
0940	145.15	163.08	5.82
0941	75.38	78.63	2.11
0942	97.27	100.78	1.77
0943	1.77	1.69	2.40
0945	3.98	4.29	3.85
0946	2.15	2.05	2.41
0947	2.71	2.93	3.98
0948	2.42	2.45	0.76

Table 4 (continued). Comparison of Major Anions and Cations

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
0965	11.88	12.70	3.34
1003	20.06	20.98	2.24
1004	3.52	3.99	6.23
1005	2.48	3.23	13.21
1006	2.30	2.44	2.81
1007	2.36	2.47	2.26
1008	2.59	2.57	0.41
1101	48.66	49.89	1.25
1102	83.57	84.72	0.69
1103	65.63	66.87	0.94
1104	80.45	81.22	0.48
1105	54.88	44.64	10.3
1106	45.24	45.52	0.31
1107	61.71	62.43	0.58
1108	60.35	59.85	0.41
1109	75.53	78.22	1.75
1110	38.49	38.14	0.46
1111	38.55	40.40	2.35
1112	10.08	9.18	4.67
1113	19.44	18.06	3.68
1114	30.91	29.00	3.19
1115	36.36	38.06	2.28
1116	7.22	7.13	0.60
1117	48.70	53.67	4.85
1118	15.24	15.00	0.79
1119	17.82	15.74	6.22
1120	48.76	51.99	3.21
1121	41.73	44.72	3.45
1122	50.78	52.70	1.86
1123	44.83	44.27	0.63
1124	56.47	60.15	3.16
1125	5.39	6.53	9.57
1126	107.40	112.85	2.47
1127	13.26	14.08	2.99
1128	32.03	30.63	2.24
1129	32.39	31.31	1.71
1130	87.41	89.73	1.31
1131	74.74	80.02	3.41
1132	72.00	70.32	1.18
1133	12.04	11.20	3.59
1569	2271.08	1120.67	33.92
1570	2163.31	1741.31	10.81
1571	7.54	8.10	3.56
NMW-1A	2.62	3.76	17.83
NMW-2A	2.59	3.07	8.52
NMW-3A	2.65	4.12	21.60

Table 4 (continued). Comparison of Major Anions and Cations

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
NMW-4A	2.64	3.29	11.02
NMW-5	3.72	3.33	5.62
NMW-6S	2.83	2.41	8.00
NMW-7D	2.09	2.00	2.13
NMW-8S	2.59	2.84	4.53
NMW-9D	2.89	2.95	0.87

meq/L = milliequivalents per liter

Ten locations (0685, 0910, 0920, 1005, 1105, 1569, 1570, NMW-1A, NMW-3A and NMW-4A) had charge balances greater than 10 percent. There were no analytical errors identified during the review of the laboratory data.

SAMPLE MANAGEMENT SYSTEM

General Data Validation Report

RIN: 14025914 Lab Code: PAR Validator: Stephen Donivan Validation Date: 03/11/2014

Project: Tuba City Analysis Type: ☑ Metals ☑ General Chem ☐ Rad ☐ Organics

# of Samples: 138 Matrix: WATER Requested Analysis Completed: Yes

Chain of Custody

Present: OK Signed: OK Dated: OK

Sample

Integrity: OK Preservation: OK Temperature: OK

Select Quality Parameters

☑ Holding Times	All analyses were completed within the applicable holding times.
☑ Detection Limits	The reported detection limits are equal to or below contract requirements.
☑ Field/Trip Blanks	
☐ Field Duplicates	There were 9 duplicates evaluated.

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Method Type	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	CCV	CCB								
Arsenic	ICP/MS	02/20/2014	0.0000	1.0000	OK	OK	OK	103.0	95.0	104.0	9.0	101.0	10.0	88.0
Arsenic	ICP/MS	02/20/2014					OK	100.0	107.0	105.0	2.0			
Arsenic	ICP/MS	02/20/2014					OK	101.0	105.0	104.0	1.0			
Arsenic	ICP/MS	02/20/2014					OK	105.0	107.0	105.0	2.0			
Arsenic	ICP/MS	02/20/2014					OK	100.0	100.0	104.0	4.0			
Arsenic	ICP/MS	02/20/2014					OK	106.0	103.0	97.0	6.0			
Arsenic	ICP/MS	02/20/2014					OK	103.0	110.0	108.0	2.0			
Calcium	ICP/ES	02/19/2014	0.0000	1.0000	OK	OK	OK	96.0	88.0	63.0	2.0	102.0	1.0	102.0
Calcium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	100.0	104.0	101.0	2.0	100.0	0.0	98.0
Calcium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	101.0	95.0	93.0	1.0		4.0	99.0
Calcium	ICP/ES	02/20/2014					OK	101.0	91.0	92.0	1.0		3.0	
Calcium	ICP/ES	02/20/2014					OK	98.0	98.0	100.0	1.0		4.0	
Calcium	ICP/ES	02/20/2014					OK	94.0	91.0	95.0	2.0		4.0	
Calcium	ICP/ES	02/20/2014					OK	89.0	102.0	100.0	1.0		2.0	
Iron	ICP/ES	02/19/2014	0.0000	1.0000	OK	OK	OK	89.0	85.0	84.0	1.0	111.0		98.0
Iron	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	89.0	97.0	94.0	3.0	97.0		96.0
Iron	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	97.0	95.0	95.0	0.0			97.0
Iron	ICP/ES	02/20/2014					OK	103.0	95.0	93.0	1.0			

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Method Type	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	CCV	CCB								
Iron	ICP/ES	02/20/2014					OK	95.0	94.0	92.0	2.0			
Iron	ICP/ES	02/20/2014					OK	98.0	95.0	95.0	0.0			
Iron	ICP/ES	02/20/2014					OK	92.0	91.0	87.0	4.0			
Magnesium	ICP/ES	02/19/2014	0.0000	1.0000	OK	OK	OK	98.0	96.0	93.0	1.0	105.0	1.0	100.0
Magnesium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	100.0	98.0	97.0	1.0	104.0	1.0	100.0
Magnesium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	99.0	94.0	95.0	0.0		2.0	102.0
Magnesium	ICP/ES	02/20/2014					OK	101.0	92.0	92.0	0.0		0.0	
Magnesium	ICP/ES	02/20/2014					OK	100.0	98.0	99.0	1.0		3.0	
Magnesium	ICP/ES	02/20/2014					OK	96.0	93.0	95.0	2.0		6.0	
Magnesium	ICP/ES	02/20/2014					OK	91.0	99.0	98.0	1.0		2.0	
Manganese	ICP/ES	02/19/2014	0.0000	1.0000	OK	OK	OK	95.0	101.0	98.0	1.0		7.0	104.0
Manganese	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	95.0	100.0	99.0	2.0	94.0	6.0	104.0
Manganese	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	103.0	96.0	98.0	2.0	104.0		103.0
Manganese	ICP/ES	02/20/2014					OK	104.0	94.0	95.0	1.0			
Manganese	ICP/ES	02/20/2014					OK	100.0	96.0	97.0	0.0			
Manganese	ICP/ES	02/20/2014					OK	99.0	97.0	99.0	2.0			
Manganese	ICP/ES	02/20/2014					OK	96.0	94.0	94.0	1.0			
Molybdenum	ICP/MS	02/20/2014					OK	102.0	95.0	106.0	10.0	97.0		101.0

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Method Type	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	CCV	CCB								
Molybdenum	ICP/MS	02/20/2014					OK	97.0	105.0	104.0	1.0			
Molybdenum	ICP/MS	02/20/2014					OK	98.0	103.0	103.0	1.0			
Molybdenum	ICP/MS	02/20/2014					OK	101.0	102.0	104.0	2.0			
Molybdenum	ICP/MS	02/20/2014					OK	100.0	100.0	102.0	2.0			
Molybdenum	ICP/MS	02/20/2014					OK	102.0	102.0	96.0	6.0			
Molybdenum	ICP/MS	02/20/2014					OK	98.0	108.0	104.0	4.0			
Potassium	ICP/ES	02/19/2014	0.0000	1.0000	OK	OK	OK	97.0	97.0	96.0	1.0			81.0
Potassium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	101.0	103.0	101.0	1.0		19.0	80.0
Potassium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	100.0	102.0	104.0	1.0			78.0
Potassium	ICP/ES	02/20/2014					OK	100.0	99.0	98.0	0.0			
Potassium	ICP/ES	02/20/2014					OK	96.0	99.0	100.0	0.0			
Potassium	ICP/ES	02/20/2014					OK	103.0	102.0	104.0	2.0			
Potassium	ICP/ES	02/20/2014					OK	96.0	104.0	104.0	0.0			
Selenium	ICP/MS	02/20/2014	0.0000	1.0000	OK	OK	OK	106.0	104.0	107.0	3.0	101.0	18.0	117.0
Selenium	ICP/MS	02/20/2014					OK	104.0	106.0	109.0	3.0			
Selenium	ICP/MS	02/20/2014					OK	103.0	111.0	111.0	0.0			
Selenium	ICP/MS	02/20/2014					OK	108.0	107.0	108.0	1.0			
Selenium	ICP/MS	02/20/2014					OK	110.0	104.0	108.0	4.0			

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Method Type	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	CCV	CCB								
Selenium	ICP/MS	02/20/2014					OK	112.0	110.0	105.0	4.0			
Selenium	ICP/MS	02/20/2014					OK	109.0	114.0	112.0	2.0			
Silicon	ICP/ES	02/19/2014	0.0000	1.0000	OK	OK	OK	96.0	89.0	85.0	0.0	90.0	0.0	80.0
Silicon	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	100.0	99.0	92.0	1.0	93.0	0.0	76.0
Silicon	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	100.0	101.0	97.0	1.0		1.0	76.0
Silicon	ICP/ES	02/20/2014					OK	100.0	96.0	97.0	0.0		2.0	
Silicon	ICP/ES	02/20/2014					OK	102.0	98.0	101.0	1.0		2.0	
Silicon	ICP/ES	02/20/2014					OK	94.0	99.0	98.0	0.0		3.0	
Silicon	ICP/ES	02/20/2014					OK	90.0	91.0	89.0	0.0		1.0	
Sodium	ICP/ES	02/19/2014	0.0000	1.0000	OK	OK	OK	99.0	100.0	99.0	0.0		1.0	83.0
Sodium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	102.0	112.0	109.0	2.0		1.0	83.0
Sodium	ICP/ES	02/20/2014	0.0000	1.0000	OK	OK	OK	102.0	102.0	104.0	1.0		1.0	80.0
Sodium	ICP/ES	02/20/2014					OK	99.0	99.0	98.0	0.0		6.0	
Sodium	ICP/ES	02/20/2014					OK	98.0	106.0	106.0	0.0		17.0	
Sodium	ICP/ES	02/20/2014					OK	103.0	103.0	104.0	1.0		14.0	
Sodium	ICP/ES	02/20/2014					OK	97.0	109.0	108.0	1.0		9.0	
Uranium	ICP/MS	02/20/2014	0.0000	1.0000	OK	OK	OK	110.0	102.0	110.0	7.0	102.0	6.0	100.0
Uranium	ICP/MS	02/20/2014					OK	107.0	119.0	114.0	4.0		5.0	

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Method Type	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
			Int.	R^2	CCV	CCB								
Uranium	ICP/MS	02/20/2014					OK	106.0	117.0	116.0	0.0		4.0	
Uranium	ICP/MS	02/20/2014					OK	112.0	105.0	108.0	2.0		8.0	
Uranium	ICP/MS	02/20/2014					OK	112.0	111.0	111.0	0.0		1.0	
Uranium	ICP/MS	02/20/2014					OK	111.0	115.0	108.0	6.0		8.0	
Uranium	ICP/MS	02/20/2014					OK	112.0	144.0	101.0	2.0		2.0	

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Date Analyzed	CALIBRATION				Method	LCS	MS	MSD	DUP	Serial Dil.
		Int.	R^2	CCV	CCB	Blank	%R	%R	%R	RPD	%R
AMMONIA AS N	02/18/2014	0.000	1.0000	OK	OK	OK	105.00				
AMMONIA AS N	02/20/2014	0.000	1.0000	OK	OK	OK	105.00				
AMMONIA AS N	02/27/2014	0.000	1.0000	OK	OK	OK	97.00	102.0	93.0	9.00	
AMMONIA AS N	02/27/2014					OK	97.00	95.0	98.0	3.00	
AMMONIA AS N	02/27/2014					OK	96.00	100.0	103.0	3.00	
AMMONIA AS N	02/27/2014					OK	96.00	99.0	101.0	2.00	
AMMONIA AS N	02/27/2014					OK	97.00	82.0	84.0	2.00	
CHLORIDE	02/18/2014	0.000	1.0000	OK	OK	OK	101.00	98.0	98.0	0	
CHLORIDE	02/18/2014					OK	102.00	94.0	97.0	2.00	
CHLORIDE	02/19/2014			OK	OK	OK	98.00	76.0	76.0	0	
CHLORIDE	02/20/2014			OK	OK	OK	97.00	94.0	89.0	2.00	
CHLORIDE	02/25/2014			OK	OK	OK	99.00	94.0	90.0	1.00	
CHLORIDE	02/25/2014					OK	99.00	79.0	79.0	0	
CHLORIDE	02/26/2014			OK	OK	OK	100.00	98.0	99.0	0	
Nitrate+Nitrite as N	02/19/2014	0.000	1.0000	OK	OK	OK	100.00	107.0	109.0	1.00	
Nitrate+Nitrite as N	02/19/2014					OK	101.00	90.0	86.0	1.00	

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Date Analyzed	CALIBRATION				Method	LCS	MS	MSD	DUP	Serial Dil.
		Int.	R^2	CCV	CCB	Blank	%R	%R	%R	RPD	%R
Nitrate+Nitrite as N	02/19/2014					OK	101.00	101.0	98.0	1.00	
Nitrate+Nitrite as N	02/26/2014	0.000	1.0000	OK	OK	OK	103.00	163.0	140.0	5.00	
Nitrate+Nitrite as N	02/26/2014					OK	102.00	123.0	120.0	1.00	
Nitrate+Nitrite as N	02/26/2014					OK	104.00	107.0	99.0	3.00	
Nitrate+Nitrite as N	02/26/2014					OK	105.00	109.0	90.0	8.00	
SULFATE	02/18/2014	0.000	1.0000	OK	OK	OK	98.00	99.0	98.0	0	
SULFATE	02/18/2014					OK	100.00	75.0	84.0	2.00	
SULFATE	02/19/2014			OK	OK	OK	97.00	103.0	103.0	0	
SULFATE	02/20/2014			OK	OK	OK	96.00	102.0	99.0	2.00	
SULFATE	02/25/2014			OK	OK	OK	96.00	105.0	101.0	2.00	
SULFATE	02/25/2014					OK	97.00	105.0	105.0	0	
SULFATE	02/26/2014			OK	OK	OK	99.00	103.0	101.0	1.00	
TOTAL DISSOLVED SOLIDS	02/18/2014					OK	105.00			13.00	
TOTAL DISSOLVED SOLIDS	02/18/2014					OK	104.00			2.00	
TOTAL DISSOLVED SOLIDS	02/18/2014					OK	102.00			1.00	
TOTAL DISSOLVED SOLIDS	02/18/2014					OK	107.00			2.00	

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 14025914 **Lab Code:** PAR **Date Due:** 03/15/2014

Matrix: Water **Site Code:** TUB01 **Date Completed:** 03/04/2014

Analyte	Date Analyzed	CALIBRATION				Method Blank	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	CCV	CCB						
TOTAL DISSOLVED SOLIDS	02/18/2014									0	
TOTAL DISSOLVED SOLIDS	02/18/2014									1.00	
TOTAL DISSOLVED SOLIDS	02/18/2014									16.00	
TOTAL DISSOLVED SOLIDS	02/20/2014					OK	106.00			1.00	
TOTAL DISSOLVED SOLIDS	02/20/2014					OK	106.00			8.00	
TOTAL DISSOLVED SOLIDS	02/20/2014					OK	102.00			4.00	
TOTAL DISSOLVED SOLIDS	02/20/2014									4.00	
TOTAL DISSOLVED SOLIDS	02/20/2014									4.00	
TOTAL DISSOLVED SOLIDS	02/20/2014									2.00	

Sampling Quality Control Assessment

The following information summarizes and assesses quality control for this sampling event.

Sampling Protocol

Sample results for all monitoring wells met the Category I or II low-flow sampling criteria and were qualified with an "F" flag in the database, indicating the wells were purged and sampled using the low-flow sampling method. All monitoring wells are equipped with either dedicated down-hole and pump head tubing, or a bladder pump.

Extraction wells are spigot samples and are designated as Category IV.

These 44 wells were classified as Category II: 0251, 0258, 0262, 0263, 0264, 0266, 0267, 0272, 0273, 0274, 0277, 0278, 0280, 0281, 0282, 0286, 0287, 0288, 0289, 0290, 0683, 0684, 0690, 0692, 0902, 0906, 0908, 0911, 0913, 0914, 0915, 0916, 0917, 0919, 0929, 0934, 0940, 0941, 0945, 0947, NMW-2A, NMW-6S, NMW-7D, and NMW-9D. The sample results for these wells were qualified with a "Q" flag, indicating the data are qualitative because of the sampling technique.

The three treatment plant locations 1202, 1205, and 1206 were sampled from system taps by Tuba City treatment plant personnel.

Equipment Blank Assessment

Equipment blanks are prepared and analyzed to document contamination attributable to the sample collection process. An equipment blank was not collected during this sampling event.

Field Duplicate Assessment

Field duplicate samples are collected and analyzed as an indication of overall precision of the measurement process. The precision observed includes both field and laboratory precision and has more variability than laboratory duplicates, which measure only laboratory performance. Duplicate samples were collected from locations 1103, 1104, 1105, 1106, 1107, 1119, 1120, 1121, and 1123. The RPD for duplicate results that are greater than 5 times the PQL should be less than 20 percent. The RPD is not used to evaluate results that are less than 5 times the PQL. For these results (RPD is "NA" on the Field Duplicates report), the range should be no greater than the PQL.

The sample and duplicate results that do not meet these criteria are qualified with a "J" flag as estimated values.

During the review of the duplicate data, reporting errors were noted for some of the ammonia as N data. The laboratory was notified on March 18, 2014, with a request to resolve the errors. Revised deliverables were received on March 25, 2014.

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 14025914 **Lab Code:** PAR **Project:** Tuba City **Validation Date:** 03/25/2014

Duplicate: 2186 **Sample:** 1123

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	22			25	23			25	4.44		MG/L
Arsenic	1.7			5	1.6			5	6.06		UG/L
Calcium	380000			1	360000			1	5.41		UG/L
CHLORIDE	110			25	110			25	0		MG/L
Iron	24	B		1	6.7	U		1			UG/L
Magnesium	180000			1	170000			1	5.71		UG/L
Manganese	1200			1	1200			1	0		UG/L
Molybdenum	0.18	B		5	0.16	U		5			UG/L
Nitrate+Nitrite as N	17			20	12			20	34.48		MG/L
Potassium	14000			1	14000			1	0		UG/L
Selenium	9.8			5	9.8			5	0		UG/L
Silica	17000			1	17000			1	0		UG/L
Silicon	8000			1	7700			1	3.82		UG/L
Sodium	210000			1	210000			1	0		UG/L
SULFATE	1700			25	1800			25	5.71		MG/L
TOTAL DISSOLVED SOLIDS	3200			1	2900			1	9.84		MG/L
Uranium	120			5	120			5	0		UG/L

Duplicate: 2386 **Sample:** 1121

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	26			25	26			25	0		MG/L
Arsenic	0.94			5	0.87			5	7.73		UG/L
Calcium	500000			1	500000			1	0		UG/L
CHLORIDE	24			25	24			25			MG/L
Iron	80	B		1	56	B		1	35.29		UG/L
Magnesium	110000			1	100000			1	9.52		UG/L
Manganese	38000			1	36000			1	5.41		UG/L
Molybdenum	26			5	25			5	3.92		UG/L
Nitrate+Nitrite as N	14			20	14			20	0		MG/L
Potassium	8700			1	9300			1	6.67		UG/L
Selenium	4.9			5	5.7			5	15.09		UG/L
Silica	18000			1	17000			1	5.71		UG/L
Silicon	8300			1	8100			1	2.44		UG/L
Sodium	130000			1	140000			1	7.41		UG/L
SULFATE	1900			25	1900			25	0		MG/L
TOTAL DISSOLVED SOLIDS	3100			1	3000			1	3.28		MG/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 14025914 Lab Code: PAR Project: Tuba City Validation Date: 03/25/2014

Duplicate: 2386 **Sample:** 1121

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
Uranium	100			5	100			5	0		UG/L

Duplicate: 2515 **Sample:** 1120

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	31			25	31			25	0		MG/L
Arsenic	1.4			10	1.5			1	6.90		UG/L
Calcium	490000			1	480000			1	2.06		UG/L
CHLORIDE	39			25	40			25	2.53		MG/L
Iron	90	B		1	72	B		1	22.22		UG/L
Magnesium	170000			1	160000			1	6.06		UG/L
Manganese	48000			1	45000			1	6.45		UG/L
Molybdenum	45			10	45			1	0		UG/L
Nitrate+Nitrite as N	23			20	23			20	0		MG/L
Potassium	11000			1	13000			1	16.67		UG/L
Selenium	8.8			10	10			1	12.77		UG/L
Silica	22000			1	21000			1	4.65		UG/L
Silicon	10000			1	10000			1	0		UG/L
Sodium	180000			1	210000			1	15.38		UG/L
SULFATE	2200			25	2200			25	0		MG/L
TOTAL DISSOLVED SOLIDS	3700			1	3600			1	2.74		MG/L
Uranium	110			10	110			1	0		UG/L

Duplicate: 2532 **Sample:** 1119

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	3.8			1	2.9			1	26.87		MG/L
Arsenic	2			10	1.6			5	22.22		UG/L
Calcium	170000			1	140000			1	19.35		UG/L
CHLORIDE	34			20	30			50			MG/L
Iron	4.9	U		1	6.7	U		1			UG/L
Magnesium	61000			1	50000			1	19.82		UG/L
Manganese	1600			1	1400			1	13.33		UG/L
Molybdenum	3.5			10	3.1			5	12.12		UG/L
Nitrate+Nitrite as N	28			20	20			20	33.33		MG/L
Potassium	5300			1	4000			1	27.96		UG/L
Selenium	8.2			10	7.3			5	11.61		UG/L
Sodium	90000			1	80000			1	11.76		UG/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 14025914 Lab Code: PAR Project: Tuba City Validation Date: 03/25/2014

Duplicate: 2532 **Sample:** 1119

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
SULFATE	460			20	390			50	16.47		MG/L
TOTAL DISSOLVED SOLIDS	1500			1	1000	*		1			MG/L
Uranium	77			10	58			5	28.15		UG/L

Duplicate: 2578 **Sample:** 1103

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	16			25	16			25	0		MG/L
Arsenic	1.5			10	1.5			10	0		UG/L
Calcium	660000			10	680000			2	2.99		UG/L
CHLORIDE	130			50	130			25	0		MG/L
Iron	13	B		1	14	B		1			UG/L
Magnesium	220000			1	210000			1	4.65		UG/L
Manganese	2000			1	2200			1	9.52		UG/L
Molybdenum	9.7			10	11			10	12.56		UG/L
Nitrate+Nitrite as N	190			200	220			200	14.63		MG/L
Potassium	16000			1	13000			1	20.69		UG/L
Selenium	31			10	31			10	0		UG/L
Silica	15000			1	16000			1	6.45		UG/L
Silicon	7200			1	7600			1	5.41		UG/L
Sodium	300000			10	330000			1	9.52		UG/L
SULFATE	1900			50	1900			25	0		MG/L
TOTAL DISSOLVED SOLIDS	4700			1	4700			1	0		MG/L
Uranium	330			10	340			10	2.99		UG/L

Duplicate: 2987 **Sample:** 1104

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	53			25	56			25	5.50		MG/L
Arsenic	3			10	3.1			5	3.28		UG/L
Calcium	650000			10	640000			2	1.55		UG/L
CHLORIDE	140			50	140			50	0		MG/L
Iron	27	B		1	6.8	B		1			UG/L
Magnesium	290000			1	280000			1	3.51		UG/L
Manganese	1600			1	1800			1	11.76		UG/L
Molybdenum	44			10	39			5	12.05		UG/L
Nitrate+Nitrite as N	170			200	180			100	5.71		MG/L
Potassium	25000			1	18000			1	32.56		UG/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 14025914 Lab Code: PAR Project: Tuba City Validation Date: 03/25/2014

Duplicate: 2987 **Sample: 1104**

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
Selenium	39			10	39			5	0		UG/L
Sodium	480000			10	470000			1	2.11		UG/L
SULFATE	2600			50	2600			50	0		MG/L
TOTAL DISSOLVED SOLIDS	5500			1	5800			1	5.31		MG/L
Uranium	1100			10	1100			5	0		UG/L

Duplicate: 2988 **Sample: 1105**

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	18			25	18			25	0		MG/L
Arsenic	68			20	83			5	19.87		UG/L
Calcium	340000			1	390000			1	13.70		UG/L
CHLORIDE	67			25	70			10	4.38		MG/L
Iron	4.9	U		1	6.7	U		1			UG/L
Magnesium	120000			1	150000			1	22.22		UG/L
Manganese	1300			1	1700			1	26.67		UG/L
Molybdenum	95			20	120			5	23.26		UG/L
Nitrate+Nitrite as N	110			100	91			100	18.91		MG/L
Potassium	8800			1	9100			1	3.35		UG/L
Selenium	18			20	23			5	24.39		UG/L
Silica	11000			1	14000			1	24.00		UG/L
Silicon	5200			1	6600			1	23.73		UG/L
Sodium	140000			1	200000			1	35.29		UG/L
SULFATE	1300			25	1400			20	7.41		MG/L
TOTAL DISSOLVED SOLIDS	3000			1	3000			1	0		MG/L
Uranium	450			20	550			5	20.00		UG/L

Duplicate: 2989 **Sample: 1106**

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	37			25	38			25	2.67		MG/L
Arsenic	230			100	250			5	8.33		UG/L
Calcium	420000			1	380000			1	10.00		UG/L
CHLORIDE	110			25	110			25	0		MG/L
Iron	4.9	U		1	6.7	U		1			UG/L
Magnesium	110000			1	110000			1	0		UG/L
Manganese	60			1	71			1	16.79		UG/L
Molybdenum	140			100	150			5	6.90		UG/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 14025914 Lab Code: PAR Project: Tuba City Validation Date: 03/25/2014

Duplicate: 2989 Sample: 1106

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
Nitrate+Nitrite as N	110			100	110			100	0		MG/L
Potassium	16000			1	12000			1	28.57		UG/L
Selenium	43			100	53			5	20.83		UG/L
Silica	15000			1	15000			1	0		UG/L
Silicon	7200			1	7100			1	1.40		UG/L
Sodium	280000			10	300000			1	6.90		UG/L
SULFATE	1300			25	1300			25	0		MG/L
TOTAL DISSOLVED SOLIDS	3000			1	3300			1	9.52		MG/L
Uranium	2400			100	2300			5	4.26		UG/L

Duplicate: 2990 Sample: 1107

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	11			25	10			25			MG/L
Arsenic	8.2			10	8.7			10	5.92		UG/L
Calcium	670000			10	680000			2	1.48		UG/L
CHLORIDE	140			50	140			50	0		MG/L
Iron	800			1	870			1	8.38		UG/L
Magnesium	140000			1	140000			1	0		UG/L
Manganese	330			1	360			1	8.70		UG/L
Molybdenum	68			10	69			10	1.46		UG/L
Nitrate+Nitrite as N	190			200	210			200	10.00		MG/L
Potassium	17000			1	12000			1	34.48		UG/L
Selenium	87			10	90			10	3.39		UG/L
Silica	15000			1	16000			1	6.45		UG/L
Silicon	7200			1	7500			1	4.08		UG/L
Sodium	360000			10	380000			1	5.41		UG/L
SULFATE	1600			50	1600			50	0		MG/L
TOTAL DISSOLVED SOLIDS	4400			1	4500			1	2.25		MG/L
Uranium	960			10	990			10	3.08		UG/L

Certification

All laboratory analytical quality control criteria were met except as qualified in this report. The data qualifiers listed on the SEEPro database reports are defined on the last page of each report. All data in this package are considered validated and available for use.

Laboratory Coordinator: Stephen Donivan — Stephen Donivan — 5-15-2014 — Date

Data Validation Lead: Stephen Donivan — Stephen Donivan — 5-5-2014 — Date

Attachment 1
Assessment of Anomalous Data

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Potential Outliers Report

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Potential Outliers Report

Potential outliers are measurements that are extremely large or small relative to the rest of the data and, therefore, are suspected of misrepresenting the population from which they were collected. Potential outliers may result from transcription errors, data-coding errors, or measurement system problems. However, outliers may also represent true extreme values of a distribution and indicate more variability in the population than was expected.

Statistical outlier tests give probabilistic evidence that an extreme value does not "fit" with the distribution of the remainder of the data and is therefore a statistical outlier. These tests should only be used to identify data points that require further investigation. The tests alone cannot determine whether a statistical outlier should be discarded or corrected within a data set.

There are three steps involved in identifying extreme values or outliers:

1. Identify extreme values that may be potential outliers by generating the Outliers Report using the Sample Management System from data in the environmental database. The application compares the new data set (in standard environmental database units) with historical data and lists the new data that fall outside the historical data range. A determination is also made if the data are normally distributed using the Shapiro-Wilk Test.
2. Apply the appropriate statistical test. Dixon's Extreme Value test is used to test for statistical outliers when the sample size is less than or equal to 25. This test considers both extreme values that are much smaller than the rest of the data (case 1) and extreme values that are much larger than the rest of the data (case 2). This test is valid only if the data without the suspected outlier are normally distributed. Rosner's Test is a parametric test that is used to detect outliers for sample sizes of 25 or more. This test also assumes that the data without the suspected outliers are normally distributed.
3. Scientifically review statistical outliers and decide on their disposition. The review should include an evaluation of any notable trends in the data that may indicate the outliers represent true extreme values.

Data were identified as potentially anomalous from 25 locations. Further review of these data did not indicate any laboratory errors. Potential anomalies in the field parameters were also examined for patterns of repeated high or low bias, which suggest a systematic error due to instrument malfunction. No such patterns were found and the data from this event are acceptable as qualified.

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Attachment 2
Data Presentation

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Groundwater Quality Data

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Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0251 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	200 - 300	81		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	200 - 300	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	200 - 300	0.0023		FQ	#	0.00003	
Calcium	mg/L	02/12/2014	N001	200 - 300	27		FQ	#	0.012	
Chloride	mg/L	02/12/2014	N001	200 - 300	6.8		FQ	#	0.2	
Iron	mg/L	02/12/2014	N001	200 - 300	0.052	B	UFQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	200 - 300	5.7		FQ	#	0.013	
Manganese	mg/L	02/12/2014	N001	200 - 300	0.029		FQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	200 - 300	0.00025		FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	200 - 300	3.4		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	200 - 300	96.4		FQ	#		
pH	s.u.	02/12/2014	N001	200 - 300	8.04		FQ	#		
Potassium	mg/L	02/12/2014	N001	200 - 300	1.9		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	200 - 300	0.00094		FQ	#	0.000065	
Silica	mg/L	02/12/2014	N001	200 - 300	10		FQ	#	0.0095	
Silicon	mg/L	02/12/2014	N001	200 - 300	4.9		FQ	#	0.0044	
Sodium	mg/L	02/12/2014	N001	200 - 300	5.6	E	FQJ	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	200 - 300	218		FQ	#		
Sulfate	mg/L	02/12/2014	N001	200 - 300	12		FQ	#	0.5	
Temperature	C	02/12/2014	N001	200 - 300	16.43		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	200 - 300	140		FQ	#	20	
Turbidity	NTU	02/12/2014	N001	200 - 300	1.1		FQ	#		
Uranium	mg/L	02/12/2014	N001	200 - 300	0.0015		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0252 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	400 - 500	81		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	400 - 500	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	400 - 500	0.002		F	#	0.00003	
Calcium	mg/L	02/12/2014	N001	400 - 500	22		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	400 - 500	5.1		F	#	0.2	
Iron	mg/L	02/12/2014	N001	400 - 500	0.006	B	UF	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	400 - 500	4.1		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	400 - 500	0.0054		F	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	400 - 500	0.00015	B	F	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	400 - 500	2.4		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	400 - 500	96.7		F	#		
pH	s.u.	02/12/2014	N001	400 - 500	7.9		F	#		
Potassium	mg/L	02/12/2014	N001	400 - 500	1.9		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	400 - 500	0.00093		F	#	0.000065	
Silica	mg/L	02/12/2014	N001	400 - 500	10		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	400 - 500	4.7		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	400 - 500	9.4		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	400 - 500	191		F	#		
Sulfate	mg/L	02/12/2014	N001	400 - 500	6.9		F	#	0.5	
Temperature	C	02/12/2014	N001	400 - 500	16.42		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	400 - 500	120		F	#	20	
Turbidity	NTU	02/12/2014	N001	400 - 500	0.98		F	#		
Uranium	mg/L	02/12/2014	N001	400 - 500	0.0019		F	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0258 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	159 - 199	102		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	159 - 199	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	159 - 199	0.0024		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	159 - 199	32		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	159 - 199	13		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	159 - 199	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	159 - 199	7		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	159 - 199	0.00024	U	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	159 - 199	0.0005	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	159 - 199	3.4		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	159 - 199	110.7		FQ	#		
pH	s.u.	02/11/2014	N001	159 - 199	7.87		FQ	#		
Potassium	mg/L	02/11/2014	N001	159 - 199	1.8		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	159 - 199	0.0017		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	159 - 199	11		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	159 - 199	5.1		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	159 - 199	13		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	159 - 199	285		FQ	#		
Sulfate	mg/L	02/11/2014	N001	159 - 199	19		FQ	#	0.5	
Temperature	C	02/11/2014	N001	159 - 199	16.5		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	159 - 199	220		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	159 - 199	1.56		FQ	#		
Uranium	mg/L	02/11/2014	N001	159 - 199	0.0014		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0261 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	160 - 200	116		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	160 - 200	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	160 - 200	0.0021		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	160 - 200	31		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	160 - 200	13		F	#	0.2	
Iron	mg/L	02/11/2014	N001	160 - 200	0.0086	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	160 - 200	7.6		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	160 - 200	0.0026	B	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	160 - 200	0.00058		F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	160 - 200	3.3		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	160 - 200	110.1		F	#		
pH	s.u.	02/11/2014	N001	160 - 200	7.98		F	#		
Potassium	mg/L	02/11/2014	N001	160 - 200	1.8		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	160 - 200	0.002		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	160 - 200	11		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	160 - 200	5.2		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	160 - 200	13		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	160 - 200	287		F	#		
Sulfate	mg/L	02/11/2014	N001	160 - 200	19		F	#	0.5	
Temperature	C	02/11/2014	N001	160 - 200	16.17		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	160 - 200	210		F	#	20	
Turbidity	NTU	02/11/2014	N001	160 - 200	0.65		F	#		
Uranium	mg/L	02/11/2014	N001	160 - 200	0.0014		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0262 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	60 - 100	461		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	60 - 100	1.5		FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	60 - 100	0.0025		FQ	#	0.00015	
Calcium	mg/L	02/12/2014	N001	60 - 100	780		FQ	#	0.12	
Chloride	mg/L	02/12/2014	N001	60 - 100	120		FQ	#	10	
Iron	mg/L	02/12/2014	N001	60 - 100	0.0049	U	FQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	60 - 100	220		FQ	#	0.013	
Manganese	mg/L	02/12/2014	N001	60 - 100	0.012		FQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	60 - 100	0.46		FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	60 - 100	190		FQ	#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	60 - 100	125.6		FQ	#		
pH	s.u.	02/12/2014	N001	60 - 100	6.68		FQ	#		
Potassium	mg/L	02/12/2014	N001	60 - 100	12		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	60 - 100	0.05		FQ	#	0.00032	
Silica	mg/L	02/12/2014	N001	60 - 100	18		FQ	#	0.0095	
Silicon	mg/L	02/12/2014	N001	60 - 100	8.5		FQ	#	0.0044	
Sodium	mg/L	02/12/2014	N001	60 - 100	290		FQ	#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	60 - 100	5085		FQ	#		
Sulfate	mg/L	02/12/2014	N001	60 - 100	2100		FQ	#	25	
Temperature	C	02/12/2014	N001	60 - 100	16.65		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	60 - 100	4700		FQ	#	80	
Turbidity	NTU	02/12/2014	N001	60 - 100	3.04		FQ	#		
Uranium	mg/L	02/12/2014	N001	60 - 100	0.6		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0263 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	60 - 100	548		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	60 - 100	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	60 - 100	0.0026		FQ	#	0.00015	
Calcium	mg/L	02/11/2014	N001	60 - 100	490		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	60 - 100	110		FQ	#	10	
Iron	mg/L	02/11/2014	N001	60 - 100	0.042	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	60 - 100	420		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	60 - 100	0.0042	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	60 - 100	0.082		FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	60 - 100	210		FQ	#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	60 - 100	174.8		FQ	#		
pH	s.u.	02/11/2014	N001	60 - 100	6.52		FQ	#		
Potassium	mg/L	02/11/2014	N001	60 - 100	6.3		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	60 - 100	0.043		FQ	#	0.00032	
Silica	mg/L	02/11/2014	N001	60 - 100	19		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	60 - 100	8.8		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	60 - 100	300		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	60 - 100	5350		FQ	#		
Sulfate	mg/L	02/11/2014	N001	60 - 100	2200		FQ	#	25	
Temperature	C	02/11/2014	N001	60 - 100	15.9		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	60 - 100	4700	*	FQ	#	80	
Turbidity	NTU	02/11/2014	N001	60 - 100	7.03		FQ	#		
Uranium	mg/L	02/11/2014	N001	60 - 100	0.33		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0264 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	160 - 200	110		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	160 - 200	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	160 - 200	0.0021		FQ	#	0.00003	
Calcium	mg/L	02/11/2014	N001	160 - 200	67		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	160 - 200	16		FQ	#	1	
Iron	mg/L	02/11/2014	N001	160 - 200	0.057	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	160 - 200	14		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	160 - 200	0.0024	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	160 - 200	0.00038		FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	160 - 200	13		FQ	#	0.1	
Oxidation Reduction Potential	mV	02/11/2014	N001	160 - 200	140.6		FQ	#		
pH	s.u.	02/11/2014	N001	160 - 200	7.62		FQ	#		
Potassium	mg/L	02/11/2014	N001	160 - 200	2.3		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	160 - 200	0.0022		FQ	#	0.000065	
Silica	mg/L	02/11/2014	N001	160 - 200	12		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	160 - 200	5.5		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	160 - 200	18		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	160 - 200	560		FQ	#		
Sulfate	mg/L	02/11/2014	N001	160 - 200	90		FQ	#	2.5	
Temperature	C	02/11/2014	N001	160 - 200	16.12		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	160 - 200	360		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	160 - 200	4.49		FQ	#		
Uranium	mg/L	02/11/2014	N001	160 - 200	0.004		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0265 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	60 - 100	328		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	60 - 100	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	60 - 100	0.0012		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	60 - 100	540		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	60 - 100	130		F	#	10	
Iron	mg/L	02/11/2014	N001	60 - 100	0.045	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	60 - 100	170		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	60 - 100	0.0063		F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	60 - 100	0.00016	U	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	60 - 100	170		F	#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	60 - 100	174.7		F	#		
pH	s.u.	02/11/2014	N001	60 - 100	6.74		F	#		
Potassium	mg/L	02/11/2014	N001	60 - 100	5.4		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	60 - 100	0.0058		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	60 - 100	15		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	60 - 100	6.9		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	60 - 100	120		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	60 - 100	3755		F	#		
Sulfate	mg/L	02/11/2014	N001	60 - 100	1200		F	#	25	
Temperature	C	02/11/2014	N001	60 - 100	15.68		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	60 - 100	3200		F	#	80	
Turbidity	NTU	02/11/2014	N001	60 - 100	1.3		F	#		
Uranium	mg/L	02/11/2014	N001	60 - 100	0.065		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0266 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	160 - 200	98		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	160 - 200	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	160 - 200	0.002		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	160 - 200	26		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	160 - 200	7.9		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	160 - 200	0.023	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	160 - 200	6.9		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	160 - 200	0.0068		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	160 - 200	0.00024	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	160 - 200	3.5		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	160 - 200	153.5		FQ	#		
pH	s.u.	02/11/2014	N001	160 - 200	7.79		FQ	#		
Potassium	mg/L	02/11/2014	N001	160 - 200	2.4		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	160 - 200	0.00087		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	160 - 200	10		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	160 - 200	4.8		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	160 - 200	6.7		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	160 - 200	271		FQ	#		
Sulfate	mg/L	02/11/2014	N001	160 - 200	11		FQ	#	0.5	
Temperature	C	02/11/2014	N001	160 - 200	16.28		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	160 - 200	180		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	160 - 200	1.72		FQ	#		
Uranium	mg/L	02/11/2014	N001	160 - 200	0.0016		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0267 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	60 - 100	832		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	60 - 100	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	60 - 100	0.0042		FQ	#	0.00015	
Calcium	mg/L	02/12/2014	N001	60 - 100	550		FQ	#	0.12	
Chloride	mg/L	02/12/2014	N001	60 - 100	110		FQ	#	20	
Iron	mg/L	02/12/2014	N001	60 - 100	0.013	B	UFQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	60 - 100	750		FQ	#	0.13	
Manganese	mg/L	02/12/2014	N001	60 - 100	0.013		FQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	60 - 100	0.00057	B	FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	60 - 100	280	N	FQ	#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	60 - 100	125.5		FQ	#		
pH	s.u.	02/12/2014	N001	60 - 100	6.43		FQ	#		
Potassium	mg/L	02/12/2014	N001	60 - 100	14		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	60 - 100	0.046		FQ	#	0.00032	
Silica	mg/L	02/12/2014	N001	60 - 100	22		FQ	#	0.0095	
Silicon	mg/L	02/12/2014	N001	60 - 100	10		FQ	#	0.0044	
Sodium	mg/L	02/12/2014	N001	60 - 100	390		FQ	#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	60 - 100	7374		FQ	#		
Sulfate	mg/L	02/12/2014	N001	60 - 100	3400		FQ	#	50	
Temperature	C	02/12/2014	N001	60 - 100	15.99		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	60 - 100	7500	*	FQ	#	200	
Turbidity	NTU	02/12/2014	N001	60 - 100	2.48		FQ	#		
Uranium	mg/L	02/12/2014	N001	60 - 100	0.07		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0268 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	200 - 300	192		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	200 - 300	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	200 - 300	0.00099		F	#	0.00003	
Calcium	mg/L	02/13/2014	N001	200 - 300	170		F	#	0.024	
Chloride	mg/L	02/13/2014	N001	200 - 300	25		F	#	2	
Iron	mg/L	02/13/2014	N001	200 - 300	0.0067	U	F	#	0.0067	
Magnesium	mg/L	02/13/2014	N001	200 - 300	32		F	#	0.03	
Manganese	mg/L	02/13/2014	N001	200 - 300	0.0088		F	#	0.00024	
Molybdenum	mg/L	02/13/2014	N001	200 - 300	0.00029		F	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	200 - 300	17		F	#	0.5	
Oxidation Reduction Potential	mV	02/13/2014	N001	200 - 300	180		F	#		
pH	s.u.	02/13/2014	N001	200 - 300	6.9		F	#		
Potassium	mg/L	02/13/2014	N001	200 - 300	3.9		F	#	0.052	
Selenium	mg/L	02/13/2014	N001	200 - 300	0.0027		F	#	0.000065	
Silica	mg/L	02/13/2014	N001	200 - 300	12		F	#	0.021	
Silicon	mg/L	02/13/2014	N001	200 - 300	5.5		F	#	0.0097	
Sodium	mg/L	02/13/2014	N001	200 - 300	33		F	#	0.047	
Specific Conductance	umhos /cm	02/13/2014	N001	200 - 300	1170		F	#		
Sulfate	mg/L	02/13/2014	N001	200 - 300	300		F	#	5	
Temperature	C	02/13/2014	N001	200 - 300	16.2		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	200 - 300	890		F	#	20	
Turbidity	NTU	02/13/2014	N001	200 - 300	0.94		F	#		
Uranium	mg/L	02/13/2014	N001	200 - 300	0.06		F	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0271 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	60 - 100	114		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	60 - 100	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	60 - 100	0.002		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	60 - 100	34		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	60 - 100	11		F	#	0.2	
Iron	mg/L	02/13/2014	N001	60 - 100	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	60 - 100	6.4		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	60 - 100	0.00014	B	UF	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	60 - 100	0.00036	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	60 - 100	3.8		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	60 - 100	148.9		F	#		
pH	s.u.	02/13/2014	N001	60 - 100	7.99		F	#		
Potassium	mg/L	02/13/2014	N001	60 - 100	1.4		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	60 - 100	0.0013		F	#	0.00016	
Silica	mg/L	02/13/2014	N001	60 - 100	11		F	#	0.0095	
Silicon	mg/L	02/13/2014	N001	60 - 100	5.1		F	#	0.0044	
Sodium	mg/L	02/13/2014	N001	60 - 100	8	E	FJ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	60 - 100	268		F	#		
Sulfate	mg/L	02/13/2014	N001	60 - 100	15		F	#	0.5	
Temperature	C	02/13/2014	N001	60 - 100	16.82		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	60 - 100	180		F	#	20	
Turbidity	NTU	02/13/2014	N001	60 - 100	0.71		F	#		
Uranium	mg/L	02/13/2014	N001	60 - 100	0.0013		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0272 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	159.1 - 179.1	108		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	159.1 - 179.1	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	159.1 - 179.1	0.0017		FQ	#	0.000074	
Calcium	mg/L	02/13/2014	N001	159.1 - 179.1	34		FQ	#	0.024	
Chloride	mg/L	02/13/2014	N001	159.1 - 179.1	8.9		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	159.1 - 179.1	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/13/2014	N001	159.1 - 179.1	7.4		FQ	#	0.03	
Manganese	mg/L	02/13/2014	N001	159.1 - 179.1	0.0042	B	FQ	#	0.00024	
Molybdenum	mg/L	02/13/2014	N001	159.1 - 179.1	0.00023	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	159.1 - 179.1	5.3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	159.1 - 179.1	120		FQ	#		
pH	s.u.	02/13/2014	N001	159.1 - 179.1	7.46		FQ	#		
Potassium	mg/L	02/13/2014	N001	159.1 - 179.1	1.8		FQ	#	0.052	
Selenium	mg/L	02/13/2014	N001	159.1 - 179.1	0.0015		FQ	#	0.00016	
Silica	mg/L	02/13/2014	N001	159.1 - 179.1	9.8		FQ	#	0.021	
Silicon	mg/L	02/13/2014	N001	159.1 - 179.1	4.6		FQ	#	0.0097	
Sodium	mg/L	02/13/2014	N001	159.1 - 179.1	7.5		FQ	#	0.047	
Specific Conductance	umhos /cm	02/13/2014	N001	159.1 - 179.1	275		FQ	#		
Sulfate	mg/L	02/13/2014	N001	159.1 - 179.1	16		FQ	#	0.5	
Temperature	C	02/13/2014	N001	159.1 - 179.1	17.5		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	159.1 - 179.1	200		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	159.1 - 179.1	0.71		FQ	#		
Uranium	mg/L	02/13/2014	N001	159.1 - 179.1	0.0018		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0273 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	153 - 173	120		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	153 - 173	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	153 - 173	0.0014		FQ	#	0.000074	
Calcium	mg/L	02/13/2014	N001	153 - 173	85		FQ	#	0.024	
Chloride	mg/L	02/13/2014	N001	153 - 173	26		FQ	#	1	
Iron	mg/L	02/13/2014	N001	153 - 173	0.04	B	FQ	#	0.0067	
Magnesium	mg/L	02/13/2014	N001	153 - 173	16		FQ	#	0.03	
Manganese	mg/L	02/13/2014	N001	153 - 173	0.0027	B	FQ	#	0.00024	
Molybdenum	mg/L	02/13/2014	N001	153 - 173	0.012		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	153 - 173	16		FQ	#	0.5	
Oxidation Reduction Potential	mV	02/13/2014	N001	153 - 173	175		FQ	#		
pH	s.u.	02/13/2014	N001	153 - 173	7.33		FQ	#		
Potassium	mg/L	02/13/2014	N001	153 - 173	2.2		FQ	#	0.052	
Selenium	mg/L	02/13/2014	N001	153 - 173	0.0089		FQ	#	0.00016	
Silica	mg/L	02/13/2014	N001	153 - 173	11		FQ	#	0.021	
Silicon	mg/L	02/13/2014	N001	153 - 173	5		FQ	#	0.0097	
Sodium	mg/L	02/13/2014	N001	153 - 173	19		FQ	#	0.047	
Specific Conductance	umhos /cm	02/13/2014	N001	153 - 173	770		FQ	#		
Sulfate	mg/L	02/13/2014	N001	153 - 173	97		FQ	#	2.5	
Temperature	C	02/13/2014	N001	153 - 173	17		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	153 - 173	420		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	153 - 173	5.69		FQ	#		
Uranium	mg/L	02/13/2014	N001	153 - 173	0.015		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0274 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	149 - 169	90		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	149 - 169	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	149 - 169	0.0024		FQ	#	0.00003	
Calcium	mg/L	02/11/2014	N001	149 - 169	32		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	149 - 169	11		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	149 - 169	0.044	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	149 - 169	6.6		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	149 - 169	0.0056		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	149 - 169	0.00042		FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	149 - 169	3.7		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	149 - 169	157		FQ	#		
pH	s.u.	02/11/2014	N001	149 - 169	7.68		FQ	#		
Potassium	mg/L	02/11/2014	N001	149 - 169	1.5		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	149 - 169	0.0015		FQ	#	0.000065	
Silica	mg/L	02/11/2014	N001	149 - 169	10		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	149 - 169	4.8		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	149 - 169	12		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	149 - 169	300		FQ	#		
Sulfate	mg/L	02/11/2014	N001	149 - 169	16		FQ	#	0.5	
Temperature	C	02/11/2014	N001	149 - 169	15.86		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	149 - 169	420		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	149 - 169	4.32		FQ	#		
Uranium	mg/L	02/11/2014	N001	149 - 169	0.0017		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0275 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	158.2 - 178.2	464		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	158.2 - 178.2	22		F	#	1	
Arsenic	mg/L	02/13/2014	N001	158.2 - 178.2	0.00086		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	158.2 - 178.2	670		F	#	0.049	
Chloride	mg/L	02/13/2014	N001	158.2 - 178.2	340		F	#	10	
Iron	mg/L	02/13/2014	N001	158.2 - 178.2	0.016	B	F	#	0.0067	
Magnesium	mg/L	02/13/2014	N001	158.2 - 178.2	330		F	#	0.03	
Manganese	mg/L	02/13/2014	N001	158.2 - 178.2	8.6		F	#	0.00024	
Molybdenum	mg/L	02/13/2014	N001	158.2 - 178.2	0.00046	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	158.2 - 178.2	190		F	#	2	
Oxidation Reduction Potential	mV	02/13/2014	N001	158.2 - 178.2	220		F	#		
pH	s.u.	02/13/2014	N001	158.2 - 178.2	6.3		F	#		
Potassium	mg/L	02/13/2014	N001	158.2 - 178.2	17		F	#	0.052	
Selenium	mg/L	02/13/2014	N001	158.2 - 178.2	0.038		F	#	0.00016	
Silica	mg/L	02/13/2014	N001	158.2 - 178.2	15		F	#	0.021	
Silicon	mg/L	02/13/2014	N001	158.2 - 178.2	7.2		F	#	0.0097	
Sodium	mg/L	02/13/2014	N001	158.2 - 178.2	530		F	#	0.093	
Specific Conductance	umhos /cm	02/13/2014	N001	158.2 - 178.2	6475		F	#		
Sulfate	mg/L	02/13/2014	N001	158.2 - 178.2	2700		F	#	25	
Temperature	C	02/13/2014	N001	158.2 - 178.2	16.9		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	158.2 - 178.2	5800		F	#	200	
Turbidity	NTU	02/13/2014	N001	158.2 - 178.2	0.63		F	#		
Uranium	mg/L	02/13/2014	N001	158.2 - 178.2	0.44		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0276 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	154.5 - 174.5	96		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	154.5 - 174.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	154.5 - 174.5	0.0026		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	154.5 - 174.5	34		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	154.5 - 174.5	12		F	#	0.2	
Iron	mg/L	02/13/2014	N001	154.5 - 174.5	0.088	B	F	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	154.5 - 174.5	6.7		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	154.5 - 174.5	0.0011	B	UF	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	154.5 - 174.5	0.0005	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	154.5 - 174.5	3.2		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	154.5 - 174.5	160		F	#		
pH	s.u.	02/13/2014	N001	154.5 - 174.5	7.65		F	#		
Potassium	mg/L	02/13/2014	N001	154.5 - 174.5	1.2		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	154.5 - 174.5	0.0017		F	#	0.00016	
Silica	mg/L	02/13/2014	N001	154.5 - 174.5	12		F	#	0.0095	
Silicon	mg/L	02/13/2014	N001	154.5 - 174.5	5.5		F	#	0.0044	
Sodium	mg/L	02/13/2014	N001	154.5 - 174.5	12		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	154.5 - 174.5	275		F	#		
Sulfate	mg/L	02/13/2014	N001	154.5 - 174.5	17		F	#	0.5	
Temperature	C	02/13/2014	N001	154.5 - 174.5	16		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	154.5 - 174.5	180		F	#	20	
Turbidity	NTU	02/13/2014	N001	154.5 - 174.5	1.8		F	#		
Uranium	mg/L	02/13/2014	N001	154.5 - 174.5	0.0017		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0277 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	95.7	-	105.7	94		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	95.7	-	105.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	95.7	-	105.7	0.00044		FQ	#	0.000015	
Calcium	mg/L	02/12/2014	N001	95.7	-	105.7	27		FQ	#	0.012	
Chloride	mg/L	02/12/2014	N001	95.7	-	105.7	10		FQ	#	0.2	
Iron	mg/L	02/12/2014	N001	95.7	-	105.7	0.046	B	FQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	95.7	-	105.7	9		FQ	#	0.013	
Manganese	mg/L	02/12/2014	N001	95.7	-	105.7	0.03		FQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	95.7	-	105.7	0.00044		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	95.7	-	105.7	3.3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	95.7	-	105.7	129.8		FQ	#		
pH	s.u.	02/12/2014	N001	95.7	-	105.7	7.62		FQ	#		
Potassium	mg/L	02/12/2014	N001	95.7	-	105.7	2		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	95.7	-	105.7	0.0014		FQ	#	0.000032	
Silica	mg/L	02/12/2014	N001	95.7	-	105.7	15		FQ	#	0.0095	
Silicon	mg/L	02/12/2014	N001	95.7	-	105.7	6.8		FQ	#	0.0044	
Sodium	mg/L	02/12/2014	N001	95.7	-	105.7	11		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	95.7	-	105.7	268		FQ	#		
Sulfate	mg/L	02/12/2014	N001	95.7	-	105.7	16		FQ	#	0.5	
Temperature	C	02/12/2014	N001	95.7	-	105.7	16.6		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	95.7	-	105.7	150		FQ	#	20	
Turbidity	NTU	02/12/2014	N001	95.7	-	105.7	1.75		FQ	#		
Uranium	mg/L	02/12/2014	N001	95.7	-	105.7	0.0027		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0278 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90.5 - 100.5	94		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	90.5 - 100.5	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	90.5 - 100.5	0.0018		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	90.5 - 100.5	26		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	90.5 - 100.5	9.5		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	90.5 - 100.5	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	90.5 - 100.5	6.6		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	90.5 - 100.5	0.00089	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	90.5 - 100.5	0.00036	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90.5 - 100.5	3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	90.5 - 100.5	94.1		FQ	#		
pH	s.u.	02/11/2014	N001	90.5 - 100.5	7.85		FQ	#		
Potassium	mg/L	02/11/2014	N001	90.5 - 100.5	2.3		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	90.5 - 100.5	0.0013		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	90.5 - 100.5	10		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	90.5 - 100.5	4.8		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	90.5 - 100.5	10		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	90.5 - 100.5	244		FQ	#		
Sulfate	mg/L	02/11/2014	N001	90.5 - 100.5	13		FQ	#	0.5	
Temperature	C	02/11/2014	N001	90.5 - 100.5	16.25		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90.5 - 100.5	550		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	90.5 - 100.5	0.41		FQ	#		
Uranium	mg/L	02/11/2014	N001	90.5 - 100.5	0.0013		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0279 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	26.5 - 36.5	92		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	26.5 - 36.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	26.5 - 36.5	0.00097		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	26.5 - 36.5	49		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	26.5 - 36.5	26		F	#	1	
Iron	mg/L	02/11/2014	N001	26.5 - 36.5	0.13		F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	26.5 - 36.5	11		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	26.5 - 36.5	0.013		F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	26.5 - 36.5	0.00061		F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	26.5 - 36.5	8.9		F	#	0.1	
Oxidation Reduction Potential	mV	02/11/2014	N001	26.5 - 36.5	98		F	#		
pH	s.u.	02/11/2014	N001	26.5 - 36.5	7.66		F	#		
Potassium	mg/L	02/11/2014	N001	26.5 - 36.5	2.1		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	26.5 - 36.5	0.0025		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	26.5 - 36.5	11		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	26.5 - 36.5	5.3		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	26.5 - 36.5	15		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	26.5 - 36.5	423		F	#		
Sulfate	mg/L	02/11/2014	N001	26.5 - 36.5	58		F	#	0.5	
Temperature	C	02/11/2014	N001	26.5 - 36.5	16.94		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	26.5 - 36.5	420		F	#	20	
Turbidity	NTU	02/11/2014	N001	26.5 - 36.5	1.37		F	#		
Uranium	mg/L	02/11/2014	N001	26.5 - 36.5	0.0018		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0280 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	26.5 - 36.5	94		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	26.5 - 36.5	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	26.5 - 36.5	0.0026		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	26.5 - 36.5	32		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	26.5 - 36.5	19	N	FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	26.5 - 36.5	0.03	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	26.5 - 36.5	6.7		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	26.5 - 36.5	0.0012	B	UFQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	26.5 - 36.5	0.00052		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	26.5 - 36.5	2.7		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	26.5 - 36.5	99.8		FQ	#		
pH	s.u.	02/11/2014	N001	26.5 - 36.5	7.68		FQ	#		
Potassium	mg/L	02/11/2014	N001	26.5 - 36.5	1.2		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	26.5 - 36.5	0.0019		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	26.5 - 36.5	11		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	26.5 - 36.5	5.1		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	26.5 - 36.5	20		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	26.5 - 36.5	308		FQ	#		
Sulfate	mg/L	02/11/2014	N001	26.5 - 36.5	21		FQ	#	0.5	
Temperature	C	02/11/2014	N001	26.5 - 36.5	16.45		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	26.5 - 36.5	200		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	26.5 - 36.5	5.28		FQ	#		
Uranium	mg/L	02/11/2014	N001	26.5 - 36.5	0.0014		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0281 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	70.5	-	80.5	117		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	70.5	-	80.5	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	70.5	-	80.5	0.0011		FQ	#	0.000074	
Calcium	mg/L	02/12/2014	N001	70.5	-	80.5	96		FQ	#	0.012	
Chloride	mg/L	02/12/2014	N001	70.5	-	80.5	20		FQ	#	1	
Iron	mg/L	02/12/2014	N001	70.5	-	80.5	0.28		FQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	70.5	-	80.5	18		FQ	#	0.013	
Manganese	mg/L	02/12/2014	N001	70.5	-	80.5	0.016		FQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	70.5	-	80.5	0.0005		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	70.5	-	80.5	25		FQ	#	0.2	
Oxidation Reduction Potential	mV	02/12/2014	N001	70.5	-	80.5	97.8		FQ	#		
pH	s.u.	02/12/2014	N001	70.5	-	80.5	7.53		FQ	#		
Potassium	mg/L	02/12/2014	N001	70.5	-	80.5	1.7		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	70.5	-	80.5	0.0019		FQ	#	0.00016	
Silica	mg/L	02/12/2014	N001	70.5	-	80.5	14		FQ	#	0.0095	
Silicon	mg/L	02/12/2014	N001	70.5	-	80.5	6.6		FQ	#	0.0044	
Sodium	mg/L	02/12/2014	N001	70.5	-	80.5	13		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	70.5	-	80.5	698		FQ	#		
Sulfate	mg/L	02/12/2014	N001	70.5	-	80.5	100		FQ	#	2.5	
Temperature	C	02/12/2014	N001	70.5	-	80.5	15.98		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	70.5	-	80.5	420		FQ	#	20	
Turbidity	NTU	02/12/2014	N001	70.5	-	80.5	4.03		FQ	#		
Uranium	mg/L	02/12/2014	N001	70.5	-	80.5	0.0057		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0282 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	74.1 - 84.1	123		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	74.1 - 84.1	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	74.1 - 84.1	0.00014		FQ	#	0.000015	
Calcium	mg/L	02/12/2014	N001	74.1 - 84.1	120		FQ	#	0.012	
Chloride	mg/L	02/12/2014	N001	74.1 - 84.1	44		FQ	#	2	
Iron	mg/L	02/12/2014	N001	74.1 - 84.1	0.027	B	UFQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	74.1 - 84.1	24		FQ	#	0.013	
Manganese	mg/L	02/12/2014	N001	74.1 - 84.1	0.0014	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	74.1 - 84.1	0.00041		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	74.1 - 84.1	41		FQ	#	0.5	
Oxidation Reduction Potential	mV	02/12/2014	N001	74.1 - 84.1	105.9		FQ	#		
pH	s.u.	02/12/2014	N001	74.1 - 84.1	7.51		FQ	#		
Potassium	mg/L	02/12/2014	N001	74.1 - 84.1	2.3		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	74.1 - 84.1	0.002		FQ	#	0.000032	
Silica	mg/L	02/12/2014	N001	74.1 - 84.1	14		FQ	#	0.0095	
Silicon	mg/L	02/12/2014	N001	74.1 - 84.1	6.5		FQ	#	0.0044	
Sodium	mg/L	02/12/2014	N001	74.1 - 84.1	15		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	74.1 - 84.1	903		FQ	#		
Sulfate	mg/L	02/12/2014	N001	74.1 - 84.1	94		FQ	#	5	
Temperature	C	02/12/2014	N001	74.1 - 84.1	15.48		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	74.1 - 84.1	560		FQ	#	20	
Turbidity	NTU	02/12/2014	N001	74.1 - 84.1	3.34		FQ	#		
Uranium	mg/L	02/12/2014	N001	74.1 - 84.1	0.005		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0286 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	93.2 - 103.2	584		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	93.2 - 103.2	4.6		FQ	#	0.2	
Arsenic	mg/L	02/11/2014	N001	93.2 - 103.2	0.0011		FQ	#	0.00015	
Calcium	mg/L	02/11/2014	N001	93.2 - 103.2	610		FQ	#	0.049	
Chloride	mg/L	02/11/2014	N001	93.2 - 103.2	93		FQ	#	10	
Iron	mg/L	02/11/2014	N001	93.2 - 103.2	0.054	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	93.2 - 103.2	310		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	93.2 - 103.2	2.4		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	93.2 - 103.2	0.00032	U	FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	93.2 - 103.2	190		FQ	#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	93.2 - 103.2	206.9		FQ	#		
pH	s.u.	02/11/2014	N001	93.2 - 103.2	6.4		FQ	#		
Potassium	mg/L	02/11/2014	N001	93.2 - 103.2	9.3		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	93.2 - 103.2	0.027		FQ	#	0.00032	
Silica	mg/L	02/11/2014	N001	93.2 - 103.2	17		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	93.2 - 103.2	7.8		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	93.2 - 103.2	240		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	93.2 - 103.2	5202		FQ	#		
Sulfate	mg/L	02/11/2014	N001	93.2 - 103.2	2100		FQ	#	25	
Temperature	C	02/11/2014	N001	93.2 - 103.2	16.96		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	93.2 - 103.2	4600		FQ	#	80	
Turbidity	NTU	02/11/2014	N001	93.2 - 103.2	6.93		FQ	#		
Uranium	mg/L	02/11/2014	N001	93.2 - 103.2	0.33		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0287 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	100.7 - 110.7	610		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	100.7 - 110.7	0.91		FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	100.7 - 110.7	0.0022		FQ	#	0.00015	
Calcium	mg/L	02/11/2014	N001	100.7 - 110.7	830		FQ	#	0.049	
Chloride	mg/L	02/11/2014	N001	100.7 - 110.7	220		FQ	#	40	
Iron	mg/L	02/11/2014	N001	100.7 - 110.7	0.015	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	100.7 - 110.7	140		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	100.7 - 110.7	0.0098		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	100.7 - 110.7	0.15		FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	100.7 - 110.7	280		FQ	#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	100.7 - 110.7	174.9		FQ	#		
pH	s.u.	02/11/2014	N001	100.7 - 110.7	6.4		FQ	#		
Potassium	mg/L	02/11/2014	N001	100.7 - 110.7	7.6		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	100.7 - 110.7	0.097		FQ	#	0.00032	
Silica	mg/L	02/11/2014	N001	100.7 - 110.7	18		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	100.7 - 110.7	8.5		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	100.7 - 110.7	370		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	100.7 - 110.7	5401		FQ	#		
Sulfate	mg/L	02/11/2014	N001	100.7 - 110.7	1600		FQ	#	100	
Temperature	C	02/11/2014	N001	100.7 - 110.7	15.19		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	100.7 - 110.7	9300		FQ	#	400	
Turbidity	NTU	02/11/2014	N001	100.7 - 110.7	3.55		FQ	#		
Uranium	mg/L	02/11/2014	N001	100.7 - 110.7	0.29		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0288 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	104 - 114	206		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	104 - 114	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	104 - 114	0.00055		FQ	#	0.00003	
Calcium	mg/L	02/11/2014	N001	104 - 114	170		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	104 - 114	21		FQ	#	2	
Iron	mg/L	02/11/2014	N001	104 - 114	0.016	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	104 - 114	33		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	104 - 114	0.0024	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	104 - 114	0.00017	B	FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	104 - 114	50		FQ	#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	104 - 114	189.5		FQ	#		
pH	s.u.	02/11/2014	N001	104 - 114	6.82		FQ	#		
Potassium	mg/L	02/11/2014	N001	104 - 114	3.6		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	104 - 114	0.0025		FQ	#	0.000065	
Silica	mg/L	02/11/2014	N001	104 - 114	14		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	104 - 114	6.6		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	104 - 114	44		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	104 - 114	1204		FQ	#		
Sulfate	mg/L	02/11/2014	N001	104 - 114	210		FQ	#	5	
Temperature	C	02/11/2014	N001	104 - 114	15.53		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	104 - 114	930		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	104 - 114	1.68		FQ	#		
Uranium	mg/L	02/11/2014	N001	104 - 114	0.01		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0289 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	148.3 - 158.3	230		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	148.3 - 158.3	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	148.3 - 158.3	0.00086		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	148.3 - 158.3	170		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	148.3 - 158.3	23		FQ	#	2	
Iron	mg/L	02/11/2014	N001	148.3 - 158.3	0.022	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	148.3 - 158.3	33		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	148.3 - 158.3	0.0079		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	148.3 - 158.3	0.00033	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	148.3 - 158.3	50		FQ	#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	148.3 - 158.3	188		FQ	#		
pH	s.u.	02/11/2014	N001	148.3 - 158.3	6.93		FQ	#		
Potassium	mg/L	02/11/2014	N001	148.3 - 158.3	3.5		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	148.3 - 158.3	0.0025		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	148.3 - 158.3	13		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	148.3 - 158.3	6.2		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	148.3 - 158.3	36		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	148.3 - 158.3	1245		FQ	#		
Sulfate	mg/L	02/11/2014	N001	148.3 - 158.3	230		FQ	#	5	
Temperature	C	02/11/2014	N001	148.3 - 158.3	15.91		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	148.3 - 158.3	1000		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	148.3 - 158.3	3.96		FQ	#		
Uranium	mg/L	02/11/2014	N001	148.3 - 158.3	0.016		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0290 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	102.7 - 112.7	160		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	102.7 - 112.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	102.7 - 112.7	0.0012		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	102.7 - 112.7	180		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	102.7 - 112.7	44		FQ	#	2	
Iron	mg/L	02/11/2014	N001	102.7 - 112.7	0.0097	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	102.7 - 112.7	31		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	102.7 - 112.7	0.00054	B	UFQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	102.7 - 112.7	0.00024	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	102.7 - 112.7	49		FQ	#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	102.7 - 112.7	202.5		FQ	#		
pH	s.u.	02/11/2014	N001	102.7 - 112.7	7.23		FQ	#		
Potassium	mg/L	02/11/2014	N001	102.7 - 112.7	3.5		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	102.7 - 112.7	0.0058		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	102.7 - 112.7	14		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	102.7 - 112.7	6.5		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	102.7 - 112.7	41		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	102.7 - 112.7	1315		FQ	#		
Sulfate	mg/L	02/11/2014	N001	102.7 - 112.7	290		FQ	#	5	
Temperature	C	02/11/2014	N001	102.7 - 112.7	13.57		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	102.7 - 112.7	980		FQ	#	40	
Uranium	mg/L	02/11/2014	N001	102.7 - 112.7	0.02		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0683 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	95 - 145	120		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	95 - 145	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	95 - 145	0.0022		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	95 - 145	34		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	95 - 145	13		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	95 - 145	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	95 - 145	6		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	95 - 145	0.00024	U	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	95 - 145	0.00047	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	95 - 145	3.3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	95 - 145	172.7		FQ	#		
pH	s.u.	02/11/2014	N001	95 - 145	7.88		FQ	#		
Potassium	mg/L	02/11/2014	N001	95 - 145	1.8		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	95 - 145	0.0019		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	95 - 145	11		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	95 - 145	5.3		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	95 - 145	14		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	95 - 145	288		FQ	#		
Sulfate	mg/L	02/11/2014	N001	95 - 145	19		FQ	#	0.5	
Temperature	C	02/11/2014	N001	95 - 145	15.19		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	95 - 145	180		FQ	#	20	
Uranium	mg/L	02/11/2014	N001	95 - 145	0.0013		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0684 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	124.2 - 175.5	95		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	124.2 - 175.5	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	124.2 - 175.5	0.003		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	124.2 - 175.5	32		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	124.2 - 175.5	12		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	124.2 - 175.5	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	124.2 - 175.5	6.5		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	124.2 - 175.5	0.00024	U	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	124.2 - 175.5	0.00044	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	124.2 - 175.5	3.6		FQ	#	0.02	
Oxidation Reduction Potential	mV	02/11/2014	N001	124.2 - 175.5	191.6		FQ	#		
pH	s.u.	02/11/2014	N001	124.2 - 175.5	7.9		FQ	#		
Potassium	mg/L	02/11/2014	N001	124.2 - 175.5	2.5		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	124.2 - 175.5	0.0014		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	124.2 - 175.5	10		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	124.2 - 175.5	4.9		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	124.2 - 175.5	14		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	124.2 - 175.5	278		FQ	#		
Sulfate	mg/L	02/11/2014	N001	124.2 - 175.5	17		FQ	#	0.5	
Temperature	C	02/11/2014	N001	124.2 - 175.5	14.13		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	124.2 - 175.5	170		FQ	#	20	
Uranium	mg/L	02/11/2014	N001	124.2 - 175.5	0.0014		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0685 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	93.66 - 145.5	125		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	93.66 - 145.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	93.66 - 145.5	0.003		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	93.66 - 145.5	33		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	93.66 - 145.5	12		F	#	0.2	
Iron	mg/L	02/13/2014	N001	93.66 - 145.5	0.0051	B	UF	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	93.66 - 145.5	6.4		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	93.66 - 145.5	0.0027	B	F	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	93.66 - 145.5	0.00044	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	93.66 - 145.5	3.5		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	93.66 - 145.5	150		F	#		
pH	s.u.	02/13/2014	N001	93.66 - 145.5	7.72		F	#		
Potassium	mg/L	02/13/2014	N001	93.66 - 145.5	1.2		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	93.66 - 145.5	0.0011		F	#	0.00016	
Silica	mg/L	02/13/2014	N001	93.66 - 145.5	12		F	#	0.0095	
Silicon	mg/L	02/13/2014	N001	93.66 - 145.5	5.5		F	#	0.0044	
Sodium	mg/L	02/13/2014	N001	93.66 - 145.5	11		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	93.66 - 145.5	274		F	#		
Sulfate	mg/L	02/13/2014	N001	93.66 - 145.5	16		F	#	0.5	
Temperature	C	02/13/2014	N001	93.66 - 145.5	13		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	93.66 - 145.5	160		F	#	20	
Turbidity	NTU	02/13/2014	N001	93.66 - 145.5	0.34		F	#		
Uranium	mg/L	02/13/2014	N001	93.66 - 145.5	0.0013		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0686 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	60 - 100	101		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	60 - 100	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	60 - 100	0.0017		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	60 - 100	71		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	60 - 100	64		F	#	1	
Iron	mg/L	02/13/2014	N001	60 - 100	0.15		F	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	60 - 100	9.9		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	60 - 100	0.0049	B	F	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	60 - 100	0.0021		F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	60 - 100	3.5		F	#	0.02	
Oxidation Reduction Potential	mV	02/13/2014	N001	60 - 100	165		F	#		
pH	s.u.	02/13/2014	N001	60 - 100	7.63		F	#		
Potassium	mg/L	02/13/2014	N001	60 - 100	2.5		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	60 - 100	0.0074		F	#	0.00016	
Silica	mg/L	02/13/2014	N001	60 - 100	11		F	#	0.0095	
Silicon	mg/L	02/13/2014	N001	60 - 100	5.4		F	#	0.0044	
Sodium	mg/L	02/13/2014	N001	60 - 100	43		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	60 - 100	645		F	#		
Sulfate	mg/L	02/13/2014	N001	60 - 100	120		F	#	2.5	
Temperature	C	02/13/2014	N001	60 - 100	16		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	60 - 100	410		F	#	20	
Turbidity	NTU	02/13/2014	N001	60 - 100	9.97		F	#		
Uranium	mg/L	02/13/2014	N001	60 - 100	0.0019		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0687 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	60 - 100	85		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	60 - 100	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	60 - 100	0.0046		F	#	0.000015	
Calcium	mg/L	02/13/2014	N001	60 - 100	33		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	60 - 100	12		F	#	0.2	
Iron	mg/L	02/13/2014	N001	60 - 100	0.029	B	UF	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	60 - 100	4.3		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	60 - 100	0.00056	B	UF	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	60 - 100	0.023		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	60 - 100	3.5		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	60 - 100	155		F	#		
pH	s.u.	02/13/2014	N001	60 - 100	8.1		F	#		
Potassium	mg/L	02/13/2014	N001	60 - 100	1.5		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	60 - 100	0.0022		F	#	0.000032	
Silica	mg/L	02/13/2014	N001	60 - 100	12		F	#	0.0095	
Silicon	mg/L	02/13/2014	N001	60 - 100	5.7		F	#	0.0044	
Sodium	mg/L	02/13/2014	N001	60 - 100	22		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	60 - 100	308		F	#		
Sulfate	mg/L	02/13/2014	N001	60 - 100	50		F	#	0.5	
Temperature	C	02/13/2014	N001	60 - 100	17.8		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	60 - 100	210		F	#	20	
Turbidity	NTU	02/13/2014	N001	60 - 100	0.53		F	#		
Uranium	mg/L	02/13/2014	N001	60 - 100	0.0032		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0688 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/10/2014	N001	60 - 100	77		F	#		
Ammonia Total as N	mg/L	02/10/2014	N001	60 - 100	0.1	U	F	#	0.1	
Arsenic	mg/L	02/10/2014	N001	60 - 100	0.0018		F	#	0.000074	
Calcium	mg/L	02/10/2014	N001	60 - 100	99		F	#	0.024	
Chloride	mg/L	02/10/2014	N001	60 - 100	81		F	#	2	
Iron	mg/L	02/10/2014	N001	60 - 100	0.062	B	F	#	0.0067	
Magnesium	mg/L	02/10/2014	N001	60 - 100	15		F	#	0.03	
Manganese	mg/L	02/10/2014	N001	60 - 100	0.0016	B	UF	#	0.00024	
Molybdenum	mg/L	02/10/2014	N001	60 - 100	0.00092		F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/10/2014	N001	60 - 100	7.1		F	#	0.05	
Oxidation Reduction Potential	mV	02/10/2014	N001	60 - 100	223.7		F	#		
pH	s.u.	02/10/2014	N001	60 - 100	7.64		F	#		
Potassium	mg/L	02/10/2014	N001	60 - 100	2.8		F	#	0.052	
Selenium	mg/L	02/10/2014	N001	60 - 100	0.0095		F	#	0.00016	
Silica	mg/L	02/10/2014	N001	60 - 100	12		F	#	0.021	
Silicon	mg/L	02/10/2014	N001	60 - 100	5.7		F	#	0.0097	
Sodium	mg/L	02/10/2014	N001	60 - 100	33		F	#	0.047	
Specific Conductance	umhos /cm	02/10/2014	N001	60 - 100	779		F	#		
Sulfate	mg/L	02/10/2014	N001	60 - 100	160		F	#	5	
Temperature	C	02/10/2014	N001	60 - 100	16.66		F	#		
Total Dissolved Solids	mg/L	02/10/2014	N001	60 - 100	510		F	#	20	
Turbidity	NTU	02/10/2014	N001	60 - 100	8		F	#		
Uranium	mg/L	02/10/2014	N001	60 - 100	0.0025		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0689 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	55 - 95	91		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	55 - 95	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	55 - 95	0.0019		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	55 - 95	31		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	55 - 95	10		F	#	0.2	
Iron	mg/L	02/11/2014	N001	55 - 95	0.01	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	55 - 95	6.4		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	55 - 95	0.00043	B	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	55 - 95	0.00034	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	55 - 95	3.2		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	55 - 95	94.7		F	#		
pH	s.u.	02/11/2014	N001	55 - 95	7.89		F	#		
Potassium	mg/L	02/11/2014	N001	55 - 95	1.5		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	55 - 95	0.0014		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	55 - 95	11		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	55 - 95	5.1		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	55 - 95	9.5		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	55 - 95	260		F	#		
Sulfate	mg/L	02/11/2014	N001	55 - 95	14		F	#	0.5	
Temperature	C	02/11/2014	N001	55 - 95	15.72		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	55 - 95	170		F	#	20	
Turbidity	NTU	02/11/2014	N001	55 - 95	1.12		F	#		
Uranium	mg/L	02/11/2014	N001	55 - 95	0.0012		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0690 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	55 - 95	101		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	55 - 95	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	55 - 95	0.0017		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	55 - 95	26		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	55 - 95	9.4		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	55 - 95	0.0072	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	55 - 95	7.5		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	55 - 95	0.009		UFQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	55 - 95	0.00037	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	55 - 95	3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	55 - 95	96.1		FQ	#		
pH	s.u.	02/11/2014	N001	55 - 95	7.9		FQ	#		
Potassium	mg/L	02/11/2014	N001	55 - 95	2.7		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	55 - 95	0.0013		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	55 - 95	10		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	55 - 95	4.8		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	55 - 95	10		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	55 - 95	247		FQ	#		
Sulfate	mg/L	02/11/2014	N001	55 - 95	13		FQ	#	0.5	
Temperature	C	02/11/2014	N001	55 - 95	16.71		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	55 - 95	160		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	55 - 95	1.62		FQ	#		
Uranium	mg/L	02/11/2014	N001	55 - 95	0.0017		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0691 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	55 - 95	254		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	55 - 95	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	55 - 95	0.001		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	55 - 95	360		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	55 - 95	60		F	#	4	
Iron	mg/L	02/11/2014	N001	55 - 95	0.0083	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	55 - 95	62		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	55 - 95	0.012		UF	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	55 - 95	0.00016	U	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	55 - 95	86		F	#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	55 - 95	121.2		F	#		
pH	s.u.	02/11/2014	N001	55 - 95	6.96		F	#		
Potassium	mg/L	02/11/2014	N001	55 - 95	4.8		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	55 - 95	0.0049		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	55 - 95	15		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	55 - 95	7.1		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	55 - 95	54		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	55 - 95	2194		F	#		
Sulfate	mg/L	02/11/2014	N001	55 - 95	670		F	#	10	
Temperature	C	02/11/2014	N001	55 - 95	16.7		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	55 - 95	1900		F	#	40	
Turbidity	NTU	02/11/2014	N001	55 - 95	1.55		F	#		
Uranium	mg/L	02/11/2014	N001	55 - 95	0.095		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0692 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	55 - 95	93		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	55 - 95	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	55 - 95	0.0064		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	55 - 95	26		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	55 - 95	13		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	55 - 95	0.14		FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	55 - 95	6.4		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	55 - 95	0.041		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	55 - 95	0.00041	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	55 - 95	3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	55 - 95	94.5		FQ	#		
pH	s.u.	02/11/2014	N001	55 - 95	7.94		FQ	#		
Potassium	mg/L	02/11/2014	N001	55 - 95	4.1		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	55 - 95	0.0016		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	55 - 95	11		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	55 - 95	5.1		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	55 - 95	13		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	55 - 95	262		FQ	#		
Sulfate	mg/L	02/11/2014	N001	55 - 95	16		FQ	#	0.5	
Temperature	C	02/11/2014	N001	55 - 95	16.36		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	55 - 95	180		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	55 - 95	8.54		FQ	#		
Uranium	mg/L	02/11/2014	N001	55 - 95	0.0018		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0695 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	55 - 95	96		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	55 - 95	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	55 - 95	0.0017		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	55 - 95	42		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	55 - 95	14		F	#	0.2	
Iron	mg/L	02/11/2014	N001	55 - 95	0.0067	U	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	55 - 95	7		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	55 - 95	0.00024	U	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	55 - 95	0.00052		F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	55 - 95	4.9		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	55 - 95	98.9		F	#		
pH	s.u.	02/11/2014	N001	55 - 95	7.89		F	#		
Potassium	mg/L	02/11/2014	N001	55 - 95	1.9		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	55 - 95	0.0017		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	55 - 95	11		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	55 - 95	5.1		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	55 - 95	13		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	55 - 95	350		F	#		
Sulfate	mg/L	02/11/2014	N001	55 - 95	40		F	#	0.5	
Temperature	C	02/11/2014	N001	55 - 95	16.26		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	55 - 95	220		F	#	20	
Turbidity	NTU	02/11/2014	N001	55 - 95	0.57		F	#		
Uranium	mg/L	02/11/2014	N001	55 - 95	0.002		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0901 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	58 - 78	96			#		
Ammonia Total as N	mg/L	02/13/2014	N001	58 - 78	0.1	U		#	0.1	
Arsenic	mg/L	02/13/2014	N001	58 - 78	0.0026			#	0.000074	
Calcium	mg/L	02/13/2014	N001	58 - 78	43			#	0.012	
Chloride	mg/L	02/13/2014	N001	58 - 78	19	N		#	0.2	
Iron	mg/L	02/13/2014	N001	58 - 78	0.2			#	0.0049	
Magnesium	mg/L	02/13/2014	N001	58 - 78	7.3			#	0.013	
Manganese	mg/L	02/13/2014	N001	58 - 78	0.01			#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	58 - 78	0.00068			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	58 - 78	3.6			#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	58 - 78	93.1			#		
pH	s.u.	02/13/2014	N001	58 - 78	7.9			#		
Potassium	mg/L	02/13/2014	N001	58 - 78	1.4			#	0.11	
Selenium	mg/L	02/13/2014	N001	58 - 78	0.0026			#	0.00016	
Silica	mg/L	02/13/2014	N001	58 - 78	14			#	0.0095	
Silicon	mg/L	02/13/2014	N001	58 - 78	6.5			#	0.0044	
Sodium	mg/L	02/13/2014	N001	58 - 78	18			#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	58 - 78	357			#		
Sulfate	mg/L	02/13/2014	N001	58 - 78	31			#	0.5	
Temperature	C	02/13/2014	N001	58 - 78	16.35			#		
Total Dissolved Solids	mg/L	02/13/2014	N001	58 - 78	200			#	20	
Turbidity	NTU	02/13/2014	N001	58 - 78	8.09			#		
Uranium	mg/L	02/13/2014	N001	58 - 78	0.0024			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0902 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	63 - 73	139		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	63 - 73	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	63 - 73	0.0097		FQ	#	0.00015	
Calcium	mg/L	02/13/2014	N001	63 - 73	0.55	B	FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	63 - 73	7.5		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	63 - 73	0.31		FQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	63 - 73	0.25	B	FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	63 - 73	0.026		FQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	63 - 73	0.00035	B	FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	63 - 73	1.6		FQ	#	0.01	
Oxidation Reduction Potential	mV	02/13/2014	N001	63 - 73	161.7		FQ	#		
pH	s.u.	02/13/2014	N001	63 - 73	9.81		FQ	#		
Potassium	mg/L	02/13/2014	N001	63 - 73	1.1		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	63 - 73	0.0052		FQ	#	0.00032	
Silica	mg/L	02/13/2014	N001	63 - 73	19		FQ	#	0.0095	
Silicon	mg/L	02/13/2014	N001	63 - 73	9		FQ	#	0.0044	
Sodium	mg/L	02/13/2014	N001	63 - 73	67		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	63 - 73	319		FQ	#		
Sulfate	mg/L	02/13/2014	N001	63 - 73	10		FQ	#	0.5	
Temperature	C	02/13/2014	N001	63 - 73	14.23		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	63 - 73	180		FQ	#	20	
Uranium	mg/L	02/13/2014	N001	63 - 73	0.0012		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0903 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	28 - 48	134		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	28 - 48	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	28 - 48	0.0018		F	#	0.000074	
Calcium	mg/L	02/12/2014	N001	28 - 48	77		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	28 - 48	26		F	#	1	
Iron	mg/L	02/12/2014	N001	28 - 48	0.0076	B	F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	28 - 48	15		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	28 - 48	0.00061	B	UF	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	28 - 48	0.00024	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	28 - 48	16		F	#	0.1	
Oxidation Reduction Potential	mV	02/12/2014	N001	28 - 48	140.9		F	#		
pH	s.u.	02/12/2014	N001	28 - 48	7.72		F	#		
Potassium	mg/L	02/12/2014	N001	28 - 48	2		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	28 - 48	0.0018		F	#	0.00016	
Silica	mg/L	02/12/2014	N001	28 - 48	12		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	28 - 48	5.7		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	28 - 48	14		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	28 - 48	572		F	#		
Sulfate	mg/L	02/12/2014	N001	28 - 48	90		F	#	2.5	
Temperature	C	02/12/2014	N001	28 - 48	16.76		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	28 - 48	360		F	#	20	
Turbidity	NTU	02/12/2014	N001	28 - 48	0.78		F	#		
Uranium	mg/L	02/12/2014	N001	28 - 48	0.0027		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0904 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	28 - 38	164		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	28 - 38	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	28 - 38	0.00072		F	#	0.00003	
Calcium	mg/L	02/11/2014	N001	28 - 38	48		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	28 - 38	140		F	#	2	
Iron	mg/L	02/11/2014	N001	28 - 38	0.022	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	28 - 38	12		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	28 - 38	0.0016	B	UF	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	28 - 38	0.0011		F	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	28 - 38	1.5		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	28 - 38	103.7		F	#		
pH	s.u.	02/11/2014	N001	28 - 38	7.7		F	#		
Potassium	mg/L	02/11/2014	N001	28 - 38	0.86	B	F	#	0.052	
Selenium	mg/L	02/11/2014	N001	28 - 38	0.012		F	#	0.000065	
Silica	mg/L	02/11/2014	N001	28 - 38	18		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	28 - 38	8.3		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	28 - 38	130		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	28 - 38	886		F	#		
Sulfate	mg/L	02/11/2014	N001	28 - 38	67		F	#	5	
Temperature	C	02/11/2014	N001	28 - 38	14.95		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	28 - 38	520		F	#	20	
Turbidity	NTU	02/11/2014	N001	28 - 38	2.47		F	#		
Uranium	mg/L	02/11/2014	N001	28 - 38	0.0044		F	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0906 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	44 - 64	956		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	44 - 64	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	44 - 64	0.0012		FQ	#	0.00015	
Calcium	mg/L	02/13/2014	N001	44 - 64	1100		FQ	#	0.12	
Chloride	mg/L	02/13/2014	N001	44 - 64	150		FQ	#	10	
Iron	mg/L	02/13/2014	N001	44 - 64	0.02	B	UFQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	44 - 64	240		FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	44 - 64	0.084		FQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	44 - 64	0.001		FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	44 - 64	440		FQ	#	5	
Oxidation Reduction Potential	mV	02/13/2014	N001	44 - 64	145		FQ	#		
pH	s.u.	02/13/2014	N001	44 - 64	6.18		FQ	#		
Potassium	mg/L	02/13/2014	N001	44 - 64	12		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	44 - 64	0.046		FQ	#	0.00032	
Silica	mg/L	02/13/2014	N001	44 - 64	15		FQ	#	0.0095	
Silicon	mg/L	02/13/2014	N001	44 - 64	6.9		FQ	#	0.0044	
Sodium	mg/L	02/13/2014	N001	44 - 64	270		FQ	#	0.066	
Specific Conductance	umhos /cm	02/13/2014	N001	44 - 64	5940		FQ	#		
Sulfate	mg/L	02/13/2014	N001	44 - 64	1800		FQ	#	25	
Temperature	C	02/13/2014	N001	44 - 64	17		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	44 - 64	5600		FQ	#	200	
Turbidity	NTU	02/13/2014	N001	44 - 64	2.09		FQ	#		
Uranium	mg/L	02/13/2014	N001	44 - 64	0.64		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0908 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	52 - 67	544		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	52 - 67	59		FQ	#	2	
Arsenic	mg/L	02/11/2014	N001	52 - 67	0.00083		FQ	#	0.00003	
Calcium	mg/L	02/11/2014	N001	52 - 67	600		FQ	#	0.049	
Chloride	mg/L	02/11/2014	N001	52 - 67	72		FQ	#	10	
Iron	mg/L	02/11/2014	N001	52 - 67	0.036	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	52 - 67	410		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	52 - 67	0.17		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	52 - 67	0.00017	B	FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	52 - 67	230		FQ	#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	52 - 67	217.1		FQ	#		
pH	s.u.	02/11/2014	N001	52 - 67	6.41		FQ	#		
Potassium	mg/L	02/11/2014	N001	52 - 67	25		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	52 - 67	0.018		FQ	#	0.000065	
Silica	mg/L	02/11/2014	N001	52 - 67	19		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	52 - 67	8.9		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	52 - 67	310		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	52 - 67	5971		FQ	#		
Sulfate	mg/L	02/11/2014	N001	52 - 67	2700		FQ	#	25	
Temperature	C	02/11/2014	N001	52 - 67	16.44		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	52 - 67	5900		FQ	#	80	
Turbidity	NTU	02/11/2014	N001	52 - 67	5.91		FQ	#		
Uranium	mg/L	02/11/2014	N001	52 - 67	0.077		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0910 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/10/2014	N001	97 - 197	134		F	#		
Ammonia Total as N	mg/L	02/10/2014	N001	97 - 197	0.1	U	F	#	0.1	
Arsenic	mg/L	02/10/2014	N001	97 - 197	0.002		F	#	0.000074	
Calcium	mg/L	02/10/2014	N001	97 - 197	31		F	#	0.024	
Chloride	mg/L	02/10/2014	N001	97 - 197	11		F	#	0.2	
Iron	mg/L	02/10/2014	N001	97 - 197	0.013	B	F	#	0.0067	
Magnesium	mg/L	02/10/2014	N001	97 - 197	5.2		F	#	0.03	
Manganese	mg/L	02/10/2014	N001	97 - 197	0.00033	B	F	#	0.00024	
Molybdenum	mg/L	02/10/2014	N001	97 - 197	0.00048	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/10/2014	N001	97 - 197	3.1		F	#	0.05	
Oxidation Reduction Potential	mV	02/10/2014	N001	97 - 197	154.2		F	#		
pH	s.u.	02/10/2014	N001	97 - 197	8.22		F	#		
Potassium	mg/L	02/10/2014	N001	97 - 197	1.4		F	#	0.052	
Selenium	mg/L	02/10/2014	N001	97 - 197	0.0013		F	#	0.00016	
Silica	mg/L	02/10/2014	N001	97 - 197	9.8		F	#	0.021	
Silicon	mg/L	02/10/2014	N001	97 - 197	4.6		F	#	0.0097	
Sodium	mg/L	02/10/2014	N001	97 - 197	15		F	#	0.047	
Specific Conductance	umhos /cm	02/10/2014	N001	97 - 197	256		F	#		
Sulfate	mg/L	02/10/2014	N001	97 - 197	14		F	#	0.5	
Temperature	C	02/10/2014	N001	97 - 197	15.84		F	#		
Total Dissolved Solids	mg/L	02/10/2014	N001	97 - 197	150		F	#	20	
Turbidity	NTU	02/10/2014	N001	97 - 197	0.85		F	#		
Uranium	mg/L	02/10/2014	N001	97 - 197	0.001		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0911 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	309.4 - 349.4	80		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	309.4 - 349.4	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	309.4 - 349.4	0.0017		FQ	#	0.000074	
Calcium	mg/L	02/13/2014	N001	309.4 - 349.4	27		FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	309.4 - 349.4	7.1		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	309.4 - 349.4	0.0049	U	FQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	309.4 - 349.4	5.4		FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	309.4 - 349.4	0.0015	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	309.4 - 349.4	0.00023	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	309.4 - 349.4	3.3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	309.4 - 349.4	83.1		FQ	#		
pH	s.u.	02/13/2014	N001	309.4 - 349.4	8.07		FQ	#		
Potassium	mg/L	02/13/2014	N001	309.4 - 349.4	1.4		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	309.4 - 349.4	0.00092		FQ	#	0.00016	
Silica	mg/L	02/13/2014	N001	309.4 - 349.4	12		FQ	#	0.0095	
Silicon	mg/L	02/13/2014	N001	309.4 - 349.4	5.8		FQ	#	0.0044	
Sodium	mg/L	02/13/2014	N001	309.4 - 349.4	7		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	309.4 - 349.4	225		FQ	#		
Sulfate	mg/L	02/13/2014	N001	309.4 - 349.4	9.6		FQ	#	0.5	
Temperature	C	02/13/2014	N001	309.4 - 349.4	15.85		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	309.4 - 349.4	120		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	309.4 - 349.4	0.71		FQ	#		
Uranium	mg/L	02/13/2014	N001	309.4 - 349.4	0.0013		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0912 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	123 - 163	292		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	123 - 163	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	123 - 163	0.00098		F	#	0.000074	
Calcium	mg/L	02/12/2014	N001	123 - 163	290		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	123 - 163	29		F	#	4	
Iron	mg/L	02/12/2014	N001	123 - 163	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	123 - 163	61		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	123 - 163	0.003	B	F	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	123 - 163	0.00016	U	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	123 - 163	66		F	#	0.5	
Oxidation Reduction Potential	mV	02/12/2014	N001	123 - 163	180.8		F	#		
pH	s.u.	02/12/2014	N001	123 - 163	6.72		F	#		
Potassium	mg/L	02/12/2014	N001	123 - 163	5.5		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	123 - 163	0.0061		F	#	0.00016	
Silica	mg/L	02/12/2014	N001	123 - 163	13		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	123 - 163	6		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	123 - 163	68		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	123 - 163	1814		F	#		
Sulfate	mg/L	02/12/2014	N001	123 - 163	500		F	#	10	
Temperature	C	02/12/2014	N001	123 - 163	15.88		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	123 - 163	1400		F	#	40	
Turbidity	NTU	02/12/2014	N001	123 - 163	0.04		F	#		
Uranium	mg/L	02/12/2014	N001	123 - 163	0.022		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0913 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	328.7 - 368.7	60		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	328.7 - 368.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	328.7 - 368.7	0.0025		FQ	#	0.00003	
Calcium	mg/L	02/12/2014	N001	328.7 - 368.7	25		FQ	#	0.012	
Chloride	mg/L	02/12/2014	N001	328.7 - 368.7	5.9		FQ	#	0.2	
Iron	mg/L	02/12/2014	N001	328.7 - 368.7	0.0049	U	FQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	328.7 - 368.7	5		FQ	#	0.013	
Manganese	mg/L	02/12/2014	N001	328.7 - 368.7	0.00088	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	328.7 - 368.7	0.00011	B	FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	328.7 - 368.7	3.1		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	328.7 - 368.7	154.4		FQ	#		
pH	s.u.	02/12/2014	N001	328.7 - 368.7	8		FQ	#		
Potassium	mg/L	02/12/2014	N001	328.7 - 368.7	1.5		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	328.7 - 368.7	0.0008		FQ	#	0.000065	
Silica	mg/L	02/12/2014	N001	328.7 - 368.7	10		FQ	#	0.0095	
Silicon	mg/L	02/12/2014	N001	328.7 - 368.7	4.7		FQ	#	0.0044	
Sodium	mg/L	02/12/2014	N001	328.7 - 368.7	6.7		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	328.7 - 368.7	206		FQ	#		
Sulfate	mg/L	02/12/2014	N001	328.7 - 368.7	8.3		FQ	#	0.5	
Temperature	C	02/12/2014	N001	328.7 - 368.7	15.89		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	328.7 - 368.7	130		FQ	#	20	
Turbidity	NTU	02/12/2014	N001	328.7 - 368.7	0.3		FQ	#		
Uranium	mg/L	02/12/2014	N001	328.7 - 368.7	0.0014		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0914 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	137.2 - 154.2	43		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	137.2 - 154.2	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	137.2 - 154.2	0.00075		FQ	#	0.000015	
Calcium	mg/L	02/11/2014	N001	137.2 - 154.2	7		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	137.2 - 154.2	12		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	137.2 - 154.2	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	137.2 - 154.2	0.72	B	FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	137.2 - 154.2	0.0022	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	137.2 - 154.2	0.00085		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	137.2 - 154.2	2.6		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	137.2 - 154.2	86.3		FQ	#		
pH	s.u.	02/11/2014	N001	137.2 - 154.2	9.46		FQ	#		
Potassium	mg/L	02/11/2014	N001	137.2 - 154.2	5.8		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	137.2 - 154.2	0.0012		FQ	#	0.000032	
Silica	mg/L	02/11/2014	N001	137.2 - 154.2	29		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	137.2 - 154.2	14		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	137.2 - 154.2	21		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	137.2 - 154.2	174		FQ	#		
Sulfate	mg/L	02/11/2014	N001	137.2 - 154.2	13		FQ	#	0.5	
Temperature	C	02/11/2014	N001	137.2 - 154.2	15.17		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	137.2 - 154.2	120		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	137.2 - 154.2	1.1		FQ	#		
Uranium	mg/L	02/11/2014	N001	137.2 - 154.2	0.000065		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0915 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	170 - 180	49		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	170 - 180	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	170 - 180	0.000039	B	FQ	#	0.000015	
Calcium	mg/L	02/11/2014	N001	170 - 180	16		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	170 - 180	13		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	170 - 180	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	170 - 180	0.53	B	FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	170 - 180	0.00086	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	170 - 180	0.0006		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	170 - 180	3.1		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	170 - 180	121.2		FQ	#		
pH	s.u.	02/11/2014	N001	170 - 180	10.74		FQ	#		
Potassium	mg/L	02/11/2014	N001	170 - 180	2.8		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	170 - 180	0.0018		FQ	#	0.000032	
Silica	mg/L	02/11/2014	N001	170 - 180	6.6		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	170 - 180	3.1		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	170 - 180	16		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	170 - 180	230		FQ	#		
Sulfate	mg/L	02/11/2014	N001	170 - 180	18		FQ	#	0.5	
Temperature	C	02/11/2014	N001	170 - 180	14.25		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	170 - 180	100		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	170 - 180	1.46		FQ	#		
Uranium	mg/L	02/11/2014	N001	170 - 180	0.000006	B	FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0916 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	345.7 - 355.7	255		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	345.7 - 355.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	345.7 - 355.7	0.00025		FQ	#	0.000015	
Calcium	mg/L	02/11/2014	N001	345.7 - 355.7	86		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	345.7 - 355.7	7.2		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	345.7 - 355.7	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	345.7 - 355.7	0.041	B	FQJ	#	0.03	
Manganese	mg/L	02/11/2014	N001	345.7 - 355.7	0.00037	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	345.7 - 355.7	0.0011		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	345.7 - 355.7	1.8		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	345.7 - 355.7	52.4		FQ	#		
pH	s.u.	02/11/2014	N001	345.7 - 355.7	11.79		FQ	#		
Potassium	mg/L	02/11/2014	N001	345.7 - 355.7	6.9		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	345.7 - 355.7	0.00076		FQ	#	0.000032	
Silica	mg/L	02/11/2014	N001	345.7 - 355.7	15		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	345.7 - 355.7	7.1		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	345.7 - 355.7	20		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	345.7 - 355.7	1198		FQ	#		
Sulfate	mg/L	02/11/2014	N001	345.7 - 355.7	8.6		FQ	#	0.5	
Temperature	C	02/11/2014	N001	345.7 - 355.7	15.46		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	345.7 - 355.7	310		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	345.7 - 355.7	1.32		FQ	#		
Uranium	mg/L	02/11/2014	N001	345.7 - 355.7	0.000017		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0917 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	128 - 148	91		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	128 - 148	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	128 - 148	0.0019		FQ	#	0.000015	
Calcium	mg/L	02/13/2014	N001	128 - 148	34		FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	128 - 148	10		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	128 - 148	0.0049	U	FQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	128 - 148	6.6		FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	128 - 148	0.00061	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	128 - 148	0.00027		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	128 - 148	4		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	128 - 148	93.9		FQ	#		
pH	s.u.	02/13/2014	N001	128 - 148	8.47		FQ	#		
Potassium	mg/L	02/13/2014	N001	128 - 148	1.3		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	128 - 148	0.0013		FQ	#	0.000032	
Silica	mg/L	02/13/2014	N001	128 - 148	12		FQ	#	0.0095	
Silicon	mg/L	02/13/2014	N001	128 - 148	5.6		FQ	#	0.0044	
Sodium	mg/L	02/13/2014	N001	128 - 148	6.6		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	128 - 148	259		FQ	#		
Sulfate	mg/L	02/13/2014	N001	128 - 148	14		FQ	#	0.5	
Temperature	C	02/13/2014	N001	128 - 148	17.24		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	128 - 148	160		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	128 - 148	1.15		FQ	#		
Uranium	mg/L	02/13/2014	N001	128 - 148	0.00094		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0919 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	337.7 - 347.7	1148		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	337.7 - 347.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	337.7 - 347.7	0.00027		FQ	#	0.000015	
Calcium	mg/L	02/13/2014	N001	337.7 - 347.7	520		FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	337.7 - 347.7	3.1		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	337.7 - 347.7	0.0079	B	UFQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	337.7 - 347.7	0.19	B	FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	337.7 - 347.7	0.00048	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	337.7 - 347.7	0.00082		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	337.7 - 347.7	0.98		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	337.7 - 347.7	13.8		FQ	#		
pH	s.u.	02/13/2014	N001	337.7 - 347.7	12.32		FQ	#		
Potassium	mg/L	02/13/2014	N001	337.7 - 347.7	14		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	337.7 - 347.7	0.00016		FQ	#	0.000032	
Silica	mg/L	02/13/2014	N001	337.7 - 347.7	2		FQ	#	0.0095	
Silicon	mg/L	02/13/2014	N001	337.7 - 347.7	0.96		FQ	#	0.0044	
Sodium	mg/L	02/13/2014	N001	337.7 - 347.7	16		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	337.7 - 347.7	5058		FQ	#		
Sulfate	mg/L	02/13/2014	N001	337.7 - 347.7	3.5		FQ	#	0.5	
Temperature	C	02/13/2014	N001	337.7 - 347.7	17.64		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	337.7 - 347.7	1500		FQ	#	80	
Turbidity	NTU	02/13/2014	N001	337.7 - 347.7	4.75		FQ	#		
Uranium	mg/L	02/13/2014	N001	337.7 - 347.7	0.000063		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0920 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	114.4 - 154.4	119		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	114.4 - 154.4	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	114.4 - 154.4	0.0024		F	#	0.000074	
Calcium	mg/L	02/12/2014	N001	114.4 - 154.4	33		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	114.4 - 154.4	9.4		F	#	0.2	
Iron	mg/L	02/12/2014	N001	114.4 - 154.4	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	114.4 - 154.4	7.2		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	114.4 - 154.4	0.00041	B	UF	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	114.4 - 154.4	0.00026	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	114.4 - 154.4	3.7		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	114.4 - 154.4	119.6		F	#		
pH	s.u.	02/12/2014	N001	114.4 - 154.4	7.97		F	#		
Potassium	mg/L	02/12/2014	N001	114.4 - 154.4	1.4		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	114.4 - 154.4	0.0012		F	#	0.00016	
Silica	mg/L	02/12/2014	N001	114.4 - 154.4	11		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	114.4 - 154.4	5.3		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	114.4 - 154.4	7		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	114.4 - 154.4	259		F	#		
Sulfate	mg/L	02/12/2014	N001	114.4 - 154.4	13		F	#	0.5	
Temperature	C	02/12/2014	N001	114.4 - 154.4	17.76		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	114.4 - 154.4	160		F	#	20	
Turbidity	NTU	02/12/2014	N001	114.4 - 154.4	0.91		F	#		
Uranium	mg/L	02/12/2014	N001	114.4 - 154.4	0.0014		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0921 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	313.2 - 353.2	78		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	313.2 - 353.2	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	313.2 - 353.2	0.00029		F	#	0.000015	
Calcium	mg/L	02/12/2014	N001	313.2 - 353.2	24		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	313.2 - 353.2	6.4		F	#	0.2	
Iron	mg/L	02/12/2014	N001	313.2 - 353.2	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	313.2 - 353.2	3.5		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	313.2 - 353.2	0.00011	U	F	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	313.2 - 353.2	0.0002		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	313.2 - 353.2	2.8		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	313.2 - 353.2	146.9		F	#		
pH	s.u.	02/12/2014	N001	313.2 - 353.2	8.21		F	#		
Potassium	mg/L	02/12/2014	N001	313.2 - 353.2	5		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	313.2 - 353.2	0.00096		F	#	0.000032	
Silica	mg/L	02/12/2014	N001	313.2 - 353.2	9.5		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	313.2 - 353.2	4.4		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	313.2 - 353.2	8.7		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	313.2 - 353.2	204		F	#		
Sulfate	mg/L	02/12/2014	N001	313.2 - 353.2	8.5		F	#	0.5	
Temperature	C	02/12/2014	N001	313.2 - 353.2	15.87		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	313.2 - 353.2	100		F	#	20	
Turbidity	NTU	02/12/2014	N001	313.2 - 353.2	0.42		F	#		
Uranium	mg/L	02/12/2014	N001	313.2 - 353.2	0.0046		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0929 WELL No Log Information.

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	48.2 - 88.2	70		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	48.2 - 88.2	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	48.2 - 88.2	0.0016		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	48.2 - 88.2	47		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	48.2 - 88.2	16		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	48.2 - 88.2	0.019	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	48.2 - 88.2	7.9		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	48.2 - 88.2	0.0027	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	48.2 - 88.2	0.00028	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	48.2 - 88.2	14		FQ	#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	48.2 - 88.2	160.6		FQ	#		
pH	s.u.	02/11/2014	N001	48.2 - 88.2	7.45		FQ	#		
Potassium	mg/L	02/11/2014	N001	48.2 - 88.2	2		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	48.2 - 88.2	0.0024		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	48.2 - 88.2	11		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	48.2 - 88.2	5.1		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	48.2 - 88.2	13		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	48.2 - 88.2	463		FQ	#		
Sulfate	mg/L	02/11/2014	N001	48.2 - 88.2	25		FQ	#	0.5	
Temperature	C	02/11/2014	N001	48.2 - 88.2	16.19		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	48.2 - 88.2	400		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	48.2 - 88.2	3.35		FQ	#		
Uranium	mg/L	02/11/2014	N001	48.2 - 88.2	0.0015		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0930 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	20 - 50	118		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	20 - 50	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	20 - 50	0.0013		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	20 - 50	120		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	20 - 50	43		F	#	2	
Iron	mg/L	02/11/2014	N001	20 - 50	0.0067	U	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	20 - 50	26		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	20 - 50	0.00024	U	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	20 - 50	0.00016	U	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	20 - 50	31		F	#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	20 - 50	101.1		F	#		
pH	s.u.	02/11/2014	N001	20 - 50	7.57		F	#		
Potassium	mg/L	02/11/2014	N001	20 - 50	3.1		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	20 - 50	0.0031		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	20 - 50	12		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	20 - 50	5.5		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	20 - 50	18		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	20 - 50	927		F	#		
Sulfate	mg/L	02/11/2014	N001	20 - 50	180		F	#	5	
Temperature	C	02/11/2014	N001	20 - 50	16.24		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	20 - 50	610		F	#	20	
Turbidity	NTU	02/11/2014	N001	20 - 50	0.31		F	#		
Uranium	mg/L	02/11/2014	N001	20 - 50	0.0068		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0932 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	112.5 - 132.5	93		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	112.5 - 132.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	112.5 - 132.5	0.0013		F	#	0.000074	
Calcium	mg/L	02/12/2014	N001	112.5 - 132.5	44		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	112.5 - 132.5	12		F	#	0.2	
Iron	mg/L	02/12/2014	N001	112.5 - 132.5	0.0059	B	UF	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	112.5 - 132.5	8.9		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	112.5 - 132.5	0.00027	B	UF	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	112.5 - 132.5	0.00032	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	112.5 - 132.5	7.2		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	112.5 - 132.5	101.3		F	#		
pH	s.u.	02/12/2014	N001	112.5 - 132.5	7.69		F	#		
Potassium	mg/L	02/12/2014	N001	112.5 - 132.5	1.5		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	112.5 - 132.5	0.0016		F	#	0.00016	
Silica	mg/L	02/12/2014	N001	112.5 - 132.5	12		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	112.5 - 132.5	5.6		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	112.5 - 132.5	11		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	112.5 - 132.5	347		F	#		
Sulfate	mg/L	02/12/2014	N001	112.5 - 132.5	32		F	#	0.5	
Temperature	C	02/12/2014	N001	112.5 - 132.5	16.38		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	112.5 - 132.5	200		F	#	20	
Turbidity	NTU	02/12/2014	N001	112.5 - 132.5	0.63		F	#		
Uranium	mg/L	02/12/2014	N001	112.5 - 132.5	0.0019		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0934 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	45	-	90	570		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	45	-	90	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	45	-	90	0.00077		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	45	-	90	690		FQ	#	0.049	
Chloride	mg/L	02/11/2014	N001	45	-	90	230		FQ	#	10	
Iron	mg/L	02/11/2014	N001	45	-	90	0.015	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	45	-	90	660		FQ	#	0.06	
Manganese	mg/L	02/11/2014	N001	45	-	90	0.0043	B	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	45	-	90	0.00024	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	45	-	90	410		FQ	#	5	
Oxidation Reduction Potential	mV	02/11/2014	N001	45	-	90	191.9		FQ	#		
pH	s.u.	02/11/2014	N001	45	-	90	6.55		FQ	#		
Potassium	mg/L	02/11/2014	N001	45	-	90	7.9		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	45	-	90	0.01		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	45	-	90	16		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	45	-	90	7.7		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	45	-	90	110		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	45	-	90	6471		FQ	#		
Sulfate	mg/L	02/11/2014	N001	45	-	90	2600		FQ	#	25	
Temperature	C	02/11/2014	N001	45	-	90	16.15		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	45	-	90	6900		FQ	#	200	
Turbidity	NTU	02/11/2014	N001	45	-	90	127		FQ	#		
Uranium	mg/L	02/11/2014	N001	45	-	90	0.12		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0935 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	50 - 90	464		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	50 - 90	52		F	#	2.5	
Arsenic	mg/L	02/11/2014	N001	50 - 90	0.00088		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	50 - 90	610		F	#	0.12	
Chloride	mg/L	02/11/2014	N001	50 - 90	90		F	#	10	
Iron	mg/L	02/11/2014	N001	50 - 90	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/11/2014	N001	50 - 90	310		F	#	0.013	
Manganese	mg/L	02/11/2014	N001	50 - 90	0.36		F	#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	50 - 90	0.00016	U	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	50 - 90	190		F	#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	50 - 90	135		F	#		
pH	s.u.	02/11/2014	N001	50 - 90	6.33		F	#		
Potassium	mg/L	02/11/2014	N001	50 - 90	25		F	#	0.11	
Selenium	mg/L	02/11/2014	N001	50 - 90	0.017		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	50 - 90	18		F	#	0.0095	
Silicon	mg/L	02/11/2014	N001	50 - 90	8.4		F	#	0.0044	
Sodium	mg/L	02/11/2014	N001	50 - 90	290		F	#	0.066	
Specific Conductance	umhos /cm	02/11/2014	N001	50 - 90	5280		F	#		
Sulfate	mg/L	02/11/2014	N001	50 - 90	2300		F	#	25	
Temperature	C	02/11/2014	N001	50 - 90	16.9		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	50 - 90	5000		F	#	80	
Turbidity	NTU	02/11/2014	N001	50 - 90	0.43		F	#		
Uranium	mg/L	02/11/2014	N001	50 - 90	0.11		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0936 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	42 - 82	604		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	42 - 82	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	42 - 82	0.0015		F	#	0.00015	
Calcium	mg/L	02/12/2014	N001	42 - 82	850		F	#	0.12	
Chloride	mg/L	02/12/2014	N001	42 - 82	100		F	#	10	
Iron	mg/L	02/12/2014	N001	42 - 82	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	42 - 82	320		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	42 - 82	0.55		F	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	42 - 82	0.44		F	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	42 - 82	270		F	#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	42 - 82	140		F	#		
pH	s.u.	02/12/2014	N001	42 - 82	6.73		F	#		
Potassium	mg/L	02/12/2014	N001	42 - 82	11		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	42 - 82	0.047		F	#	0.00032	
Silica	mg/L	02/12/2014	N001	42 - 82	17		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	42 - 82	7.9		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	42 - 82	180		F	#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	42 - 82	5215		F	#		
Sulfate	mg/L	02/12/2014	N001	42 - 82	2000		F	#	25	
Temperature	C	02/12/2014	N001	42 - 82	21.3		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	42 - 82	4800		F	#	80	
Turbidity	NTU	02/12/2014	N001	42 - 82	3.87		F	#		
Uranium	mg/L	02/12/2014	N001	42 - 82	0.56		F	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0938 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	40 - 95	680		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	40 - 95	3.9		F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	40 - 95	0.0012		F	#	0.00015	
Calcium	mg/L	02/12/2014	N001	40 - 95	840		F	#	0.12	
Chloride	mg/L	02/12/2014	N001	40 - 95	170		F	#	10	
Iron	mg/L	02/12/2014	N001	40 - 95	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	40 - 95	470		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	40 - 95	0.58		F	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	40 - 95	0.0038		F	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	40 - 95	150		F	#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	40 - 95	175		F	#		
pH	s.u.	02/12/2014	N001	40 - 95	6.44		F	#		
Potassium	mg/L	02/12/2014	N001	40 - 95	18		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	40 - 95	0.075		F	#	0.00032	
Silica	mg/L	02/12/2014	N001	40 - 95	15		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	40 - 95	6.9		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	40 - 95	380		F	#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	40 - 95	6728		F	#		
Sulfate	mg/L	02/12/2014	N001	40 - 95	2700		F	#	25	
Temperature	C	02/12/2014	N001	40 - 95	13.7		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	40 - 95	6500		F	#	200	
Turbidity	NTU	02/12/2014	N001	40 - 95	0.62		F	#		
Uranium	mg/L	02/12/2014	N001	40 - 95	0.31		F	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0940 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	45	-	60	660		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	45	-	60	37		FQ	#	2	
Arsenic	mg/L	02/13/2014	N001	45	-	60	0.0019		FQ	#	0.00015	
Calcium	mg/L	02/13/2014	N001	45	-	60	530		FQ	#	0.12	
Chloride	mg/L	02/13/2014	N001	45	-	60	140		FQ	#	20	
Iron	mg/L	02/13/2014	N001	45	-	60	0.0049	U	FQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	45	-	60	1200		FQ	#	0.13	
Manganese	mg/L	02/13/2014	N001	45	-	60	22		FQ	#	0.0011	
Molybdenum	mg/L	02/13/2014	N001	45	-	60	0.00072	B	FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	45	-	60	440		FQ	#	5	
Oxidation Reduction Potential	mV	02/13/2014	N001	45	-	60	180		FQ	#		
pH	s.u.	02/13/2014	N001	45	-	60	6.53		FQ	#		
Potassium	mg/L	02/13/2014	N001	45	-	60	33		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	45	-	60	0.053		FQ	#	0.00032	
Silica	mg/L	02/13/2014	N001	45	-	60	15		FQ	#	0.0095	
Silicon	mg/L	02/13/2014	N001	45	-	60	7.2		FQ	#	0.0044	
Sodium	mg/L	02/13/2014	N001	45	-	60	380		FQ	#	0.066	
Specific Conductance	umhos /cm	02/13/2014	N001	45	-	60	9000		FQ	#		
Sulfate	mg/L	02/13/2014	N001	45	-	60	5500		FQ	#	50	
Temperature	C	02/13/2014	N001	45	-	60	17.2		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	45	-	60	11000		FQ	#	200	
Turbidity	NTU	02/13/2014	N001	45	-	60	2.77		FQ	#		
Uranium	mg/L	02/13/2014	N001	45	-	60	0.63		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0941 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	45 - 65	787		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	45 - 65	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	45 - 65	0.0015		FQ	#	0.00015	
Calcium	mg/L	02/11/2014	N001	45 - 65	1000		FQ	#	0.049	
Chloride	mg/L	02/11/2014	N001	45 - 65	190		FQ	#	10	
Iron	mg/L	02/11/2014	N001	45 - 65	0.025	B	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	45 - 65	170		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	45 - 65	0.033		FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	45 - 65	0.021		FQ	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	45 - 65	310		FQ	#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	45 - 65	184.8		FQ	#		
pH	s.u.	02/11/2014	N001	45 - 65	6.48		FQ	#		
Potassium	mg/L	02/11/2014	N001	45 - 65	7.2		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	45 - 65	0.088		FQ	#	0.00032	
Silica	mg/L	02/11/2014	N001	45 - 65	17		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	45 - 65	8.1		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	45 - 65	260		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	45 - 65	5707		FQ	#		
Sulfate	mg/L	02/11/2014	N001	45 - 65	1700		FQ	#	25	
Temperature	C	02/11/2014	N001	45 - 65	14.4		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	45 - 65	5300		FQ	#	80	
Turbidity	NTU	02/11/2014	N001	45 - 65	4.02		FQ	#		
Uranium	mg/L	02/11/2014	N001	45 - 65	0.25		FQ	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0942 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	0001	54 - 74	600		F	#		
Ammonia Total as N	mg/L	02/12/2014	0001	54 - 74	76		F	#	2	
Arsenic	mg/L	02/12/2014	0001	54 - 74	0.0034		F	#	0.00015	
Calcium	mg/L	02/12/2014	0001	54 - 74	610		F	#	0.12	
Chloride	mg/L	02/12/2014	0001	54 - 74	180		F	#	10	
Iron	mg/L	02/12/2014	0001	54 - 74	0.017	B	UF	#	0.0049	
Magnesium	mg/L	02/12/2014	0001	54 - 74	460		F	#	0.013	
Manganese	mg/L	02/12/2014	0001	54 - 74	4.5		F	#	0.00011	
Molybdenum	mg/L	02/12/2014	0001	54 - 74	0.0051		F	#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	0001	54 - 74	210		F	#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	54 - 74	90		F	#		
pH	s.u.	02/12/2014	N001	54 - 74	6.37		F	#		
Potassium	mg/L	02/12/2014	0001	54 - 74	37		F	#	0.11	
Selenium	mg/L	02/12/2014	0001	54 - 74	0.052		F	#	0.00032	
Silica	mg/L	02/12/2014	0001	54 - 74	17		F	#	0.0095	
Silicon	mg/L	02/12/2014	0001	54 - 74	7.9		F	#	0.0044	
Sodium	mg/L	02/12/2014	0001	54 - 74	520		F	#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	54 - 74	6635		F	#		
Sulfate	mg/L	02/12/2014	0001	54 - 74	3300		F	#	25	
Temperature	C	02/12/2014	N001	54 - 74	15.9		F	#		
Total Dissolved Solids	mg/L	02/12/2014	0001	54 - 74	6100		F	#	200	
Turbidity	NTU	02/12/2014	N001	54 - 74	121		F	#		
Uranium	mg/L	02/12/2014	0001	54 - 74	0.56		F	#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0943 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	101 - 121	40		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	101 - 121	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	101 - 121	0.0042		F	#	0.000015	
Calcium	mg/L	02/11/2014	N001	101 - 121	12		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	101 - 121	3.2		F	#	0.2	
Iron	mg/L	02/11/2014	N001	101 - 121	0.0067	U	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	101 - 121	2.6		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	101 - 121	0.041		F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	101 - 121	0.00043		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	101 - 121	2.4		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	101 - 121	175.3		F	#		
pH	s.u.	02/11/2014	N001	101 - 121	6.93		F	#		
Potassium	mg/L	02/11/2014	N001	101 - 121	1.4		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	101 - 121	0.00053		F	#	0.000032	
Silica	mg/L	02/11/2014	N001	101 - 121	12		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	101 - 121	5.7		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	101 - 121	21		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	101 - 121	191		F	#		
Sulfate	mg/L	02/11/2014	N001	101 - 121	30		F	#	0.5	
Temperature	C	02/11/2014	N001	101 - 121	17.56		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	101 - 121	340		F	#	20	
Turbidity	NTU	02/11/2014	N001	101 - 121	0.88		F	#		
Uranium	mg/L	02/11/2014	N001	101 - 121	0.013		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0945 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	110 - 130	93		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	110 - 130	0.12		FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	110 - 130	0.0019		FQ	#	0.000074	
Calcium	mg/L	02/13/2014	N001	110 - 130	50		FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	110 - 130	39		FQ	#	1	
Iron	mg/L	02/13/2014	N001	110 - 130	0.0049	U	FQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	110 - 130	10		FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	110 - 130	0.00014	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	110 - 130	0.00058		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	110 - 130	4.4		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	110 - 130	212.3		FQ	#		
pH	s.u.	02/13/2014	N001	110 - 130	7.73		FQ	#		
Potassium	mg/L	02/13/2014	N001	110 - 130	1.6		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	110 - 130	0.0043		FQ	#	0.00016	
Silica	mg/L	02/13/2014	N001	110 - 130	12		FQ	#	0.0095	
Silicon	mg/L	02/13/2014	N001	110 - 130	5.5		FQ	#	0.0044	
Sodium	mg/L	02/13/2014	N001	110 - 130	14		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	110 - 130	416		FQ	#		
Sulfate	mg/L	02/13/2014	N001	110 - 130	49		FQ	#	0.5	
Temperature	C	02/13/2014	N001	110 - 130	16.68		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	110 - 130	230		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	110 - 130	2.84		FQ	#		
Uranium	mg/L	02/13/2014	N001	110 - 130	0.0015		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0946 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	40 - 60	54		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	40 - 60	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	40 - 60	0.0082		F	#	0.000015	
Calcium	mg/L	02/11/2014	N001	40 - 60	17		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	40 - 60	8.6		F	#	0.2	
Iron	mg/L	02/11/2014	N001	40 - 60	0.0067	U	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	40 - 60	3.2		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	40 - 60	0.00024	U	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	40 - 60	0.00028		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	40 - 60	3.4		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	40 - 60	154.8		F	#		
pH	s.u.	02/11/2014	N001	40 - 60	8.03		F	#		
Potassium	mg/L	02/11/2014	N001	40 - 60	1.1		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	40 - 60	0.00031		F	#	0.000032	
Silica	mg/L	02/11/2014	N001	40 - 60	9.9		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	40 - 60	4.6		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	40 - 60	23		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	40 - 60	260		F	#		
Sulfate	mg/L	02/11/2014	N001	40 - 60	23		F	#	0.5	
Temperature	C	02/11/2014	N001	40 - 60	16.64		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	40 - 60	150		F	#	20	
Turbidity	NTU	02/11/2014	N001	40 - 60	0.53		F	#		
Uranium	mg/L	02/11/2014	N001	40 - 60	0.00024		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0947 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	105 - 125	99		FQ	#		
Ammonia Total as N	mg/L	02/11/2014	N001	105 - 125	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/11/2014	N001	105 - 125	0.0028		FQ	#	0.000074	
Calcium	mg/L	02/11/2014	N001	105 - 125	32		FQ	#	0.024	
Chloride	mg/L	02/11/2014	N001	105 - 125	13		FQ	#	0.2	
Iron	mg/L	02/11/2014	N001	105 - 125	0.0067	U	FQ	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	105 - 125	6.6		FQ	#	0.03	
Manganese	mg/L	02/11/2014	N001	105 - 125	0.00024	U	FQ	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	105 - 125	0.0004	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	105 - 125	2.9		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	105 - 125	215.3		FQ	#		
pH	s.u.	02/11/2014	N001	105 - 125	7.59		FQ	#		
Potassium	mg/L	02/11/2014	N001	105 - 125	1.4		FQ	#	0.052	
Selenium	mg/L	02/11/2014	N001	105 - 125	0.0014		FQ	#	0.00016	
Silica	mg/L	02/11/2014	N001	105 - 125	10		FQ	#	0.021	
Silicon	mg/L	02/11/2014	N001	105 - 125	4.8		FQ	#	0.0097	
Sodium	mg/L	02/11/2014	N001	105 - 125	12		FQ	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	105 - 125	274		FQ	#		
Sulfate	mg/L	02/11/2014	N001	105 - 125	18		FQ	#	0.5	
Temperature	C	02/11/2014	N001	105 - 125	15.25		FQ	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	105 - 125	200		FQ	#	20	
Turbidity	NTU	02/11/2014	N001	105 - 125	2.27		FQ	#		
Uranium	mg/L	02/11/2014	N001	105 - 125	0.0012		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0948 WELL Pump added to former monitoring well to supply treatment plant lab with domestic non-potable water

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	221.5 - 401.5	92		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	221.5 - 401.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	221.5 - 401.5	0.0029		F	#	0.000015	
Calcium	mg/L	02/12/2014	N001	221.5 - 401.5	24		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	221.5 - 401.5	8		F	#	0.2	
Iron	mg/L	02/12/2014	N001	221.5 - 401.5	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	221.5 - 401.5	5.3		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	221.5 - 401.5	0.001	B	UF	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	221.5 - 401.5	0.00071		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	221.5 - 401.5	2.5		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	221.5 - 401.5	-10		F	#		
pH	s.u.	02/12/2014	N001	221.5 - 401.5	8.27		F	#		
Potassium	mg/L	02/12/2014	N001	221.5 - 401.5	1.4		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	221.5 - 401.5	0.00094		F	#	0.000032	
Silica	mg/L	02/12/2014	N001	221.5 - 401.5	10		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	221.5 - 401.5	4.9		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	221.5 - 401.5	17		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	221.5 - 401.5	280		F	#		
Sulfate	mg/L	02/12/2014	N001	221.5 - 401.5	10		F	#	0.5	
Temperature	C	02/12/2014	N001	221.5 - 401.5	15.2		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	221.5 - 401.5	150		F	#	20	
Turbidity	NTU	02/12/2014	N001	221.5 - 401.5	2.27		F	#		
Uranium	mg/L	02/12/2014	N001	221.5 - 401.5	0.0014		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1003 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	55.5 - 105.5	194		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	55.5 - 105.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	55.5 - 105.5	0.0012		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	55.5 - 105.5	290		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	55.5 - 105.5	58		F	#	4	
Iron	mg/L	02/11/2014	N001	55.5 - 105.5	0.016	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	55.5 - 105.5	46		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	55.5 - 105.5	0.00067	B	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	55.5 - 105.5	0.00016	U	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	55.5 - 105.5	62		F	#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	55.5 - 105.5	114.7		F	#		
pH	s.u.	02/11/2014	N001	55.5 - 105.5	7.18		F	#		
Potassium	mg/L	02/11/2014	N001	55.5 - 105.5	4		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	55.5 - 105.5	0.0041		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	55.5 - 105.5	13		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	55.5 - 105.5	6.3		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	55.5 - 105.5	39		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	55.5 - 105.5	1823		F	#		
Sulfate	mg/L	02/11/2014	N001	55.5 - 105.5	530		F	#	10	
Temperature	C	02/11/2014	N001	55.5 - 105.5	16.04		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	55.5 - 105.5	1500		F	#	40	
Turbidity	NTU	02/11/2014	N001	55.5 - 105.5	0.61		F	#		
Uranium	mg/L	02/11/2014	N001	55.5 - 105.5	0.039		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1004 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	45.5 - 95.5	122		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	45.5 - 95.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	45.5 - 95.5	0.0033		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	45.5 - 95.5	44		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	45.5 - 95.5	15		F	#	0.2	
Iron	mg/L	02/11/2014	N001	45.5 - 95.5	0.19		F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	45.5 - 95.5	8.2		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	45.5 - 95.5	0.0044	B	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	45.5 - 95.5	0.00042	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	45.5 - 95.5	4.7		F	#	0.1	
Oxidation Reduction Potential	mV	02/11/2014	N001	45.5 - 95.5	103.2		F	#		
pH	s.u.	02/11/2014	N001	45.5 - 95.5	7.55		F	#		
Potassium	mg/L	02/11/2014	N001	45.5 - 95.5	1.4		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	45.5 - 95.5	0.0017		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	45.5 - 95.5	11		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	45.5 - 95.5	5.2		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	45.5 - 95.5	14		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	45.5 - 95.5	359		F	#		
Sulfate	mg/L	02/11/2014	N001	45.5 - 95.5	38		F	#	0.5	
Temperature	C	02/11/2014	N001	45.5 - 95.5	17.05		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	45.5 - 95.5	230		F	#	20	
Turbidity	NTU	02/11/2014	N001	45.5 - 95.5	1.5		F	#		
Uranium	mg/L	02/11/2014	N001	45.5 - 95.5	0.0038		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1005 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	45.53 - 95.53	123		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	45.53 - 95.53	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	45.53 - 95.53	0.0017		F	#	0.000015	
Calcium	mg/L	02/12/2014	N001	45.53 - 95.53	29		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	45.53 - 95.53	9.5		F	#	0.2	
Iron	mg/L	02/12/2014	N001	45.53 - 95.53	0.24		F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	45.53 - 95.53	7.8		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	45.53 - 95.53	0.0032	B	UF	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	45.53 - 95.53	0.00046		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	45.53 - 95.53	3.3		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	45.53 - 95.53	180.9		F	#		
pH	s.u.	02/12/2014	N001	45.53 - 95.53	7.94		F	#		
Potassium	mg/L	02/12/2014	N001	45.53 - 95.53	2.1		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	45.53 - 95.53	0.0014		F	#	0.000032	
Silica	mg/L	02/12/2014	N001	45.53 - 95.53	12		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	45.53 - 95.53	5.5		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	45.53 - 95.53	7.6		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	45.53 - 95.53	252		F	#		
Sulfate	mg/L	02/12/2014	N001	45.53 - 95.53	13		F	#	0.5	
Temperature	C	02/12/2014	N001	45.53 - 95.53	15.1		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	45.53 - 95.53	120		F	#	20	
Turbidity	NTU	02/12/2014	N001	45.53 - 95.53	1.86		F	#		
Uranium	mg/L	02/12/2014	N001	45.53 - 95.53	0.0016		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1006 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	45.74 - 95.74	84		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	45.74 - 95.74	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	45.74 - 95.74	0.0017		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	45.74 - 95.74	25		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	45.74 - 95.74	9.1		F	#	0.2	
Iron	mg/L	02/11/2014	N001	45.74 - 95.74	0.0087	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	45.74 - 95.74	7		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	45.74 - 95.74	0.00042	B	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	45.74 - 95.74	0.00031	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	45.74 - 95.74	3.2		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	45.74 - 95.74	95.3		F	#		
pH	s.u.	02/11/2014	N001	45.74 - 95.74	7.97		F	#		
Potassium	mg/L	02/11/2014	N001	45.74 - 95.74	2.3		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	45.74 - 95.74	0.0012		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	45.74 - 95.74	11		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	45.74 - 95.74	5.2		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	45.74 - 95.74	9.5		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	45.74 - 95.74	236		F	#		
Sulfate	mg/L	02/11/2014	N001	45.74 - 95.74	13		F	#	0.5	
Temperature	C	02/11/2014	N001	45.74 - 95.74	15.1		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	45.74 - 95.74	150		F	#	20	
Turbidity	NTU	02/11/2014	N001	45.74 - 95.74	0.47		F	#		
Uranium	mg/L	02/11/2014	N001	45.74 - 95.74	0.0012		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1007 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	45.79 - 95.99	85		F	#		
Ammonia Total as N	mg/L	02/11/2014	N001	45.79 - 95.99	0.1	U	F	#	0.1	
Arsenic	mg/L	02/11/2014	N001	45.79 - 95.99	0.0018		F	#	0.000074	
Calcium	mg/L	02/11/2014	N001	45.79 - 95.99	28		F	#	0.024	
Chloride	mg/L	02/11/2014	N001	45.79 - 95.99	9		F	#	0.2	
Iron	mg/L	02/11/2014	N001	45.79 - 95.99	0.017	B	F	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	45.79 - 95.99	6.9		F	#	0.03	
Manganese	mg/L	02/11/2014	N001	45.79 - 95.99	0.00044	B	F	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	45.79 - 95.99	0.00028	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	45.79 - 95.99	3.4		F	#	0.05	
Oxidation Reduction Potential	mV	02/11/2014	N001	45.79 - 95.99	99.3		F	#		
pH	s.u.	02/11/2014	N001	45.79 - 95.99	7.98		F	#		
Potassium	mg/L	02/11/2014	N001	45.79 - 95.99	1.9		F	#	0.052	
Selenium	mg/L	02/11/2014	N001	45.79 - 95.99	0.0011		F	#	0.00016	
Silica	mg/L	02/11/2014	N001	45.79 - 95.99	11		F	#	0.021	
Silicon	mg/L	02/11/2014	N001	45.79 - 95.99	5.1		F	#	0.0097	
Sodium	mg/L	02/11/2014	N001	45.79 - 95.99	7.8		F	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	45.79 - 95.99	245		F	#		
Sulfate	mg/L	02/11/2014	N001	45.79 - 95.99	13		F	#	0.5	
Temperature	C	02/11/2014	N001	45.79 - 95.99	15.94		F	#		
Total Dissolved Solids	mg/L	02/11/2014	N001	45.79 - 95.99	160		F	#	20	
Turbidity	NTU	02/11/2014	N001	45.79 - 95.99	1.26		F	#		
Uranium	mg/L	02/11/2014	N001	45.79 - 95.99	0.0013		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1008 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	55.55 - 105.95	87		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	55.55 - 105.95	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	55.55 - 105.95	0.0022		F	#	0.000015	
Calcium	mg/L	02/12/2014	N001	55.55 - 105.95	33		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	55.55 - 105.95	10		F	#	0.2	
Iron	mg/L	02/12/2014	N001	55.55 - 105.95	1		F	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	55.55 - 105.95	7.3		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	55.55 - 105.95	0.0013	B	UF	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	55.55 - 105.95	0.00034		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	55.55 - 105.95	3.6		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	55.55 - 105.95	107.3		F	#		
pH	s.u.	02/12/2014	N001	55.55 - 105.95	7.75		F	#		
Potassium	mg/L	02/12/2014	N001	55.55 - 105.95	1.3		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	55.55 - 105.95	0.0013		F	#	0.000032	
Silica	mg/L	02/12/2014	N001	55.55 - 105.95	13		F	#	0.0095	
Silicon	mg/L	02/12/2014	N001	55.55 - 105.95	5.9		F	#	0.0044	
Sodium	mg/L	02/12/2014	N001	55.55 - 105.95	7		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	55.55 - 105.95	261		F	#		
Sulfate	mg/L	02/12/2014	N001	55.55 - 105.95	14		F	#	0.5	
Temperature	C	02/12/2014	N001	55.55 - 105.95	16.87		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	55.55 - 105.95	150		F	#	20	
Turbidity	NTU	02/12/2014	N001	55.55 - 105.95	6.25		F	#		
Uranium	mg/L	02/12/2014	N001	55.55 - 105.95	0.0013		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1101 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	96.15 - 251.5	350			#		
Ammonia Total as N	mg/L	02/11/2014	N001	96.15 - 251.5	3.2			#	0.1	
Arsenic	mg/L	02/11/2014	N001	96.15 - 251.5	0.0018			#	0.000074	
Calcium	mg/L	02/11/2014	N001	96.15 - 251.5	480			#	0.012	
Chloride	mg/L	02/11/2014	N001	96.15 - 251.5	170			#	5	
Iron	mg/L	02/11/2014	N001	96.15 - 251.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	96.15 - 251.5	130			#	0.013	
Manganese	mg/L	02/11/2014	N001	96.15 - 251.5	0.62			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	96.15 - 251.5	0.0011			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	96.15 - 251.5	67			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	96.15 - 251.5	190			#		
pH	s.u.	02/11/2014	N001	96.15 - 251.5	6.54			#		
Potassium	mg/L	02/11/2014	N001	96.15 - 251.5	12			#	0.11	
Selenium	mg/L	02/11/2014	N001	96.15 - 251.5	0.023			#	0.00016	
Silica	mg/L	02/11/2014	N001	96.15 - 251.5	15			#	0.0095	
Silicon	mg/L	02/11/2014	N001	96.15 - 251.5	7.2			#	0.0044	
Sodium	mg/L	02/11/2014	N001	96.15 - 251.5	310			#	0.066	
Specific Conductance	umhos /cm	02/11/2014	N001	96.15 - 251.5	3740			#		
Sulfate	mg/L	02/11/2014	N001	96.15 - 251.5	1600			#	12	
Temperature	C	02/11/2014	N001	96.15 - 251.5	16.8			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	96.15 - 251.5	3500			#	80	
Turbidity	NTU	02/11/2014	N001	96.15 - 251.5	0.95			#		
Uranium	mg/L	02/11/2014	N001	96.15 - 251.5	0.29			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1102 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	101.5 - 251.5	444			#		
Ammonia Total as N	mg/L	02/11/2014	N001	101.5 - 251.5	0.89			#	0.1	
Arsenic	mg/L	02/11/2014	N001	101.5 - 251.5	0.0014			#	0.00015	
Calcium	mg/L	02/11/2014	N001	101.5 - 251.5	770			#	0.12	
Chloride	mg/L	02/11/2014	N001	101.5 - 251.5	510			#	10	
Iron	mg/L	02/11/2014	N001	101.5 - 251.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	101.5 - 251.5	200			#	0.013	
Manganese	mg/L	02/11/2014	N001	101.5 - 251.5	0.34			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	101.5 - 251.5	0.00032	U		#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	101.5 - 251.5	190			#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	101.5 - 251.5	200			#		
pH	s.u.	02/11/2014	N001	101.5 - 251.5	6.4			#		
Potassium	mg/L	02/11/2014	N001	101.5 - 251.5	14			#	0.11	
Selenium	mg/L	02/11/2014	N001	101.5 - 251.5	0.05			#	0.00032	
Silica	mg/L	02/11/2014	N001	101.5 - 251.5	15			#	0.0095	
Silicon	mg/L	02/11/2014	N001	101.5 - 251.5	7.2			#	0.0044	
Sodium	mg/L	02/11/2014	N001	101.5 - 251.5	650			#	0.066	
Specific Conductance	umhos /cm	02/11/2014	N001	101.5 - 251.5	6185			#		
Sulfate	mg/L	02/11/2014	N001	101.5 - 251.5	2300			#	25	
Temperature	C	02/11/2014	N001	101.5 - 251.5	16.2			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	101.5 - 251.5	5800			#	200	
Turbidity	NTU	02/11/2014	N001	101.5 - 251.5	0.9			#		
Uranium	mg/L	02/11/2014	N001	101.5 - 251.5	0.57			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1103 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	100 - 250	504			#		
Ammonia Total as N	mg/L	02/11/2014	N001	100 - 250	16			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	100 - 250	16			#	2.5	
Arsenic	mg/L	02/11/2014	N001	100 - 250	0.0015			#	0.00015	
Arsenic	mg/L	02/11/2014	N002	100 - 250	0.0015			#	0.00015	
Calcium	mg/L	02/11/2014	N001	100 - 250	660			#	0.12	
Calcium	mg/L	02/11/2014	N002	100 - 250	680			#	0.049	
Chloride	mg/L	02/11/2014	N001	100 - 250	130			#	10	
Chloride	mg/L	02/11/2014	N002	100 - 250	130			#	5	
Iron	mg/L	02/11/2014	N001	100 - 250	0.013	B		#	0.0049	
Iron	mg/L	02/11/2014	N002	100 - 250	0.014	B	U	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	100 - 250	220			#	0.013	
Magnesium	mg/L	02/11/2014	N002	100 - 250	210			#	0.03	
Manganese	mg/L	02/11/2014	N001	100 - 250	2			#	0.00011	
Manganese	mg/L	02/11/2014	N002	100 - 250	2.2			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	100 - 250	0.0097			#	0.00032	
Molybdenum	mg/L	02/11/2014	N002	100 - 250	0.011			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	100 - 250	190			#	2	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	100 - 250	220			#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	100 - 250	230			#		
pH	s.u.	02/11/2014	N001	100 - 250	6.31			#		
Potassium	mg/L	02/11/2014	N001	100 - 250	16		J	#	0.11	
Potassium	mg/L	02/11/2014	N002	100 - 250	13			#	0.052	
Selenium	mg/L	02/11/2014	N001	100 - 250	0.031			#	0.00032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1103 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	100 - 250	0.031			#	0.00032	
Silica	mg/L	02/11/2014	N001	100 - 250	15			#	0.0095	
Silica	mg/L	02/11/2014	N002	100 - 250	16			#	0.021	
Silicon	mg/L	02/11/2014	N001	100 - 250	7.2			#	0.0044	
Silicon	mg/L	02/11/2014	N002	100 - 250	7.6			#	0.0097	
Sodium	mg/L	02/11/2014	N001	100 - 250	300			#	0.066	
Sodium	mg/L	02/11/2014	N002	100 - 250	330			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	100 - 250	4675			#		
Sulfate	mg/L	02/11/2014	N001	100 - 250	1900			#	25	
Sulfate	mg/L	02/11/2014	N002	100 - 250	1900			#	12	
Temperature	C	02/11/2014	N001	100 - 250	16.7			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	100 - 250	4700			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	100 - 250	4700			#	80	
Turbidity	NTU	02/11/2014	N001	100 - 250	0.45			#		
Uranium	mg/L	02/11/2014	N001	100 - 250	0.33			#	0.000029	
Uranium	mg/L	02/11/2014	N002	100 - 250	0.34			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1104 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90 - 245	550			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90 - 245	53			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	90 - 245	56			#	2.5	
Arsenic	mg/L	02/11/2014	N001	90 - 245	0.003			#	0.00015	
Arsenic	mg/L	02/11/2014	N002	90 - 245	0.0031			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90 - 245	650			#	0.12	
Calcium	mg/L	02/11/2014	N002	90 - 245	640			#	0.049	
Chloride	mg/L	02/11/2014	N001	90 - 245	140			#	10	
Chloride	mg/L	02/11/2014	N002	90 - 245	140			#	10	
Iron	mg/L	02/11/2014	N001	90 - 245	0.027	B		#	0.0049	
Iron	mg/L	02/11/2014	N002	90 - 245	0.0068	B	U	#	0.0067	
Magnesium	mg/L	02/11/2014	N001	90 - 245	290			#	0.013	
Magnesium	mg/L	02/11/2014	N002	90 - 245	280			#	0.03	
Manganese	mg/L	02/11/2014	N001	90 - 245	1.6			#	0.00011	
Manganese	mg/L	02/11/2014	N002	90 - 245	1.8			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	90 - 245	0.044			#	0.00032	
Molybdenum	mg/L	02/11/2014	N002	90 - 245	0.039			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90 - 245	170			#	2	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	90 - 245	180			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	90 - 245	240			#		
pH	s.u.	02/11/2014	N001	90 - 245	6.27			#		
Potassium	mg/L	02/11/2014	N001	90 - 245	25		J	#	0.11	
Potassium	mg/L	02/11/2014	N002	90 - 245	18		J	#	0.052	
Selenium	mg/L	02/11/2014	N001	90 - 245	0.039			#	0.00032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1104 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	90	-	245	0.039			#	0.00016	
Silica	mg/L	02/11/2014	N001	90	-	245	16			#	0.0095	
Silicon	mg/L	02/11/2014	N001	90	-	245	7.3			#	0.0044	
Sodium	mg/L	02/11/2014	N001	90	-	245	480			#	0.066	
Sodium	mg/L	02/11/2014	N002	90	-	245	470			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	90	-	245	5805			#		
Sulfate	mg/L	02/11/2014	N001	90	-	245	2600			#	25	
Sulfate	mg/L	02/11/2014	N002	90	-	245	2600			#	25	
Temperature	C	02/11/2014	N001	90	-	245	16.5			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90	-	245	5500			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	90	-	245	5800			#	80	
Turbidity	NTU	02/11/2014	N001	90	-	245	0.63			#		
Uranium	mg/L	02/11/2014	N001	90	-	245	1.1			#	0.000029	
Uranium	mg/L	02/11/2014	N002	90	-	245	1.1			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1105 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90 - 245	392			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90 - 245	18			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	90 - 245	18			#	2.5	
Arsenic	mg/L	02/11/2014	N001	90 - 245	0.068			#	0.0003	
Arsenic	mg/L	02/11/2014	N002	90 - 245	0.083			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90 - 245	340			#	0.012	
Calcium	mg/L	02/11/2014	N002	90 - 245	390			#	0.024	
Chloride	mg/L	02/11/2014	N001	90 - 245	67			#	5	
Chloride	mg/L	02/11/2014	N002	90 - 245	70			#	2	
Iron	mg/L	02/11/2014	N001	90 - 245	0.0049	U		#	0.0049	
Iron	mg/L	02/11/2014	N002	90 - 245	0.0067	U		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	90 - 245	120		J	#	0.013	
Magnesium	mg/L	02/11/2014	N002	90 - 245	150		J	#	0.03	
Manganese	mg/L	02/11/2014	N001	90 - 245	1.3		J	#	0.00011	
Manganese	mg/L	02/11/2014	N002	90 - 245	1.7		J	#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	90 - 245	0.095		J	#	0.00064	
Molybdenum	mg/L	02/11/2014	N002	90 - 245	0.12		J	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90 - 245	110			#	1	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	90 - 245	91			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	90 - 245	225			#		
pH	s.u.	02/11/2014	N001	90 - 245	6.5			#		
Potassium	mg/L	02/11/2014	N001	90 - 245	8.8			#	0.11	
Potassium	mg/L	02/11/2014	N002	90 - 245	9.1			#	0.052	
Selenium	mg/L	02/11/2014	N001	90 - 245	0.018		J	#	0.00065	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1105 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	90	-	245	0.023		J	#	0.00016	
Silica	mg/L	02/11/2014	N001	90	-	245	11		J	#	0.0095	
Silica	mg/L	02/11/2014	N002	90	-	245	14		J	#	0.021	
Silicon	mg/L	02/11/2014	N001	90	-	245	5.2		J	#	0.0044	
Silicon	mg/L	02/11/2014	N002	90	-	245	6.6		J	#	0.0097	
Sodium	mg/L	02/11/2014	N001	90	-	245	140		J	#	0.0066	
Sodium	mg/L	02/11/2014	N002	90	-	245	200		J	#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	90	-	245	3500			#		
Sulfate	mg/L	02/11/2014	N001	90	-	245	1300			#	12	
Sulfate	mg/L	02/11/2014	N002	90	-	245	1400			#	10	
Temperature	C	02/11/2014	N001	90	-	245	14.7			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90	-	245	3000			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	90	-	245	3000			#	40	
Turbidity	NTU	02/11/2014	N001	90	-	245	0.46			#		
Uranium	mg/L	02/11/2014	N001	90	-	245	0.45			#	0.000058	
Uranium	mg/L	02/11/2014	N002	90	-	245	0.55			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1106 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	96.5 - 251.1	375			#		
Ammonia Total as N	mg/L	02/11/2014	N001	96.5 - 251.1	37			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	96.5 - 251.1	38			#	2.5	
Arsenic	mg/L	02/11/2014	N001	96.5 - 251.1	0.23			#	0.0015	
Arsenic	mg/L	02/11/2014	N002	96.5 - 251.1	0.25			#	0.000074	
Calcium	mg/L	02/11/2014	N001	96.5 - 251.1	420			#	0.012	
Calcium	mg/L	02/11/2014	N002	96.5 - 251.1	380			#	0.024	
Chloride	mg/L	02/11/2014	N001	96.5 - 251.1	110			#	5	
Chloride	mg/L	02/11/2014	N002	96.5 - 251.1	110			#	5	
Iron	mg/L	02/11/2014	N001	96.5 - 251.1	0.0049	U		#	0.0049	
Iron	mg/L	02/11/2014	N002	96.5 - 251.1	0.0067	U		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	96.5 - 251.1	110			#	0.013	
Magnesium	mg/L	02/11/2014	N002	96.5 - 251.1	110			#	0.03	
Manganese	mg/L	02/11/2014	N001	96.5 - 251.1	0.06			#	0.00011	
Manganese	mg/L	02/11/2014	N002	96.5 - 251.1	0.071			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	96.5 - 251.1	0.14			#	0.0032	
Molybdenum	mg/L	02/11/2014	N002	96.5 - 251.1	0.15			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	96.5 - 251.1	110			#	1	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	96.5 - 251.1	110			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	96.5 - 251.1	225			#		
pH	s.u.	02/11/2014	N001	96.5 - 251.1	6.56			#		
Potassium	mg/L	02/11/2014	N001	96.5 - 251.1	16		J	#	0.11	
Potassium	mg/L	02/11/2014	N002	96.5 - 251.1	12		J	#	0.052	
Selenium	mg/L	02/11/2014	N001	96.5 - 251.1	0.043			#	0.0032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1106 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	96.5 - 251.1	0.053			#	0.00016	
Silica	mg/L	02/11/2014	N001	96.5 - 251.1	15			#	0.0095	
Silica	mg/L	02/11/2014	N002	96.5 - 251.1	15			#	0.021	
Silicon	mg/L	02/11/2014	N001	96.5 - 251.1	7.2			#	0.0044	
Silicon	mg/L	02/11/2014	N002	96.5 - 251.1	7.1			#	0.0097	
Sodium	mg/L	02/11/2014	N001	96.5 - 251.1	280			#	0.066	
Sodium	mg/L	02/11/2014	N002	96.5 - 251.1	300			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	96.5 - 251.1	3620			#		
Sulfate	mg/L	02/11/2014	N001	96.5 - 251.1	1300			#	12	
Sulfate	mg/L	02/11/2014	N002	96.5 - 251.1	1300			#	12	
Temperature	C	02/11/2014	N001	96.5 - 251.1	16.7			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	96.5 - 251.1	3000			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	96.5 - 251.1	3300			#	80	
Turbidity	NTU	02/11/2014	N001	96.5 - 251.1	0.88			#		
Uranium	mg/L	02/11/2014	N001	96.5 - 251.1	2.4			#	0.00029	
Uranium	mg/L	02/11/2014	N002	96.5 - 251.1	2.3			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1107 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	91.1 - 245.5	580			#		
Ammonia Total as N	mg/L	02/11/2014	N001	91.1 - 245.5	11			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	91.1 - 245.5	10			#	2.5	
Arsenic	mg/L	02/11/2014	N001	91.1 - 245.5	0.0082			#	0.00015	
Arsenic	mg/L	02/11/2014	N002	91.1 - 245.5	0.0087			#	0.00015	
Calcium	mg/L	02/11/2014	N001	91.1 - 245.5	670			#	0.12	
Calcium	mg/L	02/11/2014	N002	91.1 - 245.5	680			#	0.049	
Chloride	mg/L	02/11/2014	N001	91.1 - 245.5	140			#	10	
Chloride	mg/L	02/11/2014	N002	91.1 - 245.5	140			#	10	
Iron	mg/L	02/11/2014	N001	91.1 - 245.5	0.8			#	0.0049	
Iron	mg/L	02/11/2014	N002	91.1 - 245.5	0.87			#	0.0067	
Magnesium	mg/L	02/11/2014	N001	91.1 - 245.5	140			#	0.013	
Magnesium	mg/L	02/11/2014	N002	91.1 - 245.5	140			#	0.03	
Manganese	mg/L	02/11/2014	N001	91.1 - 245.5	0.33			#	0.00011	
Manganese	mg/L	02/11/2014	N002	91.1 - 245.5	0.36			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	91.1 - 245.5	0.068			#	0.00032	
Molybdenum	mg/L	02/11/2014	N002	91.1 - 245.5	0.069			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	91.1 - 245.5	190			#	2	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	91.1 - 245.5	210			#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	91.1 - 245.5	130			#		
pH	s.u.	02/11/2014	N001	91.1 - 245.5	6.34			#		
Potassium	mg/L	02/11/2014	N001	91.1 - 245.5	17		J	#	0.11	
Potassium	mg/L	02/11/2014	N002	91.1 - 245.5	12		J	#	0.052	
Selenium	mg/L	02/11/2014	N001	91.1 - 245.5	0.087			#	0.00032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1107 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	91.1 - 245.5	0.09			#	0.00032	
Silica	mg/L	02/11/2014	N001	91.1 - 245.5	15			#	0.0095	
Silica	mg/L	02/11/2014	N002	91.1 - 245.5	16			#	0.021	
Silicon	mg/L	02/11/2014	N001	91.1 - 245.5	7.2			#	0.0044	
Silicon	mg/L	02/11/2014	N002	91.1 - 245.5	7.5			#	0.0097	
Sodium	mg/L	02/11/2014	N001	91.1 - 245.5	360			#	0.066	
Sodium	mg/L	02/11/2014	N002	91.1 - 245.5	380			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	91.1 - 245.5	4765			#		
Sulfate	mg/L	02/11/2014	N001	91.1 - 245.5	1600			#	25	
Sulfate	mg/L	02/11/2014	N002	91.1 - 245.5	1600			#	25	
Temperature	C	02/11/2014	N001	91.1 - 245.5	17.1			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	91.1 - 245.5	4400			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	91.1 - 245.5	4500			#	80	
Turbidity	NTU	02/11/2014	N001	91.1 - 245.5	7.95			#		
Uranium	mg/L	02/11/2014	N001	91.1 - 245.5	0.96			#	0.000029	
Uranium	mg/L	02/11/2014	N002	91.1 - 245.5	0.99			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1108 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	96.3 - 246.3	582			#		
Ammonia Total as N	mg/L	02/11/2014	N001	96.3 - 246.3	39			#	2.5	
Arsenic	mg/L	02/11/2014	N001	96.3 - 246.3	0.0013			#	0.00015	
Calcium	mg/L	02/11/2014	N001	96.3 - 246.3	540			#	0.12	
Chloride	mg/L	02/11/2014	N001	96.3 - 246.3	100			#	10	
Iron	mg/L	02/11/2014	N001	96.3 - 246.3	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	96.3 - 246.3	210			#	0.013	
Manganese	mg/L	02/11/2014	N001	96.3 - 246.3	3.4			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	96.3 - 246.3	0.00067	B		#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	96.3 - 246.3	140			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	96.3 - 246.3	130			#		
pH	s.u.	02/11/2014	N001	96.3 - 246.3	6.36			#		
Potassium	mg/L	02/11/2014	N001	96.3 - 246.3	17			#	0.11	
Selenium	mg/L	02/11/2014	N001	96.3 - 246.3	0.034			#	0.00032	
Silica	mg/L	02/11/2014	N001	96.3 - 246.3	16			#	0.0095	
Silicon	mg/L	02/11/2014	N001	96.3 - 246.3	7.3			#	0.0044	
Sodium	mg/L	02/11/2014	N001	96.3 - 246.3	300			#	0.066	
Specific Conductance	umhos /cm	02/11/2014	N001	96.3 - 246.3	4530			#		
Sulfate	mg/L	02/11/2014	N001	96.3 - 246.3	1700			#	25	
Temperature	C	02/11/2014	N001	96.3 - 246.3	16.6			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	96.3 - 246.3	4100			#	80	
Turbidity	NTU	02/11/2014	N001	96.3 - 246.3	1.2			#		
Uranium	mg/L	02/11/2014	N001	96.3 - 246.3	1			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1109 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90.34 - 245.1	545			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90.34 - 245.1	50			#	2.5	
Arsenic	mg/L	02/11/2014	N001	90.34 - 245.1	0.00094			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90.34 - 245.1	530			#	0.12	
Chloride	mg/L	02/11/2014	N001	90.34 - 245.1	90			#	10	
Iron	mg/L	02/11/2014	N001	90.34 - 245.1	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	90.34 - 245.1	430			#	0.013	
Manganese	mg/L	02/11/2014	N001	90.34 - 245.1	12			#	0.0011	
Molybdenum	mg/L	02/11/2014	N001	90.34 - 245.1	0.0024			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90.34 - 245.1	120			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	90.34 - 245.1	150			#		
pH	s.u.	02/11/2014	N001	90.34 - 245.1	6.3			#		
Potassium	mg/L	02/11/2014	N001	90.34 - 245.1	25			#	0.11	
Selenium	mg/L	02/11/2014	N001	90.34 - 245.1	0.026			#	0.00016	
Silica	mg/L	02/11/2014	N001	90.34 - 245.1	14			#	0.0095	
Silicon	mg/L	02/11/2014	N001	90.34 - 245.1	6.7			#	0.0044	
Sodium	mg/L	02/11/2014	N001	90.34 - 245.1	240			#	0.066	
Specific Conductance	umhos /cm	02/11/2014	N001	90.34 - 245.1	3630			#		
Sulfate	mg/L	02/11/2014	N001	90.34 - 245.1	2700			#	25	
Temperature	C	02/11/2014	N001	90.34 - 245.1	16.8			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90.34 - 245.1	5200			#	80	
Turbidity	NTU	02/11/2014	N001	90.34 - 245.1	0.51			#		
Uranium	mg/L	02/11/2014	N001	90.34 - 245.1	0.48			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1110 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	95.5 - 245.5	360			#		
Ammonia Total as N	mg/L	02/11/2014	N001	95.5 - 245.5	8.9			#	2.5	
Arsenic	mg/L	02/11/2014	N001	95.5 - 245.5	0.0014			#	0.000074	
Calcium	mg/L	02/11/2014	N001	95.5 - 245.5	410		J	#	0.012	
Chloride	mg/L	02/11/2014	N001	95.5 - 245.5	57			#	5	
Iron	mg/L	02/11/2014	N001	95.5 - 245.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	95.5 - 245.5	140			#	0.013	
Manganese	mg/L	02/11/2014	N001	95.5 - 245.5	0.89			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	95.5 - 245.5	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	95.5 - 245.5	90			#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	95.5 - 245.5	125			#		
pH	s.u.	02/11/2014	N001	95.5 - 245.5	6.47			#		
Potassium	mg/L	02/11/2014	N001	95.5 - 245.5	8.8	E	J	#	0.11	
Selenium	mg/L	02/11/2014	N001	95.5 - 245.5	0.014	E	J	#	0.00016	
Silica	mg/L	02/11/2014	N001	95.5 - 245.5	14			#	0.0095	
Silicon	mg/L	02/11/2014	N001	95.5 - 245.5	6.4			#	0.0044	
Sodium	mg/L	02/11/2014	N001	95.5 - 245.5	130			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	95.5 - 245.5	2655			#		
Sulfate	mg/L	02/11/2014	N001	95.5 - 245.5	1100			#	12	
Temperature	C	02/11/2014	N001	95.5 - 245.5	16.7			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	95.5 - 245.5	2500			#	40	
Turbidity	NTU	02/11/2014	N001	95.5 - 245.5	0.52			#		
Uranium	mg/L	02/11/2014	N001	95.5 - 245.5	0.18			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1111 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90.68 - 245.1	360			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90.68 - 245.1	16			#	2.5	
Arsenic	mg/L	02/11/2014	N001	90.68 - 245.1	0.001			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90.68 - 245.1	400			#	0.012	
Chloride	mg/L	02/11/2014	N001	90.68 - 245.1	61			#	5	
Iron	mg/L	02/11/2014	N001	90.68 - 245.1	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	90.68 - 245.1	130			#	0.013	
Manganese	mg/L	02/11/2014	N001	90.68 - 245.1	1.1			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	90.68 - 245.1	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90.68 - 245.1	91			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	90.68 - 245.1	125			#		
pH	s.u.	02/11/2014	N001	90.68 - 245.1	6.52			#		
Potassium	mg/L	02/11/2014	N001	90.68 - 245.1	8.9			#	0.11	
Selenium	mg/L	02/11/2014	N001	90.68 - 245.1	0.0091			#	0.00016	
Silica	mg/L	02/11/2014	N001	90.68 - 245.1	15			#	0.0095	
Silicon	mg/L	02/11/2014	N001	90.68 - 245.1	6.8			#	0.0044	
Sodium	mg/L	02/11/2014	N001	90.68 - 245.1	150			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	90.68 - 245.1	2870			#		
Sulfate	mg/L	02/11/2014	N001	90.68 - 245.1	1200			#	12	
Temperature	C	02/11/2014	N001	90.68 - 245.1	17.1			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90.68 - 245.1	2700			#	80	
Turbidity	NTU	02/11/2014	N001	90.68 - 245.1	1.89			#		
Uranium	mg/L	02/11/2014	N001	90.68 - 245.1	0.13			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1112 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90.5 - 245.5	150			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90.5 - 245.5	0.1	U		#	0.1	
Arsenic	mg/L	02/11/2014	N001	90.5 - 245.5	0.0018			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90.5 - 245.5	130			#	0.012	
Chloride	mg/L	02/11/2014	N001	90.5 - 245.5	18			#	2	
Iron	mg/L	02/11/2014	N001	90.5 - 245.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	90.5 - 245.5	33			#	0.013	
Manganese	mg/L	02/11/2014	N001	90.5 - 245.5	0.0054			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	90.5 - 245.5	0.00024	B		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90.5 - 245.5	24			#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	90.5 - 245.5	115			#		
pH	s.u.	02/11/2014	N001	90.5 - 245.5	6.75			#		
Potassium	mg/L	02/11/2014	N001	90.5 - 245.5	1.7			#	0.11	
Selenium	mg/L	02/11/2014	N001	90.5 - 245.5	0.004			#	0.00016	
Silica	mg/L	02/11/2014	N001	90.5 - 245.5	12			#	0.0095	
Silicon	mg/L	02/11/2014	N001	90.5 - 245.5	5.6			#	0.0044	
Sodium	mg/L	02/11/2014	N001	90.5 - 245.5	19			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	90.5 - 245.5	940			#		
Sulfate	mg/L	02/11/2014	N001	90.5 - 245.5	190			#	5	
Temperature	C	02/11/2014	N001	90.5 - 245.5	16.8			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90.5 - 245.5	650			#	20	
Turbidity	NTU	02/11/2014	N001	90.5 - 245.5	0.43			#		
Uranium	mg/L	02/11/2014	N001	90.5 - 245.5	0.037			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1113 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90.5 - 245.5	240			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90.5 - 245.5	0.1	U		#	0.1	
Arsenic	mg/L	02/11/2014	N001	90.5 - 245.5	0.001			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90.5 - 245.5	270			#	0.012	
Chloride	mg/L	02/11/2014	N001	90.5 - 245.5	38			#	4	
Iron	mg/L	02/11/2014	N001	90.5 - 245.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	90.5 - 245.5	53			#	0.013	
Manganese	mg/L	02/11/2014	N001	90.5 - 245.5	0.00011	U		#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	90.5 - 245.5	0.0046			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90.5 - 245.5	57			#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	90.5 - 245.5	120			#		
pH	s.u.	02/11/2014	N001	90.5 - 245.5	6.88			#		
Potassium	mg/L	02/11/2014	N001	90.5 - 245.5	3.2			#	0.11	
Selenium	mg/L	02/11/2014	N001	90.5 - 245.5	0.0066			#	0.00016	
Silica	mg/L	02/11/2014	N001	90.5 - 245.5	13			#	0.0095	
Silicon	mg/L	02/11/2014	N001	90.5 - 245.5	6.3			#	0.0044	
Sodium	mg/L	02/11/2014	N001	90.5 - 245.5	35			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	90.5 - 245.5	1685			#		
Sulfate	mg/L	02/11/2014	N001	90.5 - 245.5	390			#	10	
Temperature	C	02/11/2014	N001	90.5 - 245.5	17.1			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90.5 - 245.5	1300			#	40	
Turbidity	NTU	02/11/2014	N001	90.5 - 245.5	0.67			#		
Uranium	mg/L	02/11/2014	N001	90.5 - 245.5	0.064			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1114 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90.59 - 245.5	340			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90.59 - 245.5	0.1	U		#	0.1	
Arsenic	mg/L	02/11/2014	N001	90.59 - 245.5	0.001			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90.59 - 245.5	420			#	0.012	
Chloride	mg/L	02/11/2014	N001	90.59 - 245.5	41			#	4	
Iron	mg/L	02/11/2014	N001	90.59 - 245.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	90.59 - 245.5	79			#	0.013	
Manganese	mg/L	02/11/2014	N001	90.59 - 245.5	0.004	B		#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	90.59 - 245.5	0.0034			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90.59 - 245.5	76			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	90.59 - 245.5	115			#		
pH	s.u.	02/11/2014	N001	90.59 - 245.5	6.62			#		
Potassium	mg/L	02/11/2014	N001	90.59 - 245.5	5.5			#	0.11	
Selenium	mg/L	02/11/2014	N001	90.59 - 245.5	0.012			#	0.00016	
Silica	mg/L	02/11/2014	N001	90.59 - 245.5	14			#	0.0095	
Silicon	mg/L	02/11/2014	N001	90.59 - 245.5	6.7			#	0.0044	
Sodium	mg/L	02/11/2014	N001	90.59 - 245.5	76			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	90.59 - 245.5	2360			#		
Sulfate	mg/L	02/11/2014	N001	90.59 - 245.5	750			#	10	
Temperature	C	02/11/2014	N001	90.59 - 245.5	16.8			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90.59 - 245.5	2000			#	40	
Turbidity	NTU	02/11/2014	N001	90.59 - 245.5	0.84			#		
Uranium	mg/L	02/11/2014	N001	90.59 - 245.5	0.084			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1115 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	90.52 - 245.5	358			#		
Ammonia Total as N	mg/L	02/11/2014	N001	90.52 - 245.5	4.5			#	0.1	
Arsenic	mg/L	02/11/2014	N001	90.52 - 245.5	0.0011			#	0.000074	
Calcium	mg/L	02/11/2014	N001	90.52 - 245.5	390			#	0.012	
Chloride	mg/L	02/11/2014	N001	90.52 - 245.5	43			#	5	
Iron	mg/L	02/11/2014	N001	90.52 - 245.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	90.52 - 245.5	130			#	0.013	
Manganese	mg/L	02/11/2014	N001	90.52 - 245.5	0.44			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	90.52 - 245.5	0.0002	B		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	90.52 - 245.5	95			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	90.52 - 245.5	125			#		
pH	s.u.	02/11/2014	N001	90.52 - 245.5	6.5			#		
Potassium	mg/L	02/11/2014	N001	90.52 - 245.5	9.2			#	0.11	
Selenium	mg/L	02/11/2014	N001	90.52 - 245.5	0.011			#	0.00016	
Silica	mg/L	02/11/2014	N001	90.52 - 245.5	14			#	0.0095	
Silicon	mg/L	02/11/2014	N001	90.52 - 245.5	6.4			#	0.0044	
Sodium	mg/L	02/11/2014	N001	90.52 - 245.5	130			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	90.52 - 245.5	2740			#		
Sulfate	mg/L	02/11/2014	N001	90.52 - 245.5	1100			#	12	
Temperature	C	02/11/2014	N001	90.52 - 245.5	16.3			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	90.52 - 245.5	2500			#	40	
Turbidity	NTU	02/11/2014	N001	90.52 - 245.5	1.23			#		
Uranium	mg/L	02/11/2014	N001	90.52 - 245.5	0.1			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1116 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	92.37 - 195.5	134			#		
Ammonia Total as N	mg/L	02/11/2014	N001	92.37 - 195.5	0.1	U		#	0.1	
Arsenic	mg/L	02/11/2014	N001	92.37 - 195.5	0.0016			#	0.000074	
Calcium	mg/L	02/11/2014	N001	92.37 - 195.5	99			#	0.012	
Chloride	mg/L	02/11/2014	N001	92.37 - 195.5	14			#	2	
Iron	mg/L	02/11/2014	N001	92.37 - 195.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	92.37 - 195.5	19			#	0.013	
Manganese	mg/L	02/11/2014	N001	92.37 - 195.5	0.00011	U		#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	92.37 - 195.5	0.0002	B		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	92.37 - 195.5	16			#	0.1	
Oxidation Reduction Potential	mV	02/11/2014	N001	92.37 - 195.5	115			#		
pH	s.u.	02/11/2014	N001	92.37 - 195.5	7.18			#		
Potassium	mg/L	02/11/2014	N001	92.37 - 195.5	2.2			#	0.11	
Selenium	mg/L	02/11/2014	N001	92.37 - 195.5	0.0029			#	0.00016	
Silica	mg/L	02/11/2014	N001	92.37 - 195.5	13			#	0.0095	
Silicon	mg/L	02/11/2014	N001	92.37 - 195.5	5.9			#	0.0044	
Sodium	mg/L	02/11/2014	N001	92.37 - 195.5	15			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	92.37 - 195.5	675			#		
Sulfate	mg/L	02/11/2014	N001	92.37 - 195.5	140			#	5	
Temperature	C	02/11/2014	N001	92.37 - 195.5	16.5			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	92.37 - 195.5	470			#	20	
Turbidity	NTU	02/11/2014	N001	92.37 - 195.5	0.44			#		
Uranium	mg/L	02/11/2014	N001	92.37 - 195.5	0.0056			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1117 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	92.3 - 195.5	640			#		
Ammonia Total as N	mg/L	02/11/2014	N001	92.3 - 195.5	0.52			#	0.1	
Arsenic	mg/L	02/11/2014	N001	92.3 - 195.5	0.0011			#	0.000074	
Calcium	mg/L	02/11/2014	N001	92.3 - 195.5	510			#	0.12	
Chloride	mg/L	02/11/2014	N001	92.3 - 195.5	61			#	5	
Iron	mg/L	02/11/2014	N001	92.3 - 195.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	92.3 - 195.5	200			#	0.013	
Manganese	mg/L	02/11/2014	N001	92.3 - 195.5	0.049			#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	92.3 - 195.5	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	92.3 - 195.5	140			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	92.3 - 195.5	135			#		
pH	s.u.	02/11/2014	N001	92.3 - 195.5	6.43			#		
Potassium	mg/L	02/11/2014	N001	92.3 - 195.5	9.4			#	0.11	
Selenium	mg/L	02/11/2014	N001	92.3 - 195.5	0.017			#	0.00016	
Silica	mg/L	02/11/2014	N001	92.3 - 195.5	14			#	0.0095	
Silicon	mg/L	02/11/2014	N001	92.3 - 195.5	6.7			#	0.0044	
Sodium	mg/L	02/11/2014	N001	92.3 - 195.5	150			#	0.066	
Specific Conductance	umhos /cm	02/11/2014	N001	92.3 - 195.5	3675			#		
Sulfate	mg/L	02/11/2014	N001	92.3 - 195.5	1400			#	12	
Temperature	C	02/11/2014	N001	92.3 - 195.5	16.4			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	92.3 - 195.5	3500			#	80	
Turbidity	NTU	02/11/2014	N001	92.3 - 195.5	0.26			#		
Uranium	mg/L	02/11/2014	N001	92.3 - 195.5	0.053			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1118 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	89.93 - 195.5	216			#		
Ammonia Total as N	mg/L	02/11/2014	N001	89.93 - 195.5	0.1	U		#	0.1	
Arsenic	mg/L	02/11/2014	N001	89.93 - 195.5	0.0013			#	0.000074	
Calcium	mg/L	02/11/2014	N001	89.93 - 195.5	210			#	0.012	
Chloride	mg/L	02/11/2014	N001	89.93 - 195.5	28			#	4	
Iron	mg/L	02/11/2014	N001	89.93 - 195.5	0.0049	U		#	0.0049	
Magnesium	mg/L	02/11/2014	N001	89.93 - 195.5	45			#	0.013	
Manganese	mg/L	02/11/2014	N001	89.93 - 195.5	0.002	B		#	0.00011	
Molybdenum	mg/L	02/11/2014	N001	89.93 - 195.5	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	89.93 - 195.5	54			#	0.5	
Oxidation Reduction Potential	mV	02/11/2014	N001	89.93 - 195.5	125			#		
pH	s.u.	02/11/2014	N001	89.93 - 195.5	6.92			#		
Potassium	mg/L	02/11/2014	N001	89.93 - 195.5	3.9			#	0.11	
Selenium	mg/L	02/11/2014	N001	89.93 - 195.5	0.0058			#	0.00016	
Silica	mg/L	02/11/2014	N001	89.93 - 195.5	13			#	0.0095	
Silicon	mg/L	02/11/2014	N001	89.93 - 195.5	6			#	0.0044	
Sodium	mg/L	02/11/2014	N001	89.93 - 195.5	22			#	0.0066	
Specific Conductance	umhos /cm	02/11/2014	N001	89.93 - 195.5	1390			#		
Sulfate	mg/L	02/11/2014	N001	89.93 - 195.5	290			#	10	
Temperature	C	02/11/2014	N001	89.93 - 195.5	16.3			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	89.93 - 195.5	1100			#	40	
Turbidity	NTU	02/11/2014	N001	89.93 - 195.5	1.04			#		
Uranium	mg/L	02/11/2014	N001	89.93 - 195.5	0.025			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1119 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	95.33 - 245.33	160			#		
Ammonia Total as N	mg/L	02/11/2014	N001	95.33 - 245.33	3.8		J	#	0.1	
Ammonia Total as N	mg/L	02/11/2014	N002	95.33 - 245.33	2.9		J	#	0.1	
Arsenic	mg/L	02/11/2014	N001	95.33 - 245.33	0.002			#	0.00015	
Arsenic	mg/L	02/11/2014	N002	95.33 - 245.33	0.0016			#	0.000074	
Calcium	mg/L	02/11/2014	N001	95.33 - 245.33	170			#	0.012	
Calcium	mg/L	02/11/2014	N002	95.33 - 245.33	140			#	0.024	
Chloride	mg/L	02/11/2014	N001	95.33 - 245.33	34			#	4	
Chloride	mg/L	02/11/2014	N002	95.33 - 245.33	30			#	10	
Iron	mg/L	02/11/2014	N001	95.33 - 245.33	0.0049	U		#	0.0049	
Iron	mg/L	02/11/2014	N002	95.33 - 245.33	0.0067	U		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	95.33 - 245.33	61			#	0.013	
Magnesium	mg/L	02/11/2014	N002	95.33 - 245.33	50			#	0.03	
Manganese	mg/L	02/11/2014	N001	95.33 - 245.33	1.6			#	0.00011	
Manganese	mg/L	02/11/2014	N002	95.33 - 245.33	1.4			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	95.33 - 245.33	0.0035			#	0.00032	
Molybdenum	mg/L	02/11/2014	N002	95.33 - 245.33	0.0031			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	95.33 - 245.33	28		J	#	0.2	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	95.33 - 245.33	20		J	#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	95.33 - 245.33	215			#		
pH	s.u.	02/11/2014	N001	95.33 - 245.33	6.53			#		
Potassium	mg/L	02/11/2014	N001	95.33 - 245.33	5.3		J	#	0.11	
Potassium	mg/L	02/11/2014	N002	95.33 - 245.33	4		J	#	0.052	
Selenium	mg/L	02/11/2014	N001	95.33 - 245.33	0.0082			#	0.00032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1119 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	95.33 - 245.33	0.0073			#	0.00016	
Silica	mg/L	02/11/2014	N001	95.33 - 245.33	14			#	0.0095	
Silicon	mg/L	02/11/2014	N001	95.33 - 245.33	6.6			#	0.0044	
Sodium	mg/L	02/11/2014	N001	95.33 - 245.33	90			#	0.0066	
Sodium	mg/L	02/11/2014	N002	95.33 - 245.33	80			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	95.33 - 245.33	2120			#		
Sulfate	mg/L	02/11/2014	N001	95.33 - 245.33	460			#	10	
Sulfate	mg/L	02/11/2014	N002	95.33 - 245.33	390			#	25	
Temperature	C	02/11/2014	N001	95.33 - 245.33	16.3			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	95.33 - 245.33	1500			#	40	
Total Dissolved Solids	mg/L	02/11/2014	N002	95.33 - 245.33	1000	*		#	200	
Turbidity	NTU	02/11/2014	N001	95.33 - 245.33	0.5			#		
Uranium	mg/L	02/11/2014	N001	95.33 - 245.33	0.077		J	#	0.000029	
Uranium	mg/L	02/11/2014	N002	95.33 - 245.33	0.058		J	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1120 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	95.5 - 245.5	172			#		
Ammonia Total as N	mg/L	02/11/2014	N001	95.5 - 245.5	31			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	95.5 - 245.5	31			#	2.5	
Arsenic	mg/L	02/11/2014	N001	95.5 - 245.5	0.0014			#	0.00015	
Arsenic	mg/L	02/11/2014	N002	95.5 - 245.5	0.0015			#	0.000015	
Calcium	mg/L	02/11/2014	N001	95.5 - 245.5	490			#	0.024	
Calcium	mg/L	02/11/2014	N002	95.5 - 245.5	480			#	0.024	
Chloride	mg/L	02/11/2014	N001	95.5 - 245.5	39			#	5	
Chloride	mg/L	02/11/2014	N002	95.5 - 245.5	40			#	5	
Iron	mg/L	02/11/2014	N001	95.5 - 245.5	0.09	B		#	0.0067	
Iron	mg/L	02/11/2014	N002	95.5 - 245.5	0.072	B		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	95.5 - 245.5	170			#	0.03	
Magnesium	mg/L	02/11/2014	N002	95.5 - 245.5	160			#	0.03	
Manganese	mg/L	02/11/2014	N001	95.5 - 245.5	48			#	0.00024	
Manganese	mg/L	02/11/2014	N002	95.5 - 245.5	45			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	95.5 - 245.5	0.045			#	0.00032	
Molybdenum	mg/L	02/11/2014	N002	95.5 - 245.5	0.045			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	95.5 - 245.5	23			#	0.2	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	95.5 - 245.5	23			#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	95.5 - 245.5	230			#		
pH	s.u.	02/11/2014	N001	95.5 - 245.5	6.31			#		
Potassium	mg/L	02/11/2014	N001	95.5 - 245.5	11			#	0.052	
Potassium	mg/L	02/11/2014	N002	95.5 - 245.5	13			#	0.052	
Selenium	mg/L	02/11/2014	N001	95.5 - 245.5	0.0088			#	0.00032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1120 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	95.5 - 245.5	0.01			#	0.000032	
Silica	mg/L	02/11/2014	N001	95.5 - 245.5	22			#	0.021	
Silica	mg/L	02/11/2014	N002	95.5 - 245.5	21			#	0.021	
Silicon	mg/L	02/11/2014	N001	95.5 - 245.5	10			#	0.0097	
Silicon	mg/L	02/11/2014	N002	95.5 - 245.5	10			#	0.0097	
Sodium	mg/L	02/11/2014	N001	95.5 - 245.5	180			#	0.047	
Sodium	mg/L	02/11/2014	N002	95.5 - 245.5	210			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	95.5 - 245.5	3665			#		
Sulfate	mg/L	02/11/2014	N001	95.5 - 245.5	2200			#	12	
Sulfate	mg/L	02/11/2014	N002	95.5 - 245.5	2200			#	12	
Temperature	C	02/11/2014	N001	95.5 - 245.5	16.1			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	95.5 - 245.5	3700			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	95.5 - 245.5	3600			#	80	
Turbidity	NTU	02/11/2014	N001	95.5 - 245.5	0.57			#		
Uranium	mg/L	02/11/2014	N001	95.5 - 245.5	0.11			#	0.000029	
Uranium	mg/L	02/11/2014	N002	95.5 - 245.5	0.11			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1121 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	97.5 - 247.5	174			#		
Ammonia Total as N	mg/L	02/11/2014	N001	97.5 - 247.5	26			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	97.5 - 247.5	26			#	2.5	
Arsenic	mg/L	02/11/2014	N001	97.5 - 247.5	0.00094			#	0.000074	
Arsenic	mg/L	02/11/2014	N002	97.5 - 247.5	0.00087			#	0.000074	
Calcium	mg/L	02/11/2014	N001	97.5 - 247.5	500			#	0.024	
Calcium	mg/L	02/11/2014	N002	97.5 - 247.5	500			#	0.024	
Chloride	mg/L	02/11/2014	N001	97.5 - 247.5	24			#	5	
Chloride	mg/L	02/11/2014	N002	97.5 - 247.5	24			#	5	
Iron	mg/L	02/11/2014	N001	97.5 - 247.5	0.08	B		#	0.0067	
Iron	mg/L	02/11/2014	N002	97.5 - 247.5	0.056	B		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	97.5 - 247.5	110			#	0.03	
Magnesium	mg/L	02/11/2014	N002	97.5 - 247.5	100			#	0.03	
Manganese	mg/L	02/11/2014	N001	97.5 - 247.5	38			#	0.00024	
Manganese	mg/L	02/11/2014	N002	97.5 - 247.5	36			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	97.5 - 247.5	0.026			#	0.00016	
Molybdenum	mg/L	02/11/2014	N002	97.5 - 247.5	0.025			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	97.5 - 247.5	14			#	0.2	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	97.5 - 247.5	14			#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	97.5 - 247.5	225			#		
pH	s.u.	02/11/2014	N001	97.5 - 247.5	6.47			#		
Potassium	mg/L	02/11/2014	N001	97.5 - 247.5	8.7			#	0.052	
Potassium	mg/L	02/11/2014	N002	97.5 - 247.5	9.3			#	0.052	
Selenium	mg/L	02/11/2014	N001	97.5 - 247.5	0.0049			#	0.00016	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1121 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	97.5	-	247.5	0.0057			#	0.00016	
Silica	mg/L	02/11/2014	N001	97.5	-	247.5	18			#	0.021	
Silica	mg/L	02/11/2014	N002	97.5	-	247.5	17			#	0.021	
Silicon	mg/L	02/11/2014	N001	97.5	-	247.5	8.3			#	0.0097	
Silicon	mg/L	02/11/2014	N002	97.5	-	247.5	8.1			#	0.0097	
Sodium	mg/L	02/11/2014	N001	97.5	-	247.5	130			#	0.047	
Sodium	mg/L	02/11/2014	N002	97.5	-	247.5	140			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	97.5	-	247.5	3155			#		
Sulfate	mg/L	02/11/2014	N001	97.5	-	247.5	1900			#	12	
Sulfate	mg/L	02/11/2014	N002	97.5	-	247.5	1900			#	12	
Temperature	C	02/11/2014	N001	97.5	-	247.5	16.4			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	97.5	-	247.5	3100			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	97.5	-	247.5	3000			#	80	
Turbidity	NTU	02/11/2014	N001	97.5	-	247.5	0.33			#		
Uranium	mg/L	02/11/2014	N001	97.5	-	247.5	0.1			#	0.000015	
Uranium	mg/L	02/11/2014	N002	97.5	-	247.5	0.1			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1122 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	96.94 - 251.1	230			#		
Ammonia Total as N	mg/L	02/11/2014	N001	96.94 - 251.1	15			#	2.5	
Arsenic	mg/L	02/11/2014	N001	96.94 - 251.1	0.0016			#	0.000074	
Calcium	mg/L	02/11/2014	N001	96.94 - 251.1	440			#	0.024	
Chloride	mg/L	02/11/2014	N001	96.94 - 251.1	92			#	5	
Iron	mg/L	02/11/2014	N001	96.94 - 251.1	0.018	B		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	96.94 - 251.1	180			#	0.03	
Manganese	mg/L	02/11/2014	N001	96.94 - 251.1	11			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	96.94 - 251.1	0.0016			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	96.94 - 251.1	25			#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	96.94 - 251.1	247			#		
pH	s.u.	02/11/2014	N001	96.94 - 251.1	6.41			#		
Potassium	mg/L	02/11/2014	N001	96.94 - 251.1	13			#	0.052	
Selenium	mg/L	02/11/2014	N001	96.94 - 251.1	0.018			#	0.00016	
Silica	mg/L	02/11/2014	N001	96.94 - 251.1	18			#	0.021	
Silicon	mg/L	02/11/2014	N001	96.94 - 251.1	8.6			#	0.0097	
Sodium	mg/L	02/11/2014	N001	96.94 - 251.1	290			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	96.94 - 251.1	3800			#		
Sulfate	mg/L	02/11/2014	N001	96.94 - 251.1	2100			#	12	
Temperature	C	02/11/2014	N001	96.94 - 251.1	16.2			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	96.94 - 251.1	3900			#	80	
Turbidity	NTU	02/11/2014	N001	96.94 - 251.1	0.48			#		
Uranium	mg/L	02/11/2014	N001	96.94 - 251.1	0.18			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1123 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	91 - 245	228			#		
Ammonia Total as N	mg/L	02/11/2014	N001	91 - 245	22			#	2.5	
Ammonia Total as N	mg/L	02/11/2014	N002	91 - 245	23			#	2.5	
Arsenic	mg/L	02/11/2014	N001	91 - 245	0.0017			#	0.000074	
Arsenic	mg/L	02/11/2014	N002	91 - 245	0.0016			#	0.000074	
Calcium	mg/L	02/11/2014	N001	91 - 245	380			#	0.024	
Calcium	mg/L	02/11/2014	N002	91 - 245	360			#	0.024	
Chloride	mg/L	02/11/2014	N001	91 - 245	110			#	5	
Chloride	mg/L	02/11/2014	N002	91 - 245	110			#	5	
Iron	mg/L	02/11/2014	N001	91 - 245	0.024	B		#	0.0067	
Iron	mg/L	02/11/2014	N002	91 - 245	0.0067	U		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	91 - 245	180			#	0.03	
Magnesium	mg/L	02/11/2014	N002	91 - 245	170			#	0.03	
Manganese	mg/L	02/11/2014	N001	91 - 245	1.2			#	0.00024	
Manganese	mg/L	02/11/2014	N002	91 - 245	1.2			#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	91 - 245	0.00018	B		#	0.00016	
Molybdenum	mg/L	02/11/2014	N002	91 - 245	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	91 - 245	17		J	#	0.2	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N002	91 - 245	12		J	#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	91 - 245	215			#		
pH	s.u.	02/11/2014	N001	91 - 245	6.58			#		
Potassium	mg/L	02/11/2014	N001	91 - 245	14			#	0.052	
Potassium	mg/L	02/11/2014	N002	91 - 245	14			#	0.052	
Selenium	mg/L	02/11/2014	N001	91 - 245	0.0098			#	0.00016	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1123 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Selenium	mg/L	02/11/2014	N002	91 - 245	0.0098			#	0.00016	
Silica	mg/L	02/11/2014	N001	91 - 245	17			#	0.021	
Silica	mg/L	02/11/2014	N002	91 - 245	17			#	0.021	
Silicon	mg/L	02/11/2014	N001	91 - 245	8			#	0.0097	
Silicon	mg/L	02/11/2014	N002	91 - 245	7.7			#	0.0097	
Sodium	mg/L	02/11/2014	N001	91 - 245	210			#	0.047	
Sodium	mg/L	02/11/2014	N002	91 - 245	210			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	91 - 245	3320			#		
Sulfate	mg/L	02/11/2014	N001	91 - 245	1700			#	12	
Sulfate	mg/L	02/11/2014	N002	91 - 245	1800			#	12	
Temperature	C	02/11/2014	N001	91 - 245	16.7			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	91 - 245	3200			#	80	
Total Dissolved Solids	mg/L	02/11/2014	N002	91 - 245	2900			#	80	
Turbidity	NTU	02/11/2014	N001	91 - 245	0.36			#		
Uranium	mg/L	02/11/2014	N001	91 - 245	0.12			#	0.000015	
Uranium	mg/L	02/11/2014	N002	91 - 245	0.12			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1124 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	87.9 - 245.5	360			#		
Ammonia Total as N	mg/L	02/11/2014	N001	87.9 - 245.5	0.11			#	0.1	
Arsenic	mg/L	02/11/2014	N001	87.9 - 245.5	0.002			#	0.000074	
Calcium	mg/L	02/11/2014	N001	87.9 - 245.5	590			#	0.049	
Chloride	mg/L	02/11/2014	N001	87.9 - 245.5	150			#	10	
Iron	mg/L	02/11/2014	N001	87.9 - 245.5	0.0067	U		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	87.9 - 245.5	120			#	0.03	
Manganese	mg/L	02/11/2014	N001	87.9 - 245.5	0.00072	B		#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	87.9 - 245.5	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	87.9 - 245.5	70			#	1	
Oxidation Reduction Potential	mV	02/11/2014	N001	87.9 - 245.5	210			#		
pH	s.u.	02/11/2014	N001	87.9 - 245.5	6.6			#		
Potassium	mg/L	02/11/2014	N001	87.9 - 245.5	7.3			#	0.052	
Selenium	mg/L	02/11/2014	N001	87.9 - 245.5	0.024			#	0.00016	
Silica	mg/L	02/11/2014	N001	87.9 - 245.5	16			#	0.021	
Silicon	mg/L	02/11/2014	N001	87.9 - 245.5	7.7			#	0.0097	
Sodium	mg/L	02/11/2014	N001	87.9 - 245.5	390			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	87.9 - 245.5	4300			#		
Sulfate	mg/L	02/11/2014	N001	87.9 - 245.5	2100			#	25	
Temperature	C	02/11/2014	N001	87.9 - 245.5	16.8			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	87.9 - 245.5	4000			#	80	
Turbidity	NTU	02/11/2014	N001	87.9 - 245.5	0.62			#		
Uranium	mg/L	02/11/2014	N001	87.9 - 245.5	0.26			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1125 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	95.5 - 245.5	170			#		
Ammonia Total as N	mg/L	02/11/2014	N001	95.5 - 245.5	0.1	U		#	0.1	
Arsenic	mg/L	02/11/2014	N001	95.5 - 245.5	0.0022			#	0.000074	
Calcium	mg/L	02/11/2014	N001	95.5 - 245.5	67			#	0.024	
Chloride	mg/L	02/11/2014	N001	95.5 - 245.5	16			#	1	
Iron	mg/L	02/11/2014	N001	95.5 - 245.5	0.0067	U		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	95.5 - 245.5	13			#	0.03	
Manganese	mg/L	02/11/2014	N001	95.5 - 245.5	0.00094	B		#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	95.5 - 245.5	0.00036	B		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	95.5 - 245.5	13			#	0.2	
Oxidation Reduction Potential	mV	02/11/2014	N001	95.5 - 245.5	170			#		
pH	s.u.	02/11/2014	N001	95.5 - 245.5	7.56			#		
Potassium	mg/L	02/11/2014	N001	95.5 - 245.5	2.2			#	0.052	
Selenium	mg/L	02/11/2014	N001	95.5 - 245.5	0.0026			#	0.00016	
Silica	mg/L	02/11/2014	N001	95.5 - 245.5	11			#	0.021	
Silicon	mg/L	02/11/2014	N001	95.5 - 245.5	5.3			#	0.0097	
Sodium	mg/L	02/11/2014	N001	95.5 - 245.5	21			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	95.5 - 245.5	520			#		
Sulfate	mg/L	02/11/2014	N001	95.5 - 245.5	84			#	2.5	
Temperature	C	02/11/2014	N001	95.5 - 245.5	16.2			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	95.5 - 245.5	360			#	20	
Turbidity	NTU	02/11/2014	N001	95.5 - 245.5	0.7			#		
Uranium	mg/L	02/11/2014	N001	95.5 - 245.5	0.013			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1126 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/11/2014	N001	60 - 100	740			#		
Ammonia Total as N	mg/L	02/11/2014	N001	60 - 100	5.7			#	2.5	
Arsenic	mg/L	02/11/2014	N001	60 - 100	0.0016			#	0.000074	
Calcium	mg/L	02/11/2014	N001	60 - 100	590			#	0.049	
Chloride	mg/L	02/11/2014	N001	60 - 100	110			#	10	
Iron	mg/L	02/11/2014	N001	60 - 100	0.0093	B		#	0.0067	
Magnesium	mg/L	02/11/2014	N001	60 - 100	700			#	0.06	
Manganese	mg/L	02/11/2014	N001	60 - 100	0.0033	B		#	0.00024	
Molybdenum	mg/L	02/11/2014	N001	60 - 100	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/11/2014	N001	60 - 100	280			#	2	
Oxidation Reduction Potential	mV	02/11/2014	N001	60 - 100	160			#		
pH	s.u.	02/11/2014	N001	60 - 100	6.35			#		
Potassium	mg/L	02/11/2014	N001	60 - 100	16			#	0.052	
Selenium	mg/L	02/11/2014	N001	60 - 100	0.041			#	0.00016	
Silica	mg/L	02/11/2014	N001	60 - 100	24			#	0.021	
Silicon	mg/L	02/11/2014	N001	60 - 100	11			#	0.0097	
Sodium	mg/L	02/11/2014	N001	60 - 100	450			#	0.047	
Specific Conductance	umhos /cm	02/11/2014	N001	60 - 100	6700			#		
Sulfate	mg/L	02/11/2014	N001	60 - 100	3600			#	25	
Temperature	C	02/11/2014	N001	60 - 100	14.4			#		
Total Dissolved Solids	mg/L	02/11/2014	N001	60 - 100	7700			#	200	
Turbidity	NTU	02/11/2014	N001	60 - 100	0.42			#		
Uranium	mg/L	02/11/2014	N001	60 - 100	0.057			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1127 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	0001	72.7 - 112.7	150			#		
Ammonia Total as N	mg/L	02/12/2014	0001	72.7 - 112.7	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	0001	72.7 - 112.7	0.00019			#	0.000015	
Calcium	mg/L	02/12/2014	0001	72.7 - 112.7	190			#	0.012	
Chloride	mg/L	02/12/2014	0001	72.7 - 112.7	79			#	2	
Iron	mg/L	02/12/2014	0001	72.7 - 112.7	0.041	B	U	#	0.0049	
Magnesium	mg/L	02/12/2014	0001	72.7 - 112.7	35			#	0.013	
Manganese	mg/L	02/12/2014	0001	72.7 - 112.7	0.0051			#	0.00011	
Molybdenum	mg/L	02/12/2014	0001	72.7 - 112.7	0.00091			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	0001	72.7 - 112.7	54			#	0.5	
Oxidation Reduction Potential	mV	02/12/2014	N001	72.7 - 112.7	200			#		
pH	s.u.	02/12/2014	N001	72.7 - 112.7	7.47			#		
Potassium	mg/L	02/12/2014	0001	72.7 - 112.7	2.8			#	0.11	
Selenium	mg/L	02/12/2014	0001	72.7 - 112.7	0.0046			#	0.000032	
Silica	mg/L	02/12/2014	0001	72.7 - 112.7	15			#	0.0095	
Silicon	mg/L	02/12/2014	0001	72.7 - 112.7	6.9			#	0.0044	
Sodium	mg/L	02/12/2014	0001	72.7 - 112.7	19			#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	72.7 - 112.7	1225			#		
Sulfate	mg/L	02/12/2014	0001	72.7 - 112.7	240			#	5	
Temperature	C	02/12/2014	N001	72.7 - 112.7	16.1			#		
Total Dissolved Solids	mg/L	02/12/2014	0001	72.7 - 112.7	900			#	20	
Turbidity	NTU	02/12/2014	N001	72.7 - 112.7	91.5			#		
Uranium	mg/L	02/12/2014	0001	72.7 - 112.7	0.006			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1128 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	72.7 - 112.7	214			#		
Ammonia Total as N	mg/L	02/12/2014	N001	72.7 - 112.7	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	N001	72.7 - 112.7	0.001			#	0.000074	
Calcium	mg/L	02/12/2014	N001	72.7 - 112.7	450			#	0.012	
Chloride	mg/L	02/12/2014	N001	72.7 - 112.7	81			#	4	
Iron	mg/L	02/12/2014	N001	72.7 - 112.7	0.0049	U		#	0.0049	
Magnesium	mg/L	02/12/2014	N001	72.7 - 112.7	75			#	0.013	
Manganese	mg/L	02/12/2014	N001	72.7 - 112.7	0.0022	B	U	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	72.7 - 112.7	0.00033	B		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	72.7 - 112.7	130			#	1	
Oxidation Reduction Potential	mV	02/12/2014	N001	72.7 - 112.7	230			#		
pH	s.u.	02/12/2014	N001	72.7 - 112.7	6.89			#		
Potassium	mg/L	02/12/2014	N001	72.7 - 112.7	5.6			#	0.11	
Selenium	mg/L	02/12/2014	N001	72.7 - 112.7	0.016			#	0.00016	
Silica	mg/L	02/12/2014	N001	72.7 - 112.7	15			#	0.0095	
Silicon	mg/L	02/12/2014	N001	72.7 - 112.7	6.9			#	0.0044	
Sodium	mg/L	02/12/2014	N001	72.7 - 112.7	75			#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	72.7 - 112.7	2510			#		
Sulfate	mg/L	02/12/2014	N001	72.7 - 112.7	710			#	10	
Temperature	C	02/12/2014	N001	72.7 - 112.7	13.5			#		
Total Dissolved Solids	mg/L	02/12/2014	N001	72.7 - 112.7	2000			#	40	
Turbidity	NTU	02/12/2014	N001	72.7 - 112.7	5.95			#		
Uranium	mg/L	02/12/2014	N001	72.7 - 112.7	0.052			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1129 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	68.2 - 98.2	204			#		
Ammonia Total as N	mg/L	02/12/2014	N001	68.2 - 98.2	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	N001	68.2 - 98.2	0.0013			#	0.00015	
Calcium	mg/L	02/12/2014	N001	68.2 - 98.2	420			#	0.012	
Chloride	mg/L	02/12/2014	N001	68.2 - 98.2	52			#	4	
Iron	mg/L	02/12/2014	N001	68.2 - 98.2	0.0049	U		#	0.0049	
Magnesium	mg/L	02/12/2014	N001	68.2 - 98.2	88			#	0.013	
Manganese	mg/L	02/12/2014	N001	68.2 - 98.2	0.0025	B	U	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	68.2 - 98.2	0.39			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	68.2 - 98.2	110			#	1	
Oxidation Reduction Potential	mV	02/12/2014	N001	68.2 - 98.2	215			#		
pH	s.u.	02/12/2014	N001	68.2 - 98.2	7.15			#		
Potassium	mg/L	02/12/2014	N001	68.2 - 98.2	5.8			#	0.11	
Selenium	mg/L	02/12/2014	N001	68.2 - 98.2	0.048			#	0.00032	
Silica	mg/L	02/12/2014	N001	68.2 - 98.2	15			#	0.0095	
Silicon	mg/L	02/12/2014	N001	68.2 - 98.2	7			#	0.0044	
Sodium	mg/L	02/12/2014	N001	68.2 - 98.2	93			#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	68.2 - 98.2	2440			#		
Sulfate	mg/L	02/12/2014	N001	68.2 - 98.2	860			#	10	
Temperature	C	02/12/2014	N001	68.2 - 98.2	13.8			#		
Total Dissolved Solids	mg/L	02/12/2014	N001	68.2 - 98.2	2000			#	40	
Turbidity	NTU	02/12/2014	N001	68.2 - 98.2	2.06			#		
Uranium	mg/L	02/12/2014	N001	68.2 - 98.2	0.45			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1130 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	71.7 - 121.7	562			#		
Ammonia Total as N	mg/L	02/12/2014	N001	71.7 - 121.7	48			#	5	
Arsenic	mg/L	02/12/2014	N001	71.7 - 121.7	0.0016			#	0.00015	
Calcium	mg/L	02/12/2014	N001	71.7 - 121.7	700			#	0.12	
Chloride	mg/L	02/12/2014	N001	71.7 - 121.7	180			#	10	
Iron	mg/L	02/12/2014	N001	71.7 - 121.7	0.0049	U		#	0.0049	
Magnesium	mg/L	02/12/2014	N001	71.7 - 121.7	360			#	0.013	
Manganese	mg/L	02/12/2014	N001	71.7 - 121.7	0.75			#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	71.7 - 121.7	0.053			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	71.7 - 121.7	270			#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	71.7 - 121.7	230			#		
pH	s.u.	02/12/2014	N001	71.7 - 121.7	6.31			#		
Potassium	mg/L	02/12/2014	N001	71.7 - 121.7	29			#	0.11	
Selenium	mg/L	02/12/2014	N001	71.7 - 121.7	0.05			#	0.00032	
Silica	mg/L	02/12/2014	N001	71.7 - 121.7	15			#	0.0095	
Silicon	mg/L	02/12/2014	N001	71.7 - 121.7	7.1			#	0.0044	
Sodium	mg/L	02/12/2014	N001	71.7 - 121.7	430			#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	71.7 - 121.7	6195			#		
Sulfate	mg/L	02/12/2014	N001	71.7 - 121.7	2600			#	25	
Temperature	C	02/12/2014	N001	71.7 - 121.7	15.2			#		
Total Dissolved Solids	mg/L	02/12/2014	N001	71.7 - 121.7	5600			#	200	
Turbidity	NTU	02/12/2014	N001	71.7 - 121.7	1.09			#		
Uranium	mg/L	02/12/2014	N001	71.7 - 121.7	0.7			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1131 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	59.7 - 99.7	422			#		
Ammonia Total as N	mg/L	02/12/2014	0001	59.7 - 99.7	2.8			#	0.1	
Arsenic	mg/L	02/12/2014	0001	59.7 - 99.7	0.00071			#	0.000074	
Calcium	mg/L	02/12/2014	0001	59.7 - 99.7	890			#	0.12	
Chloride	mg/L	02/12/2014	0001	59.7 - 99.7	150			#	10	
Iron	mg/L	02/12/2014	0001	59.7 - 99.7	0.016	B	U	#	0.0049	
Magnesium	mg/L	02/12/2014	0001	59.7 - 99.7	240			#	0.013	
Manganese	mg/L	02/12/2014	0001	59.7 - 99.7	2.9			#	0.00011	
Molybdenum	mg/L	02/12/2014	0001	59.7 - 99.7	0.0017			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	0001	59.7 - 99.7	360			#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	59.7 - 99.7	125			#		
pH	s.u.	02/12/2014	N001	59.7 - 99.7	6.56			#		
Potassium	mg/L	02/12/2014	0001	59.7 - 99.7	15			#	0.11	
Selenium	mg/L	02/12/2014	0001	59.7 - 99.7	0.015			#	0.00016	
Silica	mg/L	02/12/2014	0001	59.7 - 99.7	18			#	0.0095	
Silicon	mg/L	02/12/2014	0001	59.7 - 99.7	8.3			#	0.0044	
Sodium	mg/L	02/12/2014	0001	59.7 - 99.7	230			#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	59.7 - 99.7	5470			#		
Sulfate	mg/L	02/12/2014	0001	59.7 - 99.7	2000			#	25	
Temperature	C	02/12/2014	N001	59.7 - 99.7	16.5			#		
Total Dissolved Solids	mg/L	02/12/2014	0001	59.7 - 99.7	5100			#	80	
Turbidity	NTU	02/12/2014	N001	59.7 - 99.7	92.1			#		
Uranium	mg/L	02/12/2014	0001	59.7 - 99.7	0.59			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1132 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	49.7 - 99.7	498			#		
Ammonia Total as N	mg/L	02/12/2014	N001	49.7 - 99.7	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	N001	49.7 - 99.7	0.0018			#	0.00015	
Calcium	mg/L	02/12/2014	N001	49.7 - 99.7	860			#	0.12	
Chloride	mg/L	02/12/2014	N001	49.7 - 99.7	130			#	10	
Iron	mg/L	02/12/2014	N001	49.7 - 99.7	0.036	B	U	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	49.7 - 99.7	170			#	0.013	
Manganese	mg/L	02/12/2014	N001	49.7 - 99.7	0.0045	B		#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	49.7 - 99.7	3.1			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	49.7 - 99.7	240			#	2	
Oxidation Reduction Potential	mV	02/12/2014	N001	49.7 - 99.7	2			#		
pH	s.u.	02/12/2014	N001	49.7 - 99.7	6.42			#		
Potassium	mg/L	02/12/2014	N001	49.7 - 99.7	12			#	0.11	
Selenium	mg/L	02/12/2014	N001	49.7 - 99.7	0.18			#	0.00032	
Silica	mg/L	02/12/2014	N001	49.7 - 99.7	17			#	0.0095	
Silicon	mg/L	02/12/2014	N001	49.7 - 99.7	7.8			#	0.0044	
Sodium	mg/L	02/12/2014	N001	49.7 - 99.7	340			#	0.066	
Specific Conductance	umhos /cm	02/12/2014	N001	49.7 - 99.7	5130			#		
Sulfate	mg/L	02/12/2014	N001	49.7 - 99.7	1900			#	25	
Temperature	C	02/12/2014	N001	49.7 - 99.7	5			#		
Total Dissolved Solids	mg/L	02/12/2014	N001	49.7 - 99.7	5000			#	80	
Turbidity	NTU	02/12/2014	N001	49.7 - 99.7	4.32			#		
Uranium	mg/L	02/12/2014	N001	49.7 - 99.7	3.2			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1133 WELL

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	59.7 - 99.7	167			#		
Ammonia Total as N	mg/L	02/12/2014	N001	59.7 - 99.7	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	N001	59.7 - 99.7	0.0014			#	0.000074	
Calcium	mg/L	02/12/2014	N001	59.7 - 99.7	170			#	0.012	
Chloride	mg/L	02/12/2014	N001	59.7 - 99.7	32			#	2	
Iron	mg/L	02/12/2014	N001	59.7 - 99.7	0.0049	U		#	0.0049	
Magnesium	mg/L	02/12/2014	N001	59.7 - 99.7	29			#	0.013	
Manganese	mg/L	02/12/2014	N001	59.7 - 99.7	0.0084			#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	59.7 - 99.7	0.023			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	59.7 - 99.7	45			#	0.5	
Oxidation Reduction Potential	mV	02/12/2014	N001	59.7 - 99.7	205			#		
pH	s.u.	02/12/2014	N001	59.7 - 99.7	7.28			#		
Potassium	mg/L	02/12/2014	N001	59.7 - 99.7	3			#	0.11	
Selenium	mg/L	02/12/2014	N001	59.7 - 99.7	0.014			#	0.00016	
Silica	mg/L	02/12/2014	N001	59.7 - 99.7	14			#	0.0095	
Silicon	mg/L	02/12/2014	N001	59.7 - 99.7	6.6			#	0.0044	
Sodium	mg/L	02/12/2014	N001	59.7 - 99.7	25			#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	59.7 - 99.7	1060			#		
Sulfate	mg/L	02/12/2014	N001	59.7 - 99.7	180			#	5	
Temperature	C	02/12/2014	N001	59.7 - 99.7	13.1			#		
Total Dissolved Solids	mg/L	02/12/2014	N001	59.7 - 99.7	720			#	20	
Turbidity	NTU	02/12/2014	N001	59.7 - 99.7	1.95			#		
Uranium	mg/L	02/12/2014	N001	59.7 - 99.7	0.095			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-1A WELL NAVAJO MONITORING WELL NMW-1A; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	167.5 - 187.5	148		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	167.5 - 187.5	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	167.5 - 187.5	0.002		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	167.5 - 187.5	34		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	167.5 - 187.5	10		F	#	0.2	
Iron	mg/L	02/13/2014	N001	167.5 - 187.5	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	167.5 - 187.5	6		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	167.5 - 187.5	0.0016	B	UF	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	167.5 - 187.5	0.00042	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	167.5 - 187.5	3.5		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	167.5 - 187.5	95.4		F	#		
pH	s.u.	02/13/2014	N001	167.5 - 187.5	7.92		F	#		
Potassium	mg/L	02/13/2014	N001	167.5 - 187.5	1.2		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	167.5 - 187.5	0.0014		F	#	0.00016	
Sodium	mg/L	02/13/2014	N001	167.5 - 187.5	9.1		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	167.5 - 187.5	272		F	#		
Sulfate	mg/L	02/13/2014	N001	167.5 - 187.5	13		F	#	0.5	
Temperature	C	02/13/2014	N001	167.5 - 187.5	17.2		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	167.5 - 187.5	150		F	#	20	
Turbidity	NTU	02/13/2014	N001	167.5 - 187.5	1.28		F	#		
Uranium	mg/L	02/13/2014	N001	167.5 - 187.5	0.0013		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-2A WELL NAVAJO MONITORING WELL NMW-2A; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	140.46 - 160.46	114		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	140.46 - 160.46	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	140.46 - 160.46	0.0022		FQ	#	0.000074	
Calcium	mg/L	02/13/2014	N001	140.46 - 160.46	33		FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	140.46 - 160.46	9.7		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	140.46 - 160.46	0.01	B	UFQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	140.46 - 160.46	5.7		FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	140.46 - 160.46	0.0043	B	FQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	140.46 - 160.46	0.00045	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	140.46 - 160.46	3.4		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	140.46 - 160.46	91.3		FQ	#		
pH	s.u.	02/13/2014	N001	140.46 - 160.46	7.8		FQ	#		
Potassium	mg/L	02/13/2014	N001	140.46 - 160.46	1.1		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	140.46 - 160.46	0.0011		FQ	#	0.00016	
Sodium	mg/L	02/13/2014	N001	140.46 - 160.46	10		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	140.46 - 160.46	271		FQ	#		
Sulfate	mg/L	02/13/2014	N001	140.46 - 160.46	13		FQ	#	0.5	
Temperature	C	02/13/2014	N001	140.46 - 160.46	15.37		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	140.46 - 160.46	140		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	140.46 - 160.46	1.05		FQ	#		
Uranium	mg/L	02/13/2014	N001	140.46 - 160.46	0.0013		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-3A WELL NAVAJO MONITORING WELL NMW-3A; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	190.62 - 210.62	168		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	190.62 - 210.62	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	190.62 - 210.62	0.0021		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	190.62 - 210.62	35		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	190.62 - 210.62	9.1		F	#	0.2	
Iron	mg/L	02/13/2014	N001	190.62 - 210.62	0.023	B	UF	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	190.62 - 210.62	6.1		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	190.62 - 210.62	0.0017	B	UF	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	190.62 - 210.62	0.00038	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	190.62 - 210.62	3.2		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	190.62 - 210.62	150.2		F	#		
pH	s.u.	02/13/2014	N001	190.62 - 210.62	7.82		F	#		
Potassium	mg/L	02/13/2014	N001	190.62 - 210.62	1.1		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	190.62 - 210.62	0.0011		F	#	0.00016	
Sodium	mg/L	02/13/2014	N001	190.62 - 210.62	8.5		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	190.62 - 210.62	265		F	#		
Sulfate	mg/L	02/13/2014	N001	190.62 - 210.62	13		F	#	0.5	
Temperature	C	02/13/2014	N001	190.62 - 210.62	13.3		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	190.62 - 210.62	150		F	#	20	
Turbidity	NTU	02/13/2014	N001	190.62 - 210.62	0.7		F	#		
Uranium	mg/L	02/13/2014	N001	190.62 - 210.62	0.0012		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-4A WELL NAVAJO MONITORING WELL NMW-4A; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	170.46 - 190.46	124		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	170.46 - 190.46	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	170.46 - 190.46	0.0022		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	170.46 - 190.46	35		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	170.46 - 190.46	10		F	#	0.2	
Iron	mg/L	02/13/2014	N001	170.46 - 190.46	0.0049	U	F	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	170.46 - 190.46	5.7		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	170.46 - 190.46	0.00027	B	UF	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	170.46 - 190.46	0.00024	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	170.46 - 190.46	3.6		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	170.46 - 190.46	141.1		F	#		
pH	s.u.	02/13/2014	N001	170.46 - 190.46	7.88		F	#		
Potassium	mg/L	02/13/2014	N001	170.46 - 190.46	1.4		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	170.46 - 190.46	0.0011		F	#	0.00016	
Sodium	mg/L	02/13/2014	N001	170.46 - 190.46	8.7		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	170.46 - 190.46	261		F	#		
Sulfate	mg/L	02/13/2014	N001	170.46 - 190.46	13		F	#	0.5	
Temperature	C	02/13/2014	N001	170.46 - 190.46	14.11		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	170.46 - 190.46	140		F	#	20	
Turbidity	NTU	02/13/2014	N001	170.46 - 190.46	0.8		F	#		
Uranium	mg/L	02/13/2014	N001	170.46 - 190.46	0.0012		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-5 WELL NAVAJO MONITORING WELL NMW-5; NMW-5 Herbert Chief; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	34.95 - 54.95	68		F	#		
Ammonia Total as N	mg/L	02/13/2014	N001	34.95 - 54.95	0.1	U	F	#	0.1	
Arsenic	mg/L	02/13/2014	N001	34.95 - 54.95	0.0034		F	#	0.000074	
Calcium	mg/L	02/13/2014	N001	34.95 - 54.95	41		F	#	0.012	
Chloride	mg/L	02/13/2014	N001	34.95 - 54.95	20		F	#	1	
Iron	mg/L	02/13/2014	N001	34.95 - 54.95	0.0067	B	UF	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	34.95 - 54.95	9.2		F	#	0.013	
Manganese	mg/L	02/13/2014	N001	34.95 - 54.95	0.00088	B	UF	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	34.95 - 54.95	0.001		F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	34.95 - 54.95	2.7		F	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	34.95 - 54.95	92.8		F	#		
pH	s.u.	02/13/2014	N001	34.95 - 54.95	7.65		F	#		
Potassium	mg/L	02/13/2014	N001	34.95 - 54.95	1.6		F	#	0.11	
Selenium	mg/L	02/13/2014	N001	34.95 - 54.95	0.0028		F	#	0.00016	
Sodium	mg/L	02/13/2014	N001	34.95 - 54.95	20		F	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	34.95 - 54.95	379		F	#		
Sulfate	mg/L	02/13/2014	N001	34.95 - 54.95	58		F	#	0.5	
Temperature	C	02/13/2014	N001	34.95 - 54.95	15.77		F	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	34.95 - 54.95	210		F	#	20	
Turbidity	NTU	02/13/2014	N001	34.95 - 54.95	0.38		F	#		
Uranium	mg/L	02/13/2014	N001	34.95 - 54.95	0.0048		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-6S WELL NAVAJO MONITORING WELL NMW-6S; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	167.62 - 187.62	74		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	167.62 - 187.62	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	167.62 - 187.62	0.0017		FQ	#	0.000074	
Calcium	mg/L	02/13/2014	N001	167.62 - 187.62	38		FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	167.62 - 187.62	12		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	167.62 - 187.62	0.029	B	UFQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	167.62 - 187.62	6.3		FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	167.62 - 187.62	0.0012	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	167.62 - 187.62	0.00036	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	167.62 - 187.62	3.6		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	167.62 - 187.62	106		FQ	#		
pH	s.u.	02/13/2014	N001	167.62 - 187.62	7.69		FQ	#		
Potassium	mg/L	02/13/2014	N001	167.62 - 187.62	1.3		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	167.62 - 187.62	0.0016		FQ	#	0.00016	
Sodium	mg/L	02/13/2014	N001	167.62 - 187.62	8.6		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	167.62 - 187.62	285		FQ	#		
Sulfate	mg/L	02/13/2014	N001	167.62 - 187.62	16		FQ	#	0.5	
Temperature	C	02/13/2014	N001	167.62 - 187.62	16.09		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	167.62 - 187.62	150		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	167.62 - 187.62	1.18		FQ	#		
Uranium	mg/L	02/13/2014	N001	167.62 - 187.62	0.0013		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-7D WELL NAVAJO MONITORING WELL NMW-7D; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	278.19 - 283.19	68		FQ	#		
Ammonia Total as N	mg/L	02/13/2014	N001	278.19 - 283.19	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/13/2014	N001	278.19 - 283.19	0.0022		FQ	#	0.000074	
Calcium	mg/L	02/13/2014	N001	278.19 - 283.19	28		FQ	#	0.012	
Chloride	mg/L	02/13/2014	N001	278.19 - 283.19	7		FQ	#	0.2	
Iron	mg/L	02/13/2014	N001	278.19 - 283.19	0.026	B	UFQ	#	0.0049	
Magnesium	mg/L	02/13/2014	N001	278.19 - 283.19	5.3		FQ	#	0.013	
Manganese	mg/L	02/13/2014	N001	278.19 - 283.19	0.00061	B	UFQ	#	0.00011	
Molybdenum	mg/L	02/13/2014	N001	278.19 - 283.19	0.00022	B	FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	278.19 - 283.19	3.5		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/13/2014	N001	278.19 - 283.19	105.1		FQ	#		
pH	s.u.	02/13/2014	N001	278.19 - 283.19	7.7		FQ	#		
Potassium	mg/L	02/13/2014	N001	278.19 - 283.19	1.3		FQ	#	0.11	
Selenium	mg/L	02/13/2014	N001	278.19 - 283.19	0.0013		FQ	#	0.00016	
Sodium	mg/L	02/13/2014	N001	278.19 - 283.19	5		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/13/2014	N001	278.19 - 283.19	216		FQ	#		
Sulfate	mg/L	02/13/2014	N001	278.19 - 283.19	9.4		FQ	#	0.5	
Temperature	C	02/13/2014	N001	278.19 - 283.19	16.39		FQ	#		
Total Dissolved Solids	mg/L	02/13/2014	N001	278.19 - 283.19	120		FQ	#	20	
Turbidity	NTU	02/13/2014	N001	278.19 - 283.19	1.99		FQ	#		
Uranium	mg/L	02/13/2014	N001	278.19 - 283.19	0.00092		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-8S WELL NAVAJO MONITORING WELL NMW_8S; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	149.43 - 169.43	100		F	#		
Ammonia Total as N	mg/L	02/12/2014	N001	149.43 - 169.43	0.1	U	F	#	0.1	
Arsenic	mg/L	02/12/2014	N001	149.43 - 169.43	0.0021		F	#	0.000074	
Calcium	mg/L	02/12/2014	N001	149.43 - 169.43	34		F	#	0.012	
Chloride	mg/L	02/12/2014	N001	149.43 - 169.43	10		F	#	0.2	
Iron	mg/L	02/12/2014	N001	149.43 - 169.43	0.0061	B	UF	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	149.43 - 169.43	5.4		F	#	0.013	
Manganese	mg/L	02/12/2014	N001	149.43 - 169.43	0.00014	B	UF	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	149.43 - 169.43	0.00032	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	149.43 - 169.43	4		F	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	149.43 - 169.43	161.2		F	#		
pH	s.u.	02/12/2014	N001	149.43 - 169.43	7.89		F	#		
Potassium	mg/L	02/12/2014	N001	149.43 - 169.43	1.4		F	#	0.11	
Selenium	mg/L	02/12/2014	N001	149.43 - 169.43	0.0012		F	#	0.00016	
Sodium	mg/L	02/12/2014	N001	149.43 - 169.43	9.4		F	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	149.43 - 169.43	266		F	#		
Sulfate	mg/L	02/12/2014	N001	149.43 - 169.43	13		F	#	0.5	
Temperature	C	02/12/2014	N001	149.43 - 169.43	14.61		F	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	149.43 - 169.43	140		F	#	20	
Turbidity	NTU	02/12/2014	N001	149.43 - 169.43	0.14		F	#		
Uranium	mg/L	02/12/2014	N001	149.43 - 169.43	0.0013		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: NMW-9D WELL NAVAJO MONITORING WELL NMW-9D; Owned by NNEPA

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	265.52 - 270.52	94		FQ	#		
Ammonia Total as N	mg/L	02/12/2014	N001	265.52 - 270.52	0.1	U	FQ	#	0.1	
Arsenic	mg/L	02/12/2014	N001	265.52 - 270.52	0.00098		FQ	#	0.000074	
Calcium	mg/L	02/12/2014	N001	265.52 - 270.52	34		FQ	#	0.012	
Chloride	mg/L	02/12/2014	N001	265.52 - 270.52	11		FQ	#	0.2	
Iron	mg/L	02/12/2014	N001	265.52 - 270.52	0.0049	U	FQ	#	0.0049	
Magnesium	mg/L	02/12/2014	N001	265.52 - 270.52	6.6		FQ	#	0.013	
Manganese	mg/L	02/12/2014	N001	265.52 - 270.52	0.049		FQ	#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	265.52 - 270.52	0.0028		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	265.52 - 270.52	3		FQ	#	0.05	
Oxidation Reduction Potential	mV	02/12/2014	N001	265.52 - 270.52	156.3		FQ	#		
pH	s.u.	02/12/2014	N001	265.52 - 270.52	7.21		FQ	#		
Potassium	mg/L	02/12/2014	N001	265.52 - 270.52	1.5		FQ	#	0.11	
Selenium	mg/L	02/12/2014	N001	265.52 - 270.52	0.0012		FQ	#	0.00016	
Sodium	mg/L	02/12/2014	N001	265.52 - 270.52	14		FQ	#	0.0066	
Specific Conductance	umhos /cm	02/12/2014	N001	265.52 - 270.52	297		FQ	#		
Sulfate	mg/L	02/12/2014	N001	265.52 - 270.52	26		FQ	#	0.5	
Temperature	C	02/12/2014	N001	265.52 - 270.52	15.25		FQ	#		
Total Dissolved Solids	mg/L	02/12/2014	N001	265.52 - 270.52	160		FQ	#	20	
Turbidity	NTU	02/12/2014	N001	265.52 - 270.52	0.27		FQ	#		
Uranium	mg/L	02/12/2014	N001	265.52 - 270.52	0.0014		FQ	#	0.000015	

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

*	Replicate analysis not within control limits.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
P	> 25% difference in detected pesticide or Aroclor concentrations between 2 columns.
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X,Y,Z	Laboratory defined qualifier, see case narrative.

DATA QUALIFIERS:

F	Low flow sampling method used.	G	Possible grout contamination, pH > 9.	J	Estimated value.
L	Less than 3 bore volumes purged prior to sampling.	Q	Qualitative result due to sampling technique.	R	Unusable result.
U	*Parameter analyzed for but was not detected.*	X	*Location is undefined.*		

QA QUALIFIER:

#	Validated according to quality assurance guidelines.

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Surface Water Quality Data

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Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0759 SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	276			#		
Ammonia Total as N	mg/L	02/12/2014	0001	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	0001	0.0006			#	0.000015	
Calcium	mg/L	02/12/2014	0001	110			#	0.012	
Chloride	mg/L	02/12/2014	0001	14			#	2	
Iron	mg/L	02/12/2014	0001	0.026	B	U	#	0.0049	
Magnesium	mg/L	02/12/2014	0001	27			#	0.013	
Manganese	mg/L	02/12/2014	0001	0.013			#	0.00011	
Molybdenum	mg/L	02/12/2014	0001	0.0034			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	0001	0.095			#	0.01	
Oxidation Reduction Potential	mV	02/12/2014	N001	182.1			#		
pH	s.u.	02/12/2014	N001	8.27			#		
Potassium	mg/L	02/12/2014	0001	5.1			#	0.11	
Selenium	mg/L	02/12/2014	0001	0.00043			#	0.000032	
Sodium	mg/L	02/12/2014	0001	130			#	0.0066	
Specific Conductance	umhos/cm	02/12/2014	N001	11126			#		
Sulfate	mg/L	02/12/2014	0001	350			#	5	
Temperature	C	02/12/2014	N001	14.05			#		
Total Dissolved Solids	mg/L	02/12/2014	0001	760			#	20	
Turbidity	NTU	02/12/2014	N001	85.6			#		
Uranium	mg/L	02/12/2014	0001	0.0043			#	0.0000029	

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0778 SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	0001	288			#		
Ammonia Total as N	mg/L	02/12/2014	0001	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	0001	0.00052			#	0.000015	
Calcium	mg/L	02/12/2014	0001	110			#	0.012	
Chloride	mg/L	02/12/2014	0001	13			#	2	
Iron	mg/L	02/12/2014	0001	0.029	B	U	#	0.0049	
Magnesium	mg/L	02/12/2014	0001	25			#	0.013	
Manganese	mg/L	02/12/2014	0001	0.02			#	0.00011	
Molybdenum	mg/L	02/12/2014	0001	0.0032			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	0001	0.12			#	0.01	
Oxidation Reduction Potential	mV	02/12/2014	N001	110.7			#		
pH	s.u.	02/12/2014	N001	8.25			#		
Potassium	mg/L	02/12/2014	0001	5			#	0.11	
Selenium	mg/L	02/12/2014	0001	0.00041			#	0.000032	
Sodium	mg/L	02/12/2014	0001	120			#	0.0066	
Specific Conductance	umhos/cm	02/12/2014	N001	1104			#		
Sulfate	mg/L	02/12/2014	0001	340			#	5	
Temperature	C	02/12/2014	N001	11.86			#		
Total Dissolved Solids	mg/L	02/12/2014	0001	750			#	20	
Turbidity	NTU	02/12/2014	N001	62.8			#		
Uranium	mg/L	02/12/2014	0001	0.0043			#	0.0000029	

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 0965 SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	0001	286			#		
Ammonia Total as N	mg/L	02/12/2014	0001	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	0001	0.00062			#	0.000015	
Calcium	mg/L	02/12/2014	0001	100			#	0.012	
Chloride	mg/L	02/12/2014	0001	11			#	2	
Iron	mg/L	02/12/2014	0001	0.0079	B	U	#	0.0049	
Magnesium	mg/L	02/12/2014	0001	24			#	0.013	
Manganese	mg/L	02/12/2014	0001	0.03			#	0.00011	
Molybdenum	mg/L	02/12/2014	0001	0.0032			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	0001	0.11			#	0.01	
Oxidation Reduction Potential	mV	02/12/2014	N001	117.4			#		
pH	s.u.	02/12/2014	N001	8.28			#		
Potassium	mg/L	02/12/2014	0001	4.8			#	0.11	
Selenium	mg/L	02/12/2014	0001	0.00045			#	0.000032	
Sodium	mg/L	02/12/2014	0001	110			#	0.0066	
Specific Conductance	umhos/cm	02/12/2014	N001	1071			#		
Sulfate	mg/L	02/12/2014	0001	320			#	5	
Temperature	C	02/12/2014	N001	10.31			#		
Total Dissolved Solids	mg/L	02/12/2014	0001	750			#	20	
Turbidity	NTU	02/12/2014	N001	78.5			#		
Uranium	mg/L	02/12/2014	0001	0.0041			#	0.0000029	

General Water Quality Data by Location (USEE105) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1202 TREATMENT SYSTEM Soft Water Feed Tank

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	0 - 0	345			#		
Ammonia Total as N	mg/L	02/13/2014	N001	0 - 0	8.1			#	1	
Calcium	mg/L	02/13/2014	N001	0 - 0	490			#	0.012	
Chloride	mg/L	02/13/2014	N001	0 - 0	95			#	10	
Molybdenum	mg/L	02/13/2014	N001	0 - 0	0.081			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	0 - 0	110			#	1	
Oxidation Reduction Potential	mV	02/13/2014	N001	0 - 0	250.3			#		
pH	s.u.	02/13/2014	N001	0 - 0	6.49			#		
Selenium	mg/L	02/13/2014	N001	0 - 0	0.023			#	0.00032	
Specific Conductance	umhos /cm	02/13/2014	N001	0 - 0	3674			#		
Sulfate	mg/L	02/13/2014	N001	0 - 0	1500			#	25	
Temperature	C	02/13/2014	N001	0 - 0	15.47			#		
Total Dissolved Solids	mg/L	02/13/2014	N001	0 - 0	3100			#	80	
Turbidity	NTU	02/13/2014	N001	0 - 0	1.1			#		
Uranium	mg/L	02/13/2014	N001	0 - 0	0.44			#	0.000029	

General Water Quality Data by Location (USEE105) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1205 TREATMENT SYSTEM Distillate from Evaporator

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	0 - 0	0			#		
Ammonia Total as N	mg/L	02/13/2014	N001	0 - 0	0.12			#	0.1	
Calcium	mg/L	02/13/2014	N001	0 - 0	0.24	B	U	#	0.012	
Chloride	mg/L	02/13/2014	N001	0 - 0	13			#	0.2	
Molybdenum	mg/L	02/13/2014	N001	0 - 0	0.00033			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	0 - 0	1			#	0.01	
Oxidation Reduction Potential	mV	02/13/2014	N001	0 - 0	211.5			#		
pH	s.u.	02/13/2014	N001	0 - 0	5.35			#		
Selenium	mg/L	02/13/2014	N001	0 - 0	0.0002			#	0.000032	
Specific Conductance	umhos /cm	02/13/2014	N001	0 - 0	128			#		
Sulfate	mg/L	02/13/2014	N001	0 - 0	11			#	0.5	
Temperature	C	02/13/2014	N001	0 - 0	24.46			#		
Total Dissolved Solids	mg/L	02/13/2014	N001	0 - 0	27			#	20	
Turbidity	NTU	02/13/2014	N001	0 - 0	0.65			#		
Uranium	mg/L	02/13/2014	N001	0 - 0	0.024			#	0.0000029	

General Water Quality Data by Location (USEE105) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1206 TREATMENT SYSTEM Brine from Evaporator

Parameter	Units	Sample Date	Sample ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	N001	0 - 0	0			#		
Ammonia Total as N	mg/L	02/13/2014	N001	0 - 0	160			#	10	
Calcium	mg/L	02/13/2014	N001	0 - 0	460			#	0.12	
Chloride	mg/L	02/13/2014	N001	0 - 0	25000			#	400	
Molybdenum	mg/L	02/13/2014	N001	0 - 0	0.65			#	0.0064	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	N001	0 - 0	1400			#	10	
Oxidation Reduction Potential	mV	02/13/2014	N001	0 - 0	351.4			#		
pH	s.u.	02/13/2014	N001	0 - 0	3.3			#		
Selenium	mg/L	02/13/2014	N001	0 - 0	0.3			#	0.0065	
Specific Conductance	umhos /cm	02/13/2014	N001	0 - 0	83780			#		
Sulfate	mg/L	02/13/2014	N001	0 - 0	23000			#	250	
Temperature	C	02/13/2014	N001	0 - 0	22.14			#		
Total Dissolved Solids	mg/L	02/13/2014	N001	0 - 0	69000			#	2000	
Turbidity	NTU	02/13/2014	N001	0 - 0	0.94			#		
Uranium	mg/L	02/13/2014	N001	0 - 0	46			#	0.00058	

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1569 SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	0001	24			#		
Ammonia Total as N	mg/L	02/13/2014	0001	290			#	50	
Arsenic	mg/L	02/13/2014	0001	0.041			#	0.003	
Calcium	mg/L	02/13/2014	0001	1500			#	0.6	
Chloride	mg/L	02/13/2014	0001	19000			#	1000	
Iron	mg/L	02/13/2014	0001	0.25	U		#	0.25	
Magnesium	mg/L	02/13/2014	0001	4600			#	0.65	
Manganese	mg/L	02/13/2014	0001	82			#	0.0057	
Molybdenum	mg/L	02/13/2014	0001	0.2			#	0.0064	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	0001	4100			#	50	
Oxidation Reduction Potential	mV	02/13/2014	N001	260			#		
pH	s.u.	02/13/2014	N001	6.47			#		
Potassium	mg/L	02/13/2014	0001	540			#	5.4	
Selenium	mg/L	02/13/2014	0001	0.65			#	0.0065	
Sodium	mg/L	02/13/2014	0001	41000			#	3.3	
Specific Conductance	umhos/cm	02/13/2014	N001	150100			#		
Sulfate	mg/L	02/13/2014	0001	14000			#	250	
Temperature	C	02/13/2014	N001	13.9			#		
Total Dissolved Solids	mg/L	02/13/2014	0001	150000			#	2000	
Turbidity	NTU	02/13/2014	N001	3.42			#		
Uranium	mg/L	02/13/2014	0001	1.4			#	0.00058	

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1570 SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/13/2014	0001	44			#		
Ammonia Total as N	mg/L	02/13/2014	0001	310			#	50	
Arsenic	mg/L	02/13/2014	0001	0.049			#	0.003	
Calcium	mg/L	02/13/2014	0001	1400			#	0.6	
Chloride	mg/L	02/13/2014	0001	42000			#	1000	
Iron	mg/L	02/13/2014	0001	0.25	U		#	0.25	
Magnesium	mg/L	02/13/2014	0001	4400			#	0.65	
Manganese	mg/L	02/13/2014	0001	77			#	0.0057	
Molybdenum	mg/L	02/13/2014	0001	0.19			#	0.0064	
Nitrate + Nitrite as Nitrogen	mg/L	02/13/2014	0001	3700			#	50	
Oxidation Reduction Potential	mV	02/13/2014	N001	228			#		
pH	s.u.	02/13/2014	N001	6.45			#		
Potassium	mg/L	02/13/2014	0001	510			#	5.4	
Selenium	mg/L	02/13/2014	0001	0.64			#	0.0065	
Sodium	mg/L	02/13/2014	0001	39000			#	3.3	
Specific Conductance	umhos/cm	02/13/2014	N001	147700			#		
Sulfate	mg/L	02/13/2014	0001	14000			#	250	
Temperature	C	02/13/2014	N001	12.9			#		
Total Dissolved Solids	mg/L	02/13/2014	0001	140000			#	2000	
Turbidity	NTU	02/13/2014	N001	13.1			#		
Uranium	mg/L	02/13/2014	0001	1.3			#	0.00058	

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1571 SURFACE LOCATION Jimmy Spring West

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	0001	172			#		
Ammonia Total as N	mg/L	02/12/2014	0001	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	0001	0.0023			#	0.000074	
Calcium	mg/L	02/12/2014	0001	35			#	0.012	
Chloride	mg/L	02/12/2014	0001	67			#	2	
Iron	mg/L	02/12/2014	0001	0.071	B		#	0.0049	
Magnesium	mg/L	02/12/2014	0001	11			#	0.013	
Manganese	mg/L	02/12/2014	0001	0.019			#	0.00011	
Molybdenum	mg/L	02/12/2014	0001	0.0046			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	0001	0.84			#	0.01	
Oxidation Reduction Potential	mV	02/12/2014	N001	83.6			#		
pH	s.u.	02/12/2014	N001	8.66			#		
Potassium	mg/L	02/12/2014	0001	3.8			#	0.11	
Selenium	mg/L	02/12/2014	0001	0.0061			#	0.00016	
Sodium	mg/L	02/12/2014	0001	110			#	0.0066	
Specific Conductance	umhos/cm	02/12/2014	N001	788			#		
Sulfate	mg/L	02/12/2014	0001	130			#	5	
Temperature	C	02/12/2014	N001	16.78			#		
Total Dissolved Solids	mg/L	02/12/2014	0001	450			#	20	
Turbidity	NTU	02/12/2014	N001	791			#		
Uranium	mg/L	02/12/2014	0001	0.011			#	0.000015	

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/31/2014
Location: 1573 SURFACE LOCATION Shonto Well West Pipe

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Alkalinity, Total (as $CaCO_3$)	mg/L	02/12/2014	N001	176			#		
Ammonia Total as N	mg/L	02/12/2014	N001	0.1	U		#	0.1	
Arsenic	mg/L	02/12/2014	N001	0.005			#	0.000074	
Calcium	mg/L	02/12/2014	N001	19			#	0.012	
Chloride	mg/L	02/12/2014	N001	40			#	1	
Iron	mg/L	02/12/2014	N001	0.11			#	0.0049	
Magnesium	mg/L	02/12/2014	N001	4.8			#	0.013	
Manganese	mg/L	02/12/2014	N001	0.0055			#	0.00011	
Molybdenum	mg/L	02/12/2014	N001	0.0014			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	02/12/2014	N001	1.1			#	0.01	
Oxidation Reduction Potential	mV	02/12/2014	N001	83			#		
pH	s.u.	02/12/2014	N001	8.19			#		
Potassium	mg/L	02/12/2014	N001	5			#	0.11	
Selenium	mg/L	02/12/2014	N001	0.0033			#	0.00016	
Sodium	mg/L	02/12/2014	N001	91			#	0.0066	
Specific Conductance	umhos/cm	02/12/2014	N001	556			#		
Sulfate	mg/L	02/12/2014	N001	42			#	2.5	
Temperature	C	02/12/2014	N001	10.39			#		
Total Dissolved Solids	mg/L	02/12/2014	N001	310			#	20	
Turbidity	NTU	02/12/2014	N001	7.21			#		
Uranium	mg/L	02/12/2014	N001	0.0028			#	0.000015	

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

*	Replicate analysis not within control limits.
>	Result above upper detection limit.
A	TIC is a suspected aldol-condensation product.
B	Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
C	Pesticide result confirmed by GC-MS.
D	Analyte determined in diluted sample.
E	Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H	Holding time expired, value suspect.
I	Increased detection limit due to required dilution.
J	Estimated
N	Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
P	> 25% difference in detected pesticide or Aroclor concentrations between 2 columns.
U	Analytical result below detection limit.
W	Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X,Y,Z	Laboratory defined qualifier, see case narrative.

DATA QUALIFIERS:

F	Low flow sampling method used.	G	Possible grout contamination, pH > 9.	J	Estimated value.
L	Less than 3 bore volumes purged prior to sampling.	Q	Qualitative result due to sampling technique.	R	Unusable result.
U	Parameter analyzed for but was not detected.	X	Location is undefined.		

QA QUALIFIER:

#	Validated according to quality assurance guidelines.

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Static Water Level Data

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STATIC WATER LEVELS (USEE700) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/25/2014

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Measurement Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)	Water Level Flag
0251		5061.25	02/12/2014	16:20:51	76.28	4984.97	
0252		5061.3	02/12/2014	15:53:46	73.12	4988.18	
0258		5055.56	02/11/2014	11:35:00	98.28	4957.28	
0261		5069.69	02/11/2014	11:15:07	129.05	4940.64	
0262		5061.99	02/12/2014	14:35:52	48.91	5013.08	
0263		5063.1	02/11/2014	09:55:23	53.28	5009.82	
0264		5062.19	02/11/2014	10:25:39	89.59	4972.6	
0265		5053.88	02/11/2014	11:05:24	81.64	4972.24	
0266		5053.32	02/11/2014	11:35:47	98.9	4954.42	
0267		5053.4	02/12/2014	16:55:57	61.75	4991.65	
0268		5067.24	02/13/2014	11:40:31	101.15	4966.09	
0271		5046.72	02/13/2014	10:55:23	55.12	4991.6	
0272		5064.24	02/13/2014	12:55:44	80.82	4983.42	
0273		5064.74	02/13/2014	12:00:44	76.15	4988.59	
0274		5064.42	02/11/2014	15:10:07	72.73	4991.69	
0275		5062.64	02/13/2014	11:00:45	81.15	4981.49	
0276		5067.55	02/13/2014	10:30:25	82.07	4985.48	
0277		4982.35	02/12/2014	12:30:28	38.33	4944.02	
0278		4956.09	02/11/2014	15:08:24	23.91	4932.18	
0279		4951.04	02/11/2014	14:28:03	25.39	4925.65	
0280		4951.52	02/11/2014	13:35:23	27.59	4923.93	
0281		5051	02/12/2014	17:12:44	71.07	4979.93	
0282		5060.04	02/12/2014	17:30:30	84.48	4975.56	
0283		5057.97	02/12/2014	16:32:00			D
0284		5098.72	02/13/2014	13:49:00			D
0285		5096.47	02/11/2014	17:31:00			D
0286		5063.99	02/11/2014	15:40:18	70.07	4993.92	
0287		5065.65	02/11/2014	09:25:42	55.46	5010.19	
0288		5072.54	02/11/2014	17:00:50	57.91	5014.63	

STATIC WATER LEVELS (USEE700) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/25/2014

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Measurement Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)	Water Level Flag
0289		5070.82	02/11/2014	16:45:15	57.91	5012.91	
0290		5068.91	02/11/2014	08:54:41	93.42	4975.49	
0683		5070.64	02/11/2014	09:20:30	99.79	4970.85	
0684		5070.05	02/11/2014	08:37:14	73.04	4997.01	
0685		5072.44	02/13/2014	08:55:58	51.03	5021.41	
0686		5107.97	02/13/2014	09:55:10	67.65	5040.32	
0687		5109.82	02/13/2014	09:25:19	54.7	5055.12	
0689		4981.63	02/11/2014	16:25:57	40.49	4941.14	
0690		4950.87	02/11/2014	14:08:48	25.31	4925.56	
0691		4979.41	02/11/2014	12:05:54	42.61	4936.8	
0692		4953.31	02/11/2014	13:50:13	26.91	4926.4	
0695		4976.83	02/11/2014	12:50:00	50.69	4926.14	
0901	U	5105.46	02/13/2014	11:50:40	47.73	5057.73	
0902	N	4737.42	02/13/2014	10:10:32	28.74	4708.68	
0903	D	4983.33	02/12/2014	12:10:30	33.49	4949.84	
0904	N	4904.11	02/11/2014	17:00:22	23.19	4880.92	
0906	O	5062.1	02/13/2014	13:10:53	52	5010.1	
0908	D	5058.14	02/11/2014	14:35:11	59.05	4999.09	
0909	D	5057.17	02/12/2014	14:44:00			D
0911	U	5106.96	02/13/2014	11:10:08	47.44	5059.52	
0912	D	5059.97	02/12/2014	10:50:18	62.38	4997.59	
0913	D	5060.16	02/12/2014	11:40:43	69.01	4991.15	
0914	D	5070.1	02/11/2014	10:40:23	112.81	4957.29	
0915	D	5070.84	02/11/2014	09:48:31	109.94	4960.9	
0916	D	5070	02/11/2014	10:25:07	121.71	4948.29	
0917	D	5048.02	02/13/2014	12:00:30	69.61	4978.41	
0918	D	5049.63	02/13/2014	10:52:00			D
0919	D	5048.56	02/13/2014	11:35:16	146.33	4902.23	
0920	D	4982.97	02/12/2014	13:00:04	37.34	4945.63	

STATIC WATER LEVELS (USEE700) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 03/25/2014

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Measurement Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)	Water Level Flag
0921	D	4979.08	02/12/2014	11:32:54	41.99	4937.09	
0929	D	5060.82	02/11/2014	14:00:42	61.24	4999.58	
0930	D	4954.96	02/11/2014	14:52:53	21	4933.96	
0932	D	5057.32	02/12/2014	15:08:11	103.12	4954.2	
0934	D	5059.73	02/11/2014	12:10:55	78.07	4981.66	
0940	D	5064.77	02/13/2014	12:35:44	65.54	4999.23	
0941	D	5065.97	02/11/2014	09:00:18	54.91	5011.06	
0943	U	5098.05	02/11/2014	17:30:22	54.21	5043.84	
0945	U	5140.49	02/13/2014	14:30:21	92.13	5048.36	
0946	C	5100.5	02/11/2014	16:20:09	48.65	5051.85	
0947	U	5097.01	02/11/2014	08:10:26	68.48	5028.53	
1003		4976.58	02/11/2014	12:30:35	39.79	4936.79	
1004		4961.55	02/11/2014	13:20:03	25.41	4936.14	
1005		4947.83	02/12/2014	10:40:59	21.99	4925.84	
1006		4947.08	02/11/2014	15:35:53	17.31	4929.77	
1007		4958.56	02/11/2014	16:00:54	22.63	4935.93	
1008		4980.52	02/12/2014	14:10:08	38.5	4942.02	
NMW-1A		5150.95	02/13/2014	14:30:39	114.86	5036.09	
NMW-2A		5121.69	02/13/2014	10:30:41	70.44	5051.25	
NMW-3A		5168.51	02/13/2014	08:55:42	12.98	5155.53	
NMW-4A		5137.44	02/13/2014	09:30:51	80.5	5056.94	
NMW-5		4985.85	02/13/2014	12:45:26	16.7	4969.15	
NMW-6S		5145.93	02/13/2014	15:20:40	108	5037.93	
NMW-7D		5147.13	02/13/2014	15:00:23	185	4962.13	
NMW-8S		5114.87	02/12/2014	09:45:59	89.11	5025.76	
NMW-9D		5115.92	02/12/2014	10:10:08	90.55	5025.37	

FLOW CODES: B BACKGROUND C CROSS GRADIENT D DOWN GRADIENT F OFFSITE
N UNKNOWN O ONSITE U UPGRADIENT

WATER LEVEL FLAGS: D Dry F Flowing B Below top of pump

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Time-Concentration Graphs
Primary Contaminants

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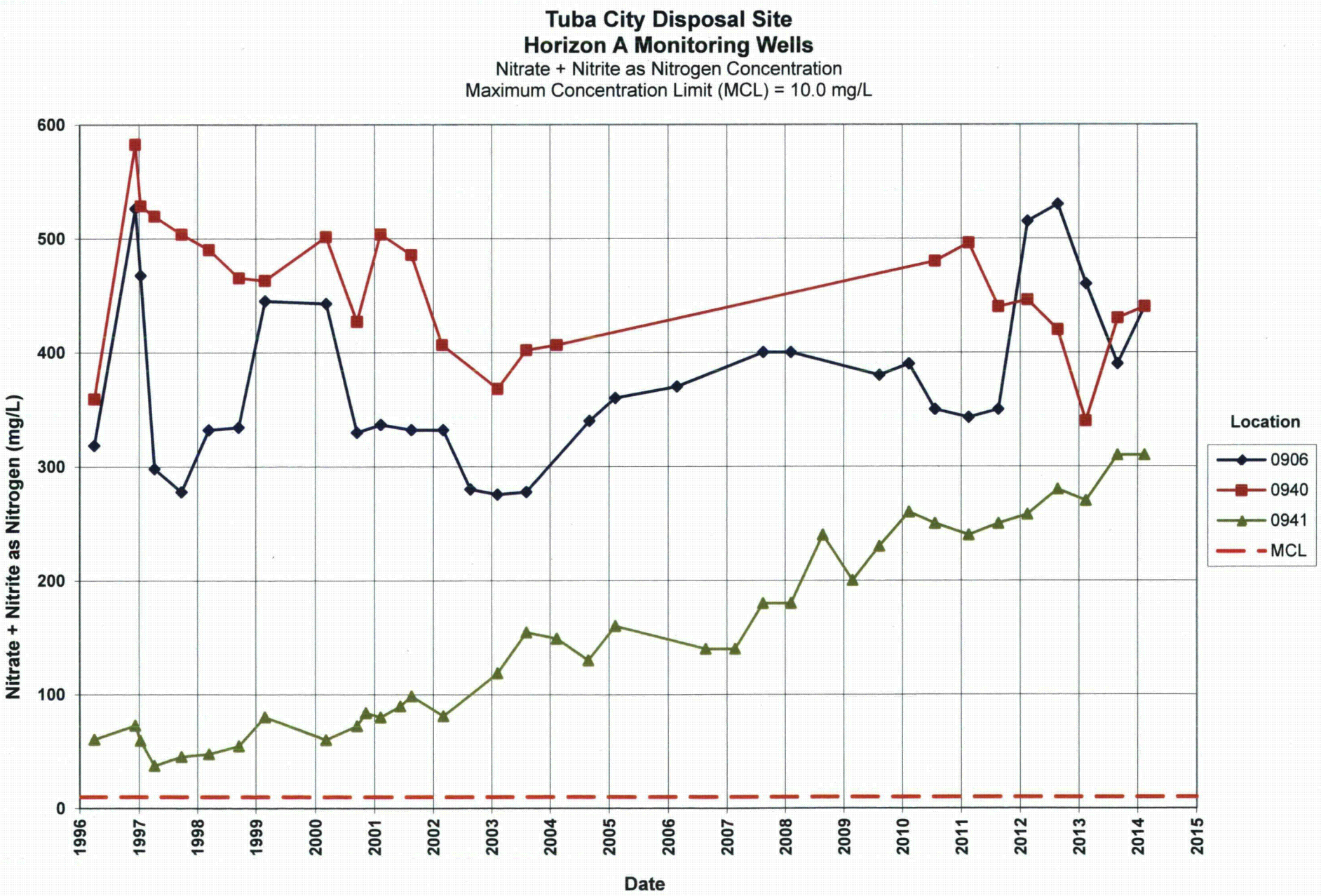
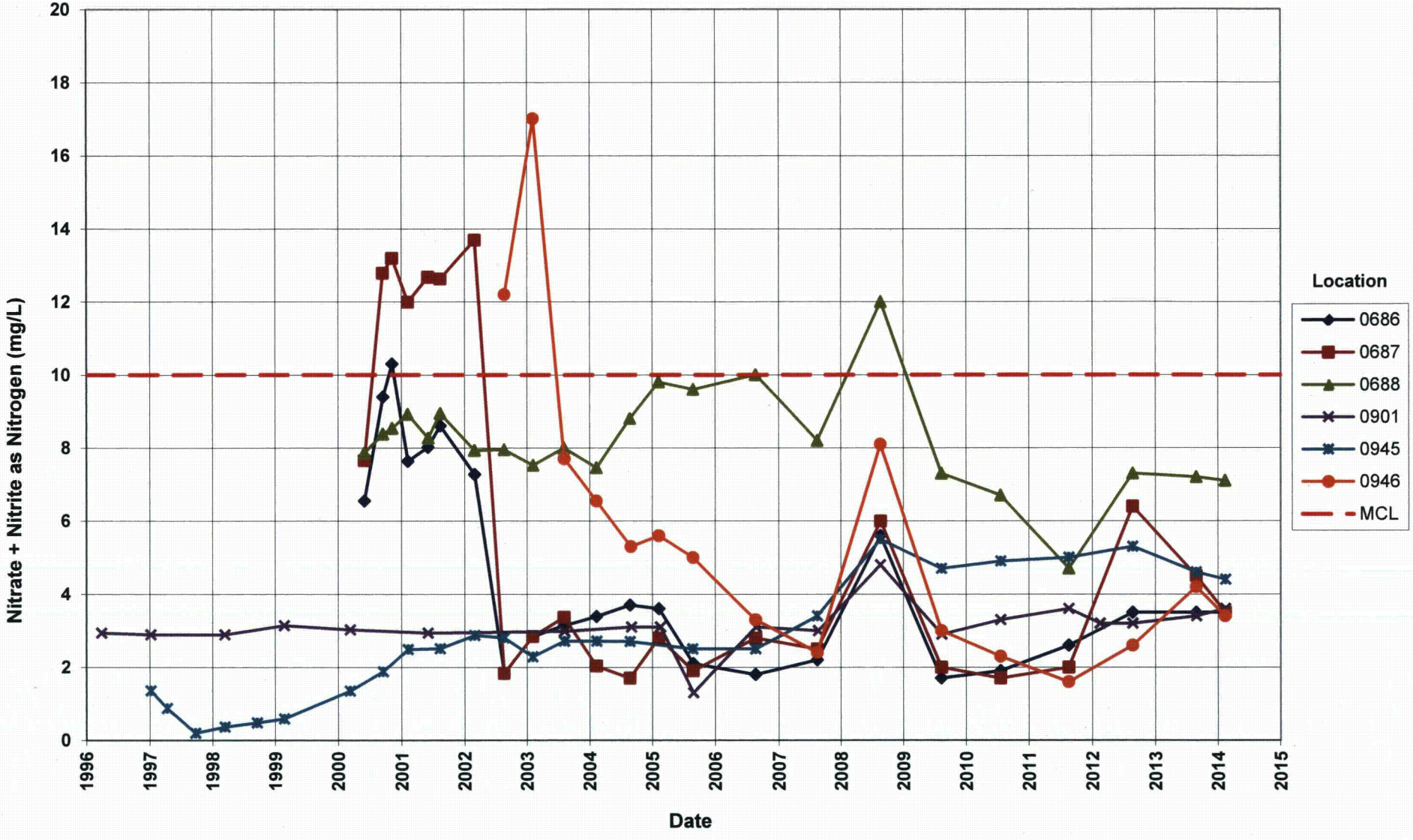
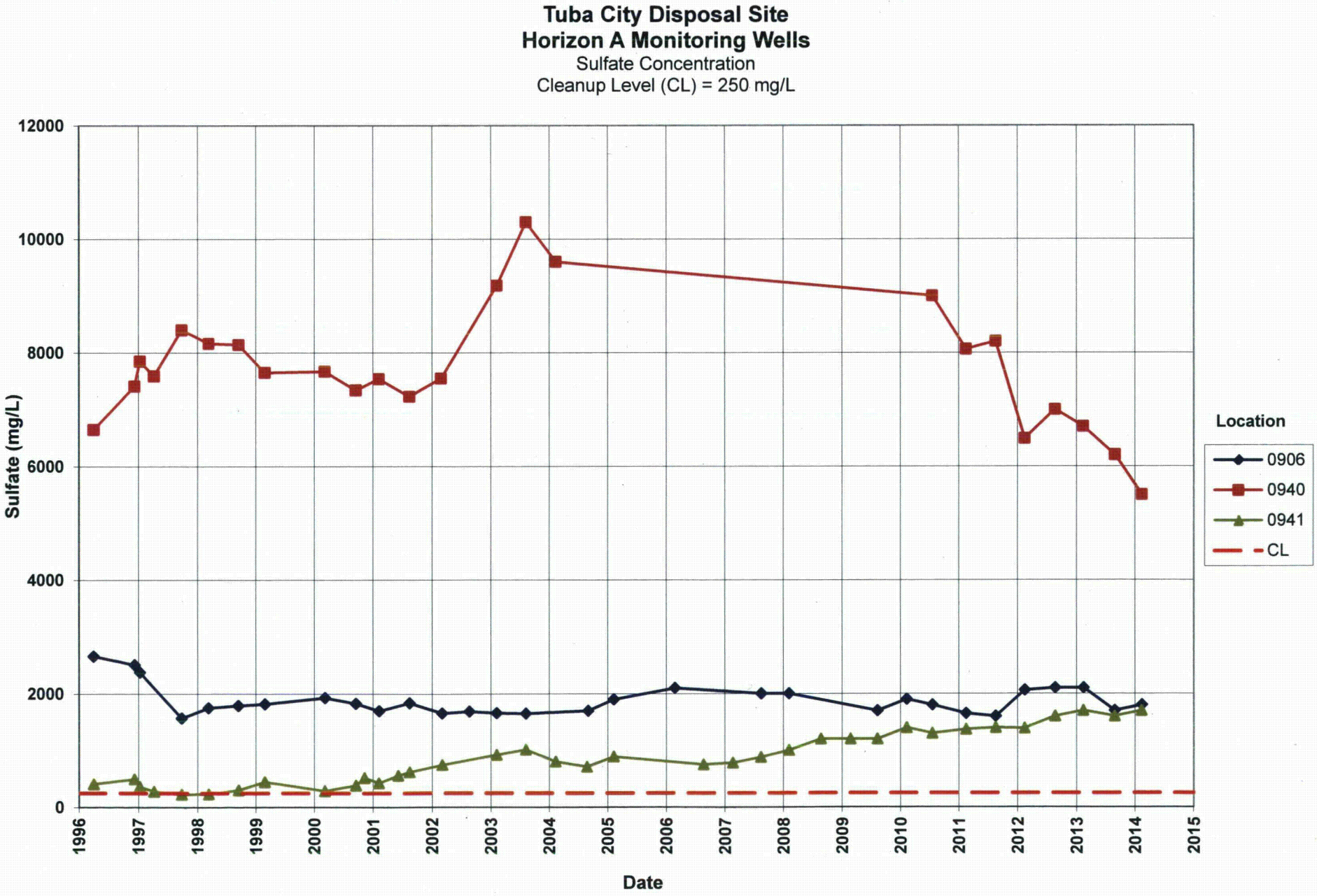
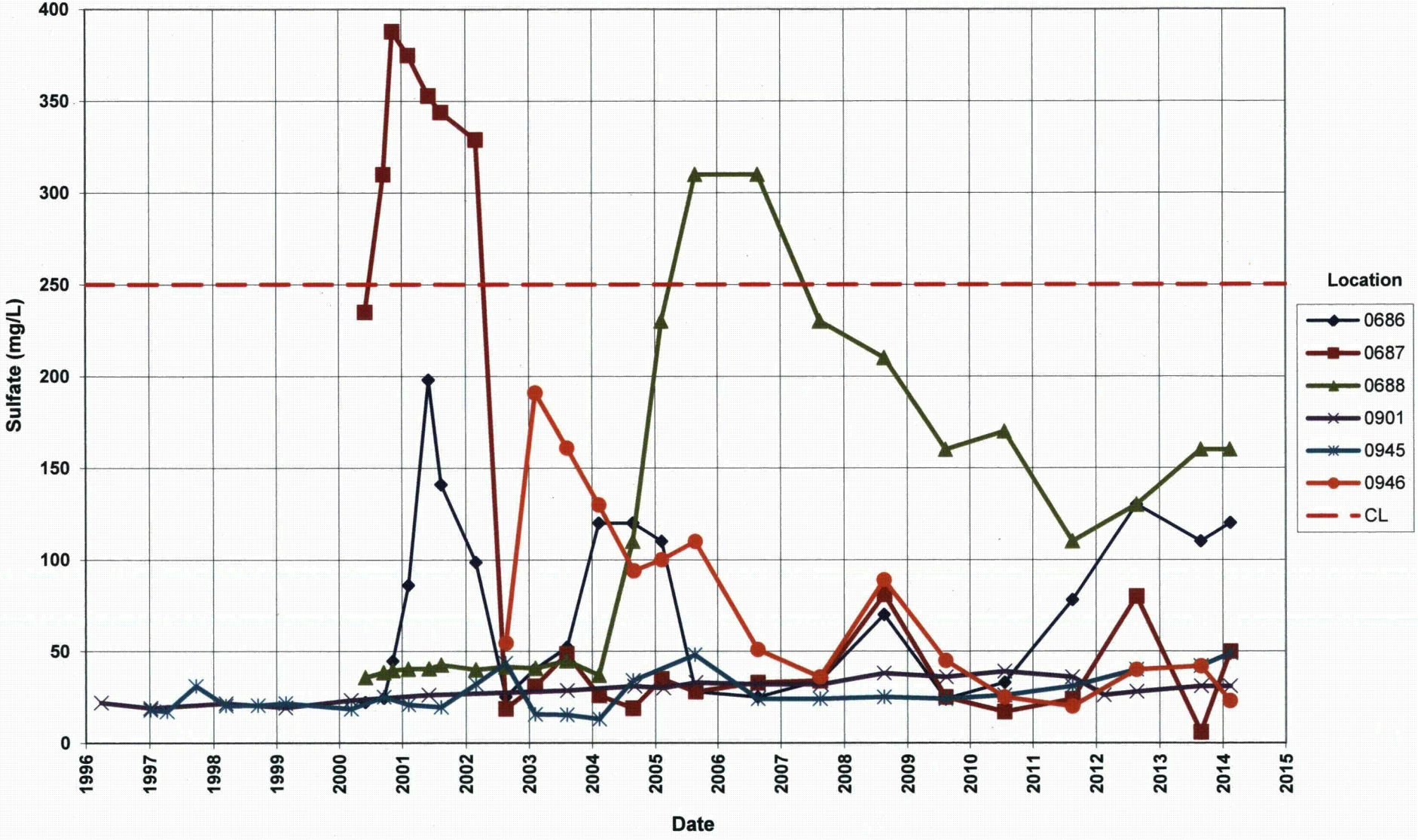

Tuba City Disposal Site
Horizon A Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
600
500
400
300
200
100
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0906
0940
0941
MCL

Tuba City Disposal Site
Horizon A Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L

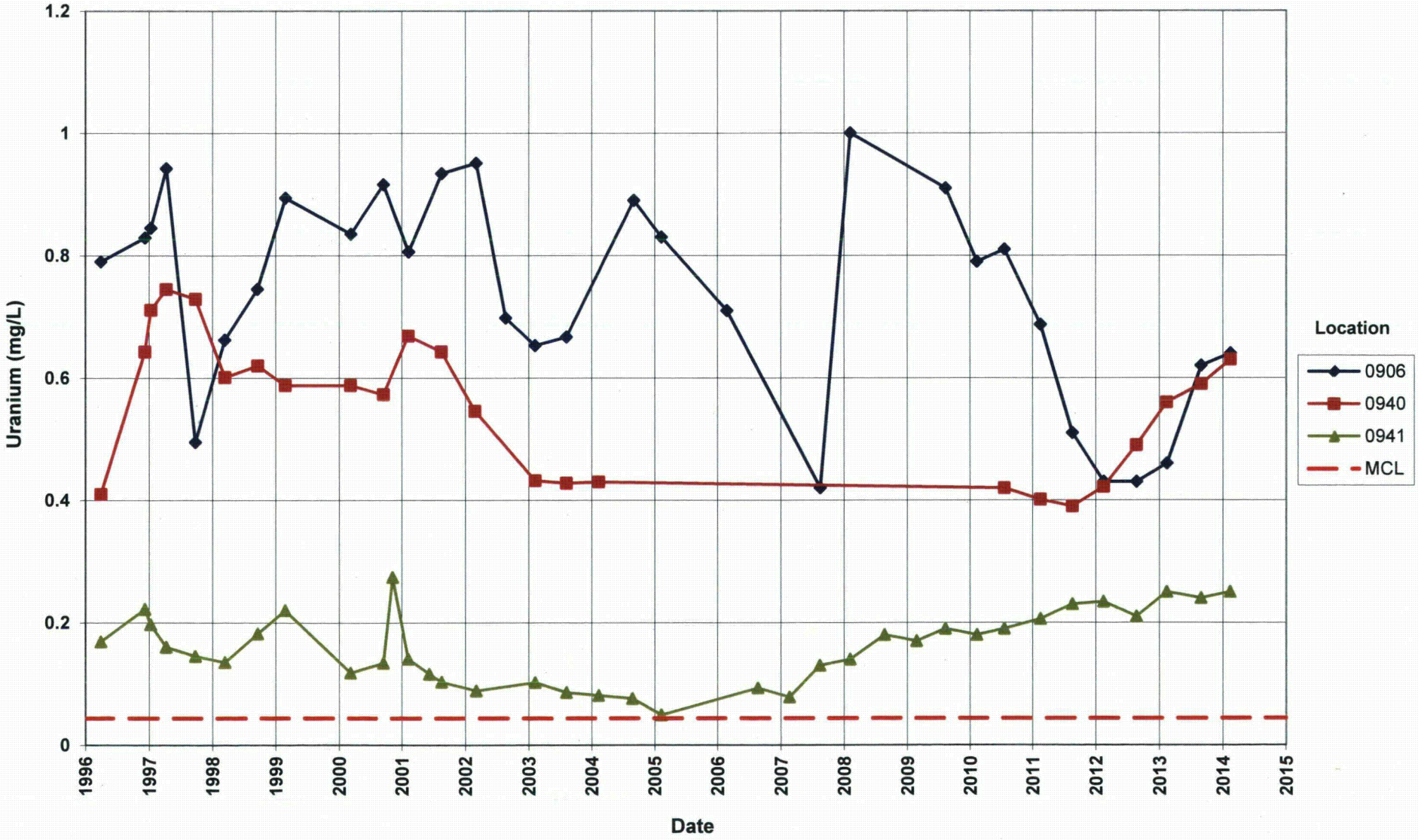



Tuba City Disposal Site
Horizon A Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L
Sulfate (mg/L)
12000
10000
8000
6000
4000
2000
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0906
0940
0941
CL

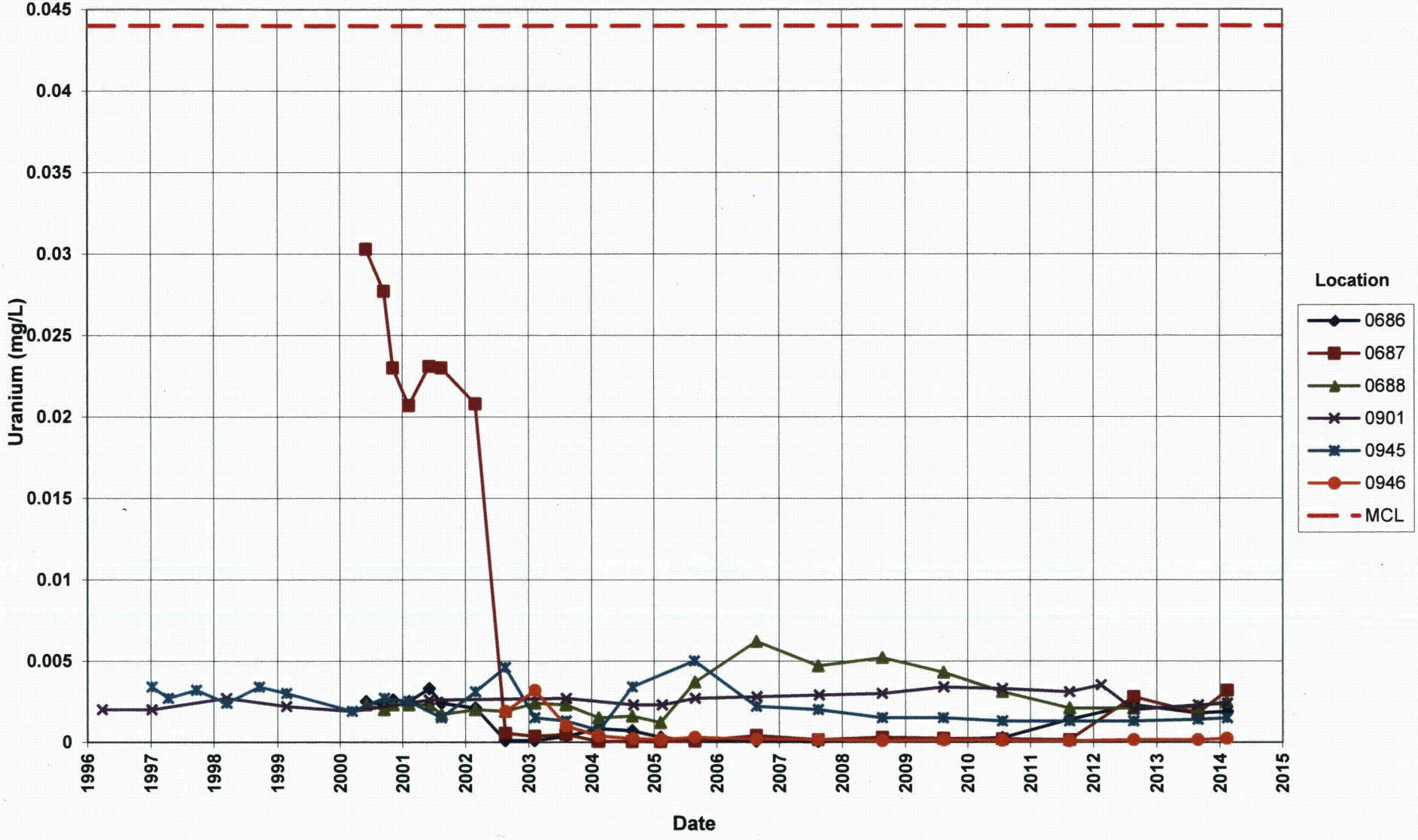
Tuba City Disposal Site
Horizon A Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L



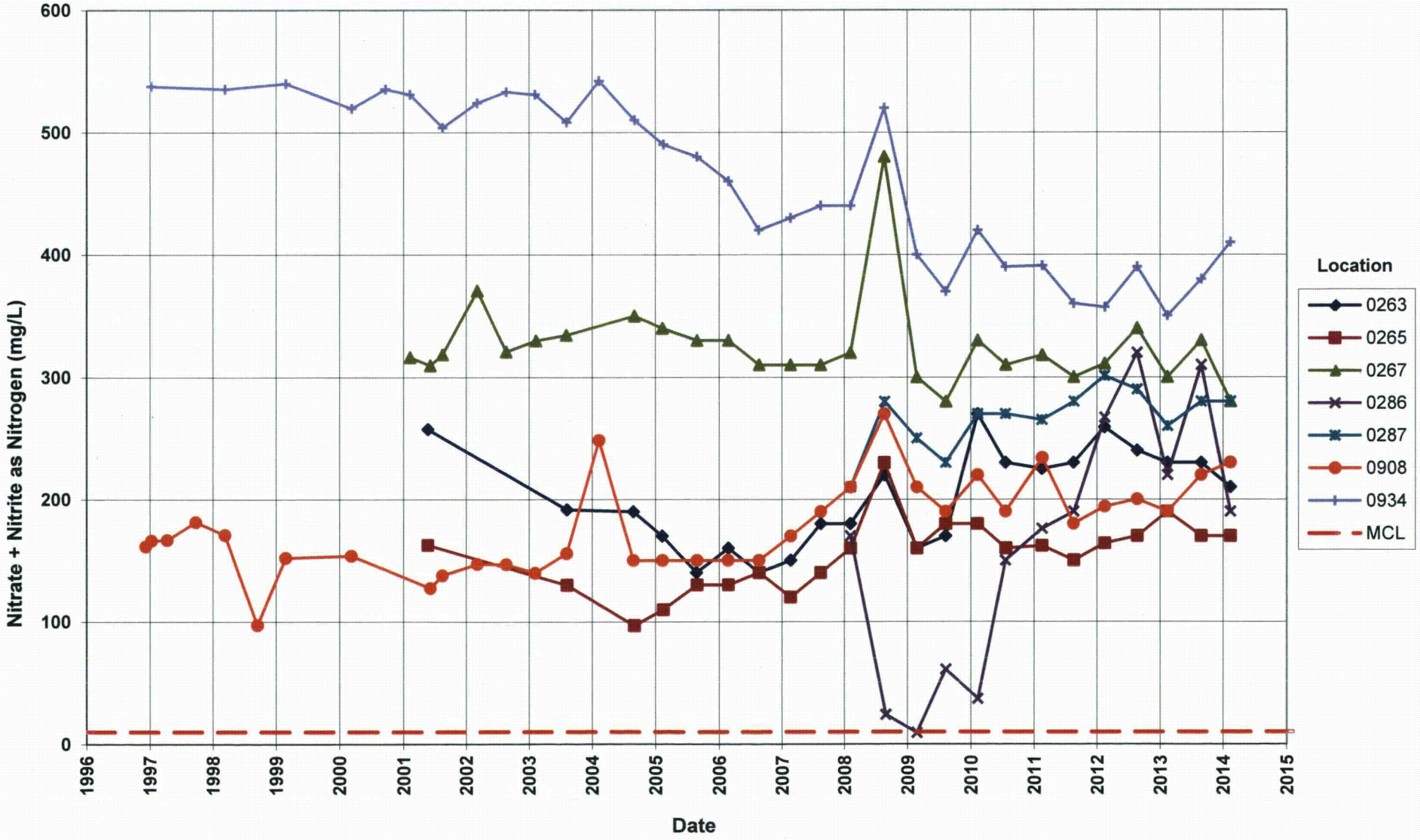
Tuba City Disposal Site
Horizon A Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L



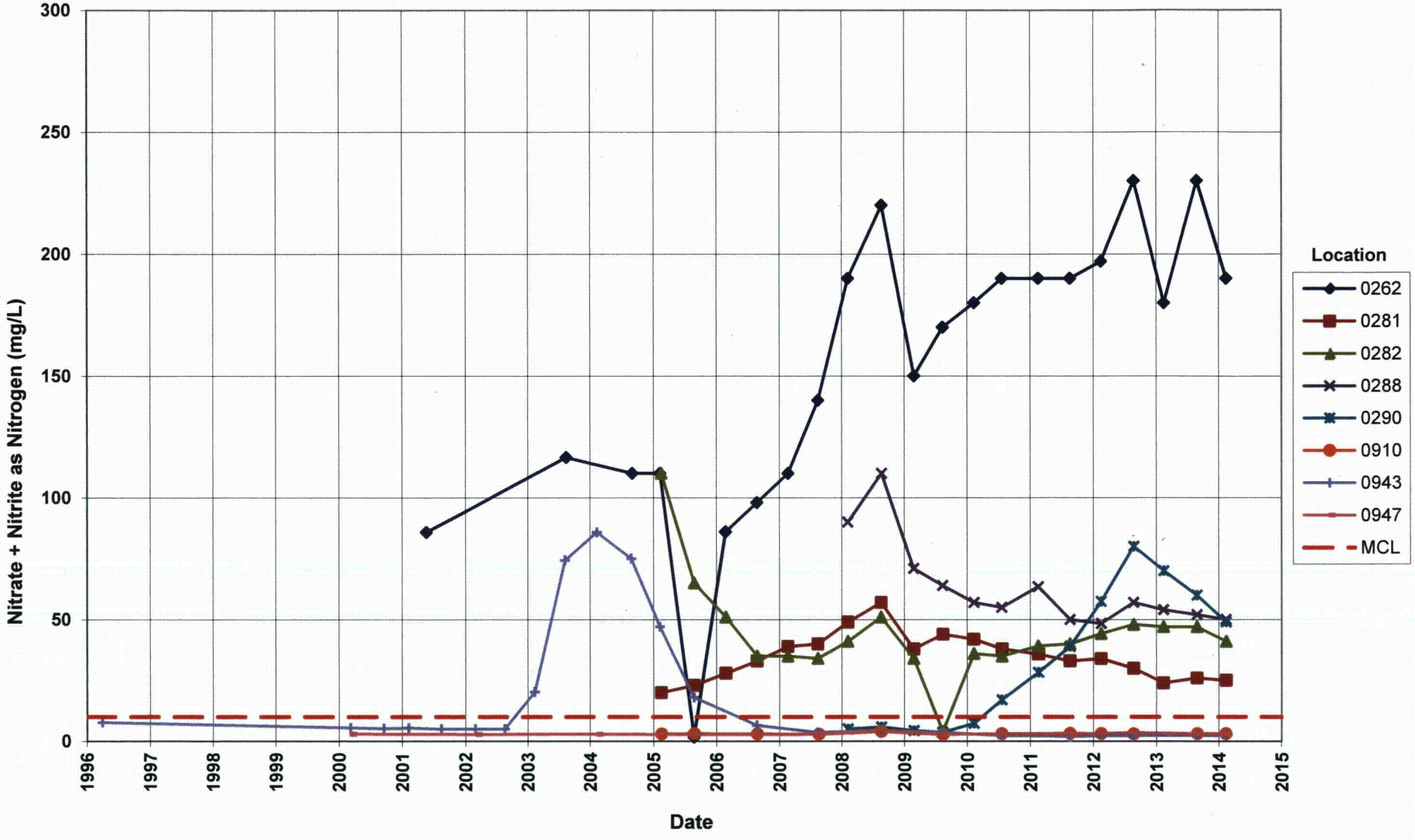
Tuba City Disposal Site
Horizon A Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L



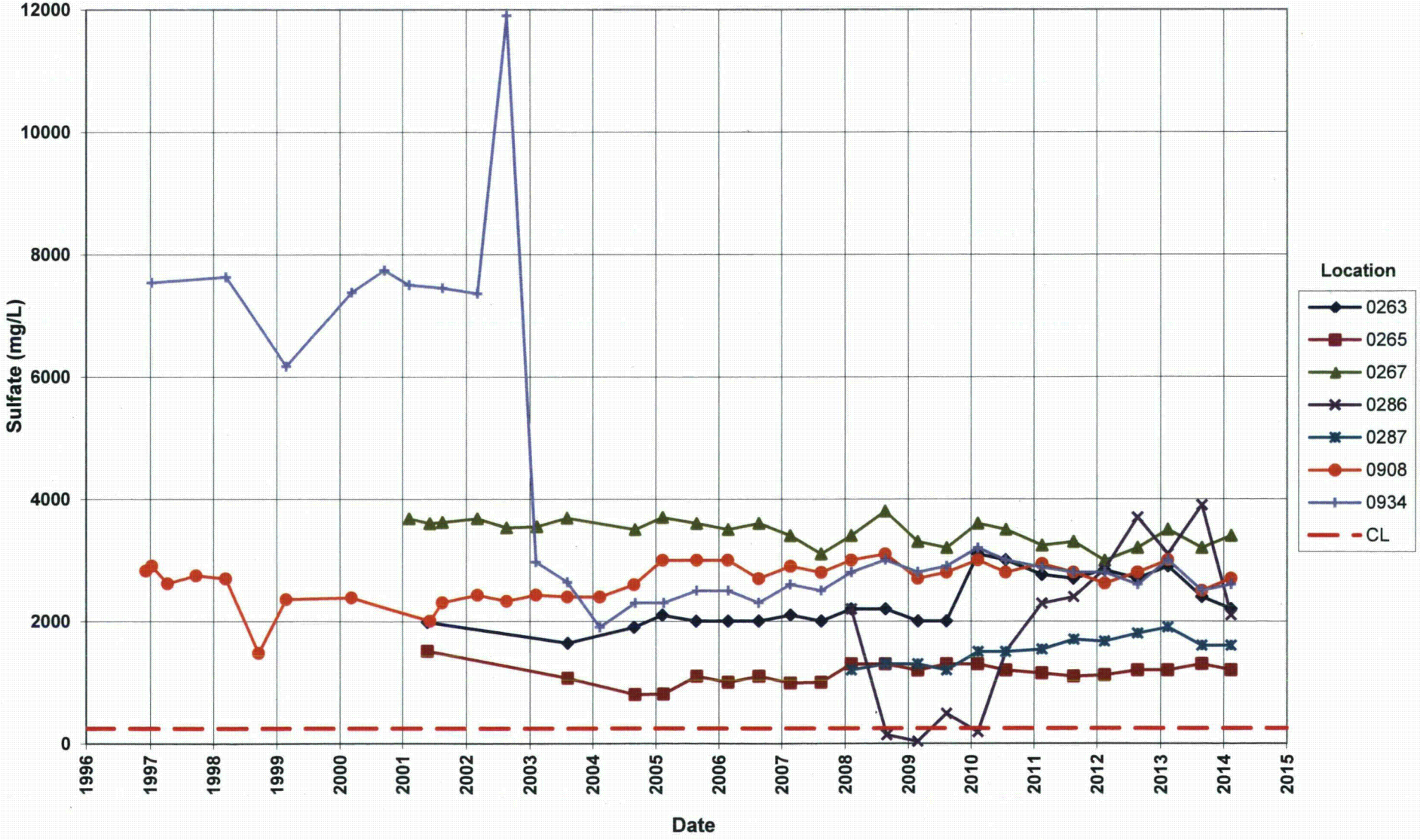
Tuba City Disposal Site
Horizon B Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L



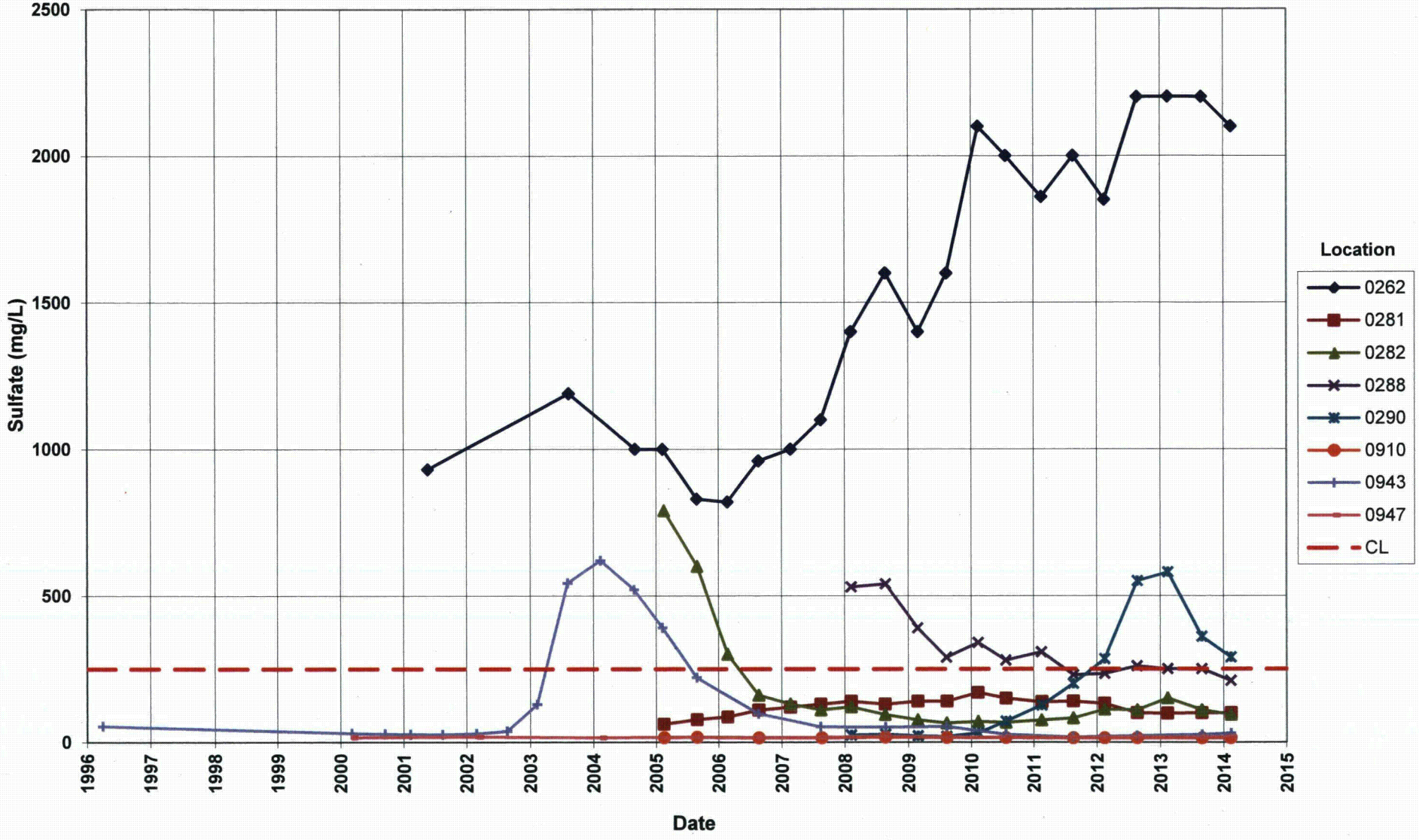
Tuba City Disposal Site
Horizon B Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L

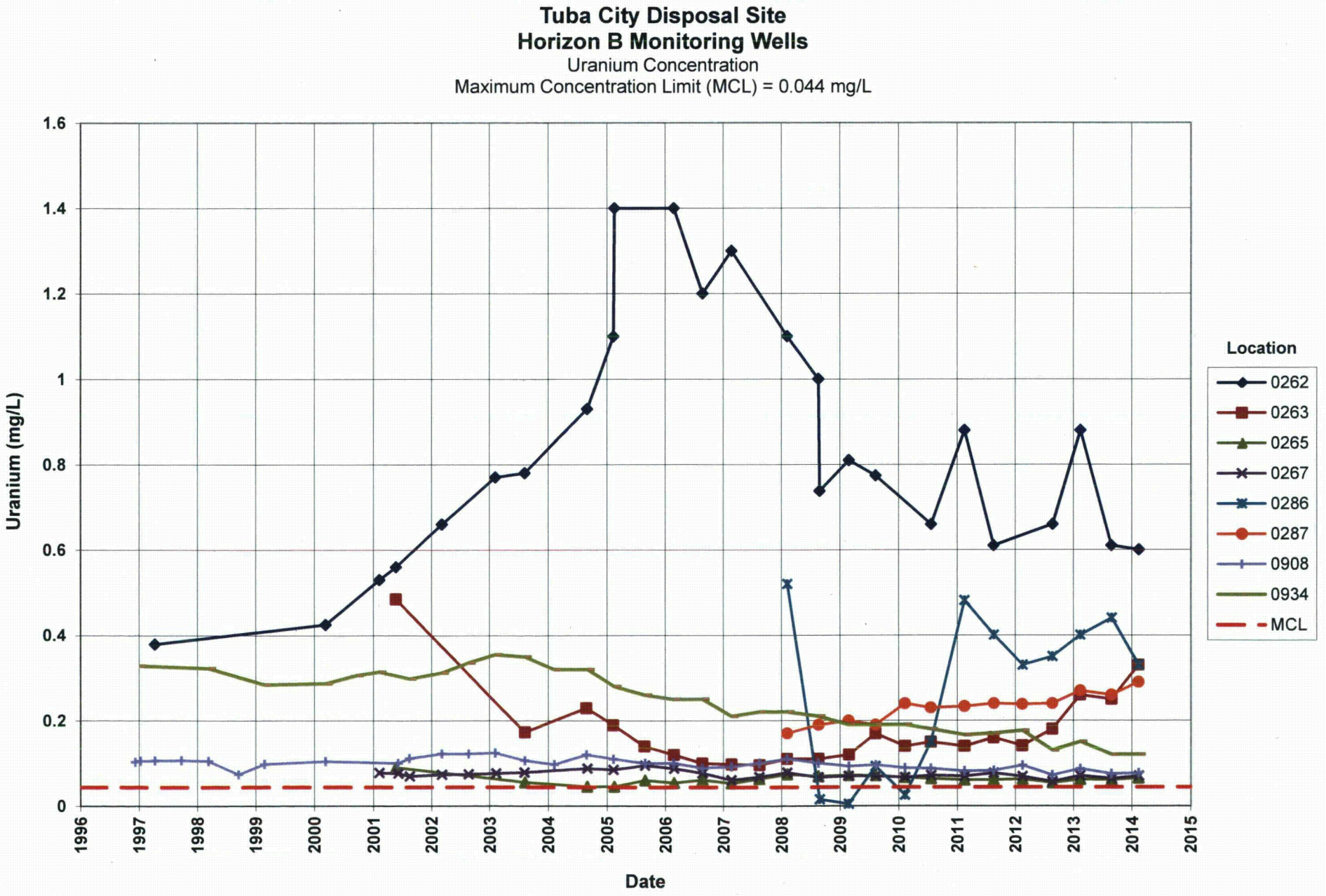


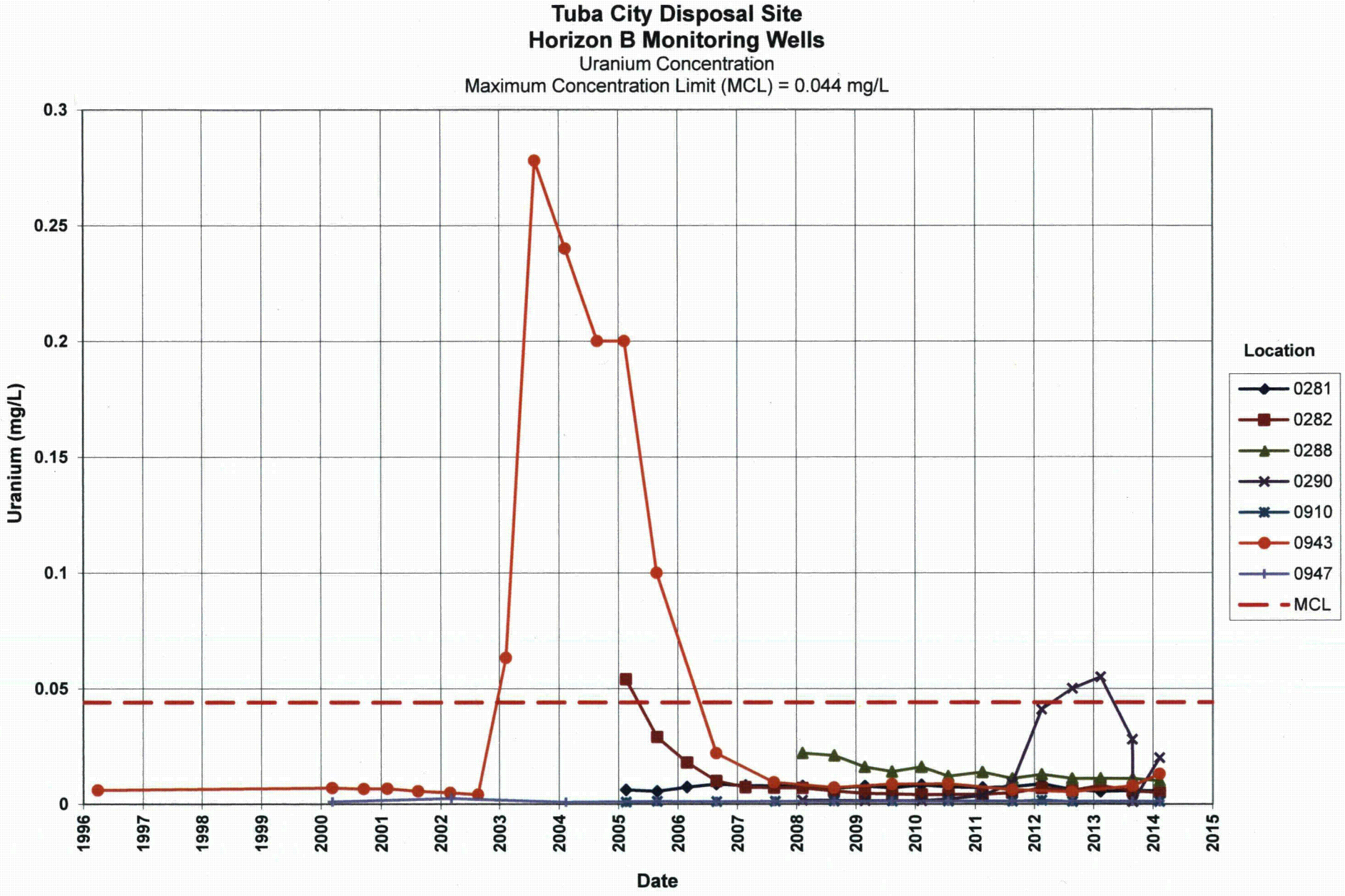
Tuba City Disposal Site
Horizon B Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L

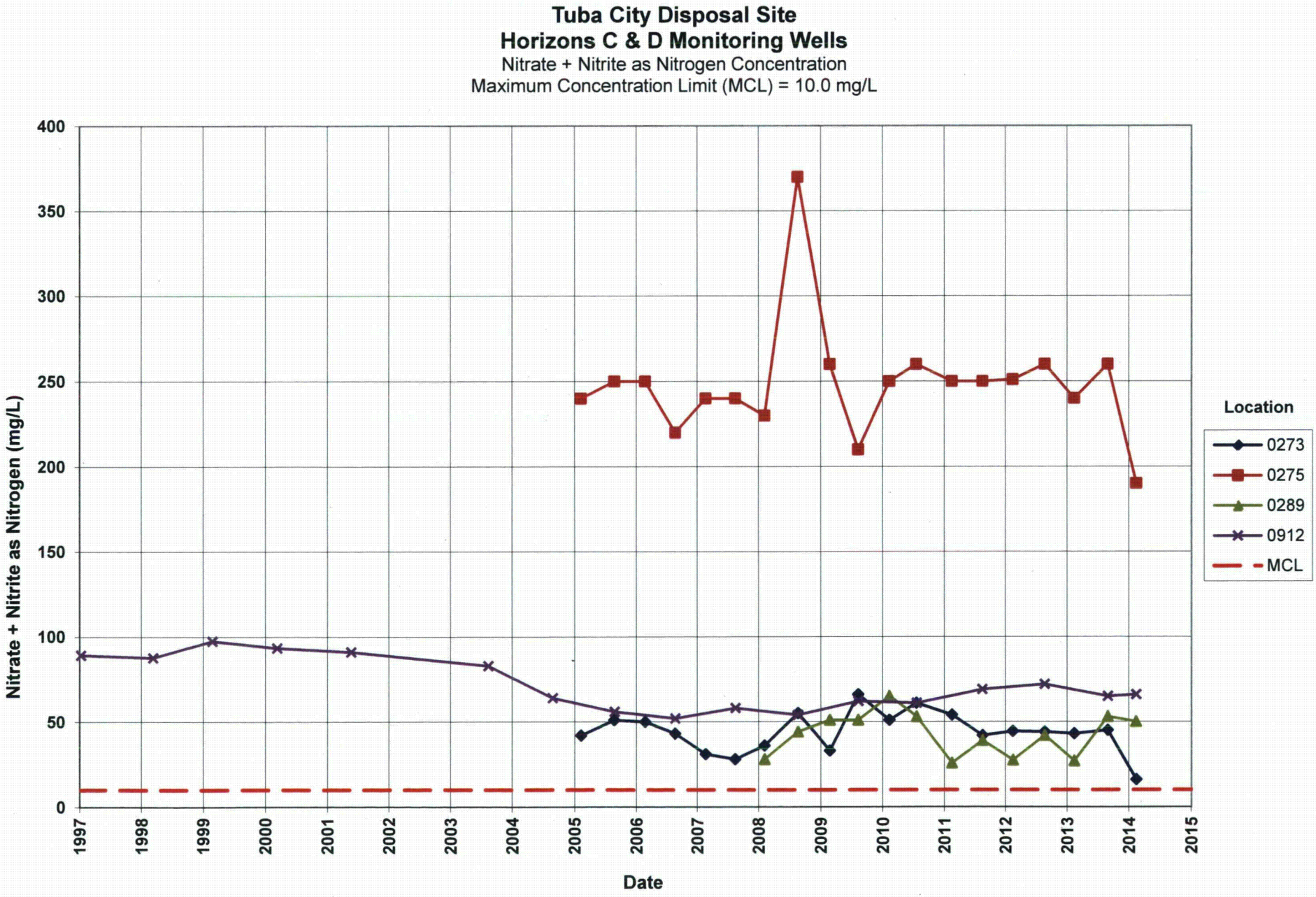


Tuba City Disposal Site
Horizon B Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L

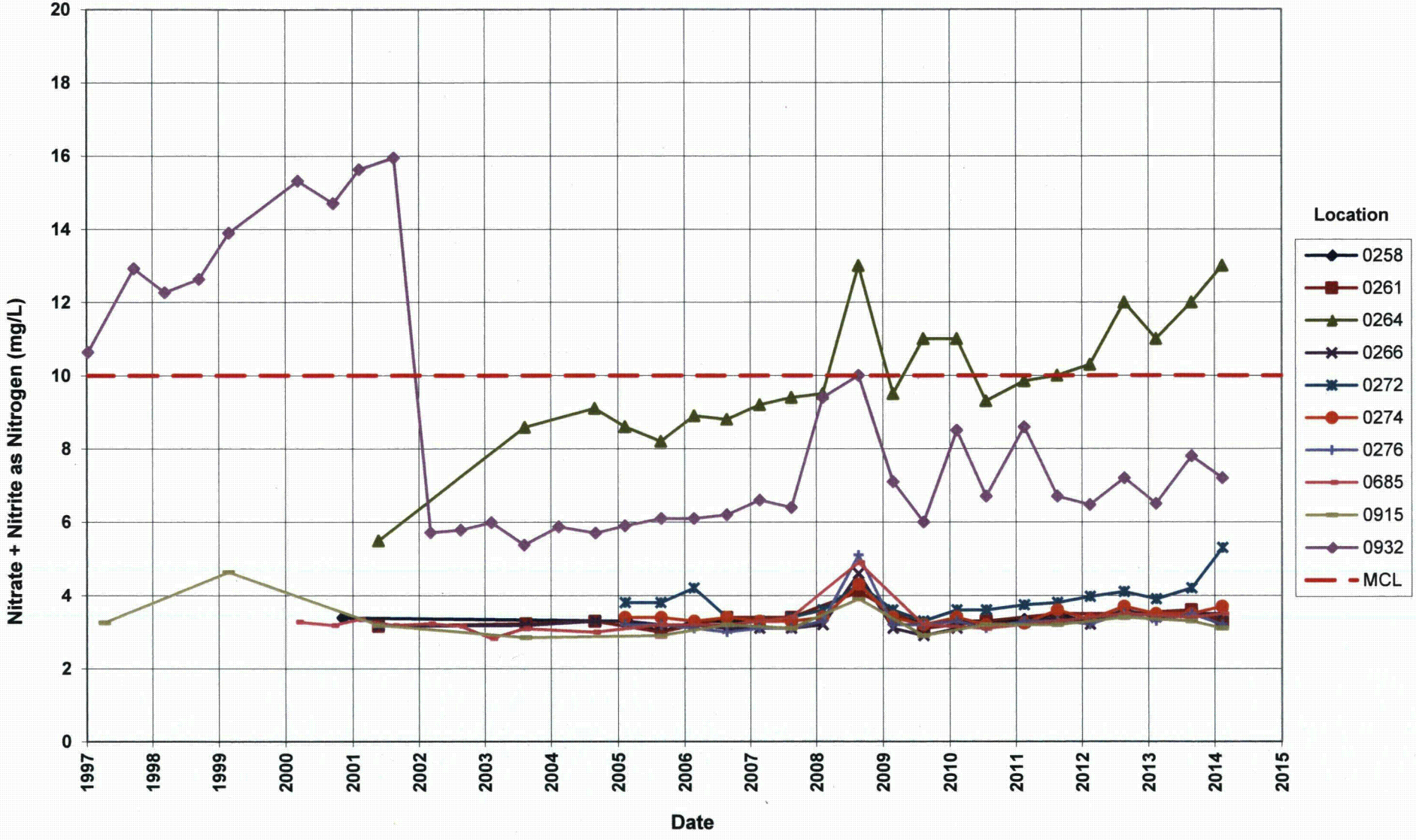



Tuba City Disposal Site
Horizon B Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L
Uranium (mg/L)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0262
0263
0265
0267
0286
0287
0908
0934
MCL

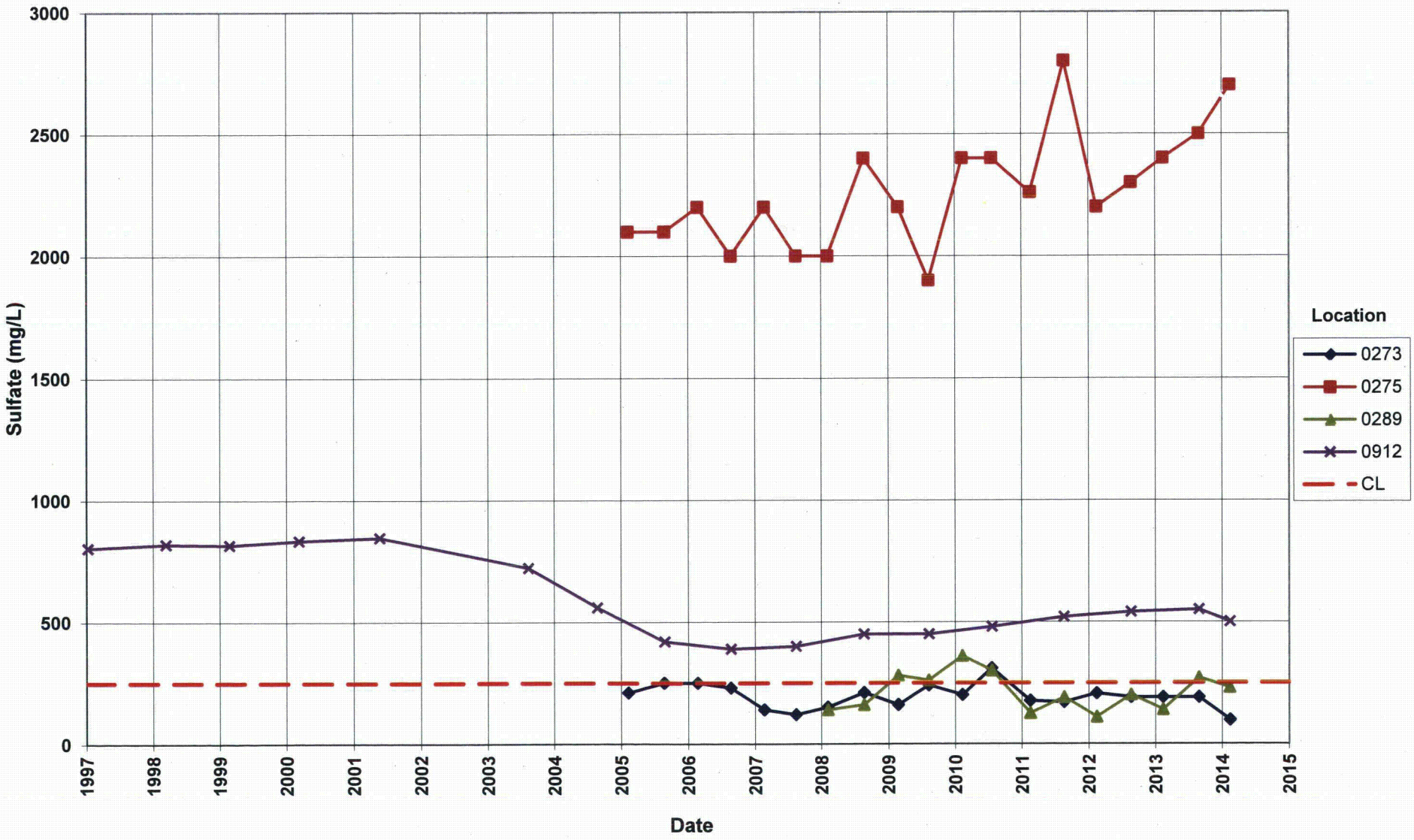

Tuba City Disposal Site
Horizon B Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L
Uranium (mg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0281
0282
0288
0290
0910
0943
0947
MCL


Tuba City Disposal Site
Horizons C & D Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
400
350
300
250
200
150
100
50
0
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0273
0275
0289
0912
MCL

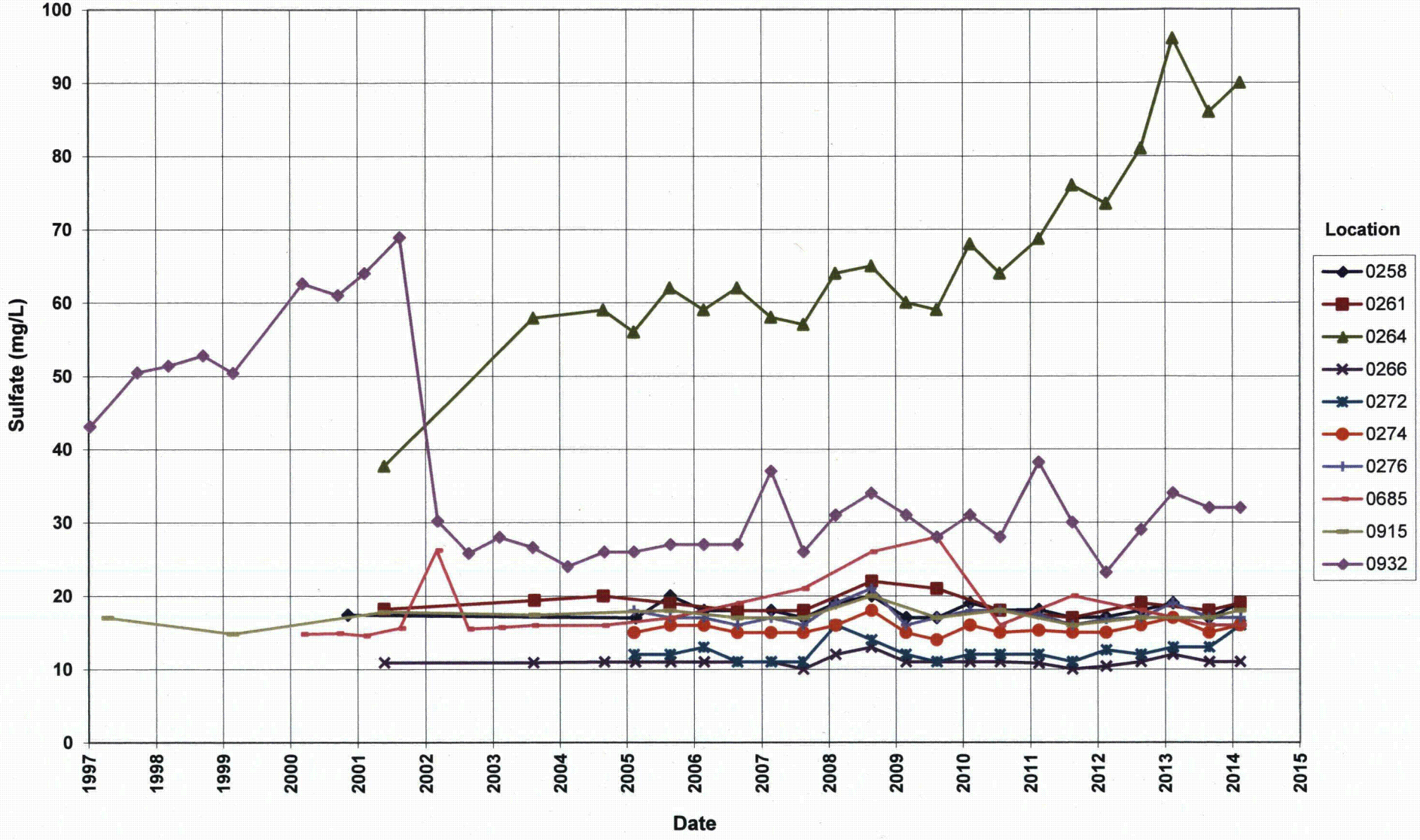
Tuba City Disposal Site
Horizons C & D Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L



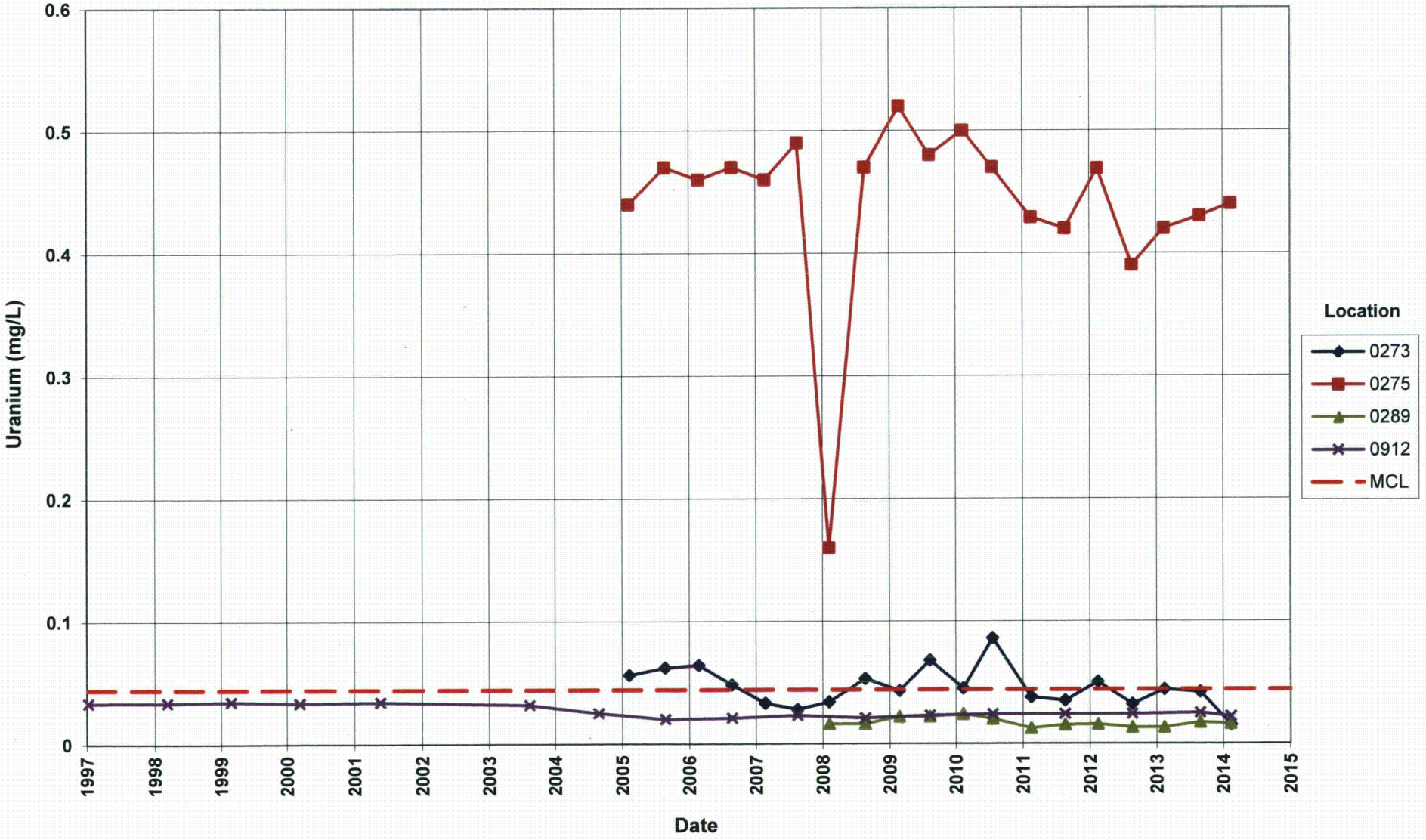
Tuba City Disposal Site
Horizons C & D Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L



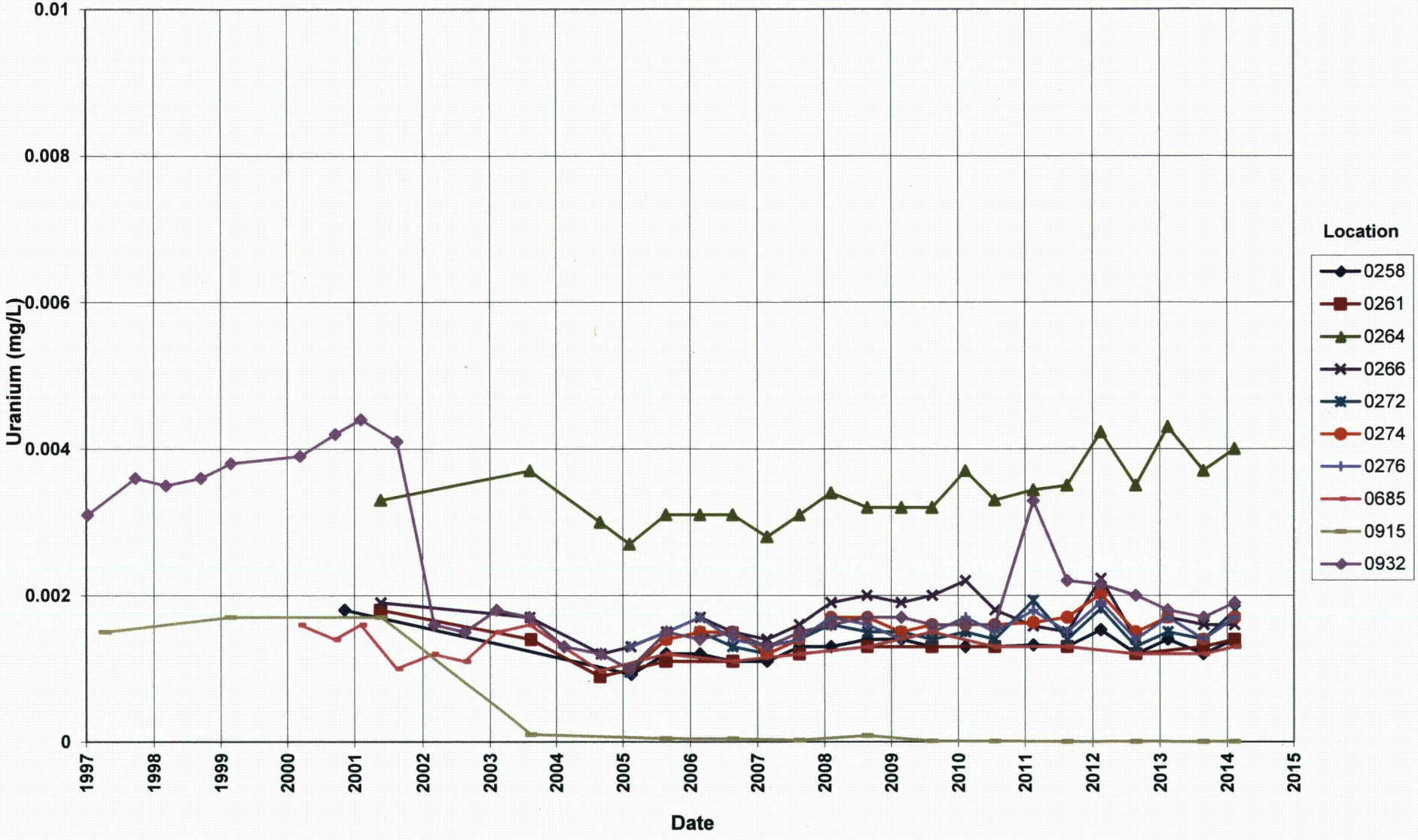
Tuba City Disposal Site
Horizons C & D Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L

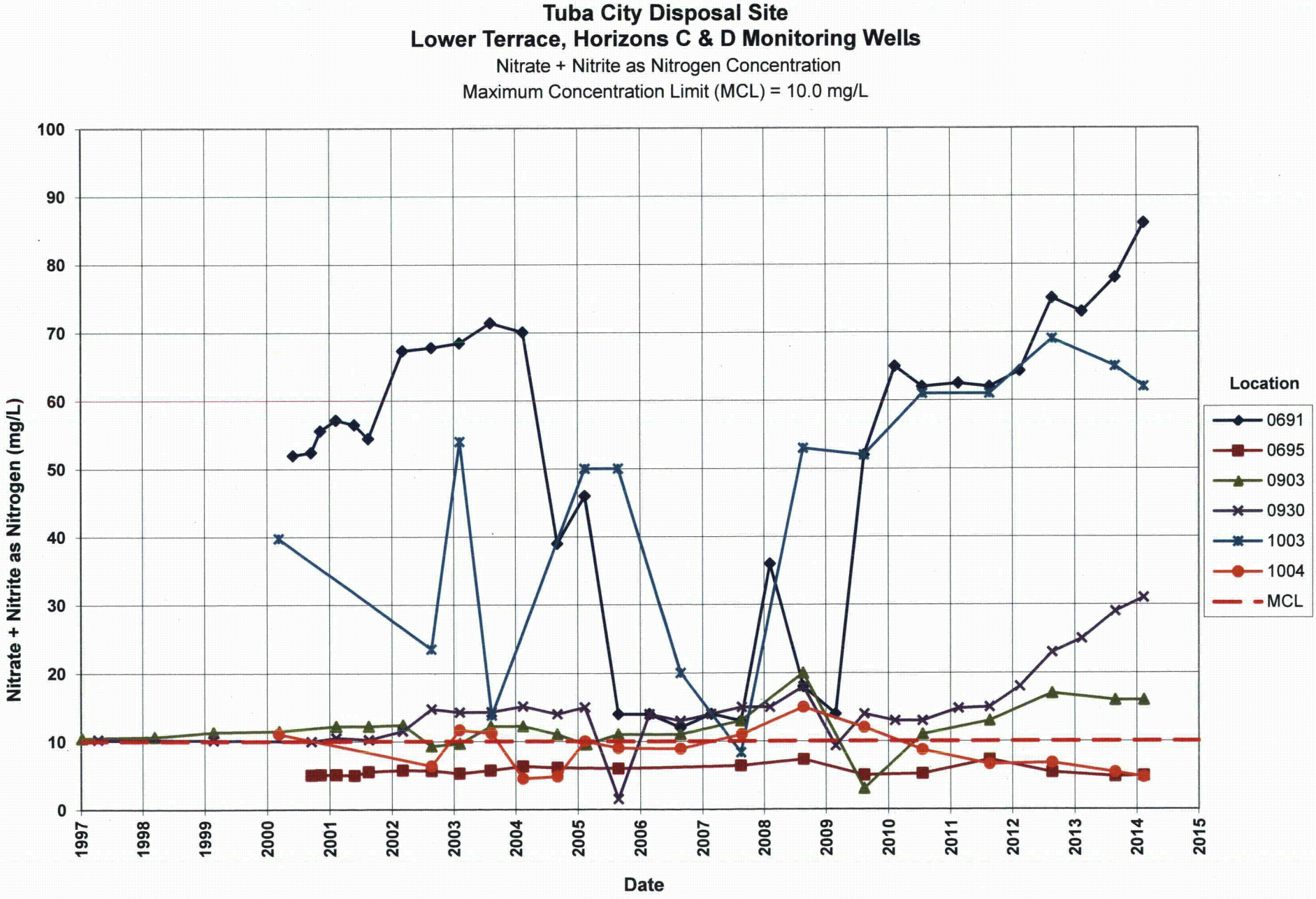


Tuba City Disposal Site
Horizons C & D Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L

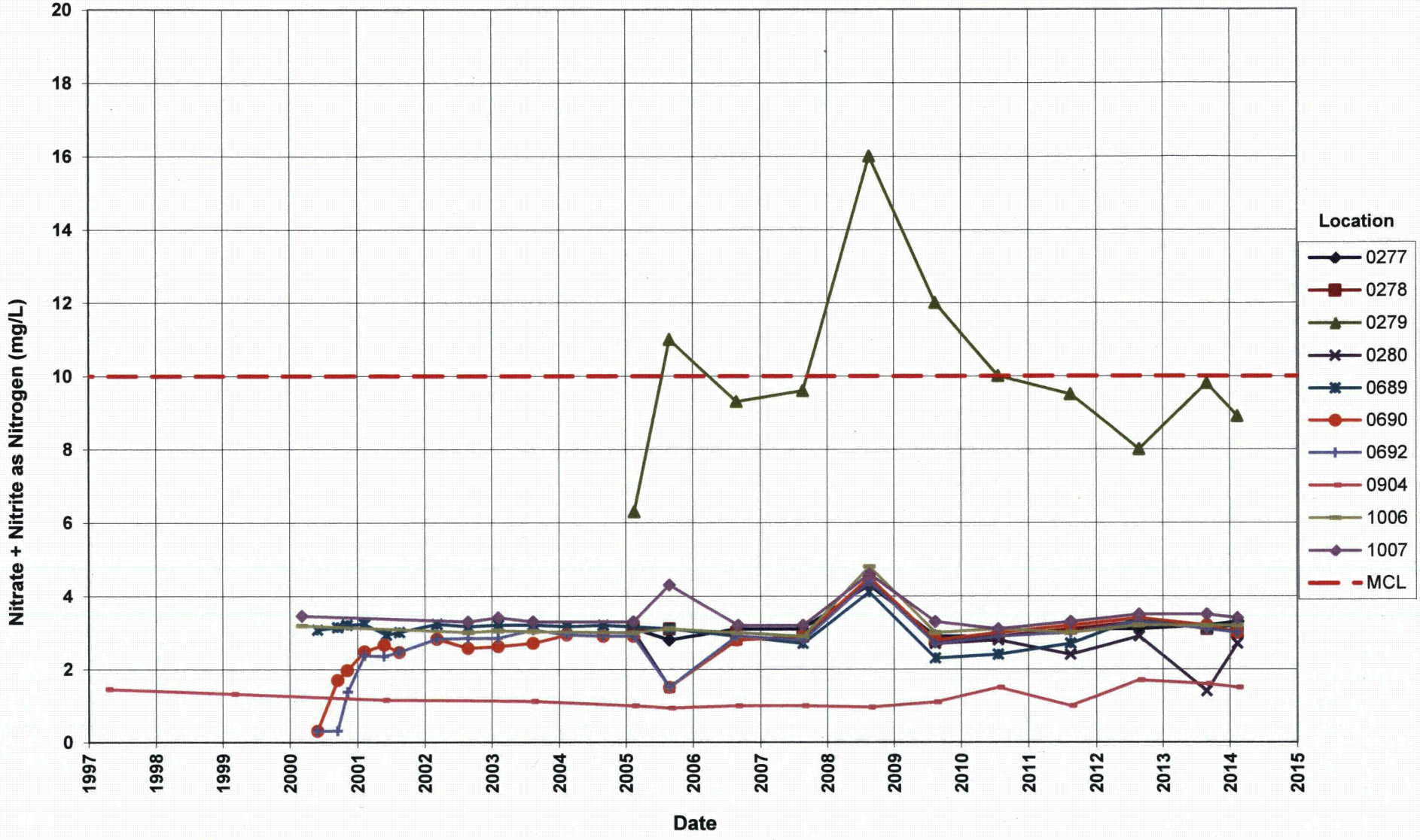


Tuba City Disposal Site
Horizons C & D Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L




Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
Date
Location
0691
0695
0903
0930
1003
1004
MCL
0
10
20
30
40
50
60
70
80
90
100
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015

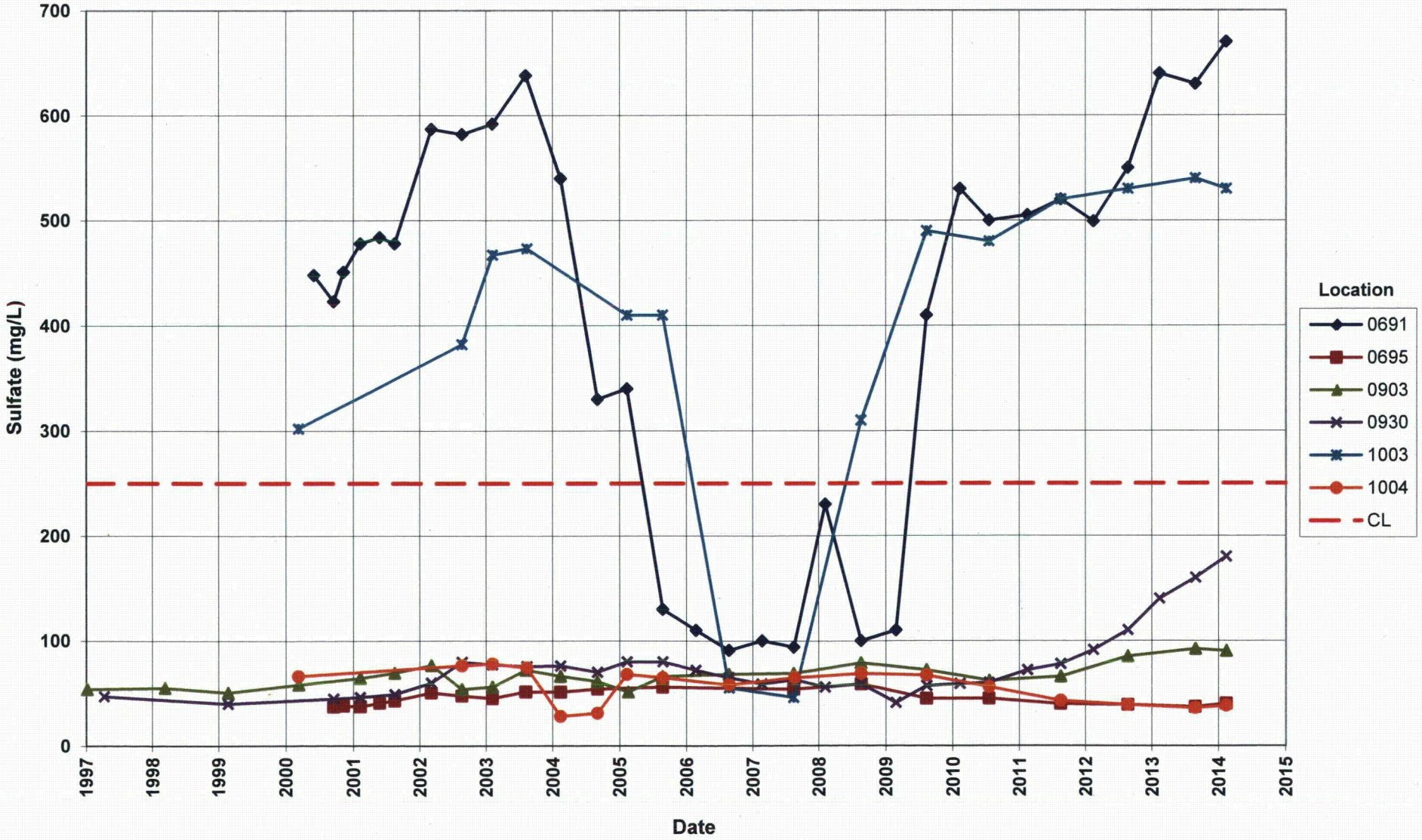
Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L



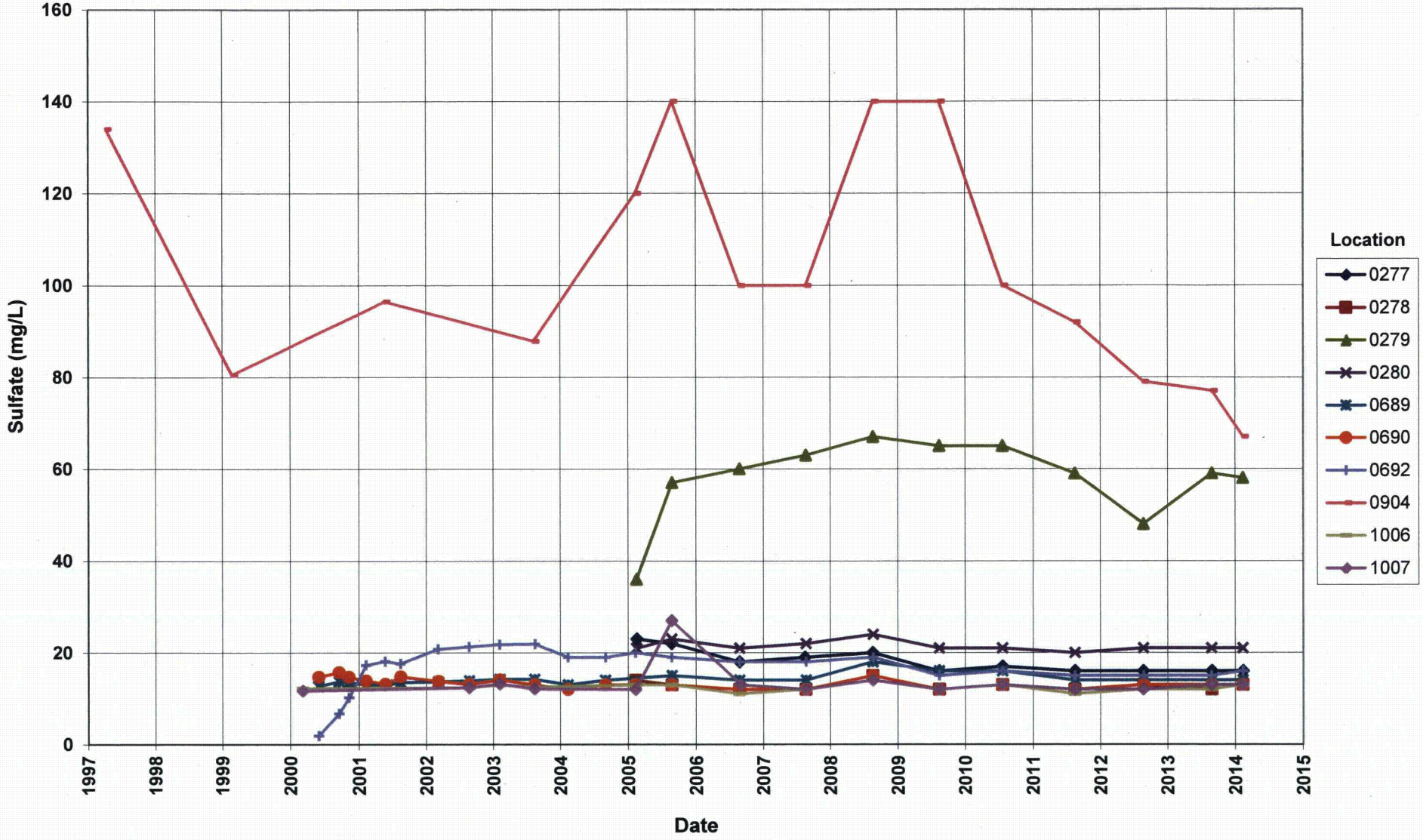
Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells

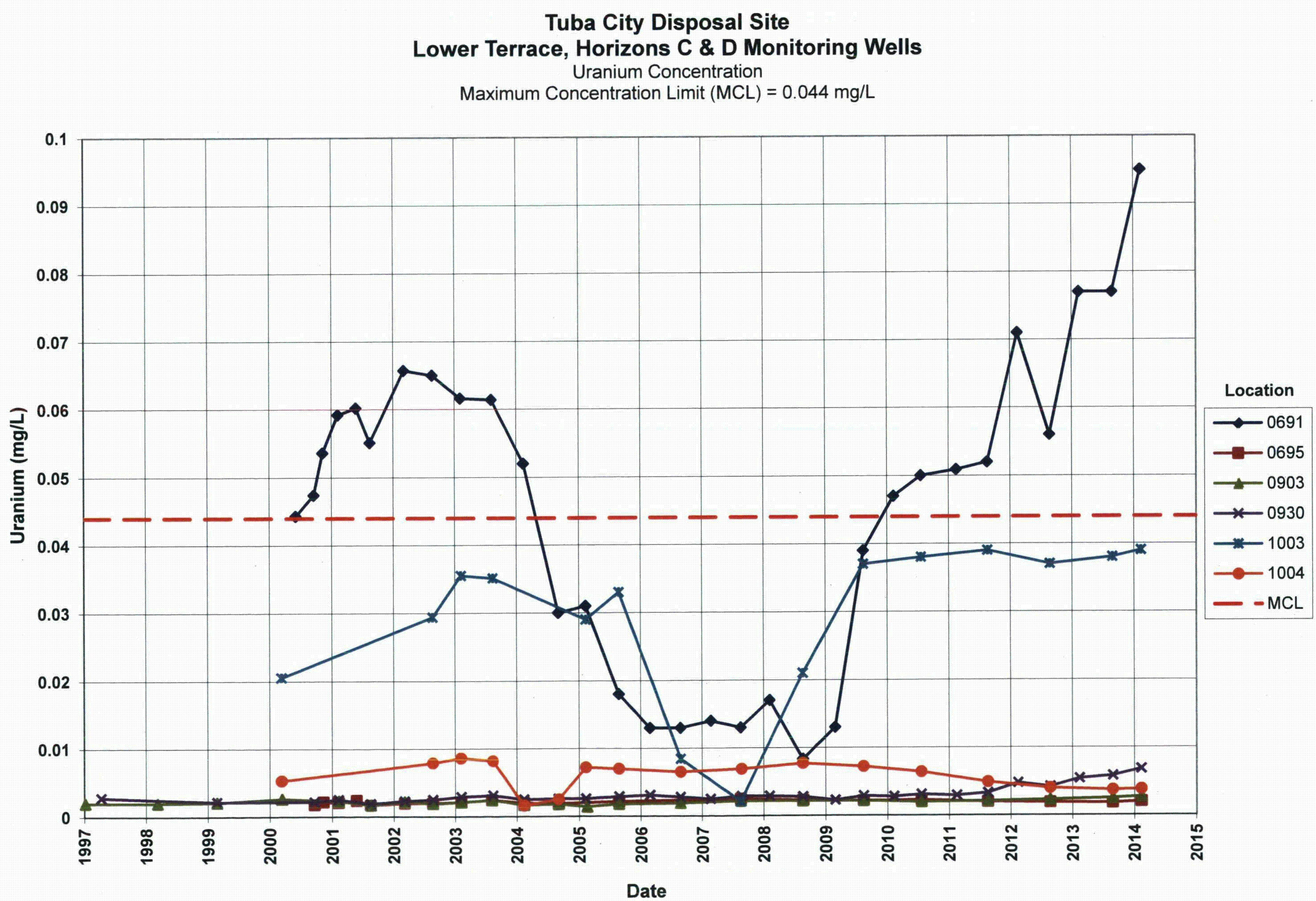
Sulfate Concentration

Cleanup Level (CL) = 250 mg/L



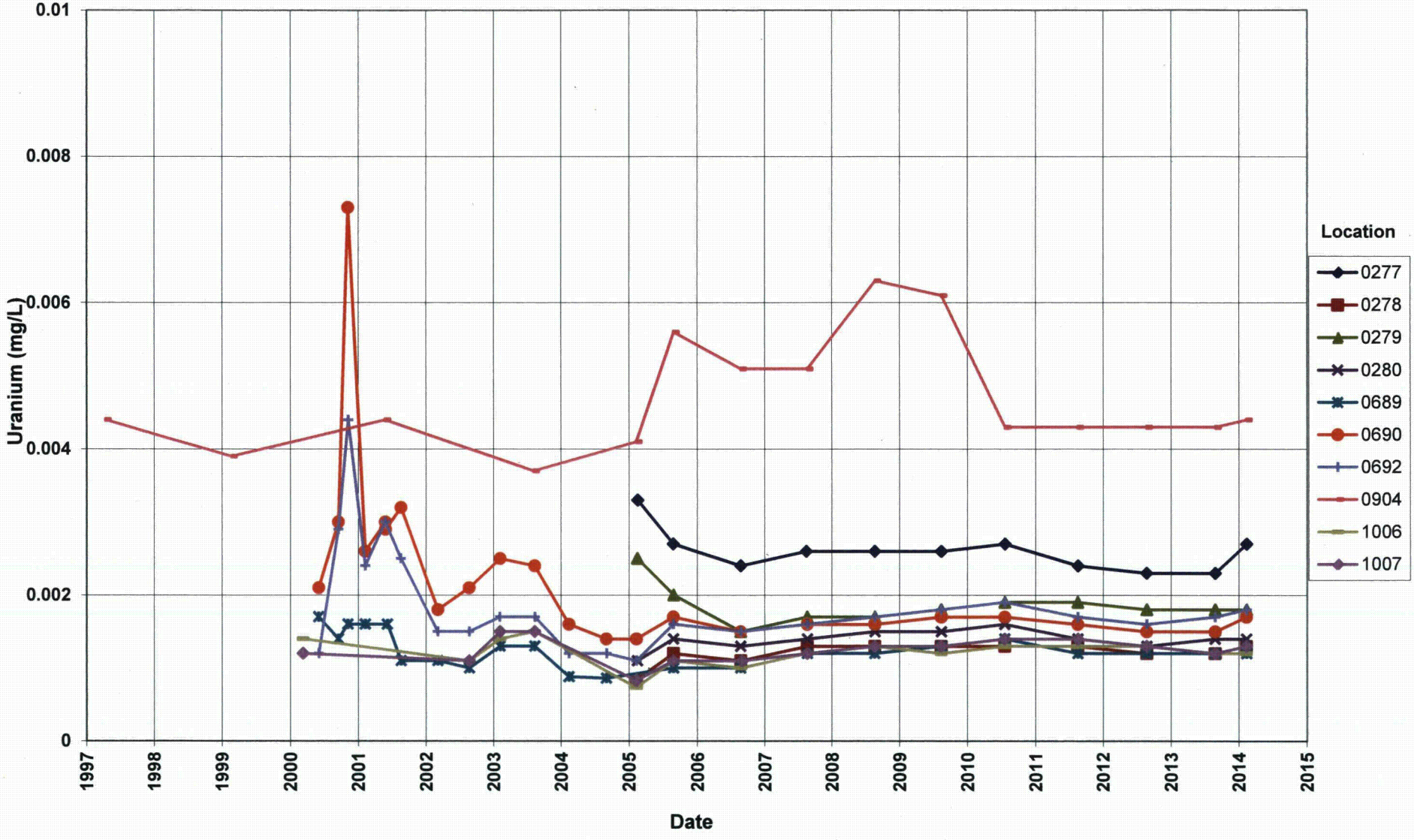
Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L

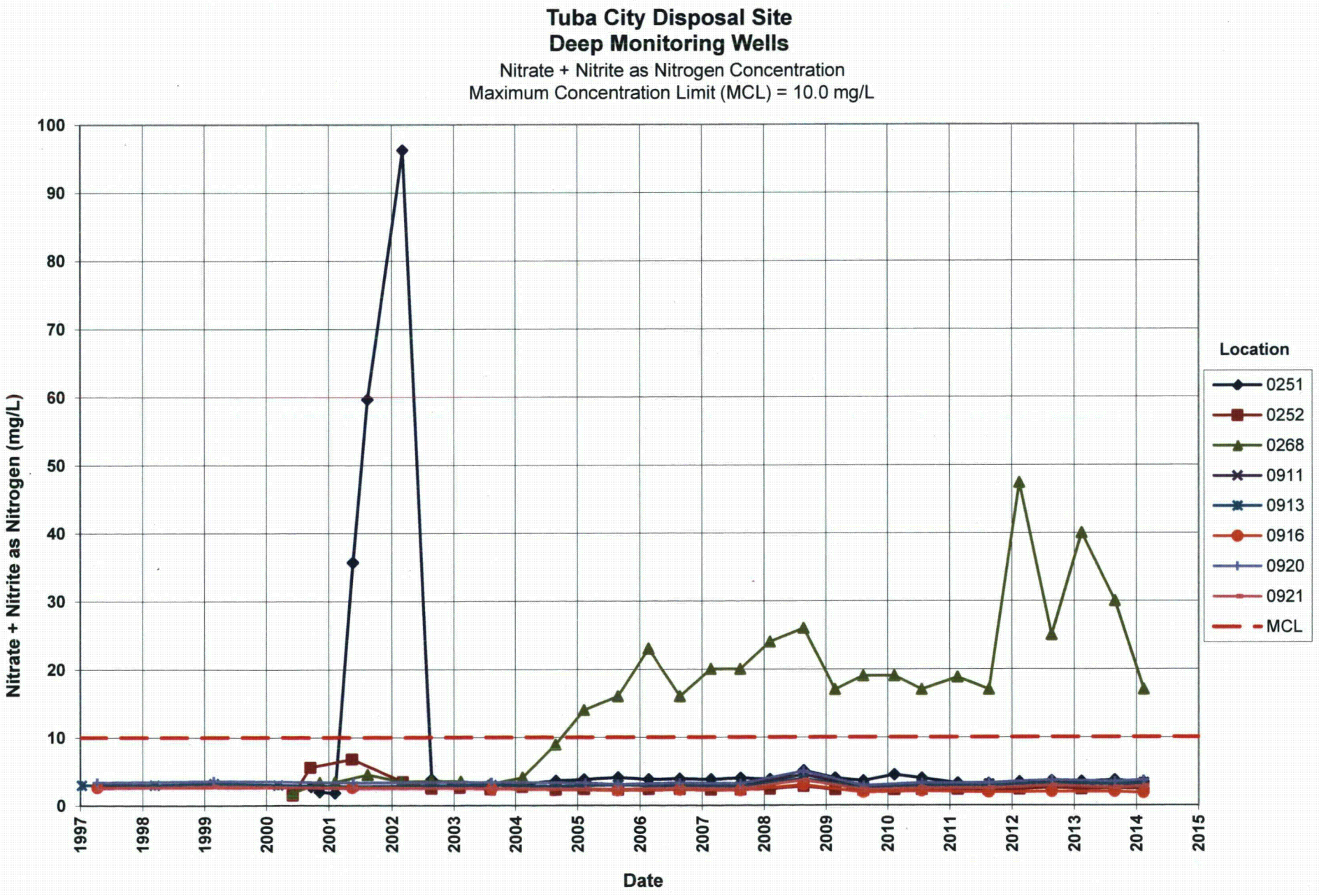




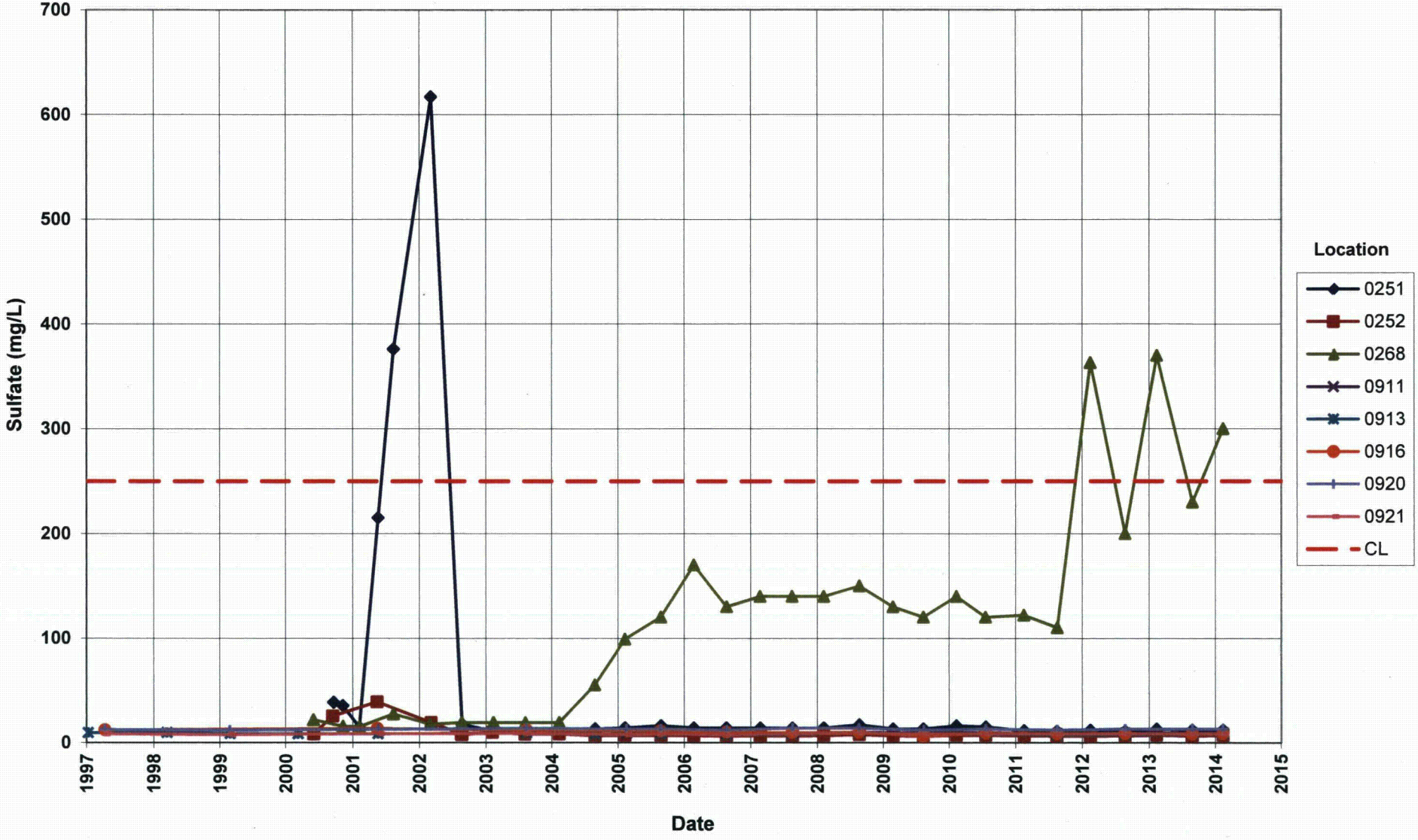
Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L
Uranium (mg/L)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0691
0695
0903
0930
1003
1004
MCL

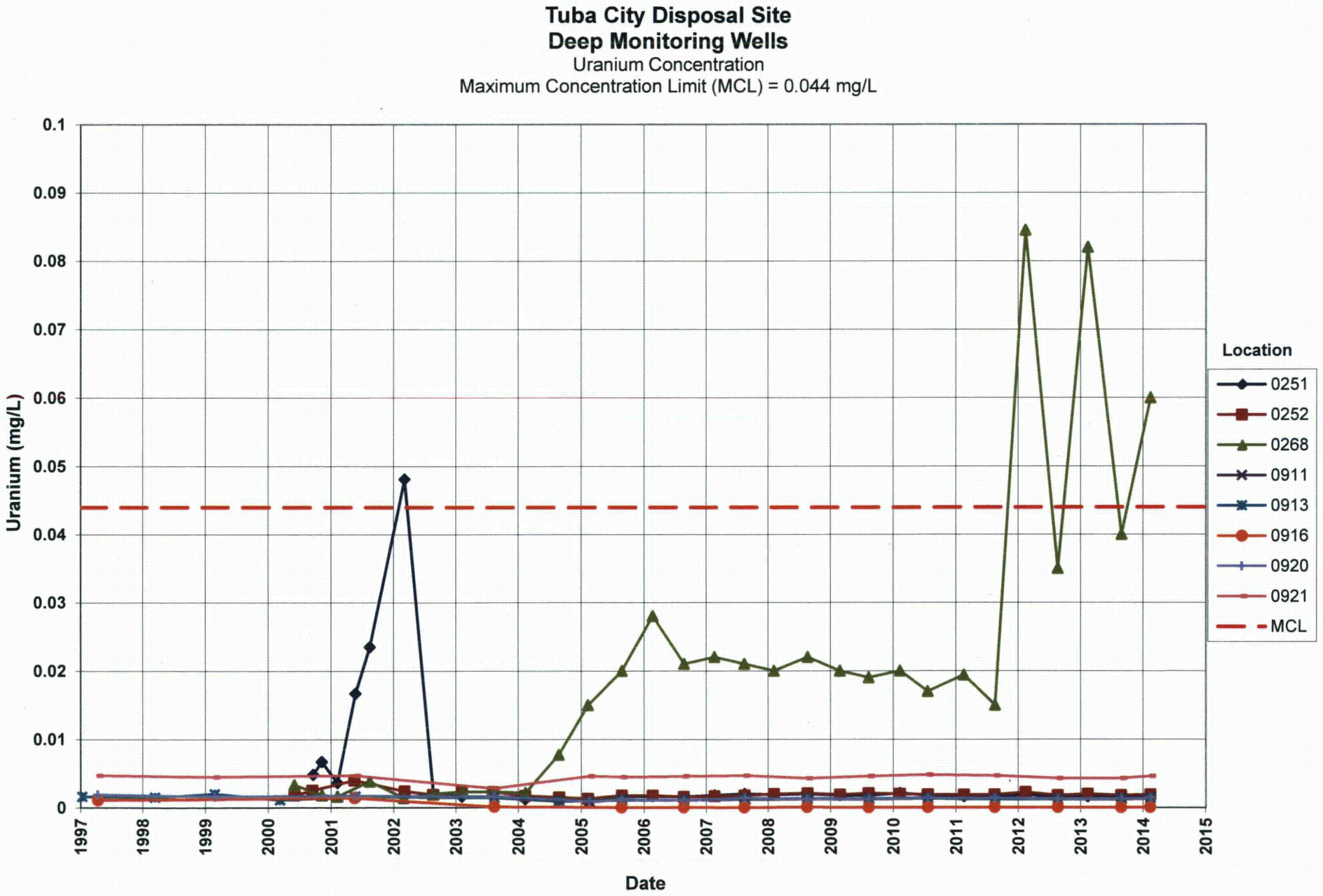
Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L

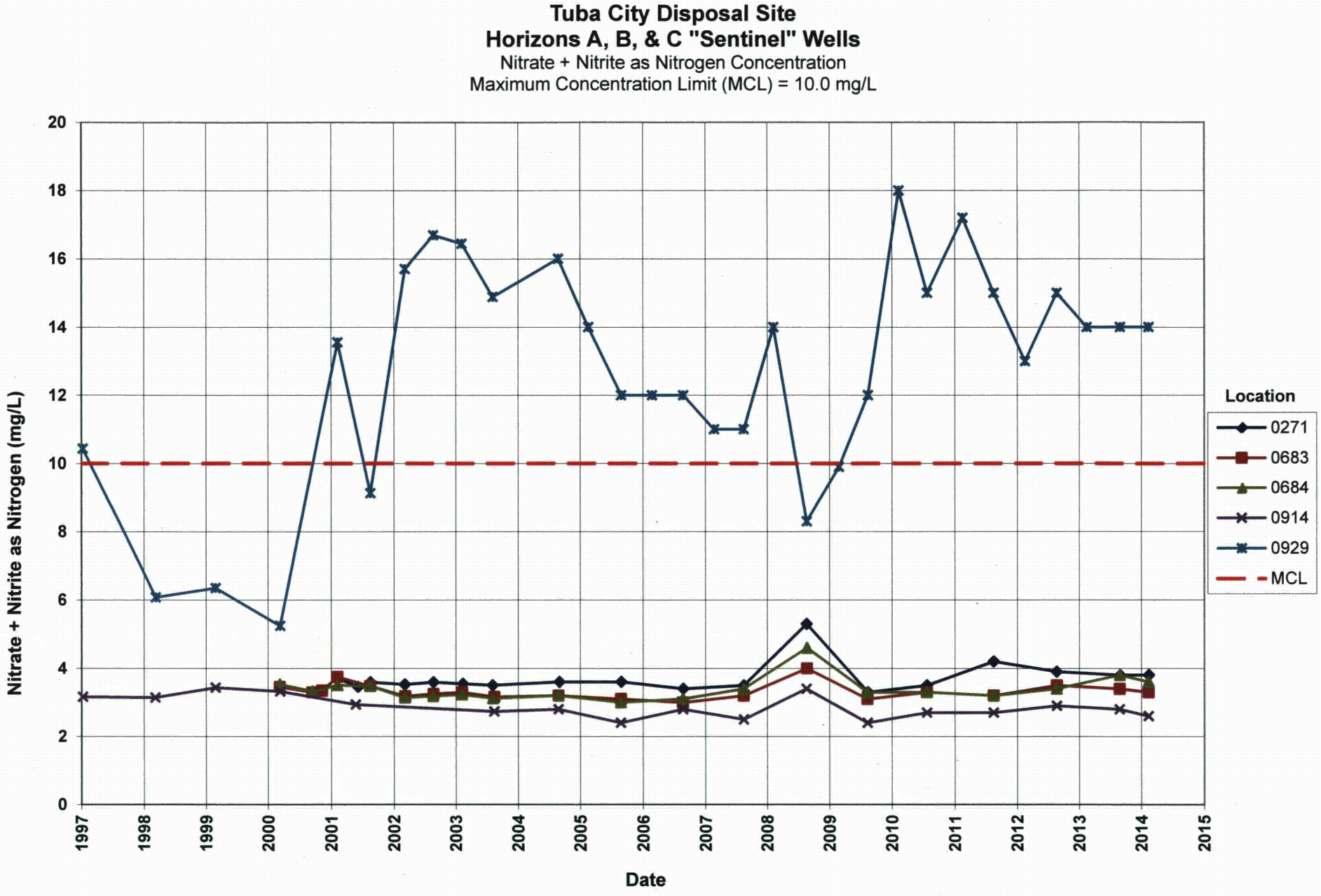


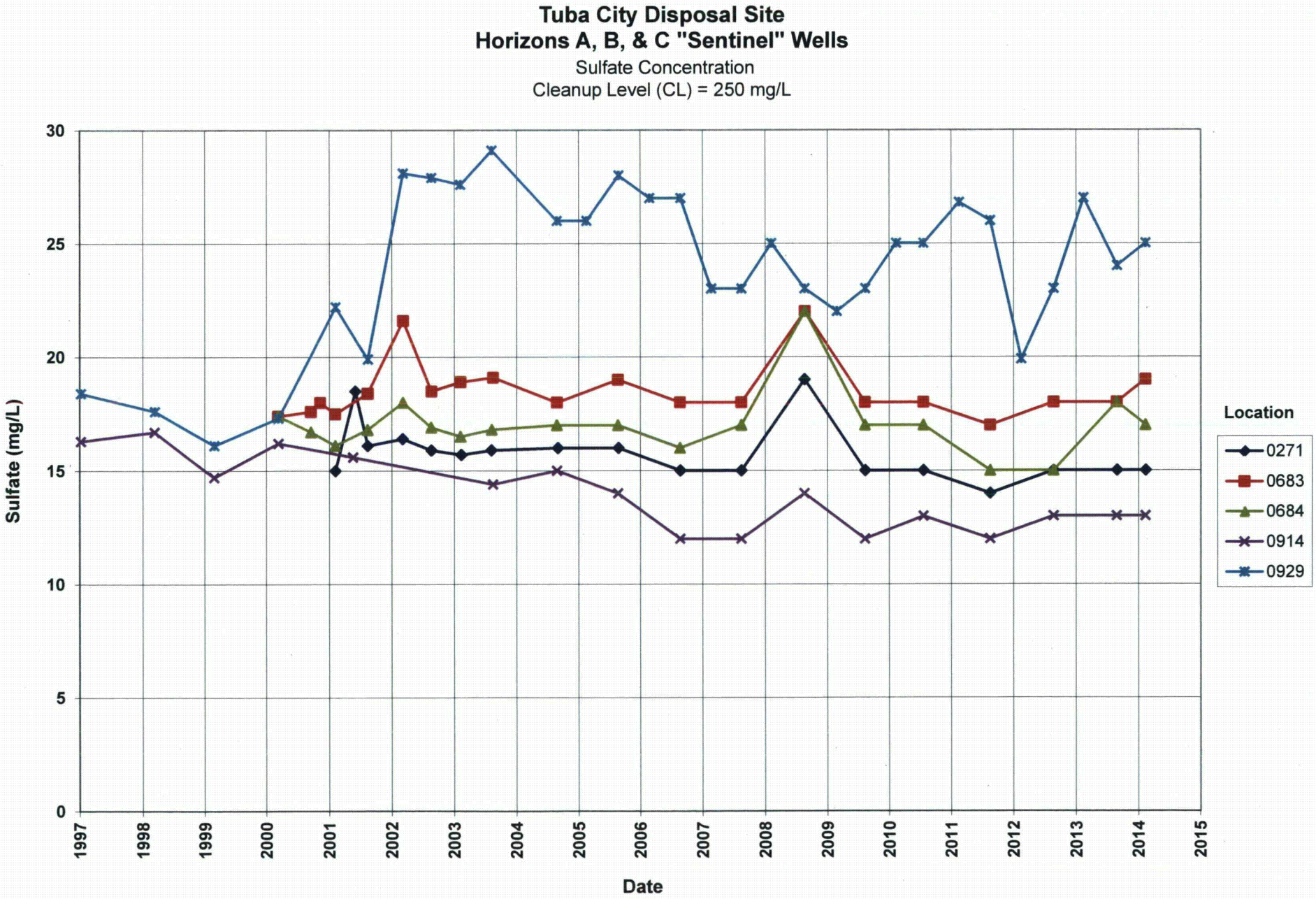

Tuba City Disposal Site
Deep Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
100
90
80
70
60
50
40
30
20
10
0
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0251
0252
0268
0911
0913
0916
0920
0921
MCL

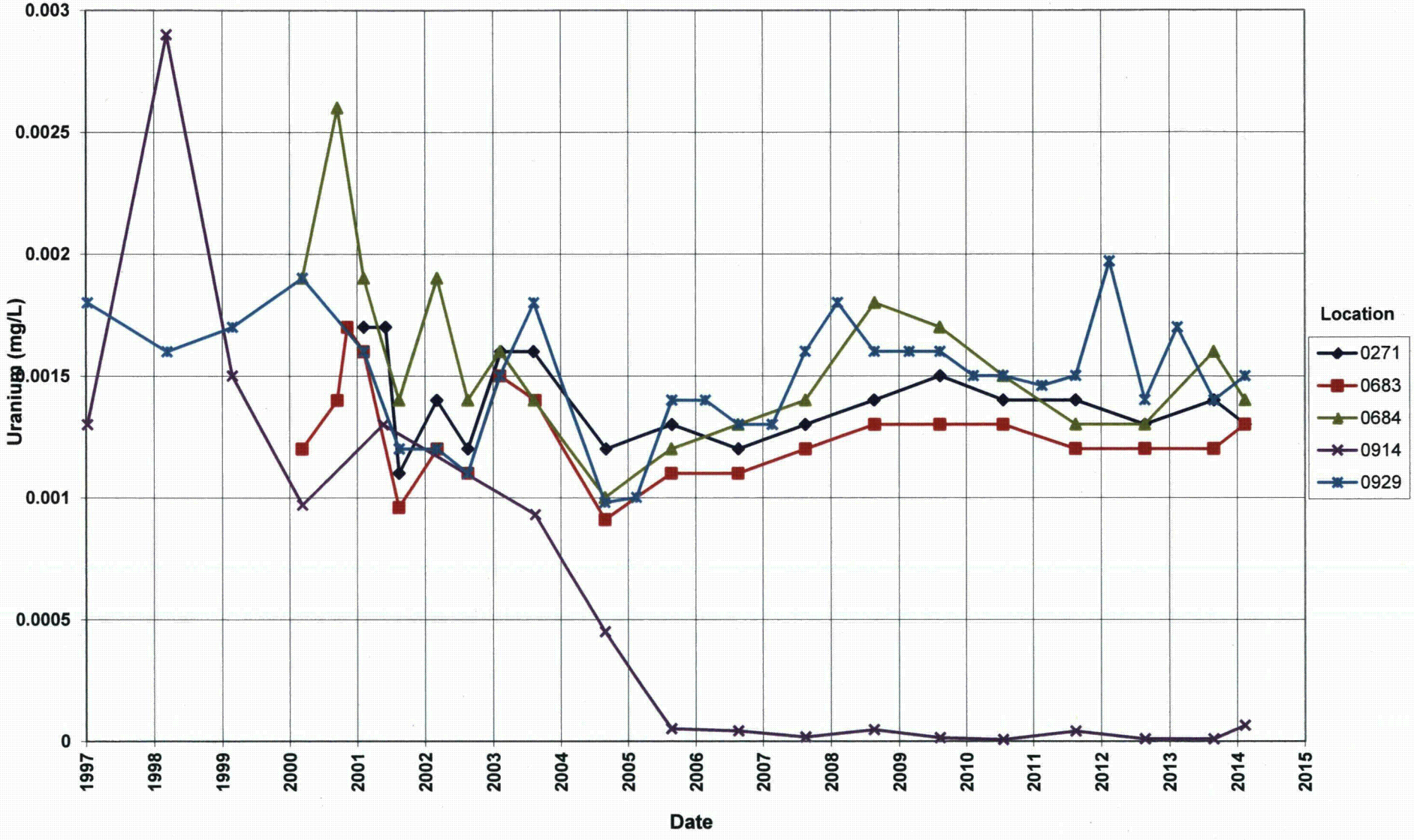
Tuba City Disposal Site
Deep Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L

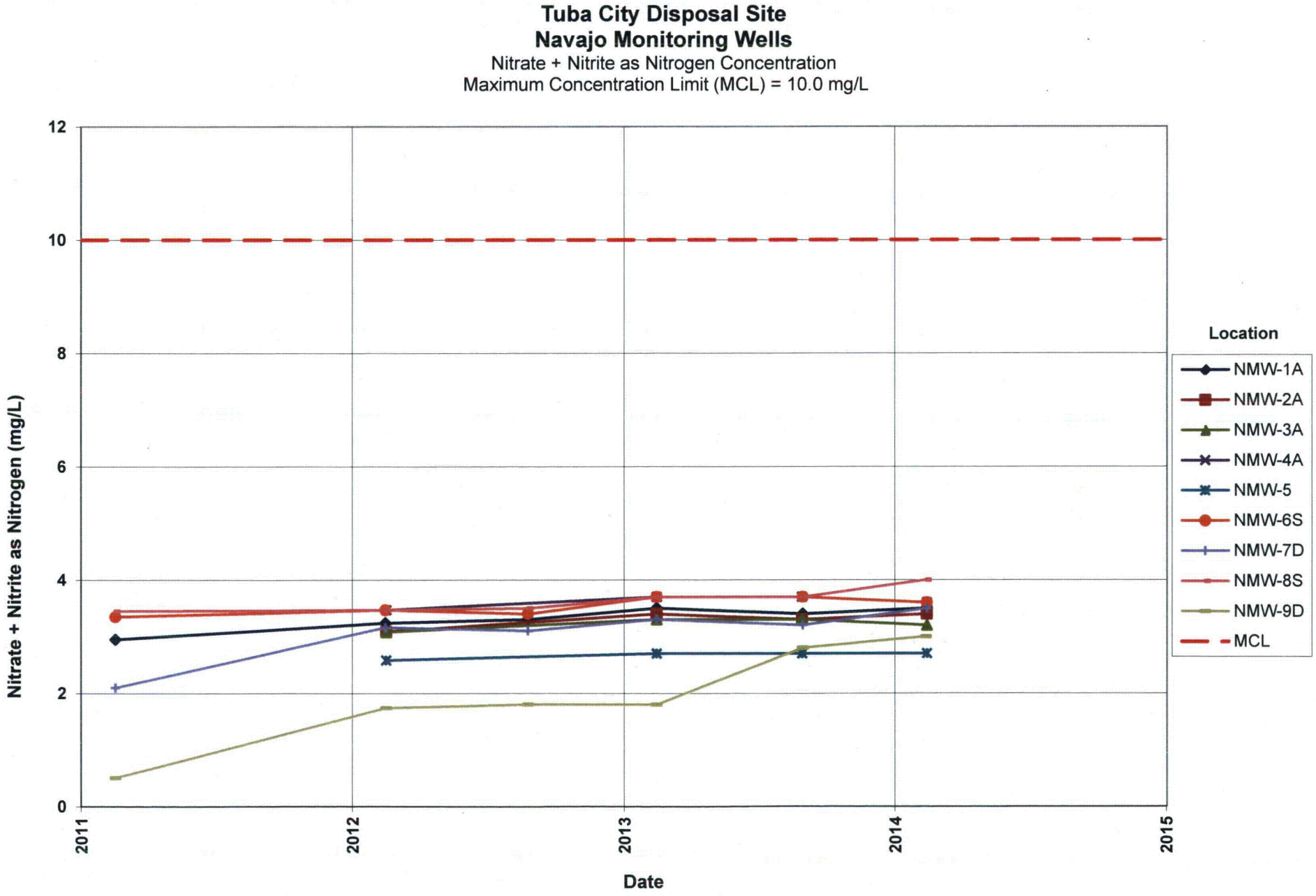



Tuba City Disposal Site
Deep Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L
Uranium (mg/L)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0251
0252
0268
0911
0913
0916
0920
0921
MCL

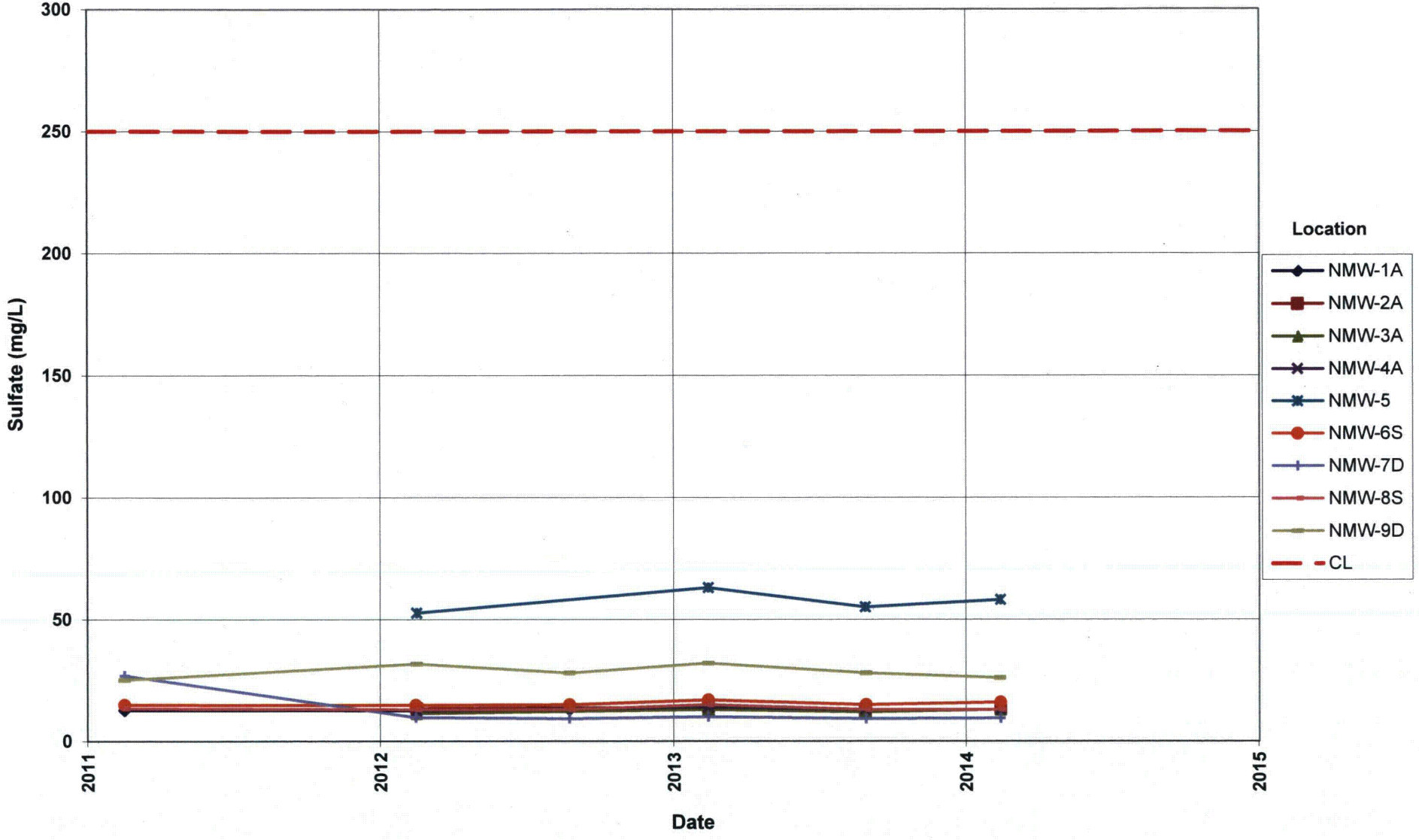

Tuba City Disposal Site
Horizons A, B, & C "Sentinel" Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
Date
Location
0271
0683
0684
0914
0929
MCL
0
2
4
6
8
10
12
14
16
18
20
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015

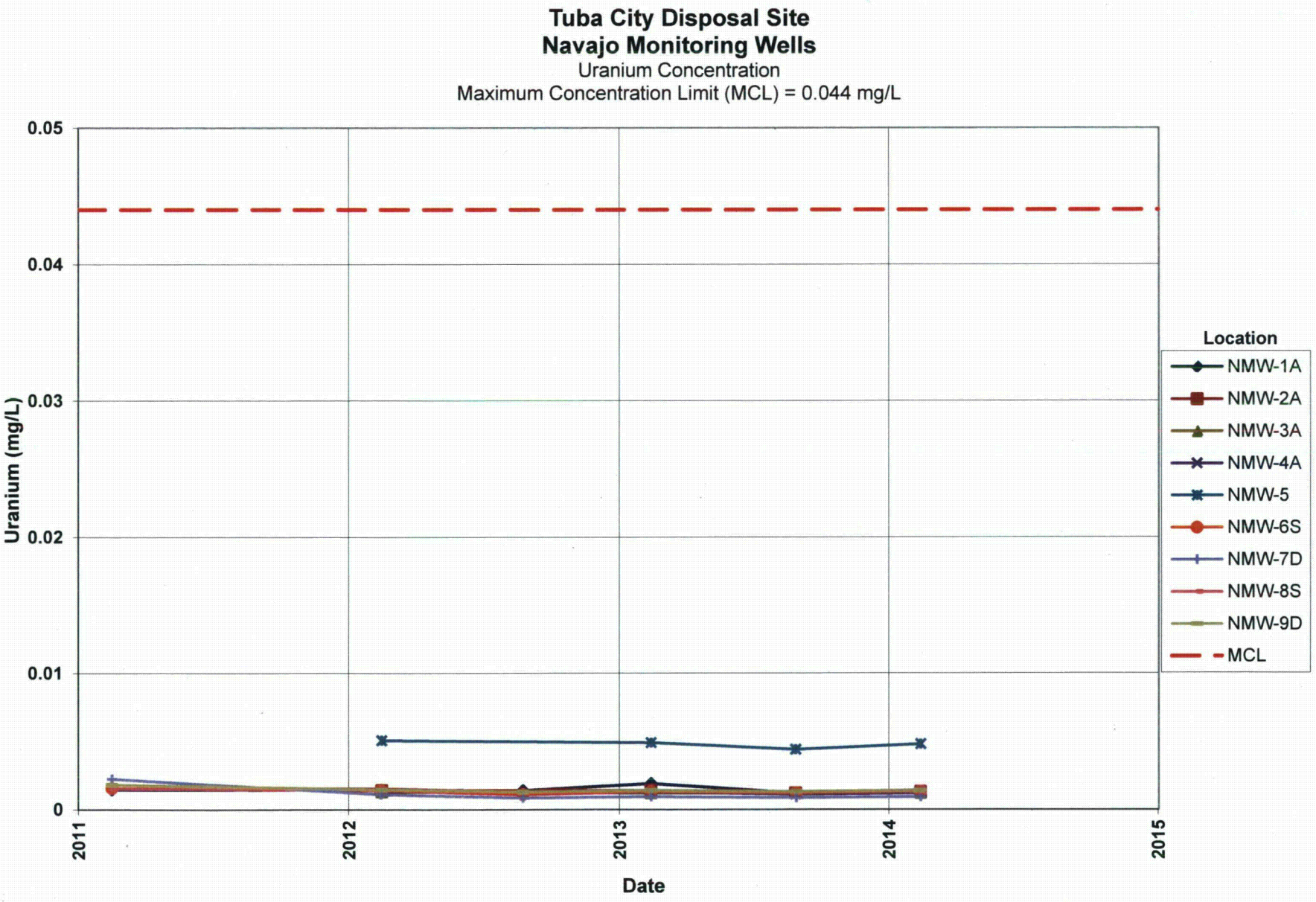

Tuba City Disposal Site
Horizons A, B, & C "Sentinel" Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L
Sulfate (mg/L)
30
25
20
15
10
5
0
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0271
0683
0684
0914
0929


Tuba City Disposal Site
Horizons A, B, & C "Sentinel" Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L
Uranium (mg/L)
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Date
Location
0271
0683
0684
0914
0929


Tuba City Disposal Site
Navajo Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Concentration Limit (MCL) = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
12
10
8
6
4
2
0
2011
2012
2013
2014
2015
Date
Location
NMW-1A
NMW-2A
NMW-3A
NMW-4A
NMW-5
NMW-6S
NMW-7D
NMW-8S
NMW-9D
MCL

Tuba City Disposal Site
Navajo Monitoring Wells
Sulfate Concentration
Cleanup Level (CL) = 250 mg/L




Tuba City Disposal Site
Navajo Monitoring Wells
Uranium Concentration
Maximum Concentration Limit (MCL) = 0.044 mg/L
Uranium (mg/L)
0.05
0.04
0.03
0.02
0.01
0
2011
2012
2013
2014
2015
Date
Location
NMW-1A
NMW-2A
NMW-3A
NMW-4A
NMW-5
NMW-6S
NMW-7D
NMW-8S
NMW-9D
MCL

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Attachment 3
Sampling and Analysis Work Order

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Stoller

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Task Order LM-501
Control Number 14-0323

January 29, 2014

U.S. Department of Energy
Office of Legacy Management
ATTN: Richard Bush
Site Manager
2597 Legacy Way
Grand Junction, CO 81503

SUBJECT: Contract No. DE-AM01-07LM00060, S.M. Stoller Corporation (Stoller)
February 2014 Environmental Sampling at the Tuba City, Arizona,
Disposal Site Revised

REFERENCE: Task Order LM00-501-02-122-402, Tuba City, Arizona, Disposal Site

Dear Mr. Bush:

The purpose of this letter is to inform you of the upcoming sampling event at Tuba City, Arizona. Enclosed are the revised map and tables specifying sample locations and analytes for monitoring at the Tuba City site. Water quality data will be collected from monitoring wells and surface locations at this site as part of the routine environmental sampling currently scheduled to begin the week of February 10, 2014.

The following lists show the monitoring wells (with zone of completion) and surface locations scheduled to be sampled during this event.

Monitoring Wells*

251 Na	278 Na	688 Na	915 Na	945 Na	1106 Na	1120 Na
252 Na	279 Na	689 Na	916 Na	946 Na	1107 Na	1121 Na
258 Na	280 Na	690 Na	917 Na	947 Na	1108 Na	1122 Na
261 Na	281 Na	691 Na	918 Na	948 Na	1109 Na	1123 Na
262 Na	282 Na	692 Na	919 Na	1003 Al	1110 Na	1124 Na
263 Na	283 Na	695 Na	920 Na	1004 Al	1111 Na	1125 Na
264 Na	284 Al	901 Na	921 Na	1005 Al	1112 Na	1126 Na
265 Na	285 Al	902 Na	929 Na	1006 Al	1113 Na	1127 Na
266 Na	286 Na	903 Na	930 Na	1007 Al	1114 Na	1128 Na
267 Na	287 Na	904 Na	932 Na	1008 Al	1115 Na	1129 Na
268 Na	288 Na	906 Na	934 Na	1101 Na	1116 Na	1130 Na
271 Na	289 Na	908 Na	935 Na	1102 Na	1117 Na	1131 Na
272 Na	290 Na	909 Na	936 Na	1103 Na	1118 Na	1132 Na
273 Na	683 Al	910 Na	938 Na	1104 Na	1119 Na	1133 Na
274 Na	684 Al	911 Na	940 Na	1105 Na	NMW-1A Ss	NMW-2A Ss
275 Na	685 Al	912 Na	941 Na	NMW-3A Ss	NMW-4A Ss	NMW-5 Al
276 Na	686 Na	913 Na	942 Na	NMW-6S Ss	NMW-8S Ss	NMW-9D Ss
277 Na	687 Na	914 Na	943 Na	NMW-7D Ss		

*NOTE: Al = alluvium; Na = Navajo sandstone; Ss = sandstone

The S.M. Stoller Corporation 2597 Legacy Way Grand Junction, CO 81503 (970) 248-6000 Fax (970) 248-6040

Surface locations

759	778	965	1569	1570	1571	1573

Treatment System Locations

1202	1205	1206

All samples will be collected as directed in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*. In addition, water levels will be collected from all wells on site.

Please contact me at (928) 283-5045 if you have any questions.

Sincerely,

Scott Smith
Site Manager

SS/leg/lb

Enclosures (3)

cc: (electronic)
Christina Pennal, DOE
Steve Donivan, Stoller
Lauren Goodknight, Stoller
Scott Smith, Stoller
EDD Delivery
re-grand.junction
File: TUB410.02 (A)

Sampling Frequencies for Locations at Tuba City, Arizona

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Monitoring Wells						
251		X				
252		X				
258		X				
261			X			August
262		X				
263		X				
264		X				
265		X				
266		X				
267		X				
268		X				
271			X			August
272		X				
273		X				
274		X				
275		X				
276		X				
277			X			August
278			X			August
279			X			August
280			X			August
281		X				
282		X				
283		X				
284			X			
285			X			
286		X				
287		X				
288		X				
289		X				
290		X				
683			X			August
684			X			August
685			X			August
686			X			DATA LOGGER; August
687			X			DATA LOGGER; August
688			X			DATA LOGGER; August
689			X			August
690			X			August
691		X				
692			X			August
695			X			August

Sampling Frequencies for Locations at Tuba City, Arizona

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
901			X			August
902			X			
903			X			August
904			X			August
906		X				DATA LOGGER
908		X				DATA LOGGER
909		X				DATA LOGGER
910			X			August
911			X			August
912			X			August
913			X			August
914			X			August
915			X			August
916			X			August
917			X			
918			X			
919			X			
920			X			August
921			X			August
929		X				
930		X				
932		X				
934		X				DATA LOGGER
935		X				Converted to extraction well 7/05
936		X				DATA LOGGER
938		X				Converted to extraction well 7/05
940		X				DATA LOGGER
941		X				DATA LOGGER
942		X				DATA LOGGER
943			X			DATA LOGGER; August
945			X			August
946			X			DATA LOGGER; August
947			X			August
948			X			
1003			X			August
1004			X			August
1005			X			
1006			X			August
1007			X			August
1008			X			
1101			X			August
1102			X			August
1103			X			August

Sampling Frequencies for Locations at Tuba City, Arizona

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
1104			X			August
1105			X			August
1106			X			August
1107			X			August
1108			X			August
1109			X			August
1110			X			August
1111			X			August
1112			X			August
1113			X			August
1114			X			August
1115			X			August
1116			X			August
1117			X			August
1118			X			August
1119			X			August
1120			X			August
1121			X			August
1122			X			August
1123			X			August
1124			X			August
1125			X			August
1126			X			August
1127			X			August
1128			X			August
1129			X			August
1130			X			August
1131			X			August
1132			X			August
1133			X			August
NMW-1A		X				
NMW-2A		X				
NMW-3A		X				
NMW-4A		X				
NMW-5		X				
NMW-6S		X				
NMW-7D		X				
NMW-8S		X				
NMW-9D		X				

Sampling Frequencies for Locations at Tuba City, Arizona

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Surface Locations						
759			X			August; Moenkopi wash-downgradient
778			X			August; Moenkopi wash-at Jimmy Spring
965			X			August; Moenkopi wash-far upgradient
1569		X				Evap pond - North
1570		X				Evap pond - South
1571			X			Jimmy Spr West - August
1573			X			West pipe Shonto Well - August
Treatment System Locations						
1202		X				
1205		X				Treatment system distillate; verify location with system operators
1206		X				

Both semi-annual and annual locations will be sampled in February 2014.

Constituent Sampling Breakdown

Site	Tuba City				
Analyte	**Groundwater**	**Surface Water**	**Required Detection Limit (mg/L)**	**Analytical Method**	**Line Item Code**
Approx. No. Samples/yr	143	9			
Field Measurements					
Alkalinity	X	X			
Dissolved Oxygen					
Redox Potential	X	X			
pH	X	X			
Specific Conductance	X	X			
Turbidity	X				
Temperature	X	X			
Laboratory Measurements					
Aluminum					
Ammonia as N (NH_3-N)	X		0.1	EPA 350.1	WCH-A-005
Arsenic	X	X	0.0001	SW-846 6020	LMM-02
Calcium	X	X	5	SW-846 6010	LMM-01
Chloride	X	X	0.5	SW-846 9056	WCH-A-039
Chromium					
Gross Alpha					
Gross Beta					
Iron	X	X	0.05	SW-846 6020	LMM-02
Lead					
Magnesium	X	X	5	SW-846 6010	LMM-01
Manganese	X	X	0.005	SW-846 6010	LMM-01
Molybdenum	X	X	0.003	SW-846 6020	LMM-02
Nickel					
Nickel-63					
Nitrate + Nitrite as N (NO_3+NO_2)-N	X	X	0.05	EPA 353.1	WCH-A-022
Potassium	X	X	1	SW-846 6010	LMM-01
Radium-226					
Radium-228					
Selenium	X	X	0.0001	SW-846 6020	LMM-02
Silica	X		0.2	SW-846 6010	LMM-01
Sodium	X	X	1	SW-846 6010	LMM-01
Strontium					
Sulfate	X	X	0.5	SW-846 9056	MIS-A-044
Sulfide					
Total Dissolved Solids	X	X	10	SM2540 C	WCH-A-033
Total Organic Carbon					
Uranium	X	X	0.0001	SW-846 6020	LMM-02
Vanadium					
Zinc					
Total No. of Analytes	16	14			

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Attachment 4
Trip Report

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Stoller
Grand Junction Office

established 1959

Memorandum

DATE: March 5, 2014

TO: Scott Smith

FROM: David Atkinson

SUBJECT: Sampling Trip Report

Site: Tuba City

Dates of Sampling Event: February 10-14, 2014

Team Members: Jeff Price, Dan Sellers, David Atkinson, Lauren Goodknight, and Allison Kuhlman.

Number of Locations Sampled: The following table shows the locations sampled and the locations planned:

	Planned Locations	Sampled Locations
Monitoring Wells	87	82
Extraction Wells	37	37
Surface Locations	7	7
Treatment System Locations	3	3

Locations Not Sampled/Reason: Monitoring well locations 0283, 0284, 0285, 0909, and 0918 were not sampled because they were dry.

Location Specific Information: Locations 0759, 0778, 0942, 0965, 1127, 1131, 1569, 1570, and 1571 were filtered due to high turbidity.

Pumps at extraction well locations 0942, 1127, and 1131 were inoperable upon arrival and had to be pulled for repair prior to sampling. Samples at these wells were collected after purging 2 well casing volumes.

Locations 0903, 0917, 0919, and NMW-2A, previously sampled under Category I stabilization criteria, were sampled under Category II criteria during this sampling event.

Opening and closing valves at the treatment system was conducted by Tuba City treatment plant personnel to accommodate sample collection. Location 1202 was sampled from valve 357; 1205 from valve 184; location 1206 from valve 144.

Quality Control Sample Cross Reference: The following table shows the false identifications assigned to the quality control samples:

False ID	QC Sample Type	Sample Date/Time	True ID	Ticket #
2186	Duplicate	2-11-14/1005	1123	MDQ 651
2386	Duplicate	2-11-14/1020	1121	MDQ 661
2515	Duplicate	2-11-14/1035	1120	MDQ 681
2532	Duplicate	2-11-14/1045	1119	MDQ 638
2578	Duplicate	2-11-14/1055	1103	MDQ 696
2987	Duplicate	2-11-14/1135	1104	MDQ 631
2988	Duplicate	2-11-14/1200	1105	MDQ 632
2989	Duplicate	2-11-14/1215	1106	MDQ 633
2990	Duplicate	2-11-14/1615	1107	MDQ 634

RIN Number Assigned: All samples were assigned to RIN 14025914.

Sample Shipment: The first set of samples was shipped overnight via FedEx to ALS Laboratory Group Fort Collins, CO, from Tuba City, AZ, on Wednesday, February 12, 2014, and a second shipment was made on Friday, February 14, 2014.

Water Level Measurements: Water levels were measured at all wells prior to sampling.

Well Inspection Summary: None.

Field Variance: Monitoring well location 0902 was sampled immediately following installation of a bladder pump. This was done because of access concerns; the well is located below a steep, sandy hill, and the samplers did not want to risk getting a vehicle stuck due to repeated trips up and down the hill.

Equipment: All equipment functioned properly.

Institutional Controls: No issues were identified.

Fences, Gates, Locks:
Trespassing/Site Disturbances:

Site Issues: None.

Disposal Cell/Drainage Structure Integrity:
Vegetation/Noxious Weed Concerns:
Maintenance Requirements:
Access Issues:

Corrective Action Taken: None.

(DA/lcg)

cc: (electronic)
Richard Bush, DOE
Timothy Bartlett, Stoller
Steve Donivan, Stoller
Susan Kamp, Stoller
Scott Smith, Stoller
EDD Delivery

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