LMS/TUB/S00710

Data Validation Package

July 2010
Water Sampling at the Tuba City, Arizona, Disposal Site

January 2011

U.S. DEPARTMENT OF ENERGY Legacy Management

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Sampling Event Summary

Site: Tuba City, Arizona, Disposal Site

Sampling Period: July 19–22, 2010

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 was conducted as specified in *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites* (LMS/PLN/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 2011.

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

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Arsenic	0.05	1105	0.67
Arsenic	0.05	1106	0.18
Molybdenum	0.1	0262	1.1
Molybdenum	0.1	1105	0.89
Molybdenum	0.1	1129	0.75
Molybdenum	0.1	1132	1.8
Nitrate + Nitrite as Nitrogen	10	0262	190
Nitrate + Nitrite as Nitrogen	10	0263	230
Nitrate + Nitrite as Nitrogen	10	0265	160
Nitrate + Nitrite as Nitrogen	10	0267	310
Nitrate + Nitrite as Nitrogen	10	0268	17
Nitrate + Nitrite as Nitrogen	10	0273	61
Nitrate + Nitrite as Nitrogen	10	0275	260
Nitrate + Nitrite as Nitrogen	10	0279	10
Nitrate + Nitrite as Nitrogen	10	0281	38
Nitrate + Nitrite as Nitrogen	10	0282	35
Nitrate + Nitrite as Nitrogen	10	0286	150

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

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Nitrate + Nitrite as Nitrogen	10	0287	270
Nitrate + Nitrite as Nitrogen	10	0288	55
Nitrate + Nitrite as Nitrogen	10	0289	53
Nitrate + Nitrite as Nitrogen	10	0290	17
Nitrate + Nitrite as Nitrogen	10	0691	62
Nitrate + Nitrite as Nitrogen	10	0903	11
Nitrate + Nitrite as Nitrogen	10	0906	350
Nitrate + Nitrite as Nitrogen	10	0908	190
Nitrate + Nitrite as Nitrogen	10	0909	160
Nitrate + Nitrite as Nitrogen	10	0912	61
Nitrate + Nitrite as Nitrogen	10	0929	15
Nitrate + Nitrite as Nitrogen	10	0930	13
Nitrate + Nitrite as Nitrogen	10	0934	390
Nitrate + Nitrite as Nitrogen	10	0935	240
Nitrate + Nitrite as Nitrogen	10	0936	200
Nitrate + Nitrite as Nitrogen	10	0938	360
Nitrate + Nitrite as Nitrogen	10	0940	480
Nitrate + Nitrite as Nitrogen	10	0941	250
Nitrate + Nitrite as Nitrogen	10	0942	220
Nitrate + Nitrite as Nitrogen	10	1003	61
Nitrate + Nitrite as Nitrogen	10	1101	69
Nitrate + Nitrite as Nitrogen	10	1102	110
Nitrate + Nitrite as Nitrogen	10	1103	240
Nitrate + Nitrite as Nitrogen	10	1104	110
Nitrate + Nitrite as Nitrogen	10	1105	200
Nitrate + Nitrite as Nitrogen	10	1106	70
Nitrate + Nitrite as Nitrogen	10	1107	230
Nitrate + Nitrite as Nitrogen	10	1108	150
Nitrate + Nitrite as Nitrogen	10	1109	100
Nitrate + Nitrite as Nitrogen	10	1110	47
Nitrate + Nitrite as Nitrogen	10	1111	160
Nitrate + Nitrite as Nitrogen	10	1112	39
Nitrate + Nitrite as Nitrogen	10	1113	26
Nitrate + Nitrite as Nitrogen	10	1114	78
Nitrate + Nitrite as Nitrogen	10	1115	80
Nitrate + Nitrite as Nitrogen	10	1116	52
Nitrate + Nitrite as Nitrogen	10	1117	98
Nitrate + Nitrite as Nitrogen	10	1117	94
Nitrate + Nitrite as Nitrogen	10	1118	150
Nitrate + Nitrite as Nitrogen	10	1118	140
Nitrate + Nitrite as Nitrogen	10	1119	160
Nitrate + Nitrite as Nitrogen	10	1120	39
Nitrate + Nitrite as Nitrogen	10	1120	38
Nitrate + Nitrite as Nitrogen	10	1121	13
Nitrate + Nitrite as Nitrogen	10	1122	44
Nitrate + Nitrite as Nitrogen	10	1123	26

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

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Nitrate + Nitrite as Nitrogen	10	1124	130
Nitrate + Nitrite as Nitrogen	10	1129	110
Nitrate + Nitrite as Nitrogen	10	1130	100
Nitrate + Nitrite as Nitrogen	10	1132	270
Nitrate + Nitrite as Nitrogen	10	1133	33
Selenium	0.01	0262	0.091
Selenium	0.01	0263	0.043
Selenium	0.01	0267	0.058
Selenium	0.01	0273	0.024
Selenium	0.01	0275	0.031
Selenium	0.01	0286	0.019
Selenium	0.01	0287	0.12
Selenium	0.01	0904	0.013
Selenium	0.01	0906	0.022
Selenium	0.01	0908	0.029
Selenium	0.01	0909	0.054
Selenium	0.01	0934	0.012
Selenium	0.01	0935	0.019
Selenium	0.01	0936	0.017
Selenium	0.01	0938	0.051
Selenium	0.01	0940	0.072
Selenium	0.01	0941	0.099
Selenium	0.01	0942	0.045
Selenium	0.01	1101	0.02
Selenium	0.01	1102	0.022
Selenium	0.01	1103	0.036
Selenium	0.01	1104	0.028
Selenium	0.01	1105	0.066
Selenium	0.01	1106	0.025
Selenium	0.01	1107	0.068
Selenium	0.01	1108	0.038
Selenium	0.01	1109	0.018
Selenium	0.01	1111	0.016
Selenium	0.01	1114	0.011
Selenium	0.01	1115	0.014
Selenium	0.01	1117	0.011
Selenium	0.01	1117	0.011
Selenium	0.01	1118	0.02
Selenium	0.01	1118	0.019
Selenium	0.01	1119	0.03
Selenium	0.01	1120	0.017
Selenium	0.01	1120	0.016
Selenium	0.01	1122	0.025
Selenium	0.01	1123	0.017
Selenium	0.01	1124	0.03
Selenium	0.01	1129	0.065

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

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Selenium	0.01	1130	0.017
Selenium	0.01	1132	0.14
Selenium	0.01	1133	0.014
Uranium	0.044	0262	1
Uranium	0.044	0263	0.15
Uranium	0.044	0265	0.064
Uranium	0.044	0267	0.072
Uranium	0.044	0273	0.086
Uranium	0.044	0275	0.47
Uranium	0.044	0286	0.15
Uranium	0.044	0287	0.23
Uranium	0.044	0691	0.05
Uranium	0.044	0906	0.81
Uranium	0.044	0908	0.088
Uranium	0.044	0909	0.054
Uranium	0.044	0934	0.18
Uranium	0.044	0935	0.12
Uranium	0.044	0936	0.13
Uranium	0.044	0938	0.45
Uranium	0.044	0940	0.42
Uranium	0.044	0941	0.19
Uranium	0.044	0942	0.53
Uranium	0.044	1101	0.24
Uranium	0.044	1102	0.39
Uranium	0.044	1103	0.47
Uranium	0.044	1104	0.65
Uranium	0.044	1105	2
Uranium	0.044	1106	0.65
Uranium	0.044	1107	0.23
Uranium	0.044	1108	0.57
Uranium	0.044	1109	0.35
Uranium	0.044	1110	0.087
Uranium	0.044	1111	0.26
Uranium	0.044	1112	0.05
Uranium	0.044	1114	0.082
Uranium	0.044	1115	0.098
Uranium	0.044	1118	0.082
Uranium	0.044	1118	0.08
Uranium	0.044	1119	0.37
Uranium	0.044	1120	0.15
Uranium	0.044	1120	0.15
Uranium	0.044	1121	0.083
Uranium	0.044	1122	0.22
Uranium	0.044	1123	0.32
Uranium	0.044	1124	0.3
Uranium	0.044	1129	0.72

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

Analyte	Standard (mg/L)	Location	Concentration (mg/L)
Uranium	0.044	1130	0.14
Uranium	0.044	1132	2.3
Uranium	0.044	1133	0.066

Concentrations are expressed in milligrams per liter (mg/L).

Tim Bartlett
Site Hydrologist, S.M. Stoller Corporation

1/5/11
Date

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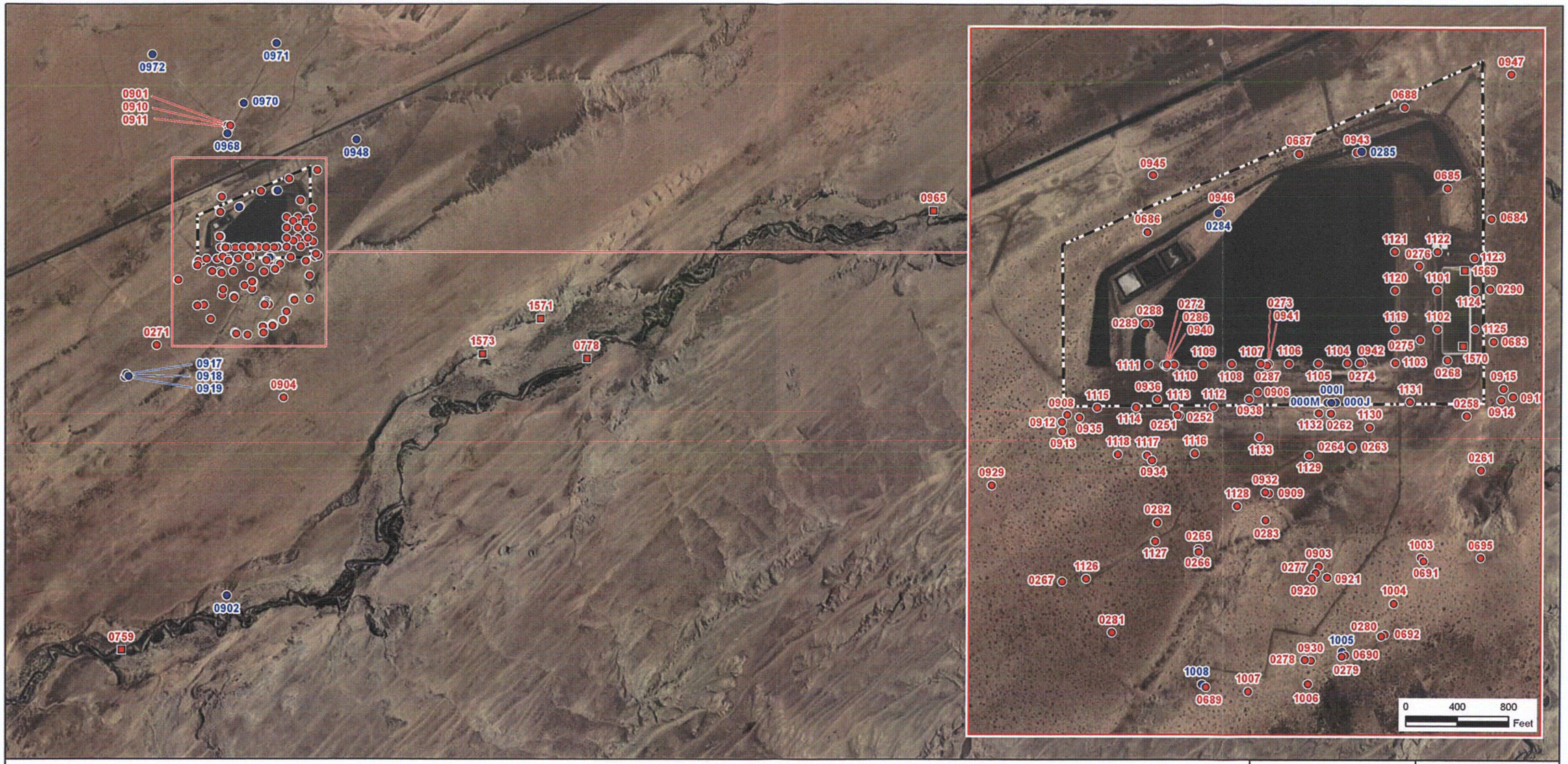

LEGEND

- WELL TO BE SAMPLED
- SURFACE LOCATION TO BE SAMPLED
- WATER LEVEL ONLY WELL
- SITE BOUNDARY

N

0 3,000 6,000 Feet

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 July 2010	
DATE PREPARED October 18, 2010	FILENAME S0674000

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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**	July 19–22, 2010
Date(s) of Verification	October 19, 2010	**Name of Verifier**	Gretchen Baer

	Response (Yes, No, NA)	Comments
1. Is the SAP the primary document directing field procedures?	Yes	
List other documents, SOPs, instructions.		Work Order Letter dated July 1, 2010.
2. Were the sampling locations specified in the planning documents sampled?	No	Well 0283 did not have enough water to sample. Extraction wells 1126, 1127, 1128, and 1131 were not operational. Surface locations 0759, 0778, and 0965 were dry.
3. Was a pre-trip calibration conducted as specified in the above-named documents?	Yes	Pre-trip calibrations were performed on July 16, 2010.
4. Was an operational check of the field equipment conducted daily?	No	One set of field equipment was not op-checked on July 20, 2010.
Did the operational checks meet criteria?	No	One op-check of ORP was slightly below acceptance criteria.
5. Were the number and types (alkalinity, temperature, specific conductance, pH, turbidity, DO, ORP) of field measurements taken as specified?	Yes	Well 0940: No field measurements taken because of limited volume available.
6. Was the category of the well documented?	Yes	
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 stabilize prior to sampling?	Yes	
Was the flow rate less than 500 mL/min?	Yes	
If a portable pump was used, was there a 4-hour delay between pump installation and sampling?	NA	

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	Six duplicate samples were collected.
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment?	NA	
11. Were trip blanks prepared and included with each shipment of VOC samples?	NA	
12. Were QC samples assigned a fictitious site identification number?	Yes	
Was the true identity of the samples recorded on the Quality Assurance Sample Log or in the Field Data Collection System (FDCS) report?	Yes	QC samples are also listed in the trip report.
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. Are field data sheets signed and dated by both team members (hardcopies) or are dates present for the "Date Signed" fields (FDCS)?	Yes	
18. Was all other pertinent information documented on the field data sheets?	Yes	
19. Was the presence or absence of ice in the cooler documented at every sample location?	Yes	
20. Were water levels measured at the locations specified in the planning documents?	Yes	Water levels could not be measured at 0909 (water is below pump) or at 1103 and 1121.

Laboratory Performance Assessment

General Information

Requisition No.:	10073213
Sample Event:	July 19–22, 2010
Site(s):	Tuba City, Arizona
Laboratory:	ALS Laboratory Group, Fort Collins, Colorado
Work Order No.:	1007258
Analysis:	Metals and Inorganics
Validator:	Gretchen Baer
Review Date:	October 19, 2010

This validation was performed according to the *Environmental Procedures Catalog*, (LMS/PRO/S04325, continually updated) "Standard Practice for Validation of Laboratory 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	MCAWW 350.1	MCAWW 350.1
Arsenic, Molybdenum, Selenium, Uranium	LMM-02	SW-846 3005A	SW-846 6020A
Calcium, Iron, Magnesium, Manganese, Potassium, Silica, Sodium	LMM-01	SW-846 3005A	SW-846 6010B
Chloride	MIS-A-039	SW-846 9056	SW-846 9056
Nitrite + Nitrate as N	WCH-A-022	MCAWW 353.2	MCAWW 353.2
Sulfate	MIS-A-044	SW-846 9056	SW-846 9056
Total Dissolved Solids	WCH-A-033	MCAWW 160.1	MCAWW 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
1007258-1	0263	Ammonia as N	J	Matrix spike failure
1007258-2	0264	Iron	J	Negative method blank
1007258-2	0264	Manganese	J	Negative method blank
1007258-3	0268	Iron	J	Negative method blank

Table 3 (continued). Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
1007258-3	0268	Manganese	J	Negative method blank
1007258-4	0273	Iron	J	Negative method blank
1007258-5	0274	Iron	J	Negative method blank
1007258-5	0274	Manganese	J	Negative method blank
1007258-6	0275	Iron	J	Negative method blank
1007258-7	0276	Iron	J	Negative method blank
1007258-8	0278	Manganese	J	Negative method blank
1007258-9	0279	Iron	J	Negative method blank
1007258-10	0280	Iron	J	Negative method blank
1007258-13	0685	Iron	J	Negative method blank
1007258-13	0685	Manganese	J	Negative method blank
1007258-14	0687	Iron	J	Negative method blank
1007258-14	0687	Manganese	J	Negative method blank
1007258-14	0687	Selenium	J	Reporting limit verification failure
1007258-16	0689	Iron	J	Negative method blank
1007258-16	0689	Manganese	J	Negative method blank
1007258-17	0690	Iron	J	Negative method blank
1007258-18	0691	Iron	J	Negative method blank
1007258-20	0695	Iron	J	Negative method blank
1007258-20	0695	Manganese	J	Negative method blank
1007258-22	0921	Iron	J	Negative method blank
1007258-22	0921	Manganese	J	Negative method blank
1007258-23	0930	Iron	J	Negative method blank
1007258-23	0930	Manganese	J	Negative method blank
1007258-24	0934	Iron	J	Negative method blank
1007258-26	0936	Iron	J	Negative method blank
1007258-27	0938	Iron	J	Negative method blank
1007258-28	0941	Iron	J	Negative method blank
1007258-29	0942	Iron	J	Negative method blank
1007258-30	0943	Iron	J	Negative method blank
1007258-30	0943	Selenium	J	Reporting limit verification failure
1007258-31	0946	Iron	J	Negative method blank
1007258-31	0946	Manganese	J	Negative method blank
1007258-32	1003	Iron	J	Negative method blank
1007258-32	1003	Manganese	J	Negative method blank
1007258-33	1004	Manganese	J	Negative method blank
1007258-34	1006	Iron	J	Negative method blank
1007258-37	1102	Iron	J	Negative method blank
1007258-39	1104	Iron	J	Negative method blank
1007258-40	1105	Iron	J	Negative method blank
1007258-41	1106	Iron	J	Negative method blank
1007258-43	1108	Iron	J	Negative method blank
1007258-44	1109	Iron	J	Negative method blank
1007258-45	1110	Iron	J	Negative method blank
1007258-46	1111	Iron	J	Negative method blank
1007258-47	1112	Iron	J	Negative method blank

Table 3 (continued). Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
1007258-47	1112	Manganese	J	Negative method blank
1007258-48	1113	Iron	J	Negative method blank
1007258-48	1113	Manganese	J	Negative method blank
1007258-51	1116	Iron	J	Negative method blank
1007258-51	1116	Manganese	J	Negative method blank
1007258-53	1118	Iron	J	Negative method blank
1007258-55	1120	Iron	J	Negative method blank
1007258-56	1122	Iron	J	Negative method blank
1007258-58	1124	Iron	J	Negative method blank
1007258-58	1124	Manganese	J	Negative method blank
1007258-58	1124	Manganese	U	Less than 5 times the calibration blank
1007258-59	1125	Manganese	J	Negative method blank
1007258-60	1129	Iron	J	Negative method blank
1007258-60	1129	Manganese	J	Negative method blank
1007258-61	1130	Iron	J	Negative method blank
1007258-62	1132	Iron	J	Negative method blank
1007258-63	1118 Dup (2988)	Iron	J	Negative method blank
1007258-64	1117 Dup (2989)	Iron	J	Negative method blank
1007258-65	1120 Dup (2990)	Iron	J	Negative method blank
1007258-66	0251	Iron	J	Negative method blank
1007258-67	0252	Iron	J	Negative method blank
1007258-68	0258	Iron	J	Negative method blank
1007258-68	0258	Manganese	J	Negative method blank
1007258-69	0261	Iron	J	Negative method blank
1007258-70	0262	Iron	J	Negative method blank
1007258-71	0265	Iron	J	Negative method blank
1007258-72	0266	Iron	J	Negative method blank
1007258-72	0266	Manganese	J	Negative method blank
1007258-73	0267	Iron	J	Negative method blank
1007258-74	0271	Iron	J	Negative method blank
1007258-74	0271	Manganese	J	Negative method blank
1007258-75	0272	Iron	J	Negative method blank
1007258-75	0272	Manganese	J	Negative method blank
1007258-79	0288	Iron	J	Negative method blank
1007258-80	0289	Iron	J	Negative method blank
1007258-81	0290	Iron	J	Negative method blank
1007258-82	0683	Iron	J	Negative method blank
1007258-82	0683	Manganese	J	Negative method blank
1007258-83	0684	Iron	J	Negative method blank
1007258-83	0684	Manganese	J	Negative method blank
1007258-84	0686	Iron	J	Negative method blank
1007258-84	0686	Manganese	J	Negative method blank
1007258-86	0903	Iron	J	Negative method blank
1007258-86	0903	Manganese	J	Negative method blank
1007258-87	0904	Iron	J	Negative method blank
1007258-88	0906	Iron	J	Negative method blank

Table 3 (continued). Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
1007258-89	0909	Iron	J	Negative method blank
1007258-89	0909	Manganese	J	Negative method blank
1007258-90	0910	Iron	J	Negative method blank
1007258-90	0910	Manganese	J	Negative method blank
1007258-91	0911	Iron	J	Negative method blank
1007258-91	0911	Manganese	J	Negative method blank
1007258-92	0912	Iron	J	Negative method blank
1007258-92	0912	Manganese	J	Negative method blank
1007258-93	0913	Iron	J	Negative method blank
1007258-93	0913	Manganese	J	Negative method blank
1007258-94	0914	Iron	J	Negative method blank
1007258-94	0914	Manganese	J	Negative method blank
1007258-95	0915	Iron	J	Negative method blank
1007258-95	0915	Manganese	J	Negative method blank
1007258-96	0916	Iron	J	Negative method blank
1007258-96	0916	Magnesium	J	Negative method blank
1007258-96	0916	Manganese	J	Negative method blank
1007258-97	0920	Iron	J	Negative method blank
1007258-98	0929	Iron	J	Negative method blank
1007258-98	0929	Manganese	U	Less than 5 times the calibration blank
1007258-99	0932	Iron	J	Negative method blank
1007258-99	0932	Manganese	J	Negative method blank
1007258-100	0940	Iron	J	Negative method blank
1007258-101	0945	Iron	J	Negative method blank
1007258-101	0945	Manganese	J	Negative method blank
1007258-102	0947	Iron	J	Negative method blank
1007258-102	0947	Manganese	J	Negative method blank
1007258-103	1121	Iron	J	Negative method blank
1007258-104	1133	Iron	J	Negative method blank
1007258-107	1571	Iron	J	Negative method blank
1007258-108	1573	Iron	J	Negative method blank
1007258-108	1573	Manganese	U	Less than 5 times the calibration blank
1007258-110	0686 Dup (2987)	Iron	J	Negative method blank
1007258-110	0686 Dup (2987)	Manganese	U	Less than 5 times the calibration blank
1007258-111	0272 Dup (2991)	Iron	J	Negative method blank
1007258-111	0272 Dup (2991)	Manganese	J	Negative method blank
1007258-111	0272 Dup (2991)	Manganese	U	Less than 5 times the calibration blank
All	All	Potassium	J	Multiple serial dilution failures

Sample Shipping/Receiving

ALS Laboratory Group in Fort Collins, Colorado, received 111 samples on July 22 and 24, 2010, accompanied by Chain of Custody forms. Copies of the eight 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 no errors or omissions, with the following exceptions. The sample date and/or time for locations 0914 and 0932 differed from what was written on the bottle labels and the sample time for location 1109 differed from what was entered into the field computer. The laboratory used the dates and times on the Chain of Custody for log in, which is acceptable.

Preservation and Holding Times

The sample shipments were received intact with temperatures inside the iced coolers at 1.6, 2.4, 2.2, and 3.6 °C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses, with two exceptions: bottles collected for nitrate and ammonia at 0938 and for metals at 0251 were received unpreserved and were acidified by the laboratory upon receipt. The laboratory noted that the unpreserved aliquots for locations 1569 and 1570 were received with pH values that were below the expected range of 4-9. This is typical for samples from these locations; these pH values do not indicate field preservation errors. All samples were analyzed within the applicable holding times.

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 and of producing a linear curve. 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.

Method MCAWW 160.1

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

Method MCAWW 350.1

The initial calibrations for ammonia as N were performed on August 5 and 13, 2010, 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 method detection limit (MDL). Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in 22 verification checks. All calibration verification checks met the acceptance criteria.

Method MCAWW 353.2

The initial calibrations for nitrate + nitrite as N were performed on August 9-11, 2010, using seven 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. Calibration

and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in 16 verification checks. All calibration verification checks met the acceptance criteria.

Method SW-846 6010B

Calibrations for calcium, iron, magnesium, manganese, potassium, silica, and sodium were performed August 9-11, 2010. Additional calibrations for potassium were performed on August 27 and 30, 2010. The correlation coefficients and intercepts were not provided by the laboratory. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in 42verification checks (51 verification checks in total for potassium). All calibration checks met the acceptance criteria. Reporting limit verification checks were made at the required frequency to verify the linearity of the calibration curve near the practical quantitation limit (PQL) and all results were within the acceptance range, with the exception of a check for potassium, which was below the acceptance range. All other checks for potassium were acceptable, but were biased low. All potassium results have been qualified for serial dilution failures.

Method SW-846 6020A

Calibrations for arsenic, molybdenum, selenium, and uranium were performed on August 12 and 17, 2010 using four 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. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in 25 verification checks. All calibration checks met 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 were within the acceptance range, with the following exception. A selenium check result was above the acceptance range. The affected results that were less than 5 times the PQL and above the detection limit are qualified with a "J" flag (estimated). 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 on August 3, 2010, 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. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in 24 verification checks. All calibration checks 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 initial and continuing calibration blank results associated with the samples were below the PQLs for all analytes with these exceptions. Some chloride calibration blanks were slightly above the PQLs. All samples associated with these blanks had chloride concentrations greater than 10 times the blank. 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.

For calcium, iron, magnesium, manganese, potassium, and sodium the values of some blank results were negative and the absolute values were greater than the MDLs. Associated samples with results less than 5 times the MDL are flagged with a "J" as estimated values.

Inductively Coupled Plasma (ICP) Interference Check Sample (ICS) Analysis

ICP interference check samples ICSA and ICSAB 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 concentration. The spike recoveries met the recovery and precision criteria for all analytes evaluated with the following exceptions. The spike recoveries were below the acceptance range (below 75 percent) for some ammonia as N samples. There is no evidence of systematic matrix interference; the sample results associated with the failed spike results are qualified with a "J" flag as estimated values. The MS, MSD, and analytical spike recoveries for potassium at location 0263 were above the acceptance ranges. The affected results are qualified with a "J" flag (estimated). At 124 percent, the spike recovery of potassium at location 0908 exceeded the laboratory's acceptance criteria, but was within the ±25 percent requirement.

Laboratory Replicate Analysis

Laboratory replicate analyses are used to determine laboratory precision for each sample matrix. The relative percent difference for replicate results that are greater than 5 times the PQL should be less than 20 percent. For results that are less than 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 PQL for method 6010 or greater than 100 times the PQL for method 6020. All evaluated serial dilution data were acceptable with the following exceptions. The percent difference for all evaluated potassium dilutions were above the acceptance range of 10 percent, which may indicate systematic matrix interference. All potassium results are qualified with a "J" flag (estimated).

Detection Limits/Dilutions

Samples were diluted in a consistent and acceptable manner when required. The required detection limits were achieved for all analytes.

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

A revised EDD file arrived on December 2, 2010, in response to Request for Information #10-2908. The revision included corrections to some wet chemistry results. 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 (meq/L). Table 4 shows the total anion and cation results from this event and the charge balance, which is a relative percent difference 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	2.3	2.7	8.2
0252	1.8	2.3	11.3
0258	2.7	2.8	1.3
0261	2.7	2.9	2.5
0262	67.0	71.4	3.2
0263	89.7	92.9	1.7
0264	4.7	4.7	0.0
0265	47.7	47.5	0.2
0266	2.2	2.4	3.2
0267	117.6	115.8	0.8
0268	6.7	7.3	4.5
0271	2.6	2.9	4.8
0272	2.5	2.8	6.7
0273	16.7	16.1	1.8
0274	2.8	3.0	3.4
0275	81.5	83.3	1.1
0276	2.8	2.9	1.9
0277	2.5	2.8	6.0
0278	2.4	2.4	0.2
0279	4.7	4.9	2.5
0280	3.1	3.3	2.8
0281	8.6	9.1	2.8
0282	7.2	7.4	1.2
0286	51.4	52.6	1.1
0287	67.7	68.6	0.7
0288	15.3	16.1	2.7
0289	15.8	16.0	0.6
0290	5.0	5.4	3.4
0683	2.7	2.9	2.5
0684	2.7	8.1	50.4
0685	2.7	2.8	1.7
0686	2.1	3.4	25.2
0687	1.4	2.3	24.5
0688	7.5	8.9	8.7
0689	2.7	2.9	2.4
0691	21.7	20.4	3.1
0692	2.6	2.5	1.9
0695	3.7	3.9	2.6
0901	4.0	4.7	7.9
0903	4.4	4.6	1.9
0904	8.0	9.0	6.0
0906	96.5	89.1	4.0
0908	91.5	84.0	4.3
0909	35.2	35.7	0.7
0910	2.6	2.9	5.3
0911	2.0	2.4	7.4

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

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
0912	22.2	20.8	3.5
0913	1.9	2.3	10.7
0914	1.3	2.0	21.4
0915	1.2	1.3	2.1
0916	5.3	5.3	0.3
0920	2.4	2.6	3.9
0921	1.9	2.2	5.9
0929	3.6	3.8	2.7
0930	4.4	4.7	2.8
0932	3.3	4.0	9.9
0934	120.1	111.2	3.8
0935	81.8	83.0	0.8
0936	38.2	38.5	0.4
0938	107.6	105.4	1.1
0940	271.4	226.7	9.0
0941	63.8	59.3	3.6
0942	95.9	93.6	1.2
0943	1.4	2.2	21.5
0945	3.3	4.2	11.7
0946	1.7	2.1	10.8
0947	2.7	2.9	4.4
1003	21.3	19.8	3.7
1004	4.4	4.6	2.5
1006	2.2	2.4	2.3
1007	2.4	2.6	4.6
1101	37.5	39.0	1.9
1102	44.1	44.3	0.2
1103	73.5	75.9	1.7
1104	40.9	42.8	2.2
1105	74.5	73.8	0.5
1106	24.6	24.2	0.8
1107	68.0	65.9	1.6
1108	63.2	64.0	0.6
1109	47.8	47.0	0.8
1110	18.5	19.4	2.4
1111	64.1	61.5	2.0
1112	11.6	11.5	0.2
1113	7.2	7.4	1.6
1114	29.6	29.0	1.0
1115	32.9	32.2	1.2
1116	15.2	16.0	2.4
1117	29.4	30.0	1.0
1118	57.0	55.8	1.1
1119	63.7	64.7	0.7
1120	41.3	44.7	3.9
1121	36.9	39.1	2.9
1122	48.3	50.7	2.4

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

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
1123	63.4	66.6	2.5
1124	57.5	56.5	0.9
1125	3.6	4.3	9.1
1129	34.8	33.8	1.5
1130	31.9	32.2	0.5
1132	89.5	88.1	0.8
1133	9.4	12.6	14.4
1569	5361.3	6369.1	8.6
1570	5357.6	6440.5	9.2
1571	5.1	6.4	11.4
1573	3.7	5.4	18.5

The charge balance value for most locations was less than 10 percent. At 12 locations, the charge balances were above 10 percent; there were no analytical errors identified during the review of the laboratory data. At location 0684, the recorded alkalinity (an anion value) was approximately 3.5 times the historical average. No alkalinity measurement could be taken at location 0940 due to limited sample volume available.

SAMPLE MANAGEMENT SYSTEM
General Data Validation Report

RIN: 10073213 Lab Code: PAR Validator: Gretchen Baer Validation Date: 10/18/2010

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

# of Samples: 111 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	There are 18 detection limit failures.
☐ Field/Trip Blanks	
☑ Field Duplicates	There were 6 duplicates evaluated.

SAMPLE MANAGEMENT SYSTEM

Non-Compliance Report: Detection Limits

RIN: 10073213 Lab Code: PAR

Project: Tuba City

Validation Date: 10/18/2010

Ticket	Location	Lab Sample ID	Method Code	Lab Method	Analyte Name	Result	Qualifier	Reported Detection Limit	Required Detection Limit	Units
IIY 703	1569	1007258-105	LMM-01	SW6010	Manganese	300000		5.7	5	UG/L
IIY 703	1569	1007258-105	LMM-01	SW6010	Iron	4100	B	250	100	UG/L
IIY 703	1569	1007258-105	LMM-01	SW6010	Potassium	1800000		5400	5000	UG/L
IIY 703	1569	1007258-105	LMM-02	SW6020	Uranium	5600		0.145	0.1	UG/L
IIY 703	1569	1007258-105	LMM-02	SW6020	Selenium	2300		1.6	0.1	UG/L
IIY 703	1569	1007258-105	LMM-02	SW6020	Arsenic	2100		0.75	0.1	UG/L
IIY 704	1570	1007258-106	LMM-01	SW6010	Iron	4000	B	250	100	UG/L
IIY 704	1570	1007258-106	LMM-01	SW6010	Potassium	1900000		5400	5000	UG/L
IIY 704	1570	1007258-106	LMM-01	SW6010	Manganese	310000		5.7	5	UG/L
IIY 704	1570	1007258-106	LMM-02	SW6020	Uranium	5100		0.145	0.1	UG/L
IIY 704	1570	1007258-106	LMM-02	SW6020	Selenium	2400		1.6	0.1	UG/L
IIY 704	1570	1007258-106	LMM-02	SW6020	Arsenic	2300		0.75	0.1	UG/L
IIY 716	2532	1007258-109	LMM-01	SW6010	Potassium	2000000		5400	5000	UG/L
IIY 716	2532	1007258-109	LMM-01	SW6010	Manganese	320000		5.7	5	UG/L
IIY 716	2532	1007258-109	LMM-01	SW6010	Iron	4400	B	250	100	UG/L
IIY 716	2532	1007258-109	LMM-02	SW6020	Uranium	5100		0.145	0.1	UG/L
IIY 716	2532	1007258-109	LMM-02	SW6020	Selenium	2600		1.6	0.1	UG/L
IIY 716	2532	1007258-109	LMM-02	SW6020	Arsenic	2300		0.75	0.1	UG/L

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB								
1 Arsenic	08/12/2010	-0.0050	1.0000	OK	OK	OK	OK	OK	95.0	105.0	107.0	2.0	107.0	1.0	100.0
1 Arsenic	08/12/2010							OK	92.0	103.0	107.0	3.0	104.0	2.0	101.0
1 Arsenic	08/12/2010									102.0	104.0	1.0		1.0	88.0
1 Arsenic	08/17/2010	-0.0090	1.0000	OK	OK	OK	OK	OK	100.0	97.0	98.0	1.0		2.0	99.0
1 Arsenic	08/17/2010							OK	95.0	97.0	97.0	1.0		2.0	103.0
1 Arsenic	08/17/2010							OK	95.0	100.0	101.0	0.0			
1 Arsenic	08/17/2010							OK	98.0						
1 Molybdenum	08/12/2010	-0.0130	1.0000	OK	OK	OK	OK	OK	97.0	104.0	106.0	2.0	102.0	0.0	122.0
1 Molybdenum	08/12/2010							OK	96.0	103.0	107.0	3.0	100.0		99.0
1 Molybdenum	08/12/2010									100.0	103.0	1.0		3.0	104.0
1 Molybdenum	08/17/2010	-0.0080	1.0000	OK	OK	OK	OK	OK	99.0	99.0	100.0	2.0		0.0	102.0
1 Molybdenum	08/17/2010							OK	96.0	100.0	99.0	1.0			98.0
1 Molybdenum	08/17/2010							OK	95.0	100.0	101.0	0.0			
1 Molybdenum	08/17/2010							OK	96.0						
1 Selenium	08/12/2010	-0.0400	1.0000	OK	OK	OK	OK	OK	100.0	114.0	117.0	2.0	110.0	4.0	132.0
1 Selenium	08/12/2010							OK	99.0	116.0	123.0	5.0	103.0	7.0	84.0
1 Selenium	08/12/2010									99.0	101.0	1.0		2.0	89.0

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB								
1Selenium	08/17/2010	-0.0500	1.0000	OK	OK	OK	OK	OK	101.0	99.0	100.0	1.0		2.0	97.0
1Selenium	08/17/2010							OK	98.0	100.0	99.0	0.0		1.0	110.0
1Selenium	08/17/2010							OK	96.0	103.0	105.0	2.0			
1Selenium	08/17/2010							OK	101.0						
1Uranium	08/12/2010	-0.0010	1.0000	OK	OK	OK	OK	OK	102.0			3.0	110.0	3.0	110.0
1Uranium	08/12/2010							OK	97.0			0.0	107.0	2.0	105.0
1Uranium	08/12/2010											2.0		2.0	120.0
1Uranium	08/17/2010	-0.0010	1.0000	OK	OK	OK	OK	OK	98.0	99.0	100.0	1.0		5.0	95.0
1Uranium	08/17/2010							OK	98.0	101.0	101.0	0.0		2.0	125.0
1Uranium	08/17/2010							OK	96.0	99.0	85.0	1.0			
1Uranium	08/17/2010							OK	97.0						
Calcium	08/09/2010			OK	OK	OK	OK	OK	99.0			0.0	105.0	4.0	102.0
Calcium	08/10/2010			OK	OK	OK	OK	OK	96.0	99.0	102.0	1.0	105.0	6.0	101.0
Calcium	08/10/2010							OK	98.0	100.0	87.0	1.0	103.0	6.0	99.0
Calcium	08/10/2010							OK	95.0	96.0	101.0	2.0	101.0	6.0	97.0
Calcium	08/10/2010							OK	95.0			0.0	104.0	1.0	100.0
Calcium	08/10/2010			OK	OK	OK	OK	OK	96.0	114.0	103.0	1.0	105.0	3.0	101.0

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB								
Iron	08/09/2010			OK	OK	OK	OK	OK	96.0	86.0	84.0	2.0	108.0		121.0
Iron	08/10/2010			OK	OK	OK	OK	OK	93.0	96.0	96.0	1.0	105.0		116.0
Iron	08/10/2010							OK	96.0	90.0	91.0	1.0	107.0		117.0
Iron	08/10/2010							OK	95.0	93.0	94.0	1.0	106.0		115.0
Iron	08/10/2010							OK	97.0	90.0	91.0	0.0	109.0		104.0
Iron	08/10/2010			OK	OK	OK	OK	OK	96.0	90.0	89.0	1.0	108.0		103.0
Magnesium	08/09/2010			OK	OK	OK	OK	OK	100.0			1.0	107.0	1.0	102.0
Magnesium	08/10/2010			OK	OK	OK	OK	OK	97.0	99.0	100.0	1.0	105.0	4.0	100.0
Magnesium	08/10/2010							OK	98.0	116.0	109.0	1.0	105.0	2.0	100.0
Magnesium	08/10/2010							OK	99.0	96.0	98.0	1.0	105.0	1.0	99.0
Magnesium	08/10/2010							OK	100.0	101.0	102.0	1.0	107.0	1.0	99.0
Magnesium	08/10/2010			OK	OK	OK	OK	OK	100.0	102.0	101.0	0.0	106.0		99.0
Manganese	08/09/2010			OK	OK	OK	OK	OK	95.0	85.0	83.0	2.0	91.0		107.0
Manganese	08/10/2010			OK	OK	OK	OK	OK	93.0	94.0	94.0	1.0	88.0	7.0	101.0
Manganese	08/10/2010							OK	94.0	90.0	89.0	1.0	89.0	0.0	104.0
Manganese	08/10/2010							OK	95.0	92.0	93.0	1.0	87.0	6.0	102.0
Manganese	08/10/2010							OK	95.0	89.0	90.0	0.0	91.0		98.0

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB								
Manganese	08/10/2010			OK	OK	OK	OK	OK	96.0	90.0	89.0	1.0	90.0		98.0
Potassium	08/09/2010			OK	OK	OK	OK	OK	97.0	130.0	129.0	0.0		26.0	83.0
Potassium	08/10/2010			OK	OK	OK	OK	OK	93.0	124.0	124.0	0.0		37.0	80.0
Potassium	08/10/2010							OK	93.0	114.0	116.0	1.0		52.0	71.0
Potassium	08/10/2010							OK	92.0	113.0	114.0	1.0		55.0	67.0
Potassium	08/10/2010							OK	92.0	99.0	99.0	0.0			77.0
Potassium	08/10/2010			OK	OK	OK	OK	OK	93.0	97.0	98.0	1.0		57.0	76.0
Potassium	08/27/2010			OK	OK	OK	OK			117.0					78.0
Potassium	08/30/2010			OK	OK	OK	OK			136.0					75.0
Silicon	08/09/2010			OK	OK	OK	OK	OK	99.0	100.0	96.0	1.0	92.0	10.0	103.0
Silicon	08/10/2010			OK	OK	OK	OK	OK	97.0	99.0	102.0	1.0	87.0	5.0	89.0
Silicon	08/10/2010							OK	98.0	99.0	99.0	0.0	90.0	3.0	103.0
Silicon	08/10/2010							OK	101.0	97.0	102.0	1.0	90.0	4.0	104.0
Silicon	08/10/2010							OK	102.0	97.0	100.0	1.0	92.0	2.0	98.0
Silicon	08/10/2010			OK	OK	OK	OK	OK	102.0	100.0	101.0	0.0	90.0	1.0	92.0
Sodium	08/09/2010			OK	OK	OK	OK	OK	97.0	106.0	103.0	0.0		1.0	93.0
Sodium	08/10/2010			OK	OK	OK	OK	OK	94.0	96.0	95.0	0.0		7.0	91.0

SAMPLE MANAGEMENT SYSTEM

Metals Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB								
Sodium	08/10/2010							OK	94.0			3.0		5.0	85.0
Sodium	08/10/2010							OK	95.0	94.0	95.0	1.0		5.0	84.0
Sodium	08/10/2010							OK	95.0	112.0	108.0	1.0			89.0
Sodium	08/10/2010			OK	OK	OK	OK	OK	95.0	106.0	99.0	2.0			88.0

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	ICV	CCV	ICB	CCB						
AMMONIA AS N	08/05/2010	-0.020	0.9998	OK	OK	OK	OK	OK	95				
AMMONIA AS N	08/13/2010	-0.010	1.0000	OK	OK	OK	OK	OK	99	54	57	6	
AMMONIA AS N	08/13/2010							OK	98	97	99	2	
AMMONIA AS N	08/13/2010							OK	100	95	97	2	
AMMONIA AS N	08/13/2010							OK	100	89	92	1	
AMMONIA AS N	08/13/2010							OK	100				
CHLORIDE	08/03/2010	0.028	0.9999	OK	OK	OK	OK						
CHLORIDE	08/06/2010							OK	95	102	99	1	
CHLORIDE	08/06/2010									98			
CHLORIDE	08/06/2010							OK	98	100	100	0	
CHLORIDE	08/07/2010									98			
CHLORIDE	08/09/2010							OK	105	105	106	0	
CHLORIDE	08/09/2010							OK	97	100	99	0	
CHLORIDE	08/09/2010									99			
CHLORIDE	08/10/2010							OK	98	99	97	0	

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	ICV	CCV	ICB	CCB						
CHLORIDE	08/10/2010							OK	97	98			
CHLORIDE	08/10/2010									98			
Nitrate+Nitrite as N	08/09/2010	0.000	0.9998	OK	OK	OK	OK	OK	99	89	87	1	
Nitrate+Nitrite as N	08/09/2010							OK	99				
Nitrate+Nitrite as N	08/10/2010	0.000	0.9997	OK	OK	OK	OK	OK	101	96	85	2	
Nitrate+Nitrite as N	08/10/2010							OK	103	84	80	1	
Nitrate+Nitrite as N	08/11/2010	0.000	0.9998	OK	OK	OK	OK	OK	102				
Nitrate+Nitrite as N	08/11/2010							OK	102				
SULFATE	08/03/2010	0.475	0.9999	OK	OK	OK	OK						
SULFATE	08/06/2010							OK	95	103	100	0	
SULFATE	08/06/2010									98			
SULFATE	08/06/2010							OK	97	91	91	0	
SULFATE	08/07/2010									96			
SULFATE	08/09/2010							OK	100	102	103	0	
SULFATE	08/09/2010							OK	96	105	99	0	

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	ICV	CCV	ICB	CCB						
SULFATE	08/09/2010									101			
SULFATE	08/10/2010							OK	97	102	102	0	
SULFATE	08/10/2010							OK	96	103			
SULFATE	08/10/2010									102			
TOTAL DISSOLVED SOLIDS	07/26/2010							OK	100			0	
TOTAL DISSOLVED SOLIDS	07/26/2010							OK	105			2	
TOTAL DISSOLVED SOLIDS	07/26/2010											0	
TOTAL DISSOLVED SOLIDS	07/26/2010											1	
TOTAL DISSOLVED SOLIDS	07/27/2010							OK	99			1	
TOTAL DISSOLVED SOLIDS	07/27/2010							OK	102			2	
TOTAL DISSOLVED SOLIDS	07/27/2010											2	
TOTAL DISSOLVED SOLIDS	07/29/2010							OK	99			0	
TOTAL DISSOLVED SOLIDS	07/29/2010							OK	99			0	
TOTAL DISSOLVED SOLIDS	07/29/2010											0	
TOTAL DISSOLVED SOLIDS	07/29/2010											5	

SAMPLE MANAGEMENT SYSTEM

Wet Chemistry Data Validation Worksheet

RIN: 10073213 **Lab Code:** PAR **Date Due:** 8/19/2010

Matrix: Water **Site Code:** TUB **Date Completed:** 9/2/2010

Analyte	Date Analyzed	CALIBRATION						Method Blank	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	ICV	CCV	ICB	CCB						
TOTAL DISSOLVED SOLIDS	07/30/2010							OK	99			0	

Sampling Quality Control Assessment

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

Sampling Protocol

Sample results for monitoring wells that met the Category I, II, or III low-flow sampling criteria 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 downhole and pumphead tubing or a bladder pump. Extraction wells (0935, 0936, 0938, 0942, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1129, 1130, 1132, and 1133) are spigot samples and are designated as Category IV.

All monitoring wells met the Category I criteria and were sampled with dedicated tubing using the low-flow purge procedure with the following exceptions.

- Turbidity requirements could not be met at well 0909.
- The following 38 wells were classified as Category II or III: 0251, 0258, 0262, 0263, 0264, 0265, 0266, 0273, 0274, 0277, 0278, 0280, 0281, 0282, 0286, 0287, 0288, 0289, 0290, 0683, 0684, 0689, 0690, 0692, 0906, 0908, 0911, 0912, 0913, 0914, 0915, 0916, 0929, 0934, 0940, 0941, 0945, and 0947.

The sample results for these 39 wells were qualified with a "Q" flag, indicating the data are qualitative because of the sampling technique.

Equipment Blank Assessment

No equipment blanks were taken. All groundwater and surface water samples were collected using dedicated equipment that did not require equipment blanks.

Field Duplicate Analysis

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. The relative percent difference for duplicate results that are greater than 5 times the PQL should be less than 20 percent. For results that are less than the PQL, the range should be no greater than the PQL. Duplicate samples were collected from locations 0272, 0686, 1117, 1118, 1120, and 1570. The duplicate results met the criteria, demonstrating acceptable overall precision.

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 10073213 Lab Code: PAR Project: Tuba City Validation Date: 10/18/2010

Duplicate: 2532 Sample: 1570

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
Arsenic	2300			2	2300			2	0		UG/L
Calcium	210000			1	220000			1	4.65		UG/L
CHLORIDE	170000			10000	170000			10000	0		MG/L
Iron	4000	B		1	4400	B		1	9.52		UG/L
Magnesium	2E+07			1	2.1E+07			1	4.88		UG/L
Manganese	310000			1	320000			1	3.17		UG/L
Molybdenum	2300			2	2300			2	0		UG/L
Nitrate+Nitrite as N	14000			10000	13000			10000	7.41		MG/L
Potassium	1900000			1	2000000			1	5.13		UG/L
Selenium	2400			2	2600			2	8.00		UG/L
Sodium	8.4E+07			10	8.6E+07			10	2.35		UG/L
SULFATE	31000			2000	32000			2000	3.17		MG/L
TOTAL DISSOLVED SOLIDS	410000			1	410000			1	0		MG/L
Uranium	5100			2	5100			2	0		UG/L

Duplicate: 2987 Sample: 0686

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	0.1	U		1	0.1	U		1			MG/L
Arsenic	7.9			1	8.1			1	2.50		UG/L
Calcium	17000			1	17000			1	0		UG/L
CHLORIDE	4.1			2	4			2	2.47		MG/L
Iron	11	B		1	13	B		1			UG/L
Magnesium	2200			1	2200			1	0		UG/L
Manganese	0.18	B		1	1.1	B		1			UG/L
Molybdenum	0.54			1	0.54			1	0		UG/L
Nitrate+Nitrite as N	1.9			2	1.9			2	0		MG/L
Potassium	780	B		1	730	B		1	6.62		UG/L
Selenium	0.97			1	1			1	3.05		UG/L
Silica	8500			1	8500			1	0		UG/L
Silicon	4000			1	4000			1	0		UG/L
Sodium	23000			1	21000			1	9.09		UG/L
SULFATE	33			2	32			2	3.08		MG/L
TOTAL DISSOLVED SOLIDS	140			1	130			1	7.41		MG/L
Uranium	0.27			1	0.27			1	0		UG/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 10073213 Lab Code: PAR Project: Tuba City Validation Date: 10/18/2010

Duplicate: 2988 Sample: 1118

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	14			5	13			5	7.41		MG/L
Arsenic	1.8			1	1.8			1	0		UG/L
Calcium	540000			2	520000			2	3.77		UG/L
CHLORIDE	67			50	59			50	12.70		MG/L
Iron	9.9	U		2	9.9	U		2			UG/L
Magnesium	260000			2	250000			2	3.92		UG/L
Manganese	250			2	250			2	0		UG/L
Molybdenum	0.39			1	0.44			1	12.05		UG/L
Nitrate+Nitrite as N	150			100	140			100	6.90		MG/L
Potassium	12000			2	12000			2	0		UG/L
Selenium	19			1	20			1	5.13		UG/L
Silica	16000			2	16000			2	0		UG/L
Silicon	7400			2	7500			2	1.34		UG/L
Sodium	170000			2	160000			2	6.06		UG/L
SULFATE	1600			50	1600			50	0		MG/L
TOTAL DISSOLVED SOLIDS	3900			1	3900			1	0		MG/L
Uranium	82			1	80			1	2.47		UG/L

Duplicate: 2989 Sample: 1117

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	0.1	U		1	0.1	U		1			MG/L
Arsenic	1.4			1	1.3			1	7.41		UG/L
Calcium	330000			1	330000			1	0		UG/L
CHLORIDE	47			20	44			20	6.59		MG/L
Iron	67	B		1	20	B		1			UG/L
Magnesium	110000			1	110000			1	0		UG/L
Manganese	20			1	20			1	0		UG/L
Molybdenum	0.13			1	0.13			1			UG/L
Nitrate+Nitrite as N	98			100	94			50	4.17		MG/L
Potassium	5900			1	5900			1	0		UG/L
Selenium	11			1	11			1	0		UG/L
Silica	15000			1	15000			1	0		UG/L
Silicon	6900			1	7000			1	1.44		UG/L
Sodium	86000			1	85000			1	1.17		UG/L
SULFATE	730			20	720			20	1.38		MG/L
TOTAL DISSOLVED SOLIDS	2100			1	2100			1	0		MG/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 10073213 Lab Code: PAR Project: Tuba City Validation Date: 10/18/2010

Duplicate: 2989 Sample: 1117

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
Uranium	31			1	30			1	3.28		UG/L

Duplicate: 2990 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	20			5	20			5	0		MG/L
Arsenic	1.6			2	1.6			2	0		UG/L
Calcium	390000			2	390000			2	0		UG/L
CHLORIDE	66			20	61			20	7.87		MG/L
Iron	9.9	U		2	9.9	U		2			UG/L
Magnesium	140000			2	150000			2	6.90		UG/L
Manganese	31000			10	32000			10	3.17		UG/L
Molybdenum	26			2	26			2	0		UG/L
Nitrate+Nitrite as N	39			20	38			20	2.60		MG/L
Potassium	9400			2	9400			2	0		UG/L
Selenium	16			2	17			2	6.06		UG/L
Silica	19000			2	19000			2	0		UG/L
Silicon	9000			2	9000			2	0		UG/L
Sodium	200000			2	200000			2	0		UG/L
SULFATE	1700			20	1700			20	0		MG/L
TOTAL DISSOLVED SOLIDS	3000			1	3000			1	0		MG/L
Uranium	150			2	150			2	0		UG/L

Duplicate: 2991 Sample: 0272

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
AMMONIA AS N	0.1	U		1	0.1	U		1			MG/L
Arsenic	2			1	1.9			1	5.13		UG/L
Calcium	32000			1	31000			1	3.17		UG/L
CHLORIDE	7.9			2	8.2			2	3.73		MG/L
Iron	4.9	U		1	4.9	U		1			UG/L
Magnesium	6800			1	6800			1	0		UG/L
Manganese	0.11	U		1	0.29	B		1			UG/L
Molybdenum	0.24			1	0.25			1	4.08		UG/L
Nitrate+Nitrite as N	3.6			2	3.6			2	0		MG/L
Potassium	850	B		1	810	B		1	4.82		UG/L
Selenium	1.2			1	1.1			1	8.70		UG/L

SAMPLE MANAGEMENT SYSTEM

Validation Report: Field Duplicates

RIN: 10073213 Lab Code: PAR Project: Tuba City Validation Date: 10/18/2010

Duplicate: 2991 Sample: 0272

Analyte	Sample Result	Sample Flag	Sample Error	Sample Dilution	Duplicate Result	Duplicate Flag	Duplicate Error	Duplicate Dilution	RPD	RER	Units
Silica	12000			1	11000			1	8.70		UG/L
Silicon	5400			1	5300			1	1.87		UG/L
Sodium	6200			1	6100			1	1.63		UG/L
SULFATE	12			2	12			2	0		MG/L
TOTAL DISSOLVED SOLIDS	170			1	160			1	6.06		MG/L
Uranium	1.4			1	1.4			1	0		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: Steve Donivan — Date: 1-5-2011

Data Validation Lead: Gretchen Baer — Date: 1-5-11

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 SEEPro database. The application compares the new data set 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.

Review of the Outliers Report for field parameters indicates that there is a systematic problem with some oxidation-reduction data. The problem was traced to an instrument malfunction affecting two of the instruments used to collect field data. The oxidation-reduction data collected with these instruments are qualified with an "R" flag as rejected. One potentially anomalous field data point for alkalinity is listed on the Anomalous Data Review Checksheet for further review.

Thirty-eight laboratory results were identified as potentially anomalous. Of the 38 results, 35 were identified as potentially anomalous because of the low variability of the historical data or because of downward or upward trending in the data. Three potentially anomalous laboratory results are listed on the Anomalous Data Review Checksheet for further review. The manganese result from location 0938 is also listed. At this time, all data from this sampling event may be treated as validated results.

The ammonia as N result in August 2009 (1.3 mg/L) for location 0938 was listed on the Anomalous Data Review Checksheet for further review in the December 2009 Data Validation Package. Ammonia as N had not been detected at this location previously and was not detected in the sample from the February 2010 sampling event. In this July 2010 sampling event, ammonia as N was once again detected at 0.56 mg/L.

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Data Validation Outliers Report - Field Parameters Only
Comparison: All Historical Data
Laboratory: Field Measurements
RIN: 10073213
Report Date: 12/22/2010

					Current			Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
						Qualifiers			Qualifiers			Qualifiers				
Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	0258	N001	07/21/2010	Turbidity	0.69		FQ	8.83		FQ	0.85		F	12	0	No
TUB01	0262	N001	07/21/2010	Alkalinity, Total (As CaCO3)	642		FQ	449		FQ	144			16	0	Yes
TUB01	0262	N001	07/21/2010	Specific Conductance	4975		FQ	4725		FQ	1102			15	0	No
TUB01	0263	N001	07/20/2010	Alkalinity, Total (As CaCO3)	518		FQ	458			287		FQ	15	0	No
TUB01	0263	N001	07/20/2010	Oxidation Reduction Potential	-74.1		RFQ	233.4		FQ	70.5		FQ	14	0	Yes
TUB01	0263	N001	07/20/2010	Specific Conductance	6223		FQ	5884		FQ	3972		FQ	14	0	No
TUB01	0264	N001	07/20/2010	Oxidation Reduction Potential	-119.4		RFQ	208.4		FQ	56.7		FQ	14	0	Yes
TUB01	0265	N001	07/22/2010	Turbidity	0.77		FQ	7.52		F	0.83		F	14	0	No
TUB01	0271	N001	07/22/2010	Oxidation Reduction Potential	-0.4		RF	225		QF	48			13	0	No
TUB01	0271	N001	07/22/2010	pH	8.27		F	8.2		F	7.58		F	13	0	No
TUB01	0272	N001	07/21/2010	Oxidation Reduction Potential	40.4		RF	216.2		F	102.7		F	11	0	No
TUB01	0273	N001	07/20/2010	Alkalinity, Total (As CaCO3)	185		FQ	174		FQ	126		QF	10	0	No
TUB01	0273	N001	07/20/2010	pH	7		FQ	7.83		FQ	7.14		FQ	11	0	No
TUB01	0273	N001	07/20/2010	Specific Conductance	1451		FQ	1250		FQ	756		QF	11	0	No
TUB01	0274	N001	07/20/2010	pH	7.73		FQ	8.38		FQ	7.78		QF	11	0	No
TUB01	0275	N001	07/20/2010	Specific Conductance	5839		F	5709		F	4880		F	11	0	No
TUB01	0276	N001	07/20/2010	Oxidation Reduction Potential	74.3		RF	256		F	78.3		F	11	0	No
TUB01	0276	N001	07/20/2010	Temperature	21.04		F	19.81		F	13.03		F	11	0	No
TUB01	0277	N001	07/21/2010	Turbidity	5.7		FQ	5.59		F	1.05		FQ	6	0	No
TUB01	0278	N001	07/20/2010	pH	7.81		FQ	7.97		QF	7.83		FQ	6	0	No
TUB01	0279	N001	07/20/2010	Specific Conductance	495		F	480		F	383		F	6	0	No
TUB01	0279	N001	07/20/2010	Turbidity	1.57		F	9.7		F	2.47		F	6	0	No
TUB01	0282	N001	07/22/2010	Turbidity	1.06		FQ	25.2		FQ	1.76		FQ	11	0	No
TUB01	0286	N001	07/20/2010	Oxidation Reduction Potential	-75.2		RFQ	213.9		FQ	126			6	0	Yes
TUB01	0287	N001	07/20/2010	Alkalinity, Total (As CaCO3)	610		FQ	568		FQ	298			6	0	No
TUB01	0287	N001	07/20/2010	Oxidation Reduction	-152.3		RFQ	235.1		FQ	125			6	0	Yes

Data Validation Outliers Report - Field Parameters Only
Comparison: All Historical Data
Laboratory: Field Measurements
RIN: 10073213
Report Date: 12/22/2010

					Current			Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
						Qualifiers			Qualifiers			Qualifiers				
Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
				Potential												
TUB01	0287	N001	07/20/2010	Specific Conductance	5224		FQ	4925		FQ	3447			7	0	No
TUB01	0287	N001	07/20/2010	Temperature	20.77		FQ	19.91		FQ	14.7		FQ	6	0	No
TUB01	0287	N001	07/20/2010	Turbidity	7.01		FQ	5.85		FQ	1.24			6	0	No
TUB01	0288	N001	07/21/2010	Oxidation Reduction Potential	79.2		RFQ	295		FQ	106			6	0	No
TUB01	0288	N001	07/21/2010	Specific Conductance	1643		FQ	2530			1670		FQ	7	0	No
TUB01	0288	N001	07/21/2010	Turbidity	7.53		FQ	5.13		FQ	1.81		FQ	6	0	No
TUB01	0289	N001	07/21/2010	Oxidation Reduction Potential	69		RFQ	264		F	89			6	0	No
TUB01	0290	N001	07/21/2010	Specific Conductance	561		FQ	467			273		FQ	7	0	No
TUB01	0683	N001	07/21/2010	pH	8.18		FQ	8.17		F	7.18			15	0	No
TUB01	0684	N001	07/21/2010	Alkalinity, Total (As CaCO3)	360		FQ	114		L	81		FQ	18	0	Yes
TUB01	0686	N001	07/21/2010	Alkalinity, Total (As CaCO3)	125		F	110		L	15		F	23	0	No
TUB01	0686	N001	07/21/2010	Oxidation Reduction Potential	-174.3		RF	235		F	26			17	0	Yes
TUB01	0686	N001	07/21/2010	pH	8.45		F	8.29		F	7.03			17	0	No
TUB01	0688	N001	07/20/2010	Alkalinity, Total (As CaCO3)	128		F	118			65		F	24	0	No
TUB01	0910	N001	07/21/2010	Oxidation Reduction Potential	69		RF	478			113			12	0	No
TUB01	0910	N001	07/21/2010	Temperature	19.29		F	18.8		F	13		F	21	0	No
TUB01	0910	N001	07/21/2010	Turbidity	0.54		F	1.87		F	0.86		F	7	0	No
TUB01	0915	N001	07/21/2010	Alkalinity, Total (As CaCO3)	17		FQ	108		GFJ	20		QF	22	0	No
TUB01	0916	N001	07/21/2010	Turbidity	0.9		FQ	175		G	0.91		QF	9	0	No
TUB01	0921	N001	07/20/2010	Temperature	20.53		F	20.5			14		F	26	0	No
TUB01	0930	N001	07/20/2010	Turbidity	5.21		F	2.33		F	0			23	1	Yes
TUB01	0932	N001	07/21/2010	Temperature	19.8		F	19.5			14.76		F	27	0	No
TUB01	0936	N001	07/20/2010	Temperature	24.93			22.6			13.98		FQ	17	0	Yes
TUB01	0938	N001	07/20/2010	Temperature	28.21			27.74			12.6			16	0	Yes
TUB01	0943	N001	07/20/2010	Specific Conductance	163			1942		F	223		F	18	0	No
TUB01	0946	N001	07/20/2010	Oxidation Reduction Potential	-100.6		RF	204.4		F	17.1		F	11	0	Yes

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Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	0946	N001	07/20/2010	pH	8.41		F	8.32		F	7.2		F	11	0	No
TUB01	0946	N001	07/20/2010	Specific Conductance	197		F	691		F	228		F	11	0	No
TUB01	0947	N001	07/21/2010	Temperature	18.49		FQ	18.36		FQ	15.3		F	9	0	No
TUB01	1003	N001	07/20/2010	Specific Conductance	1810		F	1684		F	422		F	10	0	No
TUB01	1004	N001	07/20/2010	Temperature	21.93		F	21.16		F	9.48		F	12	0	No
TUB01	1006	N001	07/20/2010	Oxidation Reduction Potential	113.4		F	245.6		F	134.9		F	10	0	No
TUB01	1101	N001	07/19/2010	Specific Conductance	2783			4290			2800			16	0	No
TUB01	1105	N001	07/19/2010	pH	6.41			6.91			6.46			17	0	No
TUB01	1105	N001	07/19/2010	Specific Conductance	5667			5364			1787			16	0	No
TUB01	1106	N001	07/19/2010	pH	6.71			7.23			6.8			17	0	No
TUB01	1107	N001	07/19/2010	Alkalinity, Total (As CaCO3)	598			538			181			23	0	No
TUB01	1114	N001	07/20/2010	Alkalinity, Total (As CaCO3)	345			324			144			22	0	No
TUB01	1114	N001	07/20/2010	Specific Conductance	2369			2135			695			16	0	No
TUB01	1115	N001	07/20/2010	Temperature	20.04			18.3			16.3			17	0	Yes
TUB01	1116	N001	07/20/2010	pH	7			8.08			7.01			14	0	No
TUB01	1119	N001	07/20/2010	pH	6.36			6.69			6.38			17	0	No
TUB01	1123	N001	07/19/2010	pH	6.47			7.36			6.5			16	0	No
TUB01	1123	N001	07/19/2010	Temperature	26.63			20.68			13.82			16	0	Yes
TUB01	1123	N001	07/19/2010	Turbidity	9.6			6.57			0			15	0	No
TUB01	1124	N001	07/19/2010	Alkalinity, Total (As CaCO3)	434			365			177			21	0	No
TUB01	1124	N001	07/19/2010	Specific Conductance	4046			3645			1287			15	0	No
TUB01	1125	N001	07/20/2010	Specific Conductance	383			917			439			17	0	No
TUB01	1125	N001	07/20/2010	Temperature	29.11			20.55			14.9			17	0	No
TUB01	1129	N001	07/20/2010	Oxidation Reduction Potential	77.7		R	279.5			151			6	0	No
TUB01	1129	N001	07/20/2010	pH	6.82			7.18			6.87			6	0	No
TUB01	1129	N001	07/20/2010	Temperature	25.56			24.12			14.04			6	0	No
TUB01	1130	N001	07/20/2010	Alkalinity, Total (As CaCO3)	249			420			329			6	0	No

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TUB01	1130	N001	07/20/2010	Oxidation Reduction Potential	95.9		R	324			174			6	0	No
TUB01	1132	N001	07/20/2010	Specific Conductance	6524			6042			1883			6	0	No
TUB01	1132	N001	07/20/2010	Turbidity	0.65			3.41			0.94		F	6	0	No
TUB01	1571	N001	07/21/2010	Oxidation Reduction Potential	-191.7		R	219			-184.6			13	0	No
TUB01	1573	N001	07/21/2010	Oxidation Reduction Potential	-172.6		R	274			9.8			13	0	Yes

STATISTICAL TESTS:
The distribution of the data is tested for normality or lognormality using the Shapiro-Wilk Test
Outliers are identified using Dixon's Test when there are 25 or fewer data points.
Outliers are identified using Rosner's Test when there are 26 or more data points.
See Data Quality Assessment: Statistical Methods for Practitioners, EPA QC/G-9S, February 2006.

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						Qualifiers			Qualifiers			Qualifiers				
Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	0251	N001	07/21/2010	Molybdenum	0.00022		FQ	0.003	U		0.00027	B	UFQ	24	18	No
TUB01	0251	N001	07/21/2010	Potassium	1.5		FQJ	3.1		F	1.6		FQJ	20	0	Yes
TUB01	0252	N001	07/21/2010	Potassium	1.4		FJ	3.7		F	1.5		FQJ	21	0	No
TUB01	0258	N001	07/21/2010	Potassium	0.95	B	FQJ	2.2		F	1.1		FQJ	12	0	Yes
TUB01	0261	N001	07/21/2010	Arsenic	0.0022		F	0.0021		F	0.0017		F	7	0	No
TUB01	0261	N001	07/21/2010	Molybdenum	0.00046		F	0.0026	B		0.00053	B	UF	8	4	No
TUB01	0261	N001	07/21/2010	Potassium	0.97	B	FJ	5.4		F	1.65			8	0	No
TUB01	0261	N001	07/21/2010	Sodium	11		F	16		F	12		F	8	0	No
TUB01	0262	N001	07/21/2010	Sodium	230		FQ	210		FQ	73.7			14	0	No
TUB01	0262	N001	07/21/2010	Total Dissolved Solids	5100		FQ	4600		FQ	2000		FQ	14	0	No
TUB01	0263	N001	07/20/2010	Arsenic	0.0023		FQ	0.0017		FQ	0.00084		F	13	0	Yes
TUB01	0263	N001	07/20/2010	Magnesium	440		FQ	390		FQ	220		F	14	0	No
TUB01	0263	N001	07/20/2010	Total Dissolved Solids	6300		FQ	6100		FQ	4200		F	14	0	No
TUB01	0265	N001	07/22/2010	Arsenic	0.0013		FQ	0.001		F	0.00044		F	14	0	No
TUB01	0265	N001	07/22/2010	Manganese	0.0038	B	FQ	0.0034	B	F	0.000054	U	F	15	9	No
TUB01	0265	N001	07/22/2010	Molybdenum	0.000047	B	FQ	0.0017	U	F	0.0001	U	F	15	13	No
TUB01	0265	N001	07/22/2010	Selenium	0.0072		FQ	0.0071			0.0036		F	15	0	No
TUB01	0266	N001	07/22/2010	Potassium	1.5		FQJ	2.9		FQ	1.6		FQJ	14	0	Yes
TUB01	0267	N001	07/22/2010	Molybdenum	0.00011		F	0.003	U		0.00015	B	F	21	16	No
TUB01	0267	N001	07/22/2010	Selenium	0.058		F	0.0532		F	0.04		F	21	0	No
TUB01	0267	N001	07/22/2010	Sodium	410		F	395		F	330		F	18	0	No
TUB01	0271	N001	07/22/2010	Molybdenum	0.00031		F	0.003	U		0.00032	B	QF	14	10	No
TUB01	0271	N001	07/22/2010	Potassium	0.99	B	FJ	2.2	E	F	1.65		F	10	0	Yes
TUB01	0272	N001	07/21/2010	Arsenic	0.002		F	0.0019		F	0.0012		F	13	0	No
TUB01	0272	N001	07/21/2010	Potassium	0.85	B	FJ	2.2		F	0.92	B	FJ	13	0	No
TUB01	0272	N002	07/21/2010	Potassium	0.81	B	FJ	2.2		F	0.92	B	FJ	13	0	No
TUB01	0273	N001	07/20/2010	Calcium	230		FQ	200		FQ	110		FQ	11	0	No
TUB01	0273	N001	07/20/2010	Chloride	55		FQ	50		FQ	29		QFJ	11	0	No

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						Qualifiers			Qualifiers			Qualifiers				
Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	0273	N001	07/20/2010	Magnesium	39		FQ	34		FQ	21		FQ	11	0	No
TUB01	0273	N001	07/20/2010	Selenium	0.024		FQ	0.021		FQ	0.011		FQ	11	0	No
TUB01	0273	N001	07/20/2010	Sodium	43		FQ	38		FQ	24		FQ	11	0	No
TUB01	0273	N001	07/20/2010	Sulfate	310		FQ	250		FQ	120		QFJ	11	0	No
TUB01	0273	N001	07/20/2010	Total Dissolved Solids	1200		FQ	1000		FQ	510		FQ	11	0	No
TUB01	0273	N001	07/20/2010	Uranium	0.086		FQ	0.068		FQ	0.028		QF	11	0	No
TUB01	0274	N001	07/20/2010	Molybdenum	0.00042		FQ	0.0016		UFQ	0.00047	B	QF	11	7	No
TUB01	0275	N001	07/20/2010	Selenium	0.031		F	0.022		F	0.017		F	11	0	Yes
TUB01	0275	N001	07/20/2010	Total Dissolved Solids	5800		F	5600		FJ	4500		F	11	0	No
TUB01	0276	N001	07/20/2010	Iron	0.019	B	FJ	0.014	U	F	0.0016	U	JF	12	12	No
TUB01	0277	N001	07/21/2010	Arsenic	0.00051		FQ	0.0005		FQ	0.0001		F	6	2	No
TUB01	0277	N001	07/21/2010	Calcium	26		FQ	30		FQ	27		F	6	0	No
TUB01	0277	N001	07/21/2010	Chloride	9.9		FQ	11		F	10		FQ	6	0	No
TUB01	0277	N001	07/21/2010	Molybdenum	0.0002		FQ	0.0016		F	0.00045	B	UFQ	6	3	No
TUB01	0277	N001	07/21/2010	Potassium	1.5		FQJ	3.1			2.4		FQ	6	0	Yes
TUB01	0278	N001	07/20/2010	Chloride	8.9		FQ	10		FQ	9.1		FQ	6	0	No
TUB01	0278	N001	07/20/2010	Iron	0.037	B	FQ	0.018	B	UFQ	0.0034	U	QF	6	5	Yes
TUB01	0278	N001	07/20/2010	Potassium	1.9		FQJ	2.9		FQ	2.3		FQ	6	0	No
TUB01	0279	N001	07/20/2010	Potassium	1.8		FJ	2.7		F	2.1		F	6	0	No
TUB01	0280	N001	07/20/2010	Arsenic	0.0023		FQ	0.0021		FQ	0.0014		FQ	7	0	No
TUB01	0280	N001	07/20/2010	Molybdenum	0.00051		FQ	0.0013		UFQ	0.00053	B	UQF	7	5	No
TUB01	0280	N001	07/20/2010	Potassium	1.4		FQJ	2.2		FQ	1.8		FQ	7	0	Yes
TUB01	0280	N001	07/20/2010	Uranium	0.0016		FQ	0.0015		FQ	0.0011		FQ	7	0	No
TUB01	0281	0001	07/22/2010	Potassium	1.5		FQJ	6		FQ	1.6		FQJ	12	0	No
TUB01	0281	0001	07/22/2010	Sodium	19		FQ	30		FQ	21		FQ	12	0	No
TUB01	0281	0001	07/22/2010	Total Dissolved Solids	690		FQ	660		FQ	410		FQ	11	0	No
TUB01	0282	N001	07/22/2010	Iron	0.12		FQ	0.1		FQ	0.0014	U	FQ	11	8	No
TUB01	0282	N001	07/22/2010	Molybdenum	0.0005		FQ	0.0048		F	0.00058	B	FQ	11	5	No

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						Qualifiers			Qualifiers			Qualifiers		Data Points		Outlier
Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	0286	N001	07/20/2010	Ammonia Total as N	2.1		FQ	2		FQ	0.1	U	F	5	3	No
TUB01	0286	N001	07/20/2010	Arsenic	0.0009		FQ	0.00078		FQ	0.00041		F	5	0	No
TUB01	0286	N001	07/20/2010	Molybdenum	0.00076		FQ	0.00065	B	UFQ	0.00025	B	UFQ	5	3	No
TUB01	0287	N001	07/20/2010	Arsenic	0.0017		FQ	0.0015		FQ	0.00093		FQ	5	0	No
TUB01	0287	N001	07/20/2010	Calcium	920		FQ	900		FQ	650		FQ	5	0	No
TUB01	0287	N001	07/20/2010	Iron	0.12		FQ	0.046	B	UFQ	0.0026	U	FQ	5	5	Yes
TUB01	0287	N001	07/20/2010	Molybdenum	0.097		FQ	0.081		FQ	0.023		FQ	5	0	No
TUB01	0287	N001	07/20/2010	Potassium	9.7		FQJ	9.2		FQ	4.6	B	FQJ	5	0	No
TUB01	0287	N001	07/20/2010	Selenium	0.12		FQ	0.099		FQ	0.081		FQ	5	0	No
TUB01	0287	N001	07/20/2010	Sodium	230		FQ	210		FQ	170		FQ	5	0	No
TUB01	0287	N001	07/20/2010	Total Dissolved Solids	5300		FQ	4400		FQ	3200		FQ	5	0	No
TUB01	0288	N001	07/21/2010	Arsenic	0.00059		FQ	0.00056		FQ	0.00046		FQJ	5	0	No
TUB01	0288	N001	07/21/2010	Calcium	200		FQ	330		FQ	230		FQ	5	0	No
TUB01	0288	N001	07/21/2010	Iron	0.0064	B	FQJ	0.12		FQ	0.0072	U	FQ	5	2	No
TUB01	0288	N001	07/21/2010	Magnesium	38		FQ	63		FQ	42		FQ	5	0	No
TUB01	0288	N001	07/21/2010	Manganese	0.0015	B	FQ	0.019		FQ	0.0029	B	UFQ	5	1	No
TUB01	0288	N001	07/21/2010	Molybdenum	0.000082	B	FQ	0.00033	B	FQ	0.00016	B	UFQ	5	4	No
TUB01	0288	N001	07/21/2010	Nitrate + Nitrite as Nitrogen	55		FQ	110		FQJ	57		FQ	5	0	No
TUB01	0288	N001	07/21/2010	Sodium	48		FQ	74		FQ	54		FQ	5	0	No
TUB01	0288	N001	07/21/2010	Sulfate	280		FQ	632			290		FQ	6	0	No
TUB01	0288	N001	07/21/2010	Uranium	0.012		FQ	0.0342			0.014		FQ	6	0	No
TUB01	0289	N001	07/21/2010	Molybdenum	0.00032		FQ	0.00099	B	FQJ	0.00043	B	UFQ	5	1	No
TUB01	0289	N001	07/21/2010	Selenium	0.0036		FQ	0.0034		FQ	0.0024		FQ	5	0	No
TUB01	0289	N001	07/21/2010	Silicon	7.1		FQ	7		FQ	6.6		FQ	5	0	No
TUB01	0290	N001	07/21/2010	Calcium	67		FQ	44		FQ	35		FQ	5	0	Yes
TUB01	0290	N001	07/21/2010	Chloride	23		FQ	20			13		FQ	6	0	No
TUB01	0290	N001	07/21/2010	Magnesium	11		FQ	7.1		FQ	5.8		FQ	5	0	Yes
TUB01	0290	N001	07/21/2010	Molybdenum	0.00033		FQ	0.0018		FQJ	0.00053	B	FQJ	5	0	No

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Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	0290	N001	07/21/2010	Nitrate + Nitrite as Nitrogen	17		FQ	7.3		FQ	3.6		FQ	5	0	Yes
TUB01	0290	N001	07/21/2010	Selenium	0.0025		FQ	0.0018		FQ	0.0014	E	FQ	5	0	Yes
TUB01	0290	N001	07/21/2010	Sodium	17	E	FQ	13		FQ	13		FQ	5	0	Yes
TUB01	0290	N001	07/21/2010	Sulfate	71		FQ	44			19		FQ	6	0	Yes
TUB01	0290	N001	07/21/2010	Total Dissolved Solids	340		FQ	220		FQ	180		FQ	5	0	Yes
TUB01	0683	N001	07/21/2010	Potassium	0.96	B	FQJ	5.4		F	1.6		JF	12	0	No
TUB01	0683	N001	07/21/2010	Total Dissolved Solids	160		FQ	323		L	170		FQ	12	0	No
TUB01	0684	N001	07/21/2010	Arsenic	0.0029		FQ	0.0028		FQ	0.0024	B	F	9	0	No
TUB01	0684	N001	07/21/2010	Potassium	0.74	B	FQJ	5.4		FQ	1.38		JFQ	11	0	No
TUB01	0685	N001	07/20/2010	Arsenic	0.003		F	0.0028		F	0.0024	B	F	9	0	No
TUB01	0685	N001	07/20/2010	Potassium	1.2		FJ	2.6			1.3		F	11	0	No
TUB01	0686	N001	07/21/2010	Potassium	0.78	B	FJ	4.2		F	0.885		F	18	0	No
TUB01	0686	N002	07/21/2010	Potassium	0.73	B	FJ	4.2		F	0.885		F	18	0	No
TUB01	0686	N002	07/21/2010	Silica	8.5		F	12.3		L	9		F	21	0	No
TUB01	0686	N001	07/21/2010	Silica	8.5		F	12.3		L	9		F	21	0	No
TUB01	0686	N001	07/21/2010	Silicon	4		F	5.4		F	4.2		F	9	0	No
TUB01	0686	N002	07/21/2010	Silicon	4		F	5.4		F	4.2		F	9	0	No
TUB01	0687	N001	07/20/2010	Sulfate	17		F	388			18.8		F	21	0	No
TUB01	0688	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	6.7		F	12		FJ	7.3		F	7	0	No
TUB01	0689	N001	07/20/2010	Arsenic	0.0021		FQ	0.002		F	0.0016	B	F	11	0	No
TUB01	0689	N001	07/20/2010	Potassium	1.3		FQJ	2.3		F	1.36	E	JF	15	0	No
TUB01	0690	N001	07/20/2010	Molybdenum	0.00025		FQ	0.0043	B	UL	0.0004	B	FQ	19	11	No
TUB01	0690	N001	07/20/2010	Potassium	2.2		FQJ	3.3		FQ	2.4		QF	16	0	No
TUB01	0691	N001	07/20/2010	Molybdenum	0.000056	B	F	0.003	U		0.00023	B	F	25	19	No
TUB01	0691	N001	07/20/2010	Total Dissolved Solids	3200		F	1680		F	370		FQJ	21	0	No
TUB01	0692	N001	07/20/2010	Arsenic	0.0075		FQ	0.0073		FQ	0.0026	B	FQ	11	0	No
TUB01	0692	N001	07/20/2010	Magnesium	6.5		FQ	7.93		L	6.68		L	15	0	No
TUB01	0692	N001	07/20/2010	Molybdenum	0.000078	B	FQ	0.003	U		0.00043	B	FQ	18	10	Yes

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TUB01	0692	N001	07/20/2010	Sodium	12		FQ	21.2		L	13		FQ	15	0	No
TUB01	0695	N001	07/20/2010	Arsenic	0.0017		F	0.0016		F	0.0014	B	F	9	0	No
TUB01	0695	N001	07/20/2010	Potassium	1.8		FJ	2.7		F	1.88		F	12	0	No
TUB01	0901	N001	07/21/2010	Magnesium	8.3		F	8.1		F	5.2			33	0	No
TUB01	0901	N001	07/21/2010	Potassium	0.92	B	FJ	2.1		F	0.95			33	0	No
TUB01	0903	N001	07/21/2010	Potassium	1.2		FJ	3		F	1.22			32	0	No
TUB01	0910	N001	07/21/2010	Potassium	0.57	B	FJ	2			0.83		F	19	0	Yes
TUB01	0911	N001	07/21/2010	Potassium	0.88	B	FQJ	5.6		GF	1.7		FQ	13	0	No
TUB01	0912	N001	07/22/2010	Molybdenum	0.00016		FQ	0.02			0.00018	B	FQ	37	32	No
TUB01	0913	N001	07/22/2010	Potassium	0.92	B	FQJ	2.9		F	1.7		F	24	0	No
TUB01	0913	N001	07/22/2010	Sodium	6.8		FQ	9.57			6.9		FQ	24	0	No
TUB01	0914	N001	07/22/2010	Magnesium	0.19	B	FQ	7.98		F	0.2	B	FQ	31	0	No
TUB01	0914	N001	07/22/2010	Uranium	0.000006	B	FQ	0.011		F	0.000014	B	UFQ	33	8	No
TUB01	0915	N001	07/21/2010	Potassium	1.4		FQJ	4.58		GFJ	1.92			21	0	No
TUB01	0915	N001	07/21/2010	Sodium	12		FQ	21.8		G	13		FQ	21	0	No
TUB01	0915	N001	07/21/2010	Uranium	0.000009	B	FQ	0.0018		GF	0.0000099	B	UFQ	22	10	No
TUB01	0916	N001	07/21/2010	Silicon	5.9		FQ	9.1		FQ	6.6		FQG	5	0	No
TUB01	0920	N001	07/21/2010	Potassium	1		FJ	2.5		F	1.69		F	25	0	No
TUB01	0921	N001	07/20/2010	Potassium	4.6		FJ	7.71			5.47			25	0	Yes
TUB01	0932	N001	07/21/2010	Potassium	1.2		FJ	3.9		F	1.3		FJ	26	0	No
TUB01	0934	N001	07/20/2010	Molybdenum	0.00014	B	FQ	0.01	U	F	0.00016	B	J	29	24	No
TUB01	0935	N001	07/20/2010	Ammonia Total as N	63			98			69			10	0	No
TUB01	0935	N001	07/20/2010	Iron	0.051	B		0.044	B	UF	0.00097	B	U	30	26	No
TUB01	0936	N001	07/20/2010	Ammonia Total as N	3.1			19			6.7		FQ	5	0	No
TUB01	0936	N001	07/20/2010	Calcium	380			920		FQ	490			15	0	No
TUB01	0936	N001	07/20/2010	Chloride	64			261		F	100			15	1	No
TUB01	0936	N001	07/20/2010	Magnesium	190			1770			530			15	0	No
TUB01	0936	N001	07/20/2010	Manganese	1.3			23.1			4.5		F	16	0	No

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TUB01	0936	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	200			550		FQ	290			5	0	No
TUB01	0936	N001	07/20/2010	Potassium	7.2		J	31.2			12.8		QF	15	0	No
TUB01	0936	N001	07/20/2010	Selenium	0.017			0.188	N	J	0.018		F	19	0	No
TUB01	0936	N001	07/20/2010	Sodium	73			360		QF	120			15	0	No
TUB01	0936	N001	07/20/2010	Sulfate	710			5400			1600			18	0	No
TUB01	0936	N001	07/20/2010	Total Dissolved Solids	2900			13300			5200			15	0	No
TUB01	0936	N001	07/20/2010	Uranium	0.13			0.606		QF	0.2			18	0	No
TUB01	0938	N001	07/20/2010	Arsenic	0.0016			0.0015			0.00087			10	0	No
TUB01	0938	N001	07/20/2010	Calcium	970			960		FQ	490			17	0	No
TUB01	0938	N001	07/20/2010	Magnesium	530			472			150		F	17	0	No
TUB01	0938	N001	07/20/2010	Manganese	0.74			0.12		FQ	0.0092	B	F	16	0	No
TUB01	0938	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	360			260		FQ	130		J	10	0	No
TUB01	0938	N001	07/20/2010	Potassium	15		J	11		FQ	5.34			17	0	Yes
TUB01	0938	N001	07/20/2010	Sodium	350			249			120			17	0	No
TUB01	0938	N001	07/20/2010	Sulfate	2800			2300		FQ	950		F	17	0	No
TUB01	0938	N001	07/20/2010	Total Dissolved Solids	7600			6650			2700		F	17	0	No
TUB01	0940	N001	07/21/2010	Magnesium	2800		FQ	2590		F	1140		F	14	0	No
TUB01	0940	N001	07/21/2010	Manganese	26		FQ	64.8		F	39.6		L	15	0	Yes
TUB01	0941	N001	07/20/2010	Calcium	930		FQ	820		FQ	122		F	27	0	No
TUB01	0941	N001	07/20/2010	Selenium	0.099		FQ	0.098		FQ	0.0182		L	32	0	No
TUB01	0941	N001	07/20/2010	Total Dissolved Solids	4900		FQ	4400		FQ	755			26	0	No
TUB01	0942	N001	07/20/2010	Magnesium	410			755		F	420			29	0	No
TUB01	0942	N001	07/20/2010	Manganese	2.9			4.5			2.96			30	0	No
TUB01	0943	N001	07/20/2010	Arsenic	0.0044			0.0031		F	0.00078		F	14	0	No
TUB01	0943	N001	07/20/2010	Calcium	11			300		F	18		F	18	0	No
TUB01	0943	N001	07/20/2010	Chloride	2			100		F	3.7		F	18	1	No
TUB01	0943	N001	07/20/2010	Magnesium	2.4			61		F	3.8		F	18	0	No
TUB01	0943	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	2.3			75		F	3.6		F	9	0	No

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TUB01	0943	N001	07/20/2010	Potassium	0.61	B	J	7.2		F	1.45			18	0	No
TUB01	0943	N001	07/20/2010	Selenium	0.00035		J	0.01		F	0.00076		F	22	3	No
TUB01	0943	N001	07/20/2010	Sodium	15			89		F	16		F	18	0	No
TUB01	0943	N001	07/20/2010	Sulfate	26			620		F	26.2			21	0	No
TUB01	0943	N001	07/20/2010	Total Dissolved Solids	110			1600		F	130		FJ	18	0	No
TUB01	0945	N001	07/21/2010	Arsenic	0.0022		FQ	0.0021		FQ	0.00087	B	QF	10	0	No
TUB01	0945	N001	07/21/2010	Potassium	1		FQJ	3.6		FQ	1.48		F	19	0	No
TUB01	0946	N001	07/20/2010	Calcium	14		F	165		F	18		F	12	0	No
TUB01	0946	N001	07/20/2010	Chloride	4.4		F	173		F	5.3		F	12	0	No
TUB01	0946	N001	07/20/2010	Magnesium	2.4		F	27.6		F	3.2		F	12	0	No
TUB01	0946	N001	07/20/2010	Molybdenum	0.00049		F	0.012		F	0.00057	B	UF	12	5	No
TUB01	0946	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	2.3		F	8.1		FJ	2.4		FJ	8	0	No
TUB01	0946	N001	07/20/2010	Potassium	0.34	B	FJ	2.7	E	JF	1.2		F	12	0	No
TUB01	0946	N001	07/20/2010	Selenium	0.00063		F	0.0175		F	0.00083		F	12	0	No
TUB01	0946	N001	07/20/2010	Sulfate	25		F	191		F	36		FJ	12	0	No
TUB01	0946	N001	07/20/2010	Total Dissolved Solids	110		F	1320		F	160		F	12	0	No
TUB01	0947	N001	07/21/2010	Molybdenum	0.00044		FQ	0.01	U	F	0.00048	B	UFQ	9	6	No
TUB01	0947	N001	07/21/2010	Potassium	0.68	B	FQJ	2.1		F	1.4		FQJ	8	0	Yes
TUB01	1003	N001	07/20/2010	Calcium	320		F	300		F	58		F	10	0	No
TUB01	1003	N001	07/20/2010	Molybdenum	0.00017		F	0.0018	U	F	0.00021	B	UF	10	10	No
TUB01	1003	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	61		F	53		FJ	8.3		F	6	0	No
TUB01	1003	N001	07/20/2010	Total Dissolved Solids	1600		F	1500		F	290		F	10	0	No
TUB01	1003	N001	07/20/2010	Uranium	0.038		F	0.037		F	0.0021		F	10	0	No
TUB01	1004	N001	07/20/2010	Arsenic	0.0029		F	0.0028		F	0.002		F	12	0	No
TUB01	1004	N001	07/20/2010	Iron	0.11		F	0.028	B	UF	0.0034	U	F	13	9	Yes
TUB01	1004	N001	07/20/2010	Potassium	0.9	B	FJ	2.2			0.99	B	F	13	0	No
TUB01	1006	N001	07/20/2010	Calcium	25		F	28		F	25.2		F	10	0	No
TUB01	1006	N001	07/20/2010	Potassium	1.5		FJ	2.9			2.1	E	JF	10	0	No

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TUB01	1007	N001	07/20/2010	Arsenic	0.0023		F	0.002	B	F	0.00044		F	9	0	No
TUB01	1007	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	3.1		F	4.6		FJ	3.2		F	6	0	No
TUB01	1101	N001	07/19/2010	Arsenic	0.0016			0.0013		F	0.00074		J	11	0	No
TUB01	1101	N001	07/19/2010	Nitrate + Nitrite as Nitrogen	69			160		J	72			7	0	No
TUB01	1102	N001	07/19/2010	Ammonia Total as N	0.5			2.8		F	0.87			6	0	No
TUB01	1102	N001	07/19/2010	Arsenic	0.0017			0.0014			0.00088			11	0	No
TUB01	1102	N001	07/19/2010	Molybdenum	0.00016	U		0.003	U		0.00022	B		18	13	No
TUB01	1103	N001	07/20/2010	Arsenic	0.0052			0.0014			0.00071		J	10	0	Yes
TUB01	1103	N001	07/20/2010	Iron	5.5			1.14			0.0017	B	U	17	8	Yes
TUB01	1103	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	240			230			130		J	6	0	No
TUB01	1104	N001	07/19/2010	Ammonia Total as N	19			37		F	22			5	0	No
TUB01	1104	N001	07/19/2010	Arsenic	0.0022			0.0019		F	0.0011		J	9	0	No
TUB01	1104	N001	07/19/2010	Magnesium	130			310			140			12	0	No
TUB01	1104	N001	07/19/2010	Nitrate + Nitrite as Nitrogen	110			170		F	120			5	0	No
TUB01	1106	N001	07/19/2010	Arsenic	0.18			1.11			0.23			11	0	No
TUB01	1106	N001	07/19/2010	Molybdenum	0.088			1.41			0.16			18	0	No
TUB01	1107	N001	07/19/2010	Ammonia Total as N	0.59			0.1	U	F	0.1	U	F	7	7	Yes
TUB01	1107	N001	07/19/2010	Arsenic	0.0027			0.002			0.0011	B		12	0	No
TUB01	1107	N001	07/19/2010	Calcium	840			797			158			15	0	No
TUB01	1107	N001	07/19/2010	Magnesium	150			145			29			15	0	No
TUB01	1107	N001	07/19/2010	Manganese	0.13			0.0637			0.0023	B		19	1	No
TUB01	1107	N001	07/19/2010	Nitrate + Nitrite as Nitrogen	230			75	N	J	45			7	0	Yes
TUB01	1107	N001	07/19/2010	Potassium	9.3		J	6.65			2.32			15	0	No
TUB01	1107	N001	07/19/2010	Silicon	7.6			6.3			5.5			8	0	Yes
TUB01	1107	N001	07/19/2010	Sulfate	1600			1440			217			20	0	No
TUB01	1107	N001	07/19/2010	Uranium	0.23			0.129			0.034			20	0	No
TUB01	1108	N001	07/19/2010	Magnesium	210			669			220			14	0	No
TUB01	1109	N001	07/19/2010	Ammonia Total as N	17			14			3.9			7	0	No

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TUB01	1111	N001	07/19/2010	Ammonia Total as N	21			10			2.7			6	0	No
TUB01	1111	N001	07/19/2010	Calcium	700			500			248			13	0	Yes
TUB01	1111	N001	07/19/2010	Chloride	90			85.5			32.5			14	0	No
TUB01	1111	N001	07/19/2010	Molybdenum	0.000064	U		0.003	U		0.00011	B		17	14	No
TUB01	1111	N001	07/19/2010	Nitrate + Nitrite as Nitrogen	160			130		J	84			6	0	No
TUB01	1111	N001	07/19/2010	Potassium	15		J	14.5			4.62			13	0	Yes
TUB01	1111	N001	07/19/2010	Silicon	8.1			7.7			6.6			7	0	No
TUB01	1112	N001	07/20/2010	Molybdenum	0.00023			0.003	U		0.00027	B	U	17	14	No
TUB01	1112	N001	07/20/2010	Potassium	2.1		J	6.89		L	2.18			13	0	No
TUB01	1114	N001	07/20/2010	Calcium	410			380			106			12	0	No
TUB01	1114	N001	07/20/2010	Chloride	41			39			17.1			13	0	No
TUB01	1114	N001	07/20/2010	Selenium	0.011			0.0087			0.0023	B		16	0	No
TUB01	1114	N001	07/20/2010	Sodium	67			66			16.2			12	0	No
TUB01	1114	N001	07/20/2010	Sulfate	740			680		J	137			17	0	No
TUB01	1115	N001	07/20/2010	Molybdenum	0.00016			0.003	U		0.0002	B		17	13	No
TUB01	1116-	N001	07/20/2010	Molybdenum	0.00012			0.003	U		0.00015	B	U	14	13	No
TUB01	1116	N001	07/20/2010	Selenium	0.0036			0.0033			0.0016	B		14	0	No
TUB01	1117	N001	07/20/2010	Iron	0.067	B		0.028	B	U	0.0018	B		17	13	Yes
TUB01	1117	N001	07/20/2010	Manganese	0.02			0.019			0.0001	U		17	7	No
TUB01	1117	N002	07/20/2010	Manganese	0.02			0.019			0.0001	U		17	7	No
TUB01	1117	N001	07/20/2010	Molybdenum	0.00013			0.003	U		0.00014	B	U	17	15	No
TUB01	1117	N002	07/20/2010	Molybdenum	0.00013			0.003	U		0.00014	B	U	17	15	No
TUB01	1117	N001	07/20/2010	Silicon	6.9			8.2		F	7			6	0	No
TUB01	1118	N001	07/20/2010	Ammonia Total as N	14			13		J	3.8		F	5	0	No
TUB01	1118	N001	07/20/2010	Chloride	67			61		F	26.1			12	0	No
TUB01	1118	N002	07/20/2010	Selenium	0.02			0.019			0.0028	B		15	0	No
TUB01	1119	N001	07/20/2010	Iron	0.22			0.151			0.0008	U		19	14	No
TUB01	1120	N002	07/20/2010	Chloride	61			197			68			16	0	No

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TUB01	1120	N001	07/20/2010	Chloride	66			197			68			16	0	No
TUB01	1120	N002	07/20/2010	Nitrate + Nitrite as Nitrogen	38			110		F	47			8	0	No
TUB01	1120	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	39			110		F	47			8	0	No
TUB01	1120	N002	07/20/2010	Selenium	0.017			0.0697			0.019			19	0	No
TUB01	1120	N001	07/20/2010	Selenium	0.016			0.0697			0.019			19	0	No
TUB01	1120	N001	07/20/2010	Sodium	200			669			210			15	0	No
TUB01	1120	N002	07/20/2010	Sodium	200			669			210			15	0	No
TUB01	1120	N002	07/20/2010	Uranium	0.15			1.64			0.17			20	0	No
TUB01	1120	N001	07/20/2010	Uranium	0.15			1.64			0.17			20	0	No
TUB01	1121	N001	07/21/2010	Nitrate + Nitrite as Nitrogen	13			88			14			6	0	No
TUB01	1121	N001	07/21/2010	Selenium	0.0041			0.0527			0.005			20	0	No
TUB01	1122	N001	07/19/2010	Uranium	0.22			1.14			0.263			16	0	No
TUB01	1123	N001	07/19/2010	Ammonia Total as N	21			8.5			0.1	U	F	5	4	No
TUB01	1123	N001	07/19/2010	Arsenic	0.0028			0.0026			0.00098	B		9	0	No
TUB01	1123	N001	07/19/2010	Chloride	160			139			19		J	13	0	No
TUB01	1123	N001	07/19/2010	Iron	1.2			0.38			0.0024	B	U	16	13	Yes
TUB01	1123	N001	07/19/2010	Magnesium	260			174			20			13	0	No
TUB01	1123	N001	07/19/2010	Manganese	0.098			0.0251			0.00006	B	U	16	5	No
TUB01	1123	N001	07/19/2010	Potassium	19		J	16			2.1			13	0	Yes
TUB01	1123	N001	07/19/2010	Silica	18			17.6			12			16	0	No
TUB01	1123	N001	07/19/2010	Silicon	8.4			7.3			5.8			6	0	No
TUB01	1123	N001	07/19/2010	Sodium	380			374			36			13	0	No
TUB01	1123	N001	07/19/2010	Sulfate	2500			1940			160		J	17	0	No
TUB01	1124	N001	07/19/2010	Calcium	740			576			230			11	0	No
TUB01	1124	N001	07/19/2010	Chloride	110			107			38		J	11	0	No
TUB01	1124	N001	07/19/2010	Magnesium	110			95			37			11	0	No
TUB01	1124	N001	07/19/2010	Selenium	0.03			0.022			0.0061			17	0	Yes
TUB01	1124	N001	07/19/2010	Sodium	260			170			46			11	0	Yes

Data Validation Outliers Report - No Field Parameters
Comparison: All Historical Data
Laboratory: ALS Laboratory Group
RIN: 10073213
Report Date: 12/22/2010

					Current			Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
						Qualifiers			Qualifiers			Qualifiers				
Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	1124	N001	07/19/2010	Sulfate	1700			1200		J	320		J	17	0	No
TUB01	1124	N001	07/19/2010	Total Dissolved Solids	4000			3000		J	1100		J	11	0	No
TUB01	1124	N001	07/19/2010	Uranium	0.3			0.2			0.051			17	0	Yes
TUB01	1125	N001	07/20/2010	Arsenic	0.0027			0.0025			0.0013	B		10	0	No
TUB01	1125	N001	07/20/2010	Calcium	45			133			58			13	0	No
TUB01	1125	N001	07/20/2010	Iron	0.17			0.12			0.002	B	U	17	15	No
TUB01	1125	N001	07/20/2010	Magnesium	9.3			22.9			10.1			13	0	No
TUB01	1125	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	7.1			17		J	9.7		J	6	0	No
TUB01	1125	N001	07/20/2010	Potassium	1.1		J	2.8			1.97			13	0	Yes
TUB01	1125	N001	07/20/2010	Silicon	5.4			6.7			5.5		F	7	0	No
TUB01	1125	N001	07/20/2010	Sodium	13			25.7			15			13	0	No
TUB01	1125	N001	07/20/2010	Sulfate	42			595			66			18	0	No
TUB01	1125	N001	07/20/2010	Total Dissolved Solids	260			2520			310		J	13	0	No
TUB01	1129	N001	07/20/2010	Arsenic	0.0017			0.0015			0.001		F	5	0	No
TUB01	1129	N001	07/20/2010	Molybdenum	0.75			0.74			0.45		F	5	0	No
TUB01	1129	N001	07/20/2010	Potassium	4.9		J	7.1		F	5.6			5	0	No
TUB01	1129	N001	07/20/2010	Selenium	0.065			0.064		F	0.057			5	0	No
TUB01	1130	N001	07/20/2010	Arsenic	0.0016			0.0014			0.00093			5	0	No
TUB01	1130	N001	07/20/2010	Calcium	370			810			590			5	0	No
TUB01	1130	N001	07/20/2010	Chloride	69			170			99		F	6	0	No
TUB01	1130	N001	07/20/2010	Magnesium	95			240			170		F	5	0	No
TUB01	1130	N001	07/20/2010	Manganese	0.083			0.22			0.11		F	5	0	No
TUB01	1130	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	100			280	N	J	160		F	5	0	No
TUB01	1130	N001	07/20/2010	Potassium	6.2	E	J	18			11		F	5	0	No
TUB01	1130	N001	07/20/2010	Selenium	0.017			0.03			0.023		F	5	0	No
TUB01	1130	N001	07/20/2010	Silica	14			18			15		F	5	0	No
TUB01	1130	N001	07/20/2010	Silicon	6.5			8.3			7.1		F	5	0	No
TUB01	1130	N001	07/20/2010	Sodium	120			260			150		F	5	0	No

Data Validation Outliers Report - No Field Parameters
Comparison: All Historical Data
Laboratory: ALS Laboratory Group
RIN: 10073213
Report Date: 12/22/2010

					Current			Historical Maximum			Historical Minimum			Number of Data Points		Statistical Outlier
						Qualifiers			Qualifiers			Qualifiers				
Site Code	Location Code	Sample ID	Sample Date	Analyte	Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect	
TUB01	1130	N001	07/20/2010	Sulfate	870			2000	N	J	1200		F	6	0	No
TUB01	1130	N001	07/20/2010	Total Dissolved Solids	2300			5000		J	3300		F	5	0	No
TUB01	1130	N001	07/20/2010	Uranium	0.14			0.28			0.2		F	6	0	No
TUB01	1132	N001	07/20/2010	Magnesium	310			200		F	67			5	0	No
TUB01	1132	N001	07/20/2010	Molybdenum	1.8			1.5			0.25			5	0	No
TUB01	1132	N001	07/20/2010	Nitrate + Nitrite as Nitrogen	270			260		F	73			5	0	No
TUB01	1132	N001	07/20/2010	Selenium	0.14			0.13		F	0.03			5	0	No
TUB01	1132	N001	07/20/2010	Silicon	6.5			7.3		F	6.6			5	0	No
TUB01	1132	N001	07/20/2010	Sodium	410			310		F	68			5	0	No
TUB01	1132	N001	07/20/2010	Sulfate	2600			2100		F	570			6	0	No
TUB01	1132	N001	07/20/2010	Total Dissolved Solids	6600			5700		F	1700			5	0	No
TUB01	1132	N001	07/20/2010	Uranium	2.3			1.7		F	0.37			6	0	No
TUB01	1133	N001	07/21/2010	Chloride	120			74			27			5	0	No
TUB01	1571	0001	07/21/2010	Chloride	40			57.6			41			10	0	No
TUB01	1571	0001	07/21/2010	Sodium	58			109			64			10	0	No
TUB01	1571	0001	07/21/2010	Total Dissolved Solids	370			502			380			10	0	No
TUB01	1571	0001	07/21/2010	Uranium	0.0033			0.0079		J	0.0037			14	0	No
TUB01	1573	N001	07/21/2010	Chloride	29			28			23			11	0	No
TUB01	1573	N001	07/21/2010	Nitrate + Nitrite as Nitrogen	0.51			1.2			0.61			6	0	No
TUB01	1573	N001	07/21/2010	Potassium	0.73	B	J	3.1			1.35			11	0	No

STATISTICAL TESTS:
The distribution of the data is tested for normality or lognormality using the Shapiro-Wilk Test
Outliers are identified using Dixon's Test when there are 25 or fewer data points.
Outliers are identified using Rosner's Test when there are 26 or more data points.
See Data Quality Assessment: Statistical Methods for Practitioners, EPA QC/G-9S, February 2006.

Anomalous Data Review Checksheet

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Anomalous Data Review Checksheet

Site: Tuba City, Arizona, Disposal Site **Sampling Data:** Water Sampling

Reviewer: Gretchen Baer Signature 1-5-11 Date

Site Hydrologist: Tim Bartlett Signature 1/5/11 Date

Date of Review: October 19, 2010

Loc. No.	Analyte	Type of Anomaly	Disposition
0684	Alkalinity (Field Measurement)	High	Compare to future results.
0938	Manganese	High	Compare to future results.
1004	Iron	High	Compare to future results.
1103	Arsenic	High	Compare to future results.
1103	Iron	High	Compare to future results.

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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: 12/22/2010
Location: 0251 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	200	-	300	93		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	200	-	300	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	200	-	300	0.0022		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	200	-	300	29		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	200	-	300	6.7		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	200	-	300	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	200	-	300	6.1		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	200	-	300	0.0021	B	FQ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	200	-	300	0.00022		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	200	-	300	4		FQ	#	0.05	
Oxidation Reduction Potential	mV	07/21/2010	N001	200	-	300	106.2		RFQ	#		
pH	s.u.	07/21/2010	N001	200	-	300	7.78		FQ	#		
Potassium	mg/L	07/21/2010	N001	200	-	300	1.5		FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	200	-	300	0.00091		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	200	-	300	11		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	200	-	300	4.9		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	200	-	300	5.8		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	200	-	300	234		FQ	#		
Sulfate	mg/L	07/21/2010	N001	200	-	300	15		FQ	#	1	
Temperature	C	07/21/2010	N001	200	-	300	18.27		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	200	-	300	150		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	200	-	300	1.56		FQ	#		
Uranium	mg/L	07/21/2010	N001	200	-	300	0.0018		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0252 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	400	-	500	90		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	400	-	500	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	400	-	500	0.0023		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	400	-	500	20		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	400	-	500	4.8		F	#	0.4	
Iron	mg/L	07/21/2010	N001	400	-	500	0.022	B	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	400	-	500	4		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	400	-	500	0.0043	B	F	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	400	-	500	0.00016		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	400	-	500	2.3		F	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	400	-	500	103.1		RF	#		
pH	s.u.	07/21/2010	N001	400	-	500	8.07		F	#		
Potassium	mg/L	07/21/2010	N001	400	-	500	1.4		FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	400	-	500	0.00071		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	400	-	500	10		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	400	-	500	4.7		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	400	-	500	9.7		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	400	-	500	193		F	#		
Sulfate	mg/L	07/21/2010	N001	400	-	500	7.1		F	#	1	
Temperature	C	07/21/2010	N001	400	-	500	19.21		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	400	-	500	110		F	#	20	
Turbidity	NTU	07/21/2010	N001	400	-	500	1.39		F	#		
Uranium	mg/L	07/21/2010	N001	400	-	500	0.0019		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0258 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	159	-	199	90		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	159	-	199	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	159	-	199	0.0024		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	159	-	199	32		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	159	-	199	12		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	159	-	199	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	159	-	199	7		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	159	-	199	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	159	-	199	0.00044		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	159	-	199	3.3		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	159	-	199	123.1		FQ	#		
pH	s.u.	07/21/2010	N001	159	-	199	7.97		FQ	#		
Potassium	mg/L	07/21/2010	N001	159	-	199	0.95	B	FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	159	-	199	0.0017		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	159	-	199	12		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	159	-	199	5.7		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	159	-	199	11		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	159	-	199	296		FQ	#		
Sulfate	mg/L	07/21/2010	N001	159	-	199	18		FQ	#	1	
Temperature	C	07/21/2010	N001	159	-	199	18.35		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	159	-	199	170		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	159	-	199	0.69		FQ	#		
Uranium	mg/L	07/21/2010	N001	159	-	199	0.0013		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0261 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	160	-	200	95		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	160	-	200	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	160	-	200	0.0022		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	160	-	200	32		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	160	-	200	13		F	#	0.4	
Iron	mg/L	07/21/2010	N001	160	-	200	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	160	-	200	7.7		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	160	-	200	0.001	B	F	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	160	-	200	0.00046		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	160	-	200	3.3		F	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	160	-	200	118.2		F	#		
pH	s.u.	07/21/2010	N001	160	-	200	7.97		F	#		
Potassium	mg/L	07/21/2010	N001	160	-	200	0.97	B	FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	160	-	200	0.0017		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	160	-	200	13		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	160	-	200	6		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	160	-	200	11		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	160	-	200	299		F	#		
Sulfate	mg/L	07/21/2010	N001	160	-	200	18		F	#	1	
Temperature	C	07/21/2010	N001	160	-	200	19.71		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	160	-	200	190		F	#	20	
Turbidity	NTU	07/21/2010	N001	160	-	200	2.23		F	#		
Uranium	mg/L	07/21/2010	N001	160	-	200	0.0013		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0262 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	60	-	100	642		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	60	-	100	2.1		FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	60	-	100	0.0018		FQ	#	0.000074	
Calcium	mg/L	07/21/2010	N001	60	-	100	870		FQ	#	0.024	
Chloride	mg/L	07/21/2010	N001	60	-	100	120		FQ	#	10	
Iron	mg/L	07/21/2010	N001	60	-	100	0.0099	U	FQJ	#	0.0099	
Magnesium	mg/L	07/21/2010	N001	60	-	100	160		FQ	#	0.026	
Manganese	mg/L	07/21/2010	N001	60	-	100	0.013		FQ	#	0.00023	
Molybdenum	mg/L	07/21/2010	N001	60	-	100	1.1		FQ	#	0.00064	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	60	-	100	190		FQ	#	1	
Oxidation Reduction Potential	mV	07/21/2010	N001	60	-	100	154		FQ	#		
pH	s.u.	07/21/2010	N001	60	-	100	6.67		FQ	#		
Potassium	mg/L	07/21/2010	N001	60	-	100	8.8		FQJ	#	0.22	
Selenium	mg/L	07/21/2010	N001	60	-	100	0.091		FQ	#	0.00065	
Silica	mg/L	07/21/2010	N001	60	-	100	18		FQ	#	0.019	
Silicon	mg/L	07/21/2010	N001	60	-	100	8.6		FQ	#	0.0089	
Sodium	mg/L	07/21/2010	N001	60	-	100	230		FQ	#	0.013	
Specific Conductance	umhos/cm	07/21/2010	N001	60	-	100	4975		FQ	#		
Sulfate	mg/L	07/21/2010	N001	60	-	100	2000		FQ	#	25	
Temperature	C	07/21/2010	N001	60	-	100	18.4		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	60	-	100	5100		FQ	#	80	
Turbidity	NTU	07/21/2010	N001	60	-	100	1.46		FQ	#		
Uranium	mg/L	07/21/2010	N001	60	-	100	1		FQ	#	0.000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0263 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	60	-	100	518		FQ		#		
Ammonia Total as N	mg/L	07/20/2010	N001	60	-	100	0.1	UN	FQJ		#	0.1	
Arsenic	mg/L	07/20/2010	N001	60	-	100	0.0023		FQ		#	0.00003	
Calcium	mg/L	07/20/2010	N001	60	-	100	850		FQ		#	0.06	
Chloride	mg/L	07/20/2010	N001	60	-	100	130		FQ		#	10	
Iron	mg/L	07/20/2010	N001	60	-	100	0.089	B	FQ		#	0.0049	
Magnesium	mg/L	07/20/2010	N001	60	-	100	440		FQ		#	0.013	
Manganese	mg/L	07/20/2010	N001	60	-	100	0.0027	B	FQ		#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	60	-	100	0.016		FQ		#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	60	-	100	230		FQ		#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	60	-	100	-74.1		RFQ		#		
pH	s.u.	07/20/2010	N001	60	-	100	6.67		FQ		#		
Potassium	mg/L	07/20/2010	N001	60	-	100	10	EN	FQJ		#	0.11	
Selenium	mg/L	07/20/2010	N001	60	-	100	0.043		FQ		#	0.000065	
Silica	mg/L	07/20/2010	N001	60	-	100	15		FQ		#	0.0095	
Silicon	mg/L	07/20/2010	N001	60	-	100	7.1		FQ		#	0.0044	
Sodium	mg/L	07/20/2010	N001	60	-	100	250		FQ		#	0.033	
Specific Conductance	umhos/cm	07/20/2010	N001	60	-	100	6223		FQ		#		
Sulfate	mg/L	07/20/2010	N001	60	-	100	3000		FQ		#	25	
Temperature	C	07/20/2010	N001	60	-	100	19.78		FQ		#		
Total Dissolved Solids	mg/L	07/20/2010	N001	60	-	100	6300		FQ		#	80	
Turbidity	NTU	07/20/2010	N001	60	-	100	4.14		FQ		#		
Uranium	mg/L	07/20/2010	N001	60	-	100	0.15		FQ		#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0264 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	160	-	200	115		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	160	-	200	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	160	-	200	0.0022		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	160	-	200	60		FQ	#	0.012	
Chloride	mg/L	07/20/2010	N001	160	-	200	14		FQ	#	0.4	
Iron	mg/L	07/20/2010	N001	160	-	200	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	160	-	200	12		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	160	-	200	0.00029	B	FQJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	160	-	200	0.00039		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	160	-	200	9.3		FQ	#	0.05	
Oxidation Reduction Potential	mV	07/20/2010	N001	160	-	200	-119.4		RFQ	#		
pH	s.u.	07/20/2010	N001	160	-	200	7.98		FQ	#		
Potassium	mg/L	07/20/2010	N001	160	-	200	1.9		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	160	-	200	0.0018		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	160	-	200	13		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	160	-	200	6		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	160	-	200	15		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	160	-	200	470		FQ	#		
Sulfate	mg/L	07/20/2010	N001	160	-	200	64		FQ	#	1	
Temperature	C	07/20/2010	N001	160	-	200	20.2		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	160	-	200	300		FQ	#	20	
Turbidity	NTU	07/20/2010	N001	160	-	200	2.9		FQ	#		
Uranium	mg/L	07/20/2010	N001	160	-	200	0.0033		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0265 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	60	-	100	371		FQ	#			
Ammonia Total as N	mg/L	07/22/2010	N001	60	-	100	0.1	U	FQ	#		0.1	
Arsenic	mg/L	07/22/2010	N001	60	-	100	0.0013		FQ	#		0.000015	
Calcium	mg/L	07/22/2010	N001	60	-	100	560		FQ	#		0.024	
Chloride	mg/L	07/22/2010	N001	60	-	100	130		FQ	#		10	
Iron	mg/L	07/22/2010	N001	60	-	100	0.015	B	FQJ	#		0.0099	
Magnesium	mg/L	07/22/2010	N001	60	-	100	180		FQ	#		0.026	
Manganese	mg/L	07/22/2010	N001	60	-	100	0.0038	B	FQ	#		0.00023	
Molybdenum	mg/L	07/22/2010	N001	60	-	100	0.000047	B	FQ	#		0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	60	-	100	160		FQ	#		1	
Oxidation Reduction Potential	mV	07/22/2010	N001	60	-	100	179.8		FQ	#			
pH	s.u.	07/22/2010	N001	60	-	100	6.66		FQ	#			
Potassium	mg/L	07/22/2010	N001	60	-	100	4.8		FQJ	#		0.22	
Selenium	mg/L	07/22/2010	N001	60	-	100	0.0072		FQ	#		0.000032	
Silica	mg/L	07/22/2010	N001	60	-	100	16		FQ	#		0.019	
Silicon	mg/L	07/22/2010	N001	60	-	100	7.5		FQ	#		0.0089	
Sodium	mg/L	07/22/2010	N001	60	-	100	110		FQ	#		0.013	
Specific Conductance	umhos/cm	07/22/2010	N001	60	-	100	3919		FQ	#			
Sulfate	mg/L	07/22/2010	N001	60	-	100	1200		FQ	#		25	
Temperature	C	07/22/2010	N001	60	-	100	18.42		FQ	#			
Total Dissolved Solids	mg/L	07/22/2010	N001	60	-	100	3800		FQ	#		80	
Turbidity	NTU	07/22/2010	N001	60	-	100	0.77		FQ	#			
Uranium	mg/L	07/22/2010	N001	60	-	100	0.064		FQ	#		0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0266 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	160	-	200	85		FQ	#		
Ammonia Total as N	mg/L	07/22/2010	N001	160	-	200	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/22/2010	N001	160	-	200	0.0017		FQ	#	0.000015	
Calcium	mg/L	07/22/2010	N001	160	-	200	27		FQ	#	0.012	
Chloride	mg/L	07/22/2010	N001	160	-	200	7.6		FQ	#	0.4	
Iron	mg/L	07/22/2010	N001	160	-	200	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/22/2010	N001	160	-	200	7		FQ	#	0.013	
Manganese	mg/L	07/22/2010	N001	160	-	200	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/22/2010	N001	160	-	200	0.00035		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	160	-	200	3.2		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/22/2010	N001	160	-	200	145.1		FQ	#		
pH	s.u.	07/22/2010	N001	160	-	200	8.02		FQ	#		
Potassium	mg/L	07/22/2010	N001	160	-	200	1.5		FQJ	#	0.11	
Selenium	mg/L	07/22/2010	N001	160	-	200	0.0011		FQ	#	0.000032	
Silica	mg/L	07/22/2010	N001	160	-	200	12		FQ	#	0.0095	
Silicon	mg/L	07/22/2010	N001	160	-	200	5.7		FQ	#	0.0044	
Sodium	mg/L	07/22/2010	N001	160	-	200	5.9		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	160	-	200	241		FQ	#		
Sulfate	mg/L	07/22/2010	N001	160	-	200	11		FQ	#	1	
Temperature	C	07/22/2010	N001	160	-	200	17.33		FQ	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	160	-	200	150		FQ	#	20	
Turbidity	NTU	07/22/2010	N001	160	-	200	1.06		FQ	#		
Uranium	mg/L	07/22/2010	N001	160	-	200	0.0018		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0267 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	60	-	100	868		F	#		
Ammonia Total as N	mg/L	07/22/2010	N001	60	-	100	0.1	U	F	#	0.1	
Arsenic	mg/L	07/22/2010	N001	60	-	100	0.0037		F	#	0.000015	
Calcium	mg/L	07/22/2010	N001	60	-	100	610		F	#	0.024	
Chloride	mg/L	07/22/2010	N001	60	-	100	120		F	#	10	
Iron	mg/L	07/22/2010	N001	60	-	100	0.026	B	FJ	#	0.0099	
Magnesium	mg/L	07/22/2010	N001	60	-	100	840		F	#	0.026	
Manganese	mg/L	07/22/2010	N001	60	-	100	0.027		F	#	0.00023	
Molybdenum	mg/L	07/22/2010	N001	60	-	100	0.00011		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	60	-	100	310		F	#	2	
Oxidation Reduction Potential	mV	07/22/2010	N001	60	-	100	194.6		F	#		
pH	s.u.	07/22/2010	N001	60	-	100	6.43		F	#		
Potassium	mg/L	07/22/2010	N001	60	-	100	11		FJ	#	0.22	
Selenium	mg/L	07/22/2010	N001	60	-	100	0.058		F	#	0.000032	
Silica	mg/L	07/22/2010	N001	60	-	100	23		F	#	0.019	
Silicon	mg/L	07/22/2010	N001	60	-	100	11		F	#	0.0089	
Sodium	mg/L	07/22/2010	N001	60	-	100	410		F	#	0.013	
Specific Conductance	umhos/cm	07/22/2010	N001	60	-	100	7772		F	#		
Sulfate	mg/L	07/22/2010	N001	60	-	100	3500		F	#	25	
Temperature	C	07/22/2010	N001	60	-	100	17.6		F	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	60	-	100	7800		F	#	200	
Turbidity	NTU	07/22/2010	N001	60	-	100	1.55		F	#		
Uranium	mg/L	07/22/2010	N001	60	-	100	0.072		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0268 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	200	-	300	156		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	200	-	300	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	200	-	300	0.00067		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	200	-	300	90		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	200	-	300	16		F	#	1	
Iron	mg/L	07/20/2010	N001	200	-	300	0.0055	B	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	200	-	300	16		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	200	-	300	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	200	-	300	0.00027		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	200	-	300	17		F	#	0.1	
Oxidation Reduction Potential	mV	07/20/2010	N001	200	-	300	107		RF	#		
pH	s.u.	07/20/2010	N001	200	-	300	7.39		F	#		
Potassium	mg/L	07/20/2010	N001	200	-	300	4		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	200	-	300	0.0018		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	200	-	300	11		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	200	-	300	4.9		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	200	-	300	17		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	200	-	300	665		F	#		
Sulfate	mg/L	07/20/2010	N001	200	-	300	120		F	#	2.5	
Temperature	C	07/20/2010	N001	200	-	300	19.11		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	200	-	300	460		F	#	20	
Turbidity	NTU	07/20/2010	N001	200	-	300	0.5		F	#		
Uranium	mg/L	07/20/2010	N001	200	-	300	0.017		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0271 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	60	-	100	101		F	#		
Ammonia Total as N	mg/L	07/22/2010	N001	60	-	100	0.1	U	F	#	0.1	
Arsenic	mg/L	07/22/2010	N001	60	-	100	0.0021		F	#	0.000015	
Calcium	mg/L	07/22/2010	N001	60	-	100	34		F	#	0.012	
Chloride	mg/L	07/22/2010	N001	60	-	100	11		F	#	0.4	
Iron	mg/L	07/22/2010	N001	60	-	100	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/22/2010	N001	60	-	100	6.1		F	#	0.013	
Manganese	mg/L	07/22/2010	N001	60	-	100	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/22/2010	N001	60	-	100	0.00031		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	60	-	100	3.5		F	#	0.02	
Oxidation Reduction Potential	mV	07/22/2010	N001	60	-	100	-.4		RF	#		
pH	s.u.	07/22/2010	N001	60	-	100	8.27		F	#		
Potassium	mg/L	07/22/2010	N001	60	-	100	0.99	B	FJ	#	0.11	
Selenium	mg/L	07/22/2010	N001	60	-	100	0.0015		F	#	0.000032	
Silica	mg/L	07/22/2010	N001	60	-	100	11		F	#	0.0095	
Silicon	mg/L	07/22/2010	N001	60	-	100	5.3		F	#	0.0044	
Sodium	mg/L	07/22/2010	N001	60	-	100	9.1		F	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	60	-	100	279		F	#		
Sulfate	mg/L	07/22/2010	N001	60	-	100	15		F	#	1	
Temperature	C	07/22/2010	N001	60	-	100	17.28		F	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	60	-	100	160		F	#	20	
Turbidity	NTU	07/22/2010	N001	60	-	100	1.96		F	#		
Uranium	mg/L	07/22/2010	N001	60	-	100	0.0014		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0272 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	159.1	-	179.1	104		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	159.1	-	179.1	0.1	U	F	#	0.1	
Ammonia Total as N	mg/L	07/21/2010	N002	159.1	-	179.1	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	159.1	-	179.1	0.002		F	#	0.000015	
Arsenic	mg/L	07/21/2010	N002	159.1	-	179.1	0.0019		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	159.1	-	179.1	32		F	#	0.012	
Calcium	mg/L	07/21/2010	N002	159.1	-	179.1	31		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	159.1	-	179.1	7.9		F	#	0.4	
Chloride	mg/L	07/21/2010	N002	159.1	-	179.1	8.2		F	#	0.4	
Iron	mg/L	07/21/2010	N001	159.1	-	179.1	0.0049	U	FJ	#	0.0049	
Iron	mg/L	07/21/2010	N002	159.1	-	179.1	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	159.1	-	179.1	6.8		F	#	0.013	
Magnesium	mg/L	07/21/2010	N002	159.1	-	179.1	6.8		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	159.1	-	179.1	0.00011	U	FJ	#	0.00011	
Manganese	mg/L	07/21/2010	N002	159.1	-	179.1	0.00029	B	UFJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	159.1	-	179.1	0.00024		F	#	0.000032	
Molybdenum	mg/L	07/21/2010	N002	159.1	-	179.1	0.00025		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	159.1	-	179.1	3.6		F	#	0.02	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N002	159.1	-	179.1	3.6		F	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	159.1	-	179.1	40.4		RF	#		
pH	s.u.	07/21/2010	N001	159.1	-	179.1	7.9		F	#		
Potassium	mg/L	07/21/2010	N001	159.1	-	179.1	0.85	B	FJ	#	0.11	
Potassium	mg/L	07/21/2010	N002	159.1	-	179.1	0.81	B	FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	159.1	-	179.1	0.0012		F	#	0.000032	
Selenium	mg/L	07/21/2010	N002	159.1	-	179.1	0.0011		F	#	0.000032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0272 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Silica	mg/L	07/21/2010	N001	159.1	-	179.1	12	F	#	0.0095	
Silica	mg/L	07/21/2010	N002	159.1	-	179.1	11	F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	159.1	-	179.1	5.4	F	#	0.0044	
Silicon	mg/L	07/21/2010	N002	159.1	-	179.1	5.3	F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	159.1	-	179.1	6.2	F	#	0.0066	
Sodium	mg/L	07/21/2010	N002	159.1	-	179.1	6.1	F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	159.1	-	179.1	253	F	#		
Sulfate	mg/L	07/21/2010	N001	159.1	-	179.1	12	F	#	1	
Sulfate	mg/L	07/21/2010	N002	159.1	-	179.1	12	F	#	1	
Temperature	C	07/21/2010	N001	159.1	-	179.1	17.77	F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	159.1	-	179.1	170	F	#	20	
Total Dissolved Solids	mg/L	07/21/2010	N002	159.1	-	179.1	160	F	#	20	
Turbidity	NTU	07/21/2010	N001	159.1	-	179.1	0.53	F	#		
Uranium	mg/L	07/21/2010	N001	159.1	-	179.1	0.0014	F	#	0.0000029	
Uranium	mg/L	07/21/2010	N002	159.1	-	179.1	0.0014	F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0273 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	153	-	173	185		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	153	-	173	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	153	-	173	0.0014		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	153	-	173	230		FQ	#	0.012	
Chloride	mg/L	07/20/2010	N001	153	-	173	55		FQ	#	2	
Iron	mg/L	07/20/2010	N001	153	-	173	0.018	B	FQJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	153	-	173	39		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	153	-	173	0.0011	B	FQ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	153	-	173	0.03		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	153	-	173	61		FQ	#	0.5	
Oxidation Reduction Potential	mV	07/20/2010	N001	153	-	173	120.4		RFQ	#		
pH	s.u.	07/20/2010	N001	153	-	173	7		FQ	#		
Potassium	mg/L	07/20/2010	N001	153	-	173	3.5		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	153	-	173	0.024		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	153	-	173	14		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	153	-	173	6.4		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	153	-	173	43		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	153	-	173	1451		FQ	#		
Sulfate	mg/L	07/20/2010	N001	153	-	173	310		FQ	#	5	
Temperature	C	07/20/2010	N001	153	-	173	18.36		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	153	-	173	1200		FQ	#	20	
Turbidity	NTU	07/20/2010	N001	153	-	173	2.78		FQ	#		
Uranium	mg/L	07/20/2010	N001	153	-	173	0.086		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0274 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	149	-	169	109		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	149	-	169	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	149	-	169	0.0024		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	149	-	169	35		FQ	#	0.012	
Chloride	mg/L	07/20/2010	N001	149	-	169	10		FQ	#	0.4	
Iron	mg/L	07/20/2010	N001	149	-	169	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	149	-	169	6.6		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	149	-	169	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	149	-	169	0.00042		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	149	-	169	3.2		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	149	-	169	93.4		RFQ	#		
pH	s.u.	07/20/2010	N001	149	-	169	7.73		FQ	#		
Potassium	mg/L	07/20/2010	N001	149	-	169	1.2		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	149	-	169	0.0014		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	149	-	169	11		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	149	-	169	5.2		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	149	-	169	11		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	149	-	169	278		FQ	#		
Sulfate	mg/L	07/20/2010	N001	149	-	169	15		FQ	#	1	
Temperature	C	07/20/2010	N001	149	-	169	18.1		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	149	-	169	170		FQ	#	20	
Turbidity	NTU	07/20/2010	N001	149	-	169	1.34		FQ	#		
Uranium	mg/L	07/20/2010	N001	149	-	169	0.0016		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0275 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	158.2	-	178.2	539		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	158.2	-	178.2	28		F	#	2	
Arsenic	mg/L	07/20/2010	N001	158.2	-	178.2	0.0011		F	#	0.000074	
Calcium	mg/L	07/20/2010	N001	158.2	-	178.2	760		F	#	0.06	
Chloride	mg/L	07/20/2010	N001	158.2	-	178.2	140		F	#	10	
Iron	mg/L	07/20/2010	N001	158.2	-	178.2	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	158.2	-	178.2	350		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	158.2	-	178.2	9		F	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	158.2	-	178.2	0.0003	B	F	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	158.2	-	178.2	260		F	#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	158.2	-	178.2	165.7		RF	#		
pH	s.u.	07/20/2010	N001	158.2	-	178.2	6.31		F	#		
Potassium	mg/L	07/20/2010	N001	158.2	-	178.2	24		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	158.2	-	178.2	0.031		F	#	0.00016	
Silica	mg/L	07/20/2010	N001	158.2	-	178.2	16		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	158.2	-	178.2	7.4		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	158.2	-	178.2	280		F	#	0.033	
Specific Conductance	umhos/cm	07/20/2010	N001	158.2	-	178.2	5839		F	#		
Sulfate	mg/L	07/20/2010	N001	158.2	-	178.2	2400		F	#	25	
Temperature	C	07/20/2010	N001	158.2	-	178.2	18.48		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	158.2	-	178.2	5800		F	#	80	
Turbidity	NTU	07/20/2010	N001	158.2	-	178.2	2.59		F	#		
Uranium	mg/L	07/20/2010	N001	158.2	-	178.2	0.47		F	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0276 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	154.5	-	174.5	100		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	154.5	-	174.5	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	154.5	-	174.5	0.0028		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	154.5	-	174.5	34		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	154.5	-	174.5	11		F	#	0.4	
Iron	mg/L	07/20/2010	N001	154.5	-	174.5	0.019	B	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	154.5	-	174.5	6.6		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	154.5	-	174.5	0.00076	B	F	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	154.5	-	174.5	0.00048		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	154.5	-	174.5	3.1		F	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	154.5	-	174.5	74.3		RF	#		
pH	s.u.	07/20/2010	N001	154.5	-	174.5	7.75		F	#		
Potassium	mg/L	07/20/2010	N001	154.5	-	174.5	1.2		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	154.5	-	174.5	0.0017		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	154.5	-	174.5	11		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	154.5	-	174.5	5.3		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	154.5	-	174.5	12		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	154.5	-	174.5	283		F	#		
Sulfate	mg/L	07/20/2010	N001	154.5	-	174.5	18		F	#	1	
Temperature	C	07/20/2010	N001	154.5	-	174.5	21.04		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	154.5	-	174.5	190		F	#	20	
Turbidity	NTU	07/20/2010	N001	154.5	-	174.5	0.7		F	#		
Uranium	mg/L	07/20/2010	N001	154.5	-	174.5	0.0015		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0277 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	95.7	-	105.7	100		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	95.7	-	105.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	95.7	-	105.7	0.00051		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	95.7	-	105.7	26		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	95.7	-	105.7	9.9		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	95.7	-	105.7	0.028	B	FQ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	95.7	-	105.7	8.5		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	95.7	-	105.7	0.054		FQ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	95.7	-	105.7	0.0002		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	95.7	-	105.7	2.9		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	95.7	-	105.7	119.9		FQ	#		
pH	s.u.	07/21/2010	N001	95.7	-	105.7	7.69		FQ	#		
Potassium	mg/L	07/21/2010	N001	95.7	-	105.7	1.5		FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	95.7	-	105.7	0.0014		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	95.7	-	105.7	14		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	95.7	-	105.7	6.7		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	95.7	-	105.7	11		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	95.7	-	105.7	284		FQ	#		
Sulfate	mg/L	07/21/2010	N001	95.7	-	105.7	17		FQ	#	1	
Temperature	C	07/21/2010	N001	95.7	-	105.7	17.43		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	95.7	-	105.7	180		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	95.7	-	105.7	5.7		FQ	#		
Uranium	mg/L	07/21/2010	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: 12/22/2010

Location: 0278 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	90.5	-	100.5	84		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	90.5	-	100.5	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	90.5	-	100.5	0.0016		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	90.5	-	100.5	28		FQ	#	0.012	
Chloride	mg/L	07/20/2010	N001	90.5	-	100.5	8.9		FQ	#	0.4	
Iron	mg/L	07/20/2010	N001	90.5	-	100.5	0.037	B	FQ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	90.5	-	100.5	6.8		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	90.5	-	100.5	0.00046	B	FQJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	90.5	-	100.5	0.00036		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	90.5	-	100.5	2.9		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	90.5	-	100.5	119.8		FQ	#		
pH	s.u.	07/20/2010	N001	90.5	-	100.5	7.81		FQ	#		
Potassium	mg/L	07/20/2010	N001	90.5	-	100.5	1.9		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	90.5	-	100.5	0.0013		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	90.5	-	100.5	11		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	90.5	-	100.5	5.3		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	90.5	-	100.5	8.9		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	90.5	-	100.5	254		FQ	#		
Sulfate	mg/L	07/20/2010	N001	90.5	-	100.5	13		FQ	#	1	
Temperature	C	07/20/2010	N001	90.5	-	100.5	17.84		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	90.5	-	100.5	170		FQ	#	20	
Turbidity	NTU	07/20/2010	N001	90.5	-	100.5	0.96		FQ	#		
Uranium	mg/L	07/20/2010	N001	90.5	-	100.5	0.0013		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0279 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	26.5	-	36.5	99		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	26.5	-	36.5	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	26.5	-	36.5	0.00083		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	26.5	-	36.5	60		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	26.5	-	36.5	31		F	#	0.4	
Iron	mg/L	07/20/2010	N001	26.5	-	36.5	0.021	B	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	26.5	-	36.5	12		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	26.5	-	36.5	0.0023	B	F	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	26.5	-	36.5	0.00063		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	26.5	-	36.5	10		F	#	0.1	
Oxidation Reduction Potential	mV	07/20/2010	N001	26.5	-	36.5	131		F	#		
pH	s.u.	07/20/2010	N001	26.5	-	36.5	7.47		F	#		
Potassium	mg/L	07/20/2010	N001	26.5	-	36.5	1.8		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	26.5	-	36.5	0.0023		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	26.5	-	36.5	12		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	26.5	-	36.5	5.6		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	26.5	-	36.5	15		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	26.5	-	36.5	495		F	#		
Sulfate	mg/L	07/20/2010	N001	26.5	-	36.5	65		F	#	1	
Temperature	C	07/20/2010	N001	26.5	-	36.5	18.14		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	26.5	-	36.5	310		F	#	20	
Turbidity	NTU	07/20/2010	N001	26.5	-	36.5	1.57		F	#		
Uranium	mg/L	07/20/2010	N001	26.5	-	36.5	0.0019		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0280 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	26.5	-	36.5	103		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	26.5	-	36.5	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	26.5	-	36.5	0.0023		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	26.5	-	36.5	33		FQ	#	0.012	
Chloride	mg/L	07/20/2010	N001	26.5	-	36.5	21		FQ	#	0.4	
Iron	mg/L	07/20/2010	N001	26.5	-	36.5	0.0063	B	FQJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	26.5	-	36.5	6.7		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	26.5	-	36.5	0.00073	B	FQ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	26.5	-	36.5	0.00051		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	26.5	-	36.5	2.8		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	26.5	-	36.5	126.7		FQ	#		
pH	s.u.	07/20/2010	N001	26.5	-	36.5	7.91		FQ	#		
Potassium	mg/L	07/20/2010	N001	26.5	-	36.5	1.4		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	26.5	-	36.5	0.0019		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	26.5	-	36.5	12		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	26.5	-	36.5	5.5		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	26.5	-	36.5	20		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	26.5	-	36.5	334		FQ	#		
Sulfate	mg/L	07/20/2010	N001	26.5	-	36.5	21		FQ	#	1	
Temperature	C	07/20/2010	N001	26.5	-	36.5	18.85		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	26.5	-	36.5	200		FQ	#	20	
Turbidity	NTU	07/20/2010	N001	26.5	-	36.5	1.23		FQ	#		
Uranium	mg/L	07/20/2010	N001	26.5	-	36.5	0.0016		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0281 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	0001	70.5	-	80.5	124		FQ	#		
Ammonia Total as N	mg/L	07/22/2010	0001	70.5	-	80.5	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/22/2010	0001	70.5	-	80.5	0.00022		FQ	#	0.000015	
Calcium	mg/L	07/22/2010	0001	70.5	-	80.5	120		FQ	#	0.012	
Chloride	mg/L	07/22/2010	0001	70.5	-	80.5	27		FQ	#	1	
Iron	mg/L	07/22/2010	0001	70.5	-	80.5	0.071	B	FQ	#	0.0049	
Magnesium	mg/L	07/22/2010	0001	70.5	-	80.5	21		FQ	#	0.013	
Manganese	mg/L	07/22/2010	0001	70.5	-	80.5	0.016		FQ	#	0.00011	
Molybdenum	mg/L	07/22/2010	0001	70.5	-	80.5	0.00095		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	0001	70.5	-	80.5	38		FQ	#	0.5	
Oxidation Reduction Potential	mV	07/22/2010	N001	70.5	-	80.5	153.3		FQ	#		
pH	s.u.	07/22/2010	N001	70.5	-	80.5	7.41		FQ	#		
Potassium	mg/L	07/22/2010	0001	70.5	-	80.5	1.5		FQJ	#	0.11	
Selenium	mg/L	07/22/2010	0001	70.5	-	80.5	0.0022		FQ	#	0.000032	
Silica	mg/L	07/22/2010	0001	70.5	-	80.5	14		FQ	#	0.0095	
Silicon	mg/L	07/22/2010	0001	70.5	-	80.5	6.4		FQ	#	0.0044	
Sodium	mg/L	07/22/2010	0001	70.5	-	80.5	19		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	70.5	-	80.5	912		FQ	#		
Sulfate	mg/L	07/22/2010	0001	70.5	-	80.5	150		FQ	#	2.5	
Temperature	C	07/22/2010	N001	70.5	-	80.5	17.71		FQ	#		
Total Dissolved Solids	mg/L	07/22/2010	0001	70.5	-	80.5	690		FQ	#	20	
Uranium	mg/L	07/22/2010	0001	70.5	-	80.5	0.0074		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0282 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	74.1	-	84.1	121		FQ	#		
Ammonia Total as N	mg/L	07/22/2010	N001	74.1	-	84.1	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/22/2010	N001	74.1	-	84.1	0.00016		FQ	#	0.000015	
Calcium	mg/L	07/22/2010	N001	74.1	-	84.1	100		FQ	#	0.012	
Chloride	mg/L	07/22/2010	N001	74.1	-	84.1	38		FQ	#	1	
Iron	mg/L	07/22/2010	N001	74.1	-	84.1	0.12		FQ	#	0.0049	
Magnesium	mg/L	07/22/2010	N001	74.1	-	84.1	19		FQ	#	0.013	
Manganese	mg/L	07/22/2010	N001	74.1	-	84.1	0.0061		FQ	#	0.00011	
Molybdenum	mg/L	07/22/2010	N001	74.1	-	84.1	0.0005		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	74.1	-	84.1	35		FQ	#	0.5	
Oxidation Reduction Potential	mV	07/22/2010	N001	74.1	-	84.1	151.1		FQ	#		
pH	s.u.	07/22/2010	N001	74.1	-	84.1	7.56		FQ	#		
Potassium	mg/L	07/22/2010	N001	74.1	-	84.1	1.7		FQJ	#	0.11	
Selenium	mg/L	07/22/2010	N001	74.1	-	84.1	0.0015		FQ	#	0.000032	
Silica	mg/L	07/22/2010	N001	74.1	-	84.1	14		FQ	#	0.0095	
Silicon	mg/L	07/22/2010	N001	74.1	-	84.1	6.7		FQ	#	0.0044	
Sodium	mg/L	07/22/2010	N001	74.1	-	84.1	14		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	74.1	-	84.1	812		FQ	#		
Sulfate	mg/L	07/22/2010	N001	74.1	-	84.1	67		FQ	#	2.5	
Temperature	C	07/22/2010	N001	74.1	-	84.1	18.78		FQ	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	74.1	-	84.1	570		FQ	#	20	
Turbidity	NTU	07/22/2010	N001	74.1	-	84.1	1.06		FQ	#		
Uranium	mg/L	07/22/2010	N001	74.1	-	84.1	0.0041		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0286 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	93.2	-	103.2	424		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	93.2	-	103.2	2.1		FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	93.2	-	103.2	0.0009		FQ	#	0.00003	
Calcium	mg/L	07/20/2010	N001	93.2	-	103.2	530		FQ	#	0.06	
Chloride	mg/L	07/20/2010	N001	93.2	-	103.2	76		FQ	#	4	
Iron	mg/L	07/20/2010	N001	93.2	-	103.2	0.039	B	FQ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	93.2	-	103.2	230		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	93.2	-	103.2	0.59		FQ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	93.2	-	103.2	0.00076		FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	93.2	-	103.2	150		FQ	#	1	
Oxidation Reduction Potential	mV	07/20/2010	N001	93.2	-	103.2	-75.2		RFQ	#		
pH	s.u.	07/20/2010	N001	93.2	-	103.2	6.5		FQ	#		
Potassium	mg/L	07/20/2010	N001	93.2	-	103.2	9.3		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	93.2	-	103.2	0.019		FQ	#	0.000065	
Silica	mg/L	07/20/2010	N001	93.2	-	103.2	15		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	93.2	-	103.2	6.9		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	93.2	-	103.2	130		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	93.2	-	103.2	3885		FQ	#		
Sulfate	mg/L	07/20/2010	N001	93.2	-	103.2	1500		FQ	#	10	
Temperature	C	07/20/2010	N001	93.2	-	103.2	19.27		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	93.2	-	103.2	3900		FQ	#	80	
Turbidity	NTU	07/20/2010	N001	93.2	-	103.2	7.3		FQ	#		
Uranium	mg/L	07/20/2010	N001	93.2	-	103.2	0.15		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0287 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	100.7	-	110.7	610	FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	100.7	-	110.7	0.14	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	100.7	-	110.7	0.0017	FQ	#	0.00003	
Calcium	mg/L	07/20/2010	N001	100.7	-	110.7	920	FQ	#	0.06	
Chloride	mg/L	07/20/2010	N001	100.7	-	110.7	210	FQ	#	10	
Iron	mg/L	07/20/2010	N001	100.7	-	110.7	0.12	FQ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	100.7	-	110.7	140	FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	100.7	-	110.7	0.012	FQ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	100.7	-	110.7	0.097	FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	100.7	-	110.7	270	FQ	#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	100.7	-	110.7	-152.3	RFQ	#		
pH	s.u.	07/20/2010	N001	100.7	-	110.7	6.49	FQ	#		
Potassium	mg/L	07/20/2010	N001	100.7	-	110.7	9.7	FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	100.7	-	110.7	0.12	FQ	#	0.000065	
Silica	mg/L	07/20/2010	N001	100.7	-	110.7	16	FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	100.7	-	110.7	7.6	FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	100.7	-	110.7	230	FQ	#	0.033	
Specific Conductance	umhos/cm	07/20/2010	N001	100.7	-	110.7	5224	FQ	#		
Sulfate	mg/L	07/20/2010	N001	100.7	-	110.7	1500	FQ	#	25	
Temperature	C	07/20/2010	N001	100.7	-	110.7	20.77	FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	100.7	-	110.7	5300	FQ	#	80	
Turbidity	NTU	07/20/2010	N001	100.7	-	110.7	7.01	FQ	#		
Uranium	mg/L	07/20/2010	N001	100.7	-	110.7	0.23	FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0288 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	104	-	114	283		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	104	-	114	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	104	-	114	0.00059		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	104	-	114	200		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	104	-	114	25		FQ	#	2	
Iron	mg/L	07/21/2010	N001	104	-	114	0.0064	B	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	104	-	114	38		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	104	-	114	0.0015	B	FQ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	104	-	114	0.000082	B	FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	104	-	114	55		FQ	#	0.5	
Oxidation Reduction Potential	mV	07/21/2010	N001	104	-	114	79.2		RFQ	#		
pH	s.u.	07/21/2010	N001	104	-	114	6.74		FQ	#		
Potassium	mg/L	07/21/2010	N001	104	-	114	3.4		FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	104	-	114	0.0029		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	104	-	114	16		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	104	-	114	7.4		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	104	-	114	48		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	104	-	114	1643		FQ	#		
Sulfate	mg/L	07/21/2010	N001	104	-	114	280		FQ	#	5	
Temperature	C	07/21/2010	N001	104	-	114	17.09		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	104	-	114	1200		FQ	#	40	
Turbidity	NTU	07/21/2010	N001	104	-	114	7.53		FQ	#		
Uranium	mg/L	07/21/2010	N001	104	-	114	0.012		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0289 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	148.3	-	158.3	258		FQ		#		
Ammonia Total as N	mg/L	07/21/2010	N001	148.3	-	158.3	0.1	U	FQ		#	0.1	
Arsenic	mg/L	07/21/2010	N001	148.3	-	158.3	0.001		FQ		#	0.000015	
Calcium	mg/L	07/21/2010	N001	148.3	-	158.3	220		FQ		#	0.012	
Chloride	mg/L	07/21/2010	N001	148.3	-	158.3	27		FQ		#	2	
Iron	mg/L	07/21/2010	N001	148.3	-	158.3	0.0049	U	FQJ		#	0.0049	
Magnesium	mg/L	07/21/2010	N001	148.3	-	158.3	38		FQ		#	0.013	
Manganese	mg/L	07/21/2010	N001	148.3	-	158.3	0.013		FQ		#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	148.3	-	158.3	0.00032		FQ		#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	148.3	-	158.3	53		FQ		#	0.5	
Oxidation Reduction Potential	mV	07/21/2010	N001	148.3	-	158.3	69		RFQ		#		
pH	s.u.	07/21/2010	N001	148.3	-	158.3	6.88		FQ		#		
Potassium	mg/L	07/21/2010	N001	148.3	-	158.3	3.5		FQJ		#	0.11	
Selenium	mg/L	07/21/2010	N001	148.3	-	158.3	0.0036		FQ		#	0.000032	
Silica	mg/L	07/21/2010	N001	148.3	-	158.3	15		FQ		#	0.0095	
Silicon	mg/L	07/21/2010	N001	148.3	-	158.3	7.1		FQ		#	0.0044	
Sodium	mg/L	07/21/2010	N001	148.3	-	158.3	36		FQ		#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	148.3	-	158.3	1491		FQ		#		
Sulfate	mg/L	07/21/2010	N001	148.3	-	158.3	300		FQ		#	5	
Temperature	C	07/21/2010	N001	148.3	-	158.3	17.17		FQ		#		
Total Dissolved Solids	mg/L	07/21/2010	N001	148.3	-	158.3	1100		FQ		#	20	
Turbidity	NTU	07/21/2010	N001	148.3	-	158.3	5.61		FQ		#		
Uranium	mg/L	07/21/2010	N001	148.3	-	158.3	0.02		FQ		#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0290 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	102.7	-	112.7	102		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	102.7	-	112.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	102.7	-	112.7	0.0018		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	102.7	-	112.7	67		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	102.7	-	112.7	23		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	102.7	-	112.7	0.019	B	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	102.7	-	112.7	11		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	102.7	-	112.7	0.0013	B	FQ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	102.7	-	112.7	0.00033		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	102.7	-	112.7	17		FQ	#	0.1	
Oxidation Reduction Potential	mV	07/21/2010	N001	102.7	-	112.7	123.8		FQ	#		
pH	s.u.	07/21/2010	N001	102.7	-	112.7	7.73		FQ	#		
Potassium	mg/L	07/21/2010	N001	102.7	-	112.7	1.5		FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	102.7	-	112.7	0.0025		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	102.7	-	112.7	13		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	102.7	-	112.7	6.1		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	102.7	-	112.7	17	E	FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	102.7	-	112.7	561		FQ	#		
Sulfate	mg/L	07/21/2010	N001	102.7	-	112.7	71		FQ	#	1	
Temperature	C	07/21/2010	N001	102.7	-	112.7	18.31		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	102.7	-	112.7	340		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	102.7	-	112.7	3.91		FQ	#		
Uranium	mg/L	07/21/2010	N001	102.7	-	112.7	0.0022		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0683 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	95	-	145	95		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	95	-	145	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	95	-	145	0.002		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	95	-	145	34		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	95	-	145	13		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	95	-	145	0.0053	B	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	95	-	145	5.9		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	95	-	145	0.00013	B	FQJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	95	-	145	0.0005		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	95	-	145	3.3		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	95	-	145	105.6		FQ	#		
pH	s.u.	07/21/2010	N001	95	-	145	8.18		FQ	#		
Potassium	mg/L	07/21/2010	N001	95	-	145	0.96	B	FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	95	-	145	0.0018		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	95	-	145	12		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	95	-	145	5.8		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	95	-	145	12		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	95	-	145	301		FQ	#		
Sulfate	mg/L	07/21/2010	N001	95	-	145	18		FQ	#	1	
Temperature	C	07/21/2010	N001	95	-	145	18.42		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	95	-	145	160		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	95	-	145	1.58		FQ	#		
Uranium	mg/L	07/21/2010	N001	95	-	145	0.0013		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0684 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	124.2	-	175.5	360		FQ		#		
Ammonia Total as N	mg/L	07/21/2010	N001	124.2	-	175.5	0.1	U	FQ		#	0.1	
Arsenic	mg/L	07/21/2010	N001	124.2	-	175.5	0.0029		FQ		#	0.000015	
Calcium	mg/L	07/21/2010	N001	124.2	-	175.5	32		FQ		#	0.012	
Chloride	mg/L	07/21/2010	N001	124.2	-	175.5	11		FQ		#	0.4	
Iron	mg/L	07/21/2010	N001	124.2	-	175.5	0.0049	U	FQJ		#	0.0049	
Magnesium	mg/L	07/21/2010	N001	124.2	-	175.5	6.4		FQ		#	0.013	
Manganese	mg/L	07/21/2010	N001	124.2	-	175.5	0.00011	U	FQJ		#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	124.2	-	175.5	0.00047		FQ		#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	124.2	-	175.5	3.3		FQ		#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	124.2	-	175.5	115.6		FQ		#		
pH	s.u.	07/21/2010	N001	124.2	-	175.5	7.91		FQ		#		
Potassium	mg/L	07/21/2010	N001	124.2	-	175.5	0.74	B	FQJ		#	0.11	
Selenium	mg/L	07/21/2010	N001	124.2	-	175.5	0.0016		FQ		#	0.000032	
Silica	mg/L	07/21/2010	N001	124.2	-	175.5	12		FQ		#	0.0095	
Silicon	mg/L	07/21/2010	N001	124.2	-	175.5	5.4		FQ		#	0.0044	
Sodium	mg/L	07/21/2010	N001	124.2	-	175.5	12		FQ		#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	124.2	-	175.5	291		FQ		#		
Sulfate	mg/L	07/21/2010	N001	124.2	-	175.5	17		FQ		#	1	
Temperature	C	07/21/2010	N001	124.2	-	175.5	18.17		FQ		#		
Total Dissolved Solids	mg/L	07/21/2010	N001	124.2	-	175.5	160		FQ		#	20	
Turbidity	NTU	07/21/2010	N001	124.2	-	175.5	0.63		FQ		#		
Uranium	mg/L	07/21/2010	N001	124.2	-	175.5	0.0015		FQ		#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0685 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	93.66	-	145.5	96		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	93.66	-	145.5	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	93.66	-	145.5	0.003		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	93.66	-	145.5	33		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	93.66	-	145.5	11		F	#	0.4	
Iron	mg/L	07/20/2010	N001	93.66	-	145.5	0.012	B	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	93.66	-	145.5	6.4		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	93.66	-	145.5	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	93.66	-	145.5	0.0004		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	93.66	-	145.5	3.1		F	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	93.66	-	145.5	57.3		RF	#		
pH	s.u.	07/20/2010	N001	93.66	-	145.5	7.74		F	#		
Potassium	mg/L	07/20/2010	N001	93.66	-	145.5	1.2		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	93.66	-	145.5	0.0016		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	93.66	-	145.5	11		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	93.66	-	145.5	5.2		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	93.66	-	145.5	11		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	93.66	-	145.5	275		F	#		
Sulfate	mg/L	07/20/2010	N001	93.66	-	145.5	16		F	#	1	
Temperature	C	07/20/2010	N001	93.66	-	145.5	18.34		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	93.66	-	145.5	180		F	#	20	
Turbidity	NTU	07/20/2010	N001	93.66	-	145.5	0.8		F	#		
Uranium	mg/L	07/20/2010	N001	93.66	-	145.5	0.0013		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0686 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	60	-	100	125		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	60	-	100	0.1	U	F	#	0.1	
Ammonia Total as N	mg/L	07/21/2010	N002	60	-	100	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	60	-	100	0.0079		F	#	0.000015	
Arsenic	mg/L	07/21/2010	N002	60	-	100	0.0081		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	60	-	100	17		F	#	0.012	
Calcium	mg/L	07/21/2010	N002	60	-	100	17		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	60	-	100	4.1		F	#	0.4	
Chloride	mg/L	07/21/2010	N002	60	-	100	4		F	#	0.4	
Iron	mg/L	07/21/2010	N001	60	-	100	0.011	B	FJ	#	0.0049	
Iron	mg/L	07/21/2010	N002	60	-	100	0.013	B	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	60	-	100	2.2		F	#	0.013	
Magnesium	mg/L	07/21/2010	N002	60	-	100	2.2		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	60	-	100	0.00018	B	FJ	#	0.00011	
Manganese	mg/L	07/21/2010	N002	60	-	100	0.0011	B	UF	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	60	-	100	0.00054		F	#	0.000032	
Molybdenum	mg/L	07/21/2010	N002	60	-	100	0.00054		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	60	-	100	1.9		F	#	0.02	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N002	60	-	100	1.9		F	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	60	-	100	-174.3		RF	#		
pH	s.u.	07/21/2010	N001	60	-	100	8.45		F	#		
Potassium	mg/L	07/21/2010	N001	60	-	100	0.78	B	FJ	#	0.11	
Potassium	mg/L	07/21/2010	N002	60	-	100	0.73	B	FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	60	-	100	0.00097		F	#	0.000032	
Selenium	mg/L	07/21/2010	N002	60	-	100	0.001		F	#	0.000032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0686 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Silica	mg/L	07/21/2010	N001	60	-	100	8.5	F	#	0.0095	
Silica	mg/L	07/21/2010	N002	60	-	100	8.5	F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	60	-	100	4	F	#	0.0044	
Silicon	mg/L	07/21/2010	N002	60	-	100	4	F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	60	-	100	23	F	#	0.0066	
Sodium	mg/L	07/21/2010	N002	60	-	100	21	F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	60	-	100	234	F	#		
Sulfate	mg/L	07/21/2010	N001	60	-	100	33	F	#	1	
Sulfate	mg/L	07/21/2010	N002	60	-	100	32	F	#	1	
Temperature	C	07/21/2010	N001	60	-	100	19.98	F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	60	-	100	140	F	#	20	
Total Dissolved Solids	mg/L	07/21/2010	N002	60	-	100	130	F	#	20	
Turbidity	NTU	07/21/2010	N001	60	-	100	4.15	F	#		
Uranium	mg/L	07/21/2010	N001	60	-	100	0.00027	F	#	0.0000029	
Uranium	mg/L	07/21/2010	N002	60	-	100	0.00027	F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0687 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	60	-	100	87		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	60	-	100	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	60	-	100	0.011		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	60	-	100	10		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	60	-	100	1.6		F	#	0.4	
Iron	mg/L	07/20/2010	N001	60	-	100	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	60	-	100	1.3		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	60	-	100	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	60	-	100	0.0026		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	60	-	100	1.7		F	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	60	-	100	70.6		RF	#		
pH	s.u.	07/20/2010	N001	60	-	100	8.2		F	#		
Potassium	mg/L	07/20/2010	N001	60	-	100	0.8	B	FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	60	-	100	0.00047		FJ	#	0.000032	
Silica	mg/L	07/20/2010	N001	60	-	100	11		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	60	-	100	5.2		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	60	-	100	17		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	60	-	100	155		F	#		
Sulfate	mg/L	07/20/2010	N001	60	-	100	17		F	#	1	
Temperature	C	07/20/2010	N001	60	-	100	23.3		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	60	-	100	110		F	#	20	
Turbidity	NTU	07/20/2010	N001	60	-	100	1.64		F	#		
Uranium	mg/L	07/20/2010	N001	60	-	100	0.0002		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0688 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	60	-	100	128		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	60	-	100	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	60	-	100	0.0013		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	60	-	100	100		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	60	-	100	83		F	#	1	
Iron	mg/L	07/20/2010	N001	60	-	100	0.03	B	F	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	60	-	100	11		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	60	-	100	0.00098	B	F	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	60	-	100	0.0033		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	60	-	100	6.7		F	#	0.05	
Oxidation Reduction Potential	mV	07/20/2010	N001	60	-	100	79.2		RF	#		
pH	s.u.	07/20/2010	N001	60	-	100	7.6		F	#		
Potassium	mg/L	07/20/2010	N001	60	-	100	2.5		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	60	-	100	0.0091		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	60	-	100	12		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	60	-	100	5.8		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	60	-	100	35		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	60	-	100	786		F	#		
Sulfate	mg/L	07/20/2010	N001	60	-	100	170		F	#	2.5	
Temperature	C	07/20/2010	N001	60	-	100	20.19		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	60	-	100	540		F	#	20	
Turbidity	NTU	07/20/2010	N001	60	-	100	3.84		F	#		
Uranium	mg/L	07/20/2010	N001	60	-	100	0.0031		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0689 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	55	-	95	102		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	55	-	95	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	55	-	95	0.0021		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	55	-	95	35		FQ	#	0.012	
Chloride	mg/L	07/20/2010	N001	55	-	95	11		FQ	#	0.4	
Iron	mg/L	07/20/2010	N001	55	-	95	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	55	-	95	6.7		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	55	-	95	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	55	-	95	0.00044		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	55	-	95	2.4		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	55	-	95	135		FQ	#		
pH	s.u.	07/20/2010	N001	55	-	95	7.88		FQ	#		
Potassium	mg/L	07/20/2010	N001	55	-	95	1.3		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	55	-	95	0.0013		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	55	-	95	12		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	55	-	95	5.7		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	55	-	95	8.8		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	55	-	95	281		FQ	#		
Sulfate	mg/L	07/20/2010	N001	55	-	95	16		FQ	#	1	
Temperature	C	07/20/2010	N001	55	-	95	18.98		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	55	-	95	170		FQ	#	20	
Turbidity	NTU	07/20/2010	N001	55	-	95	2.08		FQ	#		
Uranium	mg/L	07/20/2010	N001	55	-	95	0.0014		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0690 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	55	-	95	81		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	55	-	95	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	55	-	95	0.0016		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	55	-	95	28		FQ	#	0.012	
Chloride	mg/L	07/20/2010	N001	55	-	95	8.8		FQ	#	0.4	
Iron	mg/L	07/20/2010	N001	55	-	95	0.013	B	FQJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	55	-	95	7.6		FQ	#	0.013	
Manganese	mg/L	07/20/2010	N001	55	-	95	0.022		FQ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	55	-	95	0.00025		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	55	-	95	3		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	55	-	95	130		FQ	#		
pH	s.u.	07/20/2010	N001	55	-	95	7.94		FQ	#		
Potassium	mg/L	07/20/2010	N001	55	-	95	2.2		FQJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	55	-	95	0.0013		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	55	-	95	11		FQ	#	0.0095	
Silicon	mg/L	07/20/2010	N001	55	-	95	5.3		FQ	#	0.0044	
Sodium	mg/L	07/20/2010	N001	55	-	95	8.8		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	55	-	95	259		FQ	#		
Sulfate	mg/L	07/20/2010	N001	55	-	95	13		FQ	#	1	
Temperature	C	07/20/2010	N001	55	-	95	17.22		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	55	-	95	160		FQ	#	20	
Turbidity	NTU	07/20/2010	N001	55	-	95	3.04		FQ	#		
Uranium	mg/L	07/20/2010	N001	55	-	95	0.0017		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0691 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	55	-	95	202		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	55	-	95	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	55	-	95	0.0012		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	55	-	95	320		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	55	-	95	55		F	#	4	
Iron	mg/L	07/20/2010	N001	55	-	95	0.01	B	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	55	-	95	47		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	55	-	95	0.094		F	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	55	-	95	0.000056	B	F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	55	-	95	62		F	#	0.5	
Oxidation Reduction Potential	mV	07/20/2010	N001	55	-	95	172.53		F	#		
pH	s.u.	07/20/2010	N001	55	-	95	7.09		F	#		
Potassium	mg/L	07/20/2010	N001	55	-	95	4.5		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	55	-	95	0.0041		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	55	-	95	15		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	55	-	95	6.8		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	55	-	95	41		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	55	-	95	1847		F	#		
Sulfate	mg/L	07/20/2010	N001	55	-	95	500		F	#	10	
Temperature	C	07/20/2010	N001	55	-	95	18.66		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	55	-	95	3200		F	#	40	
Turbidity	NTU	07/20/2010	N001	55	-	95	3.29		F	#		
Uranium	mg/L	07/20/2010	N001	55	-	95	0.05		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0692 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	55	-	95	80		FQ	#			
Ammonia Total as N	mg/L	07/20/2010	N001	55	-	95	0.1	U	FQ	#		0.1	
Arsenic	mg/L	07/20/2010	N001	55	-	95	0.0075		FQ	#		0.000015	
Calcium	mg/L	07/20/2010	N001	55	-	95	29		FQ	#		0.012	
Chloride	mg/L	07/20/2010	N001	55	-	95	13		FQ	#		0.4	
Iron	mg/L	07/20/2010	N001	55	-	95	0.42		FQ	#		0.0049	
Magnesium	mg/L	07/20/2010	N001	55	-	95	6.5		FQ	#		0.013	
Manganese	mg/L	07/20/2010	N001	55	-	95	0.064		FQ	#		0.00011	
Molybdenum	mg/L	07/20/2010	N001	55	-	95	0.000078	B	FQ	#		0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	55	-	95	2.9		FQ	#		0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	55	-	95	135.2		FQ	#			
pH	s.u.	07/20/2010	N001	55	-	95	7.94		FQ	#			
Potassium	mg/L	07/20/2010	N001	55	-	95	3.6		FQJ	#		0.11	
Selenium	mg/L	07/20/2010	N001	55	-	95	0.0015		FQ	#		0.000032	
Silica	mg/L	07/20/2010	N001	55	-	95	12		FQ	#		0.0095	
Silicon	mg/L	07/20/2010	N001	55	-	95	5.7		FQ	#		0.0044	
Sodium	mg/L	07/20/2010	N001	55	-	95	12		FQ	#		0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	55	-	95	280		FQ	#			
Sulfate	mg/L	07/20/2010	N001	55	-	95	16		FQ	#		1	
Temperature	C	07/20/2010	N001	55	-	95	17.91		FQ	#			
Total Dissolved Solids	mg/L	07/20/2010	N001	55	-	95	170		FQ	#		20	
Turbidity	NTU	07/20/2010	N001	55	-	95	5.77		FQ	#			
Uranium	mg/L	07/20/2010	N001	55	-	95	0.0019		FQ	#		0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0695 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	55	-	95	110		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	55	-	95	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	55	-	95	0.0017		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	55	-	95	50		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	55	-	95	14		F	#	0.4	
Iron	mg/L	07/20/2010	N001	55	-	95	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	55	-	95	7.7		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	55	-	95	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	55	-	95	0.00065		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	55	-	95	5.2		F	#	0.05	
Oxidation Reduction Potential	mV	07/20/2010	N001	55	-	95	144.7		F	#		
pH	s.u.	07/20/2010	N001	55	-	95	7.87		F	#		
Potassium	mg/L	07/20/2010	N001	55	-	95	1.8		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	55	-	95	0.002		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	55	-	95	12		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	55	-	95	5.6		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	55	-	95	12		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	55	-	95	394		F	#		
Sulfate	mg/L	07/20/2010	N001	55	-	95	45		F	#	1	
Temperature	C	07/20/2010	N001	55	-	95	19.03		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	55	-	95	240		F	#	20	
Turbidity	NTU	07/20/2010	N001	55	-	95	0.57		F	#		
Uranium	mg/L	07/20/2010	N001	55	-	95	0.0023		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0901 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft. BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	58	-	78	148		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	58	-	78	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	58	-	78	0.0025		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	58	-	78	48		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	58	-	78	23		F	#	0.4	
Iron	mg/L	07/21/2010	N001	58	-	78	0.14		F	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	58	-	78	8.3		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	58	-	78	0.014		F	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	58	-	78	0.00054		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	58	-	78	3.3		F	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	58	-	78	91.5		RF	#		
pH	s.u.	07/21/2010	N001	58	-	78	7.84		F	#		
Potassium	mg/L	07/21/2010	N001	58	-	78	0.92	B	FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	58	-	78	0.0031		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	58	-	78	13		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	58	-	78	6.1		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	58	-	78	20		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	58	-	78	393		F	#		
Sulfate	mg/L	07/21/2010	N001	58	-	78	39		F	#	1	
Temperature	C	07/21/2010	N001	58	-	78	17.69		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	58	-	78	250		F	#	20	
Turbidity	NTU	07/21/2010	N001	58	-	78	9.19		F	#		
Uranium	mg/L	07/21/2010	N001	58	-	78	0.0033		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0903 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	28	-	48	97		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	28	-	48	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	28	-	48	0.0018		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	28	-	48	58		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	28	-	48	21		F	#	0.4	
Iron	mg/L	07/21/2010	N001	28	-	48	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	28	-	48	12		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	28	-	48	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	28	-	48	0.00029		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	28	-	48	11		F	#	0.1	
Oxidation Reduction Potential	mV	07/21/2010	N001	28	-	48	113.1		F	#		
pH	s.u.	07/21/2010	N001	28	-	48	7.82		F	#		
Potassium	mg/L	07/21/2010	N001	28	-	48	1.2		FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	28	-	48	0.0019		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	28	-	48	12		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	28	-	48	5.6		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	28	-	48	12		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	28	-	48	475		F	#		
Sulfate	mg/L	07/21/2010	N001	28	-	48	62		F	#	1	
Temperature	C	07/21/2010	N001	28	-	48	18.16		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	28	-	48	300		F	#	20	
Turbidity	NTU	07/21/2010	N001	28	-	48	0.97		F	#		
Uranium	mg/L	07/21/2010	N001	28	-	48	0.002		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0904 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	28	-	38	158		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	28	-	38	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	28	-	38	0.00057		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	28	-	38	61		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	28	-	38	130		F	#	2	
Iron	mg/L	07/21/2010	N001	28	-	38	0.011	B	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	28	-	38	15		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	28	-	38	0.0029	B	F	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	28	-	38	0.00062		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	28	-	38	1.5		F	#	0.01	
Oxidation Reduction Potential	mV	07/21/2010	N001	28	-	38	129.8		F	#		
pH	s.u.	07/21/2010	N001	28	-	38	7.67		F	#		
Potassium	mg/L	07/21/2010	N001	28	-	38	0.57	B	FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	28	-	38	0.013		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	28	-	38	19		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	28	-	38	8.7		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	28	-	38	85		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	28	-	38	922		F	#		
Sulfate	mg/L	07/21/2010	N001	28	-	38	100		F	#	2.5	
Temperature	C	07/21/2010	N001	28	-	38	17.17		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	28	-	38	550		F	#	20	
Turbidity	NTU	07/21/2010	N001	28	-	38	2.66		F	#		
Uranium	mg/L	07/21/2010	N001	28	-	38	0.0043		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0906 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	44	-	64	1163		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	44	-	64	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	44	-	64	0.0015		FQ	#	0.000074	
Calcium	mg/L	07/21/2010	N001	44	-	64	1100		FQ	#	0.06	
Chloride	mg/L	07/21/2010	N001	44	-	64	120		FQ	#	10	
Iron	mg/L	07/21/2010	N001	44	-	64	0.0099	U	FQJ	#	0.0099	
Magnesium	mg/L	07/21/2010	N001	44	-	64	350		FQ	#	0.026	
Manganese	mg/L	07/21/2010	N001	44	-	64	0.09		FQ	#	0.00023	
Molybdenum	mg/L	07/21/2010	N001	44	-	64	0.0017		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	44	-	64	350		FQ	#	2	
Oxidation Reduction Potential	mV	07/21/2010	N001	44	-	64	87.1		RFQ	#		
pH	s.u.	07/21/2010	N001	44	-	64	6.25		FQ	#		
Potassium	mg/L	07/21/2010	N001	44	-	64	9.3		FQJ	#	0.22	
Selenium	mg/L	07/21/2010	N001	44	-	64	0.022		FQ	#	0.00016	
Silica	mg/L	07/21/2010	N001	44	-	64	16		FQ	#	0.019	
Silicon	mg/L	07/21/2010	N001	44	-	64	7.6		FQ	#	0.0089	
Sodium	mg/L	07/21/2010	N001	44	-	64	290		FQ	#	0.013	
Specific Conductance	umhos/cm	07/21/2010	N001	44	-	64	6453		FQ	#		
Sulfate	mg/L	07/21/2010	N001	44	-	64	1800		FQ	#	25	
Temperature	C	07/21/2010	N001	44	-	64	18.36		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	44	-	64	6700		FQ	#	200	
Turbidity	NTU	07/21/2010	N001	44	-	64	2.09		FQ	#		
Uranium	mg/L	07/21/2010	N001	44	-	64	0.81		FQ	#	0.000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0908 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	52	-	67	506		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	52	-	67	67		FQ	#	5	
Arsenic	mg/L	07/20/2010	N001	52	-	67	0.0012		FQ	#	0.000015	
Calcium	mg/L	07/20/2010	N001	52	-	67	630		FQ	#	0.024	
Chloride	mg/L	07/20/2010	N001	52	-	67	72		FQ	#	10	
Iron	mg/L	07/20/2010	N001	52	-	67	0.084	B	FQ	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	52	-	67	500		FQ	#	0.026	
Manganese	mg/L	07/20/2010	N001	52	-	67	0.15		FQ	#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	52	-	67	0.00039		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	52	-	67	190		FQ	#	1	
Oxidation Reduction Potential	mV	07/20/2010	N001	52	-	67	-47.4		RFQ	#		
pH	s.u.	07/20/2010	N001	52	-	67	6.51		FQ	#		
Potassium	mg/L	07/20/2010	N001	52	-	67	27	EN	FQJ	#	0.22	
Selenium	mg/L	07/20/2010	N001	52	-	67	0.029		FQ	#	0.000032	
Silica	mg/L	07/20/2010	N001	52	-	67	20		FQ	#	0.019	
Silicon	mg/L	07/20/2010	N001	52	-	67	9.3		FQ	#	0.0089	
Sodium	mg/L	07/20/2010	N001	52	-	67	310		FQ	#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	52	-	67	6254		FQ	#		
Sulfate	mg/L	07/20/2010	N001	52	-	67	2800		FQ	#	25	
Temperature	C	07/20/2010	N001	52	-	67	18.13		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	52	-	67	5900		FQ	#	80	
Turbidity	NTU	07/20/2010	N001	52	-	67	6.54		FQ	#		
Uranium	mg/L	07/20/2010	N001	52	-	67	0.088		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0909 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	0001	65	-	80	173		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	0001	65	-	80	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	0001	65	-	80	0.001		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	0001	65	-	80	490		FQ	#	0.024	
Chloride	mg/L	07/21/2010	0001	65	-	80	110		FQ	#	4	
Iron	mg/L	07/21/2010	0001	65	-	80	0.0099	U	FQJ	#	0.0099	
Magnesium	mg/L	07/21/2010	0001	65	-	80	85		FQ	#	0.026	
Manganese	mg/L	07/21/2010	0001	65	-	80	0.00023	U	FQJ	#	0.00023	
Molybdenum	mg/L	07/21/2010	0001	65	-	80	0.00026		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	0001	65	-	80	160		FQ	#	1	
Oxidation Reduction Potential	mV	07/21/2010	N001	65	-	80	145		FQ	#		
pH	s.u.	07/21/2010	N001	65	-	80	7.09		FQ	#		
Potassium	mg/L	07/21/2010	0001	65	-	80	3.8		FQJ	#	0.22	
Selenium	mg/L	07/21/2010	0001	65	-	80	0.054		FQ	#	0.000032	
Silica	mg/L	07/21/2010	0001	65	-	80	14		FQ	#	0.019	
Silicon	mg/L	07/21/2010	0001	65	-	80	6.7		FQ	#	0.0089	
Sodium	mg/L	07/21/2010	0001	65	-	80	84		FQ	#	0.013	
Specific Conductance	umhos/cm	07/21/2010	N001	65	-	80	3030		FQ	#		
Sulfate	mg/L	07/21/2010	0001	65	-	80	850		FQ	#	10	
Temperature	C	07/21/2010	N001	65	-	80	22		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	0001	65	-	80	3000		FQ	#	80	
Turbidity	NTU	07/21/2010	N001	65	-	80	18.3		FQ	#		
Uranium	mg/L	07/21/2010	0001	65	-	80	0.054		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0910 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	97	-	197	102		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	97	-	197	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	97	-	197	0.002		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	97	-	197	32		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	97	-	197	11		F	#	0.4	
Iron	mg/L	07/21/2010	N001	97	-	197	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	97	-	197	5.5		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	97	-	197	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	97	-	197	0.00049		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	97	-	197	3.1		F	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	97	-	197	69		RF	#		
pH	s.u.	07/21/2010	N001	97	-	197	7.79		F	#		
Potassium	mg/L	07/21/2010	N001	97	-	197	0.57	B	FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	97	-	197	0.0014		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	97	-	197	11		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	97	-	197	5.3		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	97	-	197	12		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	97	-	197	269		F	#		
Sulfate	mg/L	07/21/2010	N001	97	-	197	15		F	#	1	
Temperature	C	07/21/2010	N001	97	-	197	19.29		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	97	-	197	170		F	#	20	
Turbidity	NTU	07/21/2010	N001	97	-	197	0.54		F	#		
Uranium	mg/L	07/21/2010	N001	97	-	197	0.0012		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0911 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	309.4	-	349.4	87		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	309.4	-	349.4	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	309.4	-	349.4	0.0019		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	309.4	-	349.4	25		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	309.4	-	349.4	6.9		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	309.4	-	349.4	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	309.4	-	349.4	5.3		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	309.4	-	349.4	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	309.4	-	349.4	0.00023		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	309.4	-	349.4	3.1		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	309.4	-	349.4	76.4		RFQ	#		
pH	s.u.	07/21/2010	N001	309.4	-	349.4	7.98		FQ	#		
Potassium	mg/L	07/21/2010	N001	309.4	-	349.4	0.88	B	FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	309.4	-	349.4	0.001		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	309.4	-	349.4	12		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	309.4	-	349.4	5.8		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	309.4	-	349.4	7.3		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	309.4	-	349.4	215		FQ	#		
Sulfate	mg/L	07/21/2010	N001	309.4	-	349.4	9.6		FQ	#	1	
Temperature	C	07/21/2010	N001	309.4	-	349.4	18.67		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	309.4	-	349.4	140		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	309.4	-	349.4	1.04		FQ	#		
Uranium	mg/L	07/21/2010	N001	309.4	-	349.4	0.0013		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0912 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	123	-	163	281		FQ	#		
Ammonia Total as N	mg/L	07/22/2010	N001	123	-	163	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/22/2010	N001	123	-	163	0.0012		FQ	#	0.000015	
Calcium	mg/L	07/22/2010	N001	123	-	163	300		FQ	#	0.012	
Chloride	mg/L	07/22/2010	N001	123	-	163	28		FQ	#	4	
Iron	mg/L	07/22/2010	N001	123	-	163	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/22/2010	N001	123	-	163	59		FQ	#	0.013	
Manganese	mg/L	07/22/2010	N001	123	-	163	0.00039	B	FQJ	#	0.00011	
Molybdenum	mg/L	07/22/2010	N001	123	-	163	0.00016		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	123	-	163	61		FQ	#	0.5	
Oxidation Reduction Potential	mV	07/22/2010	N001	123	-	163	41.7		RFQ	#		
pH	s.u.	07/22/2010	N001	123	-	163	6.75		FQ	#		
Potassium	mg/L	07/22/2010	N001	123	-	163	4.2		FQJ	#	0.11	
Selenium	mg/L	07/22/2010	N001	123	-	163	0.0076		FQ	#	0.000032	
Silica	mg/L	07/22/2010	N001	123	-	163	13		FQ	#	0.0095	
Silicon	mg/L	07/22/2010	N001	123	-	163	6.3		FQ	#	0.0044	
Sodium	mg/L	07/22/2010	N001	123	-	163	53		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	123	-	163	1799		FQ	#		
Sulfate	mg/L	07/22/2010	N001	123	-	163	480		FQ	#	10	
Temperature	C	07/22/2010	N001	123	-	163	17.4		FQ	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	123	-	163	1500		FQ	#	40	
Turbidity	NTU	07/22/2010	N001	123	-	163	0.81		FQ	#		
Uranium	mg/L	07/22/2010	N001	123	-	163	0.024		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0913 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab. QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	328.7	-	368.7	89		FQ	#		
Ammonia Total as N	mg/L	07/22/2010	N001	328.7	-	368.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/22/2010	N001	328.7	-	368.7	0.0025		FQ	#	0.000015	
Calcium	mg/L	07/22/2010	N001	328.7	-	368.7	23		FQ	#	0.012	
Chloride	mg/L	07/22/2010	N001	328.7	-	368.7	5.6		FQ	#	0.4	
Iron	mg/L	07/22/2010	N001	328.7	-	368.7	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/22/2010	N001	328.7	-	368.7	4.8		FQ	#	0.013	
Manganese	mg/L	07/22/2010	N001	328.7	-	368.7	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/22/2010	N001	328.7	-	368.7	0.00014		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	328.7	-	368.7	2.9		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/22/2010	N001	328.7	-	368.7	32.8		RFQ	#		
pH	s.u.	07/22/2010	N001	328.7	-	368.7	7.99		FQ	#		
Potassium	mg/L	07/22/2010	N001	328.7	-	368.7	0.92	B	FQJ	#	0.11	
Selenium	mg/L	07/22/2010	N001	328.7	-	368.7	0.00084		FQ	#	0.000032	
Silica	mg/L	07/22/2010	N001	328.7	-	368.7	10		FQ	#	0.0095	
Silicon	mg/L	07/22/2010	N001	328.7	-	368.7	4.7		FQ	#	0.0044	
Sodium	mg/L	07/22/2010	N001	328.7	-	368.7	6.8		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	328.7	-	368.7	199		FQ	#		
Sulfate	mg/L	07/22/2010	N001	328.7	-	368.7	8.4		FQ	#	1	
Temperature	C	07/22/2010	N001	328.7	-	368.7	16.65		FQ	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	328.7	-	368.7	110		FQ	#	20	
Turbidity	NTU	07/22/2010	N001	328.7	-	368.7	0.84		FQ	#		
Uranium	mg/L	07/22/2010	N001	328.7	-	368.7	0.0013		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0914 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	137.2	-	154.2	62		FQ	#		
Ammonia Total as N	mg/L	07/22/2010	N001	137.2	-	154.2	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/22/2010	N001	137.2	-	154.2	0.00074		FQ	#	0.000015	
Calcium	mg/L	07/22/2010	N001	137.2	-	154.2	7.7		FQ	#	0.012	
Chloride	mg/L	07/22/2010	N001	137.2	-	154.2	11		FQ	#	0.4	
Iron	mg/L	07/22/2010	N001	137.2	-	154.2	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/22/2010	N001	137.2	-	154.2	0.19	B	FQ	#	0.013	
Manganese	mg/L	07/22/2010	N001	137.2	-	154.2	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/22/2010	N001	137.2	-	154.2	0.00084		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	137.2	-	154.2	2.7		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/22/2010	N001	137.2	-	154.2	93		FQ	#		
pH	s.u.	07/22/2010	N001	137.2	-	154.2	10.13		FQ	#		
Potassium	mg/L	07/22/2010	N001	137.2	-	154.2	4.5		FQJ	#	0.11	
Selenium	mg/L	07/22/2010	N001	137.2	-	154.2	0.0012		FQ	#	0.000032	
Silica	mg/L	07/22/2010	N001	137.2	-	154.2	34		FQ	#	0.0095	
Silicon	mg/L	07/22/2010	N001	137.2	-	154.2	16		FQ	#	0.0044	
Sodium	mg/L	07/22/2010	N001	137.2	-	154.2	18		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	137.2	-	154.2	185		FQ	#		
Sulfate	mg/L	07/22/2010	N001	137.2	-	154.2	13		FQ	#	1	
Temperature	C	07/22/2010	N001	137.2	-	154.2	20		FQ	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	137.2	-	154.2	120		FQ	#	20	
Turbidity	NTU	07/22/2010	N001	137.2	-	154.2	2.11		FQ	#		
Uranium	mg/L	07/22/2010	N001	137.2	-	154.2	0.000006	B	FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0915 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	170	-	180	17		FQ	#			
Ammonia Total as N	mg/L	07/21/2010	N001	170	-	180	0.1	U	FQ	#		0.1	
Arsenic	mg/L	07/21/2010	N001	170	-	180	0.00011		FQ	#		0.000015	
Calcium	mg/L	07/21/2010	N001	170	-	180	11		FQ	#		0.012	
Chloride	mg/L	07/21/2010	N001	170	-	180	12		FQ	#		0.4	
Iron	mg/L	07/21/2010	N001	170	-	180	0.0055	B	FQJ	#		0.0049	
Magnesium	mg/L	07/21/2010	N001	170	-	180	1.4		FQ	#		0.013	
Manganese	mg/L	07/21/2010	N001	170	-	180	0.00011	U	FQJ	#		0.00011	
Molybdenum	mg/L	07/21/2010	N001	170	-	180	0.00056		FQ	#		0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	170	-	180	3.2		FQ	#		0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	170	-	180	41.6		FQ	#			
pH	s.u.	07/21/2010	N001	170	-	180	10.49		FQ	#			
Potassium	mg/L	07/21/2010	N001	170	-	180	1.4		FQJ	#		0.11	
Selenium	mg/L	07/21/2010	N001	170	-	180	0.0017		FQ	#		0.000032	
Silica	mg/L	07/21/2010	N001	170	-	180	6.4		FQ	#		0.0095	
Silicon	mg/L	07/21/2010	N001	170	-	180	3		FQ	#		0.0044	
Sodium	mg/L	07/21/2010	N001	170	-	180	12		FQ	#		0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	170	-	180	202		FQ	#			
Sulfate	mg/L	07/21/2010	N001	170	-	180	18		FQ	#		1	
Temperature	C	07/21/2010	N001	170	-	180	18.21		FQ	#			
Total Dissolved Solids	mg/L	07/21/2010	N001	170	-	180	89		FQ	#		20	
Turbidity	NTU	07/21/2010	N001	170	-	180	1.57		FQ	#			
Uranium	mg/L	07/21/2010	N001	170	-	180	0.000009	B	FQ	#		0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0916 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	345.7	-	355.7	238		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	345.7	-	355.7	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	345.7	-	355.7	0.00014		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	345.7	-	355.7	88		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	345.7	-	355.7	7.2		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	345.7	-	355.7	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	345.7	-	355.7	0.013	U	FQJ	#	0.013	
Manganese	mg/L	07/21/2010	N001	345.7	-	355.7	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	345.7	-	355.7	0.00097		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	345.7	-	355.7	2.1		FQ	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	345.7	-	355.7	16.7		FQ	#		
pH	s.u.	07/21/2010	N001	345.7	-	355.7	11.58		FQ	#		
Potassium	mg/L	07/21/2010	N001	345.7	-	355.7	5.5	E	FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	345.7	-	355.7	0.00086		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	345.7	-	355.7	13		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	345.7	-	355.7	5.9		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	345.7	-	355.7	17	E	FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	345.7	-	355.7	1215		FQ	#		
Sulfate	mg/L	07/21/2010	N001	345.7	-	355.7	9.2		FQ	#	1	
Temperature	C	07/21/2010	N001	345.7	-	355.7	18.02		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	345.7	-	355.7	290		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	345.7	-	355.7	0.9		FQ	#		
Uranium	mg/L	07/21/2010	N001	345.7	-	355.7	0.000018		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0920 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	114.4	-	154.4	94		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	114.4	-	154.4	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	114.4	-	154.4	0.0023		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	114.4	-	154.4	30		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	114.4	-	154.4	9		F	#	0.4	
Iron	mg/L	07/21/2010	N001	114.4	-	154.4	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	114.4	-	154.4	6.9		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	114.4	-	154.4	0.0008	B	F	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	114.4	-	154.4	0.0003		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	114.4	-	154.4	3.3		F	#	0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	114.4	-	154.4	113.6		F	#		
pH	s.u.	07/21/2010	N001	114.4	-	154.4	8.04		F	#		
Potassium	mg/L	07/21/2010	N001	114.4	-	154.4	1		FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	114.4	-	154.4	0.0013		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	114.4	-	154.4	11		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	114.4	-	154.4	5.2		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	114.4	-	154.4	7.9		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	114.4	-	154.4	266		F	#		
Sulfate	mg/L	07/21/2010	N001	114.4	-	154.4	13		F	#	1	
Temperature	C	07/21/2010	N001	114.4	-	154.4	18.04		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	114.4	-	154.4	150		F	#	20	
Turbidity	NTU	07/21/2010	N001	114.4	-	154.4	1.58		F	#		
Uranium	mg/L	07/21/2010	N001	114.4	-	154.4	0.0014		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0921 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	313.2	-	353.2	83		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	313.2	-	353.2	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	313.2	-	353.2	0.00021		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	313.2	-	353.2	23		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	313.2	-	353.2	6		F	#	0.4	
Iron	mg/L	07/20/2010	N001	313.2	-	353.2	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	313.2	-	353.2	3.3		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	313.2	-	353.2	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	313.2	-	353.2	0.00022		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	313.2	-	353.2	2.5		F	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	313.2	-	353.2	130		F	#		
pH	s.u.	07/20/2010	N001	313.2	-	353.2	8.24		F	#		
Potassium	mg/L	07/20/2010	N001	313.2	-	353.2	4.6		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	313.2	-	353.2	0.00096		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	313.2	-	353.2	9.1		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	313.2	-	353.2	4.3		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	313.2	-	353.2	9.2		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	313.2	-	353.2	217		F	#		
Sulfate	mg/L	07/20/2010	N001	313.2	-	353.2	8.7		F	#	1	
Temperature	C	07/20/2010	N001	313.2	-	353.2	20.53		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	313.2	-	353.2	120		F	#	20	
Turbidity	NTU	07/20/2010	N001	313.2	-	353.2	0.99		F	#		
Uranium	mg/L	07/20/2010	N001	313.2	-	353.2	0.0048		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0929 WELL No Log Information.

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	48.2	-	88.2	90		FQ	#		
Ammonia Total as N	mg/L	07/22/2010	N001	48.2	-	88.2	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/22/2010	N001	48.2	-	88.2	0.0015		FQ	#	0.000015	
Calcium	mg/L	07/22/2010	N001	48.2	-	88.2	49		FQ	#	0.012	
Chloride	mg/L	07/22/2010	N001	48.2	-	88.2	16		FQ	#	0.4	
Iron	mg/L	07/22/2010	N001	48.2	-	88.2	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/22/2010	N001	48.2	-	88.2	8.3		FQ	#	0.013	
Manganese	mg/L	07/22/2010	N001	48.2	-	88.2	0.0008	B	UFQ	#	0.00011	
Molybdenum	mg/L	07/22/2010	N001	48.2	-	88.2	0.00032		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	N001	48.2	-	88.2	15		FQ	#	0.1	
Oxidation Reduction Potential	mV	07/22/2010	N001	48.2	-	88.2	42.2		RFQ	#		
pH	s.u.	07/22/2010	N001	48.2	-	88.2	7.6		FQ	#		
Potassium	mg/L	07/22/2010	N001	48.2	-	88.2	1.2		FQJ	#	0.11	
Selenium	mg/L	07/22/2010	N001	48.2	-	88.2	0.0023		FQ	#	0.000032	
Silica	mg/L	07/22/2010	N001	48.2	-	88.2	12		FQ	#	0.0095	
Silicon	mg/L	07/22/2010	N001	48.2	-	88.2	5.6		FQ	#	0.0044	
Sodium	mg/L	07/22/2010	N001	48.2	-	88.2	11		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/22/2010	N001	48.2	-	88.2	392		FQ	#		
Sulfate	mg/L	07/22/2010	N001	48.2	-	88.2	25		FQ	#	1	
Temperature	C	07/22/2010	N001	48.2	-	88.2	16.87		FQ	#		
Total Dissolved Solids	mg/L	07/22/2010	N001	48.2	-	88.2	270		FQ	#	20	
Turbidity	NTU	07/22/2010	N001	48.2	-	88.2	1.37		FQ	#		
Uranium	mg/L	07/22/2010	N001	48.2	-	88.2	0.0015		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0930 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab. QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	20	-	50	97		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	20	-	50	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	20	-	50	0.0015		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	20	-	50	58		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	20	-	50	19		F	#	0.4	
Iron	mg/L	07/20/2010	N001	20	-	50	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	20	-	50	12		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	20	-	50	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	20	-	50	0.00022		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	20	-	50	13		F	#	0.1	
Oxidation Reduction Potential	mV	07/20/2010	N001	20	-	50	124.9		F	#		
pH	s.u.	07/20/2010	N001	20	-	50	7.75		F	#		
Potassium	mg/L	07/20/2010	N001	20	-	50	1.5		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	20	-	50	0.0019		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	20	-	50	13		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	20	-	50	5.9		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	20	-	50	11		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	20	-	50	477		F	#		
Sulfate	mg/L	07/20/2010	N001	20	-	50	60		F	#	1	
Temperature	C	07/20/2010	N001	20	-	50	18.33		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	20	-	50	310		F	#	20	
Turbidity	NTU	07/20/2010	N001	20	-	50	5.21		F	#		
Uranium	mg/L	07/20/2010	N001	20	-	50	0.0031		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0932 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	112.5	-	132.5	130		F	#		
Ammonia Total as N	mg/L	07/21/2010	N001	112.5	-	132.5	0.1	U	F	#	0.1	
Arsenic	mg/L	07/21/2010	N001	112.5	-	132.5	0.0014		F	#	0.000015	
Calcium	mg/L	07/21/2010	N001	112.5	-	132.5	40		F	#	0.012	
Chloride	mg/L	07/21/2010	N001	112.5	-	132.5	12		F	#	0.4	
Iron	mg/L	07/21/2010	N001	112.5	-	132.5	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	112.5	-	132.5	8.3		F	#	0.013	
Manganese	mg/L	07/21/2010	N001	112.5	-	132.5	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	112.5	-	132.5	0.00044		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	112.5	-	132.5	6.7		F	#	0.05	
Oxidation Reduction Potential	mV	07/21/2010	N001	112.5	-	132.5	110		F	#		
pH	s.u.	07/21/2010	N001	112.5	-	132.5	7.89		F	#		
Potassium	mg/L	07/21/2010	N001	112.5	-	132.5	1.2		FJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	112.5	-	132.5	0.0015		F	#	0.000032	
Silica	mg/L	07/21/2010	N001	112.5	-	132.5	12		F	#	0.0095	
Silicon	mg/L	07/21/2010	N001	112.5	-	132.5	5.5		F	#	0.0044	
Sodium	mg/L	07/21/2010	N001	112.5	-	132.5	13		F	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	112.5	-	132.5	360		F	#		
Sulfate	mg/L	07/21/2010	N001	112.5	-	132.5	28		F	#	1	
Temperature	C	07/21/2010	N001	112.5	-	132.5	19.8		F	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	112.5	-	132.5	200		F	#	20	
Turbidity	NTU	07/21/2010	N001	112.5	-	132.5	0.53		F	#		
Uranium	mg/L	07/21/2010	N001	112.5	-	132.5	0.0016		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0934 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	45	-	90	720		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	45	-	90	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	45	-	90	0.00084		FQ	#	0.00003	
Calcium	mg/L	07/20/2010	N001	45	-	90	730		FQ	#	0.024	
Chloride	mg/L	07/20/2010	N001	45	-	90	230		FQ	#	10	
Iron	mg/L	07/20/2010	N001	45	-	90	0.0099	U	FQJ	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	45	-	90	940		FQ	#	0.026	
Manganese	mg/L	07/20/2010	N001	45	-	90	0.0064	B	FQ	#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	45	-	90	0.00014	B	FQ	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	45	-	90	390		FQ	#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	45	-	90	47.1		RFQ	#		
pH	s.u.	07/20/2010	N001	45	-	90	6.62		FQ	#		
Potassium	mg/L	07/20/2010	N001	45	-	90	9.4		FQJ	#	0.22	
Selenium	mg/L	07/20/2010	N001	45	-	90	0.012		FQ	#	0.000065	
Silica	mg/L	07/20/2010	N001	45	-	90	17		FQ	#	0.019	
Silicon	mg/L	07/20/2010	N001	45	-	90	8.1		FQ	#	0.0089	
Sodium	mg/L	07/20/2010	N001	45	-	90	140		FQ	#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	45	-	90	7586		FQ	#		
Sulfate	mg/L	07/20/2010	N001	45	-	90	3000		FQ	#	25	
Temperature	C	07/20/2010	N001	45	-	90	18.53		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	45	-	90	8000		FQ	#	80	
Turbidity	NTU	07/20/2010	N001	45	-	90	1.42		FQ	#		
Uranium	mg/L	07/20/2010	N001	45	-	90	0.18		FQ	#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0935 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	50	-	90	570		#		
Ammonia Total as N	mg/L	07/20/2010	N001	50	-	90	63		#	5	
Arsenic	mg/L	07/20/2010	N001	50	-	90	0.0011		#	0.00003	
Calcium	mg/L	07/20/2010	N001	50	-	90	730		#	0.024	
Chloride	mg/L	07/20/2010	N001	50	-	90	87		#	10	
Iron	mg/L	07/20/2010	N001	50	-	90	0.051	B	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	50	-	90	320		#	0.026	
Manganese	mg/L	07/20/2010	N001	50	-	90	0.48		#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	50	-	90	0.000064	U	#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	50	-	90	240		#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	50	-	90	-9.4	R	#		
pH	s.u.	07/20/2010	N001	50	-	90	6.72		#		
Potassium	mg/L	07/20/2010	N001	50	-	90	23	J	#	0.22	
Selenium	mg/L	07/20/2010	N001	50	-	90	0.019		#	0.000065	
Silica	mg/L	07/20/2010	N001	50	-	90	20		#	0.019	
Silicon	mg/L	07/20/2010	N001	50	-	90	9.3		#	0.0089	
Sodium	mg/L	07/20/2010	N001	50	-	90	320		#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	50	-	90	6093		#		
Sulfate	mg/L	07/20/2010	N001	50	-	90	2500		#	25	
Temperature	C	07/20/2010	N001	50	-	90	19.32		#		
Total Dissolved Solids	mg/L	07/20/2010	N001	50	-	90	5500		#	80	
Turbidity	NTU	07/20/2010	N001	50	-	90	2.9		#		
Uranium	mg/L	07/20/2010	N001	50	-	90	0.12		#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0936 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	42	-	82	380			#		
Ammonia Total as N	mg/L	07/20/2010	N001	42	-	82	3.1			#	0.1	
Arsenic	mg/L	07/20/2010	N001	42	-	82	0.00045			#	0.00003	
Calcium	mg/L	07/20/2010	N001	42	-	82	380			#	0.012	
Chloride	mg/L	07/20/2010	N001	42	-	82	64			#	4	
Iron	mg/L	07/20/2010	N001	42	-	82	0.0049	U	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	42	-	82	190			#	0.013	
Manganese	mg/L	07/20/2010	N001	42	-	82	1.3			#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	42	-	82	0.0013			#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	42	-	82	200			#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	42	-	82	232.6			#		
pH	s.u.	07/20/2010	N001	42	-	82	6.75			#		
Potassium	mg/L	07/20/2010	N001	42	-	82	7.2		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	42	-	82	0.017			#	0.000065	
Silica	mg/L	07/20/2010	N001	42	-	82	16			#	0.0095	
Silicon	mg/L	07/20/2010	N001	42	-	82	7.5			#	0.0044	
Sodium	mg/L	07/20/2010	N001	42	-	82	73			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	42	-	82	3311			#		
Sulfate	mg/L	07/20/2010	N001	42	-	82	710			#	10	
Temperature	C	07/20/2010	N001	42	-	82	24.93			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	42	-	82	2900			#	80	
Turbidity	NTU	07/20/2010	N001	42	-	82	0.79			#		
Uranium	mg/L	07/20/2010	N001	42	-	82	0.13			#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0938 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	40	-	95	844			#		
Ammonia Total as N	mg/L	07/20/2010	N001	40	-	95	0.56			#	0.1	
Arsenic	mg/L	07/20/2010	N001	40	-	95	0.0016			#	0.000074	
Calcium	mg/L	07/20/2010	N001	40	-	95	970			#	0.024	
Chloride	mg/L	07/20/2010	N001	40	-	95	160			#	10	
Iron	mg/L	07/20/2010	N001	40	-	95	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	40	-	95	530			#	0.026	
Manganese	mg/L	07/20/2010	N001	40	-	95	0.74			#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	40	-	95	0.011			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	40	-	95	360			#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	40	-	95	238.6			#		
pH	s.u.	07/20/2010	N001	40	-	95	6.6			#		
Potassium	mg/L	07/20/2010	N001	40	-	95	15		J	#	0.22	
Selenium	mg/L	07/20/2010	N001	40	-	95	0.051			#	0.00016	
Silica	mg/L	07/20/2010	N001	40	-	95	15			#	0.019	
Silicon	mg/L	07/20/2010	N001	40	-	95	7.1			#	0.0089	
Sodium	mg/L	07/20/2010	N001	40	-	95	350			#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	40	-	95	6471			#		
Sulfate	mg/L	07/20/2010	N001	40	-	95	2800			#	25	
Temperature	C	07/20/2010	N001	40	-	95	28.21			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	40	-	95	7600			#	80	
Turbidity	NTU	07/20/2010	N001	40	-	95	1.41			#		
Uranium	mg/L	07/20/2010	N001	40	-	95	0.45			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0940 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Ammonia Total as N	mg/L	07/21/2010	N001	45	-	60	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	45	-	60	0.003		FQ	#	0.000074	
Calcium	mg/L	07/21/2010	N001	45	-	60	460		FQ	#	0.06	
Chloride	mg/L	07/21/2010	N001	45	-	60	180		FQ	#	20	
Iron	mg/L	07/21/2010	N001	45	-	60	0.025	U	FQJ	#	0.025	
Magnesium	mg/L	07/21/2010	N001	45	-	60	2800		FQ	#	0.13	
Manganese	mg/L	07/21/2010	N001	45	-	60	26		FQ	#	0.00057	
Molybdenum	mg/L	07/21/2010	N001	45	-	60	0.0036		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	45	-	60	480		FQ	#	5	
Potassium	mg/L	07/21/2010	N001	45	-	60	30		FQJ	#	0.54	
Selenium	mg/L	07/21/2010	N001	45	-	60	0.072		FQ	#	0.00016	
Silica	mg/L	07/21/2010	N001	45	-	60	19		FQ	#	0.047	
Silicon	mg/L	07/21/2010	N001	45	-	60	8.8		FQ	#	0.022	
Sodium	mg/L	07/21/2010	N001	45	-	60	400		FQ	#	0.033	
Sulfate	mg/L	07/21/2010	N001	45	-	60	9000		FQ	#	50	
Total Dissolved Solids	mg/L	07/21/2010	N001	45	-	60	17000		FQ	#	200	
Uranium	mg/L	07/21/2010	N001	45	-	60	0.42		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0941 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	45	-	65	480		FQ	#		
Ammonia Total as N	mg/L	07/20/2010	N001	45	-	65	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/20/2010	N001	45	-	65	0.0016		FQ	#	0.000074	
Calcium	mg/L	07/20/2010	N001	45	-	65	930		FQ	#	0.024	
Chloride	mg/L	07/20/2010	N001	45	-	65	170		FQ	#	10	
Iron	mg/L	07/20/2010	N001	45	-	65	0.0099	U	FQJ	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	45	-	65	130		FQ	#	0.026	
Manganese	mg/L	07/20/2010	N001	45	-	65	0.006	B	FQ	#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	45	-	65	0.013		FQ	#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	45	-	65	250		FQ	#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	45	-	65	144.8		RFQ	#		
pH	s.u.	07/20/2010	N001	45	-	65	6.55		FQ	#		
Potassium	mg/L	07/20/2010	N001	45	-	65	6.2		FQJ	#	0.22	
Selenium	mg/L	07/20/2010	N001	45	-	65	0.099		FQ	#	0.00016	
Silica	mg/L	07/20/2010	N001	45	-	65	16		FQ	#	0.019	
Silicon	mg/L	07/20/2010	N001	45	-	65	7.7		FQ	#	0.0089	
Sodium	mg/L	07/20/2010	N001	45	-	65	150		FQ	#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	45	-	65	4932		FQ	#		
Sulfate	mg/L	07/20/2010	N001	45	-	65	1300		FQ	#	25	
Temperature	C	07/20/2010	N001	45	-	65	17.31		FQ	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	45	-	65	4900		FQ	#	80	
Turbidity	NTU	07/20/2010	N001	45	-	65	4.74		FQ	#		
Uranium	mg/L	07/20/2010	N001	45	-	65	0.19		FQ	#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0942 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Lab QA	Detection Limit	Uncertainty
									Data			
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	54	-	74	605			#		
Ammonia Total as N	mg/L	07/20/2010	N001	54	-	74	100			#	10	
Arsenic	mg/L	07/20/2010	N001	54	-	74	0.002			#	0.000074	
Calcium	mg/L	07/20/2010	N001	54	-	74	650			#	0.024	
Chloride	mg/L	07/20/2010	N001	54	-	74	190			#	10	
Iron	mg/L	07/20/2010	N001	54	-	74	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	54	-	74	410			#	0.026	
Manganese	mg/L	07/20/2010	N001	54	-	74	2.9			#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	54	-	74	0.011			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	54	-	74	220			#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	54	-	74	264.1			#		
pH	s.u.	07/20/2010	N001	54	-	74	6.35			#		
Potassium	mg/L	07/20/2010	N001	54	-	74	31		J	#	0.22	
Selenium	mg/L	07/20/2010	N001	54	-	74	0.045			#	0.00016	
Silica	mg/L	07/20/2010	N001	54	-	74	16			#	0.019	
Silicon	mg/L	07/20/2010	N001	54	-	74	7.6			#	0.0089	
Sodium	mg/L	07/20/2010	N001	54	-	74	500			#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	54	-	74	7093			#		
Sulfate	mg/L	07/20/2010	N001	54	-	74	2900			#	25	
Temperature	C	07/20/2010	N001	54	-	74	17.35			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	54	-	74	6300			#	80	
Turbidity	NTU	07/20/2010	N001	54	-	74	2.1			#		
Uranium	mg/L	07/20/2010	N001	54	-	74	0.53			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0943 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers		Lab QA	Detection Limit	Uncertainty
									Data			
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	101	-	121	72			#		
Ammonia Total as N	mg/L	07/20/2010	N001	101	-	121	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	101	-	121	0.0044			#	0.000015	
Calcium	mg/L	07/20/2010	N001	101	-	121	11			#	0.012	
Chloride	mg/L	07/20/2010	N001	101	-	121	2			#	0.4	
Iron	mg/L	07/20/2010	N001	101	-	121	0.0049	U	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	101	-	121	2.4			#	0.013	
Manganese	mg/L	07/20/2010	N001	101	-	121	0.011			#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	101	-	121	0.00079			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	101	-	121	2.3			#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	101	-	121	42.5		R	#		
pH	s.u.	07/20/2010	N001	101	-	121	7.08			#		
Potassium	mg/L	07/20/2010	N001	101	-	121	0.61	B	J	#	0.11	
Selenium	mg/L	07/20/2010	N001	101	-	121	0.00035		J	#	0.000032	
Silica	mg/L	07/20/2010	N001	101	-	121	15			#	0.0095	
Silicon	mg/L	07/20/2010	N001	101	-	121	6.9			#	0.0044	
Sodium	mg/L	07/20/2010	N001	101	-	121	15			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	101	-	121	163			#		
Sulfate	mg/L	07/20/2010	N001	101	-	121	26			#	1	
Temperature	C	07/20/2010	N001	101	-	121	20.13			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	101	-	121	110			#	20	
Turbidity	NTU	07/20/2010	N001	101	-	121	1.28			#		
Uranium	mg/L	07/20/2010	N001	101	-	121	0.0087			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0945 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	110	-	130	118		FQ	#		
Ammonia Total as N	mg/L	07/21/2010	N001	110	-	130	0.1	U	FQ	#	0.1	
Arsenic	mg/L	07/21/2010	N001	110	-	130	0.0022		FQ	#	0.000015	
Calcium	mg/L	07/21/2010	N001	110	-	130	40		FQ	#	0.012	
Chloride	mg/L	07/21/2010	N001	110	-	130	33		FQ	#	0.4	
Iron	mg/L	07/21/2010	N001	110	-	130	0.0049	U	FQJ	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	110	-	130	8.1		FQ	#	0.013	
Manganese	mg/L	07/21/2010	N001	110	-	130	0.00011	U	FQJ	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	110	-	130	0.00063		FQ	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	110	-	130	4.9		FQ	#	0.05	
Oxidation Reduction Potential	mV	07/21/2010	N001	110	-	130	68.1		RFQ	#		
pH	s.u.	07/21/2010	N001	110	-	130	7.59		FQ	#		
Potassium	mg/L	07/21/2010	N001	110	-	130	1		FQJ	#	0.11	
Selenium	mg/L	07/21/2010	N001	110	-	130	0.0027		FQ	#	0.000032	
Silica	mg/L	07/21/2010	N001	110	-	130	12		FQ	#	0.0095	
Silicon	mg/L	07/21/2010	N001	110	-	130	5.5		FQ	#	0.0044	
Sodium	mg/L	07/21/2010	N001	110	-	130	14		FQ	#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	110	-	130	354		FQ	#		
Sulfate	mg/L	07/21/2010	N001	110	-	130	26		FQ	#	1	
Temperature	C	07/21/2010	N001	110	-	130	18.51		FQ	#		
Total Dissolved Solids	mg/L	07/21/2010	N001	110	-	130	210		FQ	#	20	
Turbidity	NTU	07/21/2010	N001	110	-	130	8.15		FQ	#		
Uranium	mg/L	07/21/2010	N001	110	-	130	0.0013		FQ	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0946 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	40	-	60	62		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	40	-	60	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	40	-	60	0.018		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	40	-	60	14		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	40	-	60	4.4		F	#	0.4	
Iron	mg/L	07/20/2010	N001	40	-	60	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	40	-	60	2.4		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	40	-	60	0.00023	B	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	40	-	60	0.00049		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	40	-	60	2.3		F	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	40	-	60	-100.6		RF	#		
pH	s.u.	07/20/2010	N001	40	-	60	8.41		F	#		
Potassium	mg/L	07/20/2010	N001	40	-	60	0.34	B	FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	40	-	60	0.00063		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	40	-	60	12		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	40	-	60	5.7		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	40	-	60	17		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	40	-	60	197		F	#		
Sulfate	mg/L	07/20/2010	N001	40	-	60	25		F	#	1	
Temperature	C	07/20/2010	N001	40	-	60	19.96		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	40	-	60	110		F	#	20	
Turbidity	NTU	07/20/2010	N001	40	-	60	1.79		F	#		
Uranium	mg/L	07/20/2010	N001	40	-	60	0.00011		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 0947 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	105	-	125	99		FQ	#			
Ammonia Total as N	mg/L	07/21/2010	N001	105	-	125	0.1	U	FQ	#		0.1	
Arsenic	mg/L	07/21/2010	N001	105	-	125	0.0029		FQ	#		0.000015	
Calcium	mg/L	07/21/2010	N001	105	-	125	33		FQ	#		0.012	
Chloride	mg/L	07/21/2010	N001	105	-	125	12		FQ	#		0.4	
Iron	mg/L	07/21/2010	N001	105	-	125	0.0049	U	FQJ	#		0.0049	
Magnesium	mg/L	07/21/2010	N001	105	-	125	6.6		FQ	#		0.013	
Manganese	mg/L	07/21/2010	N001	105	-	125	0.00011	U	FQJ	#		0.00011	
Molybdenum	mg/L	07/21/2010	N001	105	-	125	0.00044		FQ	#		0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	105	-	125	3.1		FQ	#		0.02	
Oxidation Reduction Potential	mV	07/21/2010	N001	105	-	125	95.3		RFQ	#			
pH	s.u.	07/21/2010	N001	105	-	125	7.63		FQ	#			
Potassium	mg/L	07/21/2010	N001	105	-	125	0.68	B	FQJ	#		0.11	
Selenium	mg/L	07/21/2010	N001	105	-	125	0.0018		FQ	#		0.000032	
Silica	mg/L	07/21/2010	N001	105	-	125	12		FQ	#		0.0095	
Silicon	mg/L	07/21/2010	N001	105	-	125	5.5		FQ	#		0.0044	
Sodium	mg/L	07/21/2010	N001	105	-	125	10		FQ	#		0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	105	-	125	277		FQ	#			
Sulfate	mg/L	07/21/2010	N001	105	-	125	17		FQ	#		1	
Temperature	C	07/21/2010	N001	105	-	125	18.49		FQ	#			
Total Dissolved Solids	mg/L	07/21/2010	N001	105	-	125	170		FQ	#		20	
Turbidity	NTU	07/21/2010	N001	105	-	125	3.02		FQ	#			
Uranium	mg/L	07/21/2010	N001	105	-	125	0.0012		FQ	#		0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1003 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	55.5	-	105.5	197		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	55.5	-	105.5	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	55.5	-	105.5	0.0013		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	55.5	-	105.5	320		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	55.5	-	105.5	53		F	#	4	
Iron	mg/L	07/20/2010	N001	55.5	-	105.5	0.0049	U	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	55.5	-	105.5	45		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	55.5	-	105.5	0.00011	U	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	55.5	-	105.5	0.00017		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	55.5	-	105.5	61		F	#	0.5	
Oxidation Reduction Potential	mV	07/20/2010	N001	55.5	-	105.5	173		F	#		
pH	s.u.	07/20/2010	N001	55.5	-	105.5	7.2		F	#		
Potassium	mg/L	07/20/2010	N001	55.5	-	105.5	3.8		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	55.5	-	105.5	0.0036		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	55.5	-	105.5	14		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	55.5	-	105.5	6.4		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	55.5	-	105.5	35		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	55.5	-	105.5	1810		F	#		
Sulfate	mg/L	07/20/2010	N001	55.5	-	105.5	480		F	#	10	
Temperature	C	07/20/2010	N001	55.5	-	105.5	20.4		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	55.5	-	105.5	1600		F	#	40	
Turbidity	NTU	07/20/2010	N001	55.5	-	105.5	2.73		F	#		
Uranium	mg/L	07/20/2010	N001	55.5	-	105.5	0.038		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1004 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	45.5	-	95.5	121		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	45.5	-	95.5	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	45.5	-	95.5	0.0029		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	45.5	-	95.5	59		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	45.5	-	95.5	15		F	#	0.4	
Iron	mg/L	07/20/2010	N001	45.5	-	95.5	0.11		F	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	45.5	-	95.5	10		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	45.5	-	95.5	0.00026	B	FJ	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	45.5	-	95.5	0.00038		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	45.5	-	95.5	8.7		F	#	0.05	
Oxidation Reduction Potential	mV	07/20/2010	N001	45.5	-	95.5	145.6		F	#		
pH	s.u.	07/20/2010	N001	45.5	-	95.5	7.58		F	#		
Potassium	mg/L	07/20/2010	N001	45.5	-	95.5	0.9	B	FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	45.5	-	95.5	0.0017		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	45.5	-	95.5	12		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	45.5	-	95.5	5.7		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	45.5	-	95.5	14		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	45.5	-	95.5	463		F	#		
Sulfate	mg/L	07/20/2010	N001	45.5	-	95.5	56		F	#	1	
Temperature	C	07/20/2010	N001	45.5	-	95.5	21.93		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	45.5	-	95.5	300		F	#	20	
Turbidity	NTU	07/20/2010	N001	45.5	-	95.5	2.22		F	#		
Uranium	mg/L	07/20/2010	N001	45.5	-	95.5	0.0064		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1006 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	45.74	-	95.74	80		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	45.74	-	95.74	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	45.74	-	95.74	0.0019		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	45.74	-	95.74	25		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	45.74	-	95.74	9.1		F	#	0.4	
Iron	mg/L	07/20/2010	N001	45.74	-	95.74	0.0077	B	FJ	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	45.74	-	95.74	7		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	45.74	-	95.74	0.00069	B	F	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	45.74	-	95.74	0.00036		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	45.74	-	95.74	3.1		F	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	45.74	-	95.74	113.4		F	#		
pH	s.u.	07/20/2010	N001	45.74	-	95.74	8.04		F	#		
Potassium	mg/L	07/20/2010	N001	45.74	-	95.74	1.5		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	45.74	-	95.74	0.0012		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	45.74	-	95.74	12		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	45.74	-	95.74	5.8		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	45.74	-	95.74	8.6		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	45.74	-	95.74	246		F	#		
Sulfate	mg/L	07/20/2010	N001	45.74	-	95.74	13		F	#	1	
Temperature	C	07/20/2010	N001	45.74	-	95.74	19.45		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	45.74	-	95.74	140		F	#	20	
Turbidity	NTU	07/20/2010	N001	45.74	-	95.74	0.65		F	#		
Uranium	mg/L	07/20/2010	N001	45.74	-	95.74	0.0013		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1007 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	45.79	-	95.99	95		F	#		
Ammonia Total as N	mg/L	07/20/2010	N001	45.79	-	95.99	0.1	U	F	#	0.1	
Arsenic	mg/L	07/20/2010	N001	45.79	-	95.99	0.0023		F	#	0.000015	
Calcium	mg/L	07/20/2010	N001	45.79	-	95.99	30		F	#	0.012	
Chloride	mg/L	07/20/2010	N001	45.79	-	95.99	8.8		F	#	0.4	
Iron	mg/L	07/20/2010	N001	45.79	-	95.99	0.2		F	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	45.79	-	95.99	7		F	#	0.013	
Manganese	mg/L	07/20/2010	N001	45.79	-	95.99	0.00072	B	F	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	45.79	-	95.99	0.00028		F	#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	45.79	-	95.99	3.1		F	#	0.02	
Oxidation Reduction Potential	mV	07/20/2010	N001	45.79	-	95.99	86.7		F	#		
pH	s.u.	07/20/2010	N001	45.79	-	95.99	8.3		F	#		
Potassium	mg/L	07/20/2010	N001	45.79	-	95.99	1.1		FJ	#	0.11	
Selenium	mg/L	07/20/2010	N001	45.79	-	95.99	0.0013		F	#	0.000032	
Silica	mg/L	07/20/2010	N001	45.79	-	95.99	12		F	#	0.0095	
Silicon	mg/L	07/20/2010	N001	45.79	-	95.99	5.8		F	#	0.0044	
Sodium	mg/L	07/20/2010	N001	45.79	-	95.99	6.9		F	#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	45.79	-	95.99	262		F	#		
Sulfate	mg/L	07/20/2010	N001	45.79	-	95.99	13		F	#	1	
Temperature	C	07/20/2010	N001	45.79	-	95.99	19.99		F	#		
Total Dissolved Solids	mg/L	07/20/2010	N001	45.79	-	95.99	160		F	#	20	
Turbidity	NTU	07/20/2010	N001	45.79	-	95.99	3.89		F	#		
Uranium	mg/L	07/20/2010	N001	45.79	-	95.99	0.0014		F	#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1101 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	96.15	-	251.5	2.98			#		
Ammonia Total as N	mg/L	07/19/2010	N001	96.15	-	251.5	1.1			#	0.1	
Arsenic	mg/L	07/19/2010	N001	96.15	-	251.5	0.0016			#	0.000074	
Calcium	mg/L	07/19/2010	N001	96.15	-	251.5	400			#	0.012	
Chloride	mg/L	07/19/2010	N001	96.15	-	251.5	110			#	4	
Iron	mg/L	07/19/2010	N001	96.15	-	251.5	0.033	B		#	0.0049	
Magnesium	mg/L	07/19/2010	N001	96.15	-	251.5	94			#	0.013	
Manganese	mg/L	07/19/2010	N001	96.15	-	251.5	0.31			#	0.00011	
Molybdenum	mg/L	07/19/2010	N001	96.15	-	251.5	0.00048	B		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	96.15	-	251.5	69			#	0.5	
Oxidation Reduction Potential	mV	07/19/2010	N001	96.15	-	251.5	59.9		R	#		
pH	s.u.	07/19/2010	N001	96.15	-	251.5	6.56			#		
Potassium	mg/L	07/19/2010	N001	96.15	-	251.5	7.6		J	#	0.11	
Selenium	mg/L	07/19/2010	N001	96.15	-	251.5	0.02			#	0.00016	
Silica	mg/L	07/19/2010	N001	96.15	-	251.5	14			#	0.0095	
Silicon	mg/L	07/19/2010	N001	96.15	-	251.5	6.8			#	0.0044	
Sodium	mg/L	07/19/2010	N001	96.15	-	251.5	220			#	0.0066	
Specific Conductance	umhos/cm	07/19/2010	N001	96.15	-	251.5	2783			#		
Sulfate	mg/L	07/19/2010	N001	96.15	-	251.5	1200			#	10	
Temperature	C	07/19/2010	N001	96.15	-	251.5	17.76			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	96.15	-	251.5	2600			#	40	
Turbidity	NTU	07/19/2010	N001	96.15	-	251.5	1.11			#		
Uranium	mg/L	07/19/2010	N001	96.15	-	251.5	0.24			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1102 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Lab QA	Detection Limit	Uncertainty
									Data			
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	101.5	-	251.5	339			#		
Ammonia Total as N	mg/L	07/19/2010	N001	101.5	-	251.5	0.5			#	0.1	
Arsenic	mg/L	07/19/2010	N001	101.5	-	251.5	0.0017			#	0.000074	
Calcium	mg/L	07/19/2010	N001	101.5	-	251.5	500			#	0.024	
Chloride	mg/L	07/19/2010	N001	101.5	-	251.5	93			#	4	
Iron	mg/L	07/19/2010	N001	101.5	-	251.5	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	101.5	-	251.5	130			#	0.026	
Manganese	mg/L	07/19/2010	N001	101.5	-	251.5	0.61			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	101.5	-	251.5	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	101.5	-	251.5	110			#	1	
Oxidation Reduction Potential	mV	07/19/2010	N001	101.5	-	251.5	58.4		R	#		
pH	s.u.	07/19/2010	N001	101.5	-	251.5	6.49			#		
Potassium	mg/L	07/19/2010	N001	101.5	-	251.5	6.6		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	101.5	-	251.5	0.022			#	0.00016	
Silica	mg/L	07/19/2010	N001	101.5	-	251.5	15			#	0.019	
Silicon	mg/L	07/19/2010	N001	101.5	-	251.5	6.8			#	0.0089	
Sodium	mg/L	07/19/2010	N001	101.5	-	251.5	190			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	101.5	-	251.5	3284			#		
Sulfate	mg/L	07/19/2010	N001	101.5	-	251.5	1300			#	10	
Temperature	C	07/19/2010	N001	101.5	-	251.5	17.39			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	101.5	-	251.5	3100			#	80	
Turbidity	NTU	07/19/2010	N001	101.5	-	251.5	2			#		
Uranium	mg/L	07/19/2010	N001	101.5	-	251.5	0.39			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1103 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	100	-	250	452		#		
Ammonia Total as N	mg/L	07/20/2010	N001	100	-	250	20		#	0.5	
Arsenic	mg/L	07/20/2010	N001	100	-	250	0.0052		#	0.000074	
Calcium	mg/L	07/20/2010	N001	100	-	250	650		#	0.024	
Chloride	mg/L	07/20/2010	N001	100	-	250	140		#	10	
Iron	mg/L	07/20/2010	N001	100	-	250	5.5		#	0.0099	
Magnesium	mg/L	07/20/2010	N001	100	-	250	280		#	0.026	
Manganese	mg/L	07/20/2010	N001	100	-	250	4.9		#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	100	-	250	0.0039		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	100	-	250	240		#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	100	-	250	135.7	R	#		
pH	s.u.	07/20/2010	N001	100	-	250	6.32		#		
Potassium	mg/L	07/20/2010	N001	100	-	250	18	J	#	0.22	
Selenium	mg/L	07/20/2010	N001	100	-	250	0.036		#	0.00016	
Silica	mg/L	07/20/2010	N001	100	-	250	17		#	0.019	
Silicon	mg/L	07/20/2010	N001	100	-	250	8		#	0.0089	
Sodium	mg/L	07/20/2010	N001	100	-	250	370		#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	100	-	250	5469		#		
Sulfate	mg/L	07/20/2010	N001	100	-	250	2200		#	25	
Temperature	C	07/20/2010	N001	100	-	250	18.27		#		
Total Dissolved Solids	mg/L	07/20/2010	N001	100	-	250	5200		#	80	
Turbidity	NTU	07/20/2010	N001	100	-	250	1.83		#		
Uranium	mg/L	07/20/2010	N001	100	-	250	0.47		#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1104 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	90	-	245	388			#		
Ammonia Total as N	mg/L	07/19/2010	N001	90	-	245	19			#	0.5	
Arsenic	mg/L	07/19/2010	N001	90	-	245	0.0022			#	0.00015	
Calcium	mg/L	07/19/2010	N001	90	-	245	400			#	0.024	
Chloride	mg/L	07/19/2010	N001	90	-	245	78			#	4	
Iron	mg/L	07/19/2010	N001	90	-	245	0.033	B	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	90	-	245	130			#	0.026	
Manganese	mg/L	07/19/2010	N001	90	-	245	0.55			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	90	-	245	0.042			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	90	-	245	110			#	1	
Oxidation Reduction Potential	mV	07/19/2010	N001	90	-	245	158.5			#		
pH	s.u.	07/19/2010	N001	90	-	245	6.45			#		
Potassium	mg/L	07/19/2010	N001	90	-	245	8.8		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	90	-	245	0.028			#	0.00032	
Silica	mg/L	07/19/2010	N001	90	-	245	15			#	0.019	
Silicon	mg/L	07/19/2010	N001	90	-	245	6.9			#	0.0089	
Sodium	mg/L	07/19/2010	N001	90	-	245	200			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	90	-	245	3483			#		
Sulfate	mg/L	07/19/2010	N001	90	-	245	1200			#	10	
Temperature	C	07/19/2010	N001	90	-	245	17.35			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	90	-	245	2800			#	80	
Turbidity	NTU	07/19/2010	N001	90	-	245	1.3			#		
Uranium	mg/L	07/19/2010	N001	90	-	245	0.65			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1105 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	90	-	245	591			#		
Ammonia Total as N	mg/L	07/19/2010	N001	90	-	245	19			#	0.5	
Arsenic	mg/L	07/19/2010	N001	90	-	245	0.67			#	0.0003	
Calcium	mg/L	07/19/2010	N001	90	-	245	730			#	0.024	
Chloride	mg/L	07/19/2010	N001	90	-	245	140			#	10	
Iron	mg/L	07/19/2010	N001	90	-	245	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	90	-	245	220			#	0.026	
Manganese	mg/L	07/19/2010	N001	90	-	245	0.21			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	90	-	245	0.89			#	0.00064	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	90	-	245	200			#	2	
Oxidation Reduction Potential	mV	07/19/2010	N001	90	-	245	164.1			#		
pH	s.u.	07/19/2010	N001	90	-	245	6.41			#		
Potassium	mg/L	07/19/2010	N001	90	-	245	13		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	90	-	245	0.066			#	0.00065	
Silica	mg/L	07/19/2010	N001	90	-	245	16			#	0.019	
Silicon	mg/L	07/19/2010	N001	90	-	245	7.4			#	0.0089	
Sodium	mg/L	07/19/2010	N001	90	-	245	420			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	90	-	245	5667			#		
Sulfate	mg/L	07/19/2010	N001	90	-	245	2100			#	25	
Temperature	C	07/19/2010	N001	90	-	245	17.67			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	90	-	245	5200			#	80	
Turbidity	NTU	07/19/2010	N001	90	-	245	1.89			#		
Uranium	mg/L	07/19/2010	N001	90	-	245	2			#	0.000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1106 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	96.5	-	251.1	252			#		
Ammonia Total as N	mg/L	07/19/2010	N001	96.5	-	251.1	16			#	0.5	
Arsenic	mg/L	07/19/2010	N001	96.5	-	251.1	0.18			#	0.00015	
Calcium	mg/L	07/19/2010	N001	96.5	-	251.1	250			#	0.012	
Chloride	mg/L	07/19/2010	N001	96.5	-	251.1	51			#	4	
Iron	mg/L	07/19/2010	N001	96.5	-	251.1	0.019	B	J	#	0.0049	
Magnesium	mg/L	07/19/2010	N001	96.5	-	251.1	57			#	0.013	
Manganese	mg/L	07/19/2010	N001	96.5	-	251.1	0.024			#	0.00011	
Molybdenum	mg/L	07/19/2010	N001	96.5	-	251.1	0.088			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	96.5	-	251.1	70			#	0.5	
Oxidation Reduction Potential	mV	07/19/2010	N001	96.5	-	251.1	145.2			#		
pH	s.u.	07/19/2010	N001	96.5	-	251.1	6.71			#		
Potassium	mg/L	07/19/2010	N001	96.5	-	251.1	7.5	E	J	#	0.11	
Selenium	mg/L	07/19/2010	N001	96.5	-	251.1	0.025			#	0.00032	
Silica	mg/L	07/19/2010	N001	96.5	-	251.1	13			#	0.0095	
Silicon	mg/L	07/19/2010	N001	96.5	-	251.1	6.3			#	0.0044	
Sodium	mg/L	07/19/2010	N001	96.5	-	251.1	140			#	0.0066	
Specific Conductance	umhos/cm	07/19/2010	N001	96.5	-	251.1	2255			#		
Sulfate	mg/L	07/19/2010	N001	96.5	-	251.1	610			#	10	
Temperature	C	07/19/2010	N001	96.5	-	251.1	17.93			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	96.5	-	251.1	1700			#	40	
Turbidity	NTU	07/19/2010	N001	96.5	-	251.1	0.87			#		
Uranium	mg/L	07/19/2010	N001	96.5	-	251.1	0.65			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1107 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	91.1	-	245.5	598		#		
Ammonia Total as N	mg/L	07/19/2010	N001	91.1	-	245.5	0.59		#	0.1	
Arsenic	mg/L	07/19/2010	N001	91.1	-	245.5	0.0027		#	0.000074	
Calcium	mg/L	07/19/2010	N001	91.1	-	245.5	840		#	0.024	
Chloride	mg/L	07/19/2010	N001	91.1	-	245.5	150		#	10	
Iron	mg/L	07/19/2010	N001	91.1	-	245.5	0.068	B	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	91.1	-	245.5	150		#	0.026	
Manganese	mg/L	07/19/2010	N001	91.1	-	245.5	0.13		#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	91.1	-	245.5	0.065		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	91.1	-	245.5	230		#	2	
Oxidation Reduction Potential	mV	07/19/2010	N001	91.1	-	245.5	145.6		#		
pH	s.u.	07/19/2010	N001	91.1	-	245.5	6.4		#		
Potassium	mg/L	07/19/2010	N001	91.1	-	245.5	9.3	J	#	0.22	
Selenium	mg/L	07/19/2010	N001	91.1	-	245.5	0.068		#	0.00016	
Silica	mg/L	07/19/2010	N001	91.1	-	245.5	16		#	0.019	
Silicon	mg/L	07/19/2010	N001	91.1	-	245.5	7.6		#	0.0089	
Sodium	mg/L	07/19/2010	N001	91.1	-	245.5	310		#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	91.1	-	245.5	5167		#		
Sulfate	mg/L	07/19/2010	N001	91.1	-	245.5	1600		#	25	
Temperature	C	07/19/2010	N001	91.1	-	245.5	17.81		#		
Total Dissolved Solids	mg/L	07/19/2010	N001	91.1	-	245.5	4700		#	80	
Turbidity	NTU	07/19/2010	N001	91.1	-	245.5	1.88		#		
Uranium	mg/L	07/19/2010	N001	91.1	-	245.5	0.23		#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1108 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	96.3	-	246.3	545			#		
Ammonia Total as N	mg/L	07/19/2010	N001	96.3	-	246.3	46			#	2	
Arsenic	mg/L	07/19/2010	N001	96.3	-	246.3	0.0011			#	0.000074	
Calcium	mg/L	07/19/2010	N001	96.3	-	246.3	620			#	0.024	
Chloride	mg/L	07/19/2010	N001	96.3	-	246.3	99			#	10	
Iron	mg/L	07/19/2010	N001	96.3	-	246.3	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	96.3	-	246.3	210			#	0.026	
Manganese	mg/L	07/19/2010	N001	96.3	-	246.3	3.8			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	96.3	-	246.3	0.00096			#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	96.3	-	246.3	150			#	1	
Oxidation Reduction Potential	mV	07/19/2010	N001	96.3	-	246.3	171.4			#		
pH	s.u.	07/19/2010	N001	96.3	-	246.3	6.46			#		
Potassium	mg/L	07/19/2010	N001	96.3	-	246.3	15		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	96.3	-	246.3	0.038			#	0.00016	
Silica	mg/L	07/19/2010	N001	96.3	-	246.3	16			#	0.019	
Silicon	mg/L	07/19/2010	N001	96.3	-	246.3	7.3			#	0.0089	
Sodium	mg/L	07/19/2010	N001	96.3	-	246.3	260			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	96.3	-	246.3	4847			#		
Sulfate	mg/L	07/19/2010	N001	96.3	-	246.3	1900			#	25	
Temperature	C	07/19/2010	N001	96.3	-	246.3	17.58			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	96.3	-	246.3	4200			#	80	
Turbidity	NTU	07/19/2010	N001	96.3	-	246.3	1.73			#		
Uranium	mg/L	07/19/2010	N001	96.3	-	246.3	0.57			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1109 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	90.34	-	245.1	344			#		
Ammonia Total as N	mg/L	07/19/2010	N001	90.34	-	245.1	17			#	0.5	
Arsenic	mg/L	07/19/2010	N001	90.34	-	245.1	0.0015			#	0.00003	
Calcium	mg/L	07/19/2010	N001	90.34	-	245.1	370			#	0.024	
Chloride	mg/L	07/19/2010	N001	90.34	-	245.1	61			#	10	
Iron	mg/L	07/19/2010	N001	90.34	-	245.1	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	90.34	-	245.1	270			#	0.026	
Manganese	mg/L	07/19/2010	N001	90.34	-	245.1	5.5			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	90.34	-	245.1	0.00084			#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	90.34	-	245.1	100			#	1	
Oxidation Reduction Potential	mV	07/19/2010	N001	90.34	-	245.1	147.6			#		
pH	s.u.	07/19/2010	N001	90.34	-	245.1	6.35			#		
Potassium	mg/L	07/19/2010	N001	90.34	-	245.1	9		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	90.34	-	245.1	0.018			#	0.000065	
Silica	mg/L	07/19/2010	N001	90.34	-	245.1	14			#	0.019	
Silicon	mg/L	07/19/2010	N001	90.34	-	245.1	6.6			#	0.0089	
Sodium	mg/L	07/19/2010	N001	90.34	-	245.1	130			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	90.34	-	245.1	3665			#		
Sulfate	mg/L	07/19/2010	N001	90.34	-	245.1	1500			#	25	
Temperature	C	07/19/2010	N001	90.34	-	245.1	19.1			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	90.34	-	245.1	3300			#	80	
Turbidity	NTU	07/19/2010	N001	90.34	-	245.1	1.36			#		
Uranium	mg/L	07/19/2010	N001	90.34	-	245.1	0.35			#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1110 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	95.5	-	245.5	227		#		
Ammonia Total as N	mg/L	07/19/2010	N001	95.5	-	245.5	1.7		#	0.1	
Arsenic	mg/L	07/19/2010	N001	95.5	-	245.5	0.0018		#	0.000015	
Calcium	mg/L	07/19/2010	N001	95.5	-	245.5	210		#	0.012	
Chloride	mg/L	07/19/2010	N001	95.5	-	245.5	31		#	4	
Iron	mg/L	07/19/2010	N001	95.5	-	245.5	0.022	B J	#	0.0049	
Magnesium	mg/L	07/19/2010	N001	95.5	-	245.5	65		#	0.013	
Manganese	mg/L	07/19/2010	N001	95.5	-	245.5	0.37		#	0.00011	
Molybdenum	mg/L	07/19/2010	N001	95.5	-	245.5	0.0002		#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	95.5	-	245.5	47		#	0.5	
Oxidation Reduction Potential	mV	07/19/2010	N001	95.5	-	245.5	111.8		#		
pH	s.u.	07/19/2010	N001	95.5	-	245.5	6.58		#		
Potassium	mg/L	07/19/2010	N001	95.5	-	245.5	3.9	J	#	0.11	
Selenium	mg/L	07/19/2010	N001	95.5	-	245.5	0.0073		#	0.000032	
Silica	mg/L	07/19/2010	N001	95.5	-	245.5	13		#	0.0095	
Silicon	mg/L	07/19/2010	N001	95.5	-	245.5	5.9		#	0.0044	
Sodium	mg/L	07/19/2010	N001	95.5	-	245.5	56		#	0.0066	
Specific Conductance	umhos/cm	07/19/2010	N001	95.5	-	245.5	1677		#		
Sulfate	mg/L	07/19/2010	N001	95.5	-	245.5	510		#	10	
Temperature	C	07/19/2010	N001	95.5	-	245.5	17.91		#		
Total Dissolved Solids	mg/L	07/19/2010	N001	95.5	-	245.5	1300		#	40	
Turbidity	NTU	07/19/2010	N001	95.5	-	245.5	0.87		#		
Uranium	mg/L	07/19/2010	N001	95.5	-	245.5	0.087		#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1111 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	90.68	-	245.1	401			#		
Ammonia Total as N	mg/L	07/19/2010	N001	90.68	-	245.1	21			#	0.5	
Arsenic	mg/L	07/19/2010	N001	90.68	-	245.1	0.0011			#	0.00003	
Calcium	mg/L	07/19/2010	N001	90.68	-	245.1	700			#	0.024	
Chloride	mg/L	07/19/2010	N001	90.68	-	245.1	90			#	10	
Iron	mg/L	07/19/2010	N001	90.68	-	245.1	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	90.68	-	245.1	210			#	0.026	
Manganese	mg/L	07/19/2010	N001	90.68	-	245.1	1.3			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	90.68	-	245.1	0.000064	U		#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	90.68	-	245.1	160			#	1	
Oxidation Reduction Potential	mV	07/19/2010	N001	90.68	-	245.1	140			#		
pH	s.u.	07/19/2010	N001	90.68	-	245.1	6.38			#		
Potassium	mg/L	07/19/2010	N001	90.68	-	245.1	15		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	90.68	-	245.1	0.016			#	0.000065	
Silica	mg/L	07/19/2010	N001	90.68	-	245.1	17			#	0.019	
Silicon	mg/L	07/19/2010	N001	90.68	-	245.1	8.1			#	0.0089	
Sodium	mg/L	07/19/2010	N001	90.68	-	245.1	230			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	90.68	-	245.1	4790			#		
Sulfate	mg/L	07/19/2010	N001	90.68	-	245.1	1900			#	25	
Temperature	C	07/19/2010	N001	90.68	-	245.1	17.2			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	90.68	-	245.1	4300			#	80	
Turbidity	NTU	07/19/2010	N001	90.68	-	245.1	1.18			#		
Uranium	mg/L	07/19/2010	N001	90.68	-	245.1	0.26			#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1112 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	90.5	-	245.5	157			#		
Ammonia Total as N	mg/L	07/20/2010	N001	90.5	-	245.5	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	90.5	-	245.5	0.0017			#	0.000015	
Calcium	mg/L	07/20/2010	N001	90.5	-	245.5	150			#	0.012	
Chloride	mg/L	07/20/2010	N001	90.5	-	245.5	22			#	2	
Iron	mg/L	07/20/2010	N001	90.5	-	245.5	0.0049	U	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	90.5	-	245.5	37			#	0.013	
Manganese	mg/L	07/20/2010	N001	90.5	-	245.5	0.0005	B	J	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	90.5	-	245.5	0.00023			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	90.5	-	245.5	39			#	0.2	
Oxidation Reduction Potential	mV	07/20/2010	N001	90.5	-	245.5	124.4		R	#		
pH	s.u.	07/20/2010	N001	90.5	-	245.5	7.26			#		
Potassium	mg/L	07/20/2010	N001	90.5	-	245.5	2.1		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	90.5	-	245.5	0.0047			#	0.000032	
Silica	mg/L	07/20/2010	N001	90.5	-	245.5	12			#	0.0095	
Silicon	mg/L	07/20/2010	N001	90.5	-	245.5	5.7			#	0.0044	
Sodium	mg/L	07/20/2010	N001	90.5	-	245.5	23			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	90.5	-	245.5	1117			#		
Sulfate	mg/L	07/20/2010	N001	90.5	-	245.5	240			#	5	
Temperature	C	07/20/2010	N001	90.5	-	245.5	19.29			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	90.5	-	245.5	790			#	20	
Turbidity	NTU	07/20/2010	N001	90.5	-	245.5	4.59			#		
Uranium	mg/L	07/20/2010	N001	90.5	-	245.5	0.05			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1113 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	90.5	-	245.5	137			#		
Ammonia Total as N	mg/L	07/20/2010	N001	90.5	-	245.5	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	90.5	-	245.5	0.0016			#	0.000015	
Calcium	mg/L	07/20/2010	N001	90.5	-	245.5	99			#	0.012	
Chloride	mg/L	07/20/2010	N001	90.5	-	245.5	18			#	1	
Iron	mg/L	07/20/2010	N001	90.5	-	245.5	0.0049	U	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	90.5	-	245.5	20			#	0.013	
Manganese	mg/L	07/20/2010	N001	90.5	-	245.5	0.00011	U	J	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	90.5	-	245.5	0.00016			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	90.5	-	245.5	26			#	0.2	
Oxidation Reduction Potential	mV	07/20/2010	N001	90.5	-	245.5	142.1		R	#		
pH	s.u.	07/20/2010	N001	90.5	-	245.5	7.58			#		
Potassium	mg/L	07/20/2010	N001	90.5	-	245.5	2		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	90.5	-	245.5	0.0027			#	0.000032	
Silica	mg/L	07/20/2010	N001	90.5	-	245.5	11			#	0.0095	
Silicon	mg/L	07/20/2010	N001	90.5	-	245.5	5.4			#	0.0044	
Sodium	mg/L	07/20/2010	N001	90.5	-	245.5	12			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	90.5	-	245.5	777			#		
Sulfate	mg/L	07/20/2010	N001	90.5	-	245.5	110			#	2.5	
Temperature	C	07/20/2010	N001	90.5	-	245.5	19.53			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	90.5	-	245.5	520			#	20	
Turbidity	NTU	07/20/2010	N001	90.5	-	245.5	2.13			#		
Uranium	mg/L	07/20/2010	N001	90.5	-	245.5	0.015			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1114 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	90.59	-	245.5	345			#		
Ammonia Total as N	mg/L	07/20/2010	N001	90.59	-	245.5	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	90.59	-	245.5	0.0015			#	0.000015	
Calcium	mg/L	07/20/2010	N001	90.59	-	245.5	410			#	0.012	
Chloride	mg/L	07/20/2010	N001	90.59	-	245.5	41			#	4	
Iron	mg/L	07/20/2010	N001	90.59	-	245.5	0.061	B		#	0.0049	
Magnesium	mg/L	07/20/2010	N001	90.59	-	245.5	74			#	0.013	
Manganese	mg/L	07/20/2010	N001	90.59	-	245.5	0.0025	B		#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	90.59	-	245.5	0.0071			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	90.59	-	245.5	78			#	0.5	
Oxidation Reduction Potential	mV	07/20/2010	N001	90.59	-	245.5	145.3		R	#		
pH	s.u.	07/20/2010	N001	90.59	-	245.5	6.81			#		
Potassium	mg/L	07/20/2010	N001	90.59	-	245.5	5		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	90.59	-	245.5	0.011			#	0.000032	
Silica	mg/L	07/20/2010	N001	90.59	-	245.5	15			#	0.0095	
Silicon	mg/L	07/20/2010	N001	90.59	-	245.5	6.9			#	0.0044	
Sodium	mg/L	07/20/2010	N001	90.59	-	245.5	67			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	90.59	-	245.5	2369			#		
Sulfate	mg/L	07/20/2010	N001	90.59	-	245.5	740			#	10	
Temperature	C	07/20/2010	N001	90.59	-	245.5	19.54			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	90.59	-	245.5	2000			#	40	
Turbidity	NTU	07/20/2010	N001	90.59	-	245.5	3.4			#		
Uranium	mg/L	07/20/2010	N001	90.59	-	245.5	0.082			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

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 CaCO3)	mg/L	07/20/2010	N001	90.52	-	245.5	346			#		
Ammonia Total as N	mg/L	07/20/2010	N001	90.52	-	245.5	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	90.52	-	245.5	0.0016			#	0.000015	
Calcium	mg/L	07/20/2010	N001	90.52	-	245.5	420			#	0.012	
Chloride	mg/L	07/20/2010	N001	90.52	-	245.5	43			#	4	
Iron	mg/L	07/20/2010	N001	90.52	-	245.5	0.032	B		#	0.0049	
Magnesium	mg/L	07/20/2010	N001	90.52	-	245.5	94			#	0.013	
Manganese	mg/L	07/20/2010	N001	90.52	-	245.5	0.099			#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	90.52	-	245.5	0.00016			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	90.52	-	245.5	80			#	0.5	
Oxidation Reduction Potential	mV	07/20/2010	N001	90.52	-	245.5	136.5		R	#		
pH	s.u.	07/20/2010	N001	90.52	-	245.5	6.66			#		
Potassium	mg/L	07/20/2010	N001	90.52	-	245.5	5.6		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	90.52	-	245.5	0.014			#	0.000032	
Silica	mg/L	07/20/2010	N001	90.52	-	245.5	14			#	0.0095	
Silicon	mg/L	07/20/2010	N001	90.52	-	245.5	6.5			#	0.0044	
Sodium	mg/L	07/20/2010	N001	90.52	-	245.5	94			#	0.0066	
Specific Conductance	umhos /cm	07/20/2010	N001	90.52	-	245.5	2611			#		
Sulfate	mg/L	07/20/2010	N001	90.52	-	245.5	880			#	10	
Temperature	C	07/20/2010	N001	90.52	-	245.5	20.04			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	90.52	-	245.5	2200			#	40	
Turbidity	NTU	07/20/2010	N001	90.52	-	245.5	1.35			#		
Uranium	mg/L	07/20/2010	N001	90.52	-	245.5	0.098			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1116 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	92.37	-	195.5	232			#		
Ammonia Total as N	mg/L	07/20/2010	N001	92.37	-	195.5	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	92.37	-	195.5	0.0015			#	0.000015	
Calcium	mg/L	07/20/2010	N001	92.37	-	195.5	200			#	0.012	
Chloride	mg/L	07/20/2010	N001	92.37	-	195.5	33			#	2	
Iron	mg/L	07/20/2010	N001	92.37	-	195.5	0.0049	U	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	92.37	-	195.5	46			#	0.013	
Manganese	mg/L	07/20/2010	N001	92.37	-	195.5	0.00011	U	J	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	92.37	-	195.5	0.00012			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	92.37	-	195.5	52			#	0.5	
Oxidation Reduction Potential	mV	07/20/2010	N001	92.37	-	195.5	190.9			#		
pH	s.u.	07/20/2010	N001	92.37	-	195.5	7			#		
Potassium	mg/L	07/20/2010	N001	92.37	-	195.5	2.9		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	92.37	-	195.5	0.0036			#	0.000032	
Silica	mg/L	07/20/2010	N001	92.37	-	195.5	13			#	0.0095	
Silicon	mg/L	07/20/2010	N001	92.37	-	195.5	6.3			#	0.0044	
Sodium	mg/L	07/20/2010	N001	92.37	-	195.5	31			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	92.37	-	195.5	1421			#		
Sulfate	mg/L	07/20/2010	N001	92.37	-	195.5	320			#	5	
Temperature	C	07/20/2010	N001	92.37	-	195.5	17.35			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	92.37	-	195.5	1100			#	20	
Turbidity	NTU	07/20/2010	N001	92.37	-	195.5	0.85			#		
Uranium	mg/L	07/20/2010	N001	92.37	-	195.5	0.021			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1117 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	92.3	-	195.5	323			#		
Ammonia Total as N	mg/L	07/20/2010	N001	92.3	-	195.5	0.1	U		#	0.1	
Ammonia Total as N	mg/L	07/20/2010	N002	92.3	-	195.5	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	92.3	-	195.5	0.0014			#	0.000015	
Arsenic	mg/L	07/20/2010	N002	92.3	-	195.5	0.0013			#	0.000015	
Calcium	mg/L	07/20/2010	N001	92.3	-	195.5	330			#	0.012	
Calcium	mg/L	07/20/2010	N002	92.3	-	195.5	330			#	0.012	
Chloride	mg/L	07/20/2010	N001	92.3	-	195.5	47			#	4	
Chloride	mg/L	07/20/2010	N002	92.3	-	195.5	44			#	4	
Iron	mg/L	07/20/2010	N001	92.3	-	195.5	0.067	B		#	0.0049	
Iron	mg/L	07/20/2010	N002	92.3	-	195.5	0.02	B	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	92.3	-	195.5	110			#	0.013	
Magnesium	mg/L	07/20/2010	N002	92.3	-	195.5	110			#	0.013	
Manganese	mg/L	07/20/2010	N001	92.3	-	195.5	0.02			#	0.00011	
Manganese	mg/L	07/20/2010	N002	92.3	-	195.5	0.02			#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	92.3	-	195.5	0.00013			#	0.000032	
Molybdenum	mg/L	07/20/2010	N002	92.3	-	195.5	0.00013			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	92.3	-	195.5	98			#	1	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N002	92.3	-	195.5	94			#	0.5	
Oxidation Reduction Potential	mV	07/20/2010	N001	92.3	-	195.5	215.3			#		
pH	s.u.	07/20/2010	N001	92.3	-	195.5	6.66			#		
Potassium	mg/L	07/20/2010	N001	92.3	-	195.5	5.9		J	#	0.11	
Potassium	mg/L	07/20/2010	N002	92.3	-	195.5	5.9		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	92.3	-	195.5	0.011			#	0.000032	
Selenium	mg/L	07/20/2010	N002	92.3	-	195.5	0.011			#	0.000032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1117 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Silica	mg/L	07/20/2010	N001	92.3	-	195.5	15		#	0.0095	
Silica	mg/L	07/20/2010	N002	92.3	-	195.5	15		#	0.0095	
Silicon	mg/L	07/20/2010	N001	92.3	-	195.5	6.9		#	0.0044	
Silicon	mg/L	07/20/2010	N002	92.3	-	195.5	7		#	0.0044	
Sodium	mg/L	07/20/2010	N001	92.3	-	195.5	86		#	0.0066	
Sodium	mg/L	07/20/2010	N002	92.3	-	195.5	85		#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	92.3	-	195.5	2511		#		
Sulfate	mg/L	07/20/2010	N001	92.3	-	195.5	730		#	10	
Sulfate	mg/L	07/20/2010	N002	92.3	-	195.5	720		#	10	
Temperature	C	07/20/2010	N001	92.3	-	195.5	16.99		#		
Total Dissolved Solids	mg/L	07/20/2010	N001	92.3	-	195.5	2100		#	40	
Total Dissolved Solids	mg/L	07/20/2010	N002	92.3	-	195.5	2100		#	40	
Turbidity	NTU	07/20/2010	N001	92.3	-	195.5	0.71		#		
Uranium	mg/L	07/20/2010	N001	92.3	-	195.5	0.031		#	0.0000029	
Uranium	mg/L	07/20/2010	N002	92.3	-	195.5	0.03		#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1118 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	89.93	-	195.5	492			#		
Ammonia Total as N	mg/L	07/20/2010	N001	89.93	-	195.5	14			#	0.5	
Ammonia Total as N	mg/L	07/20/2010	N002	89.93	-	195.5	13			#	0.5	
Arsenic	mg/L	07/20/2010	N001	89.93	-	195.5	0.0018			#	0.000015	
Arsenic	mg/L	07/20/2010	N002	89.93	-	195.5	0.0018			#	0.000015	
Calcium	mg/L	07/20/2010	N001	89.93	-	195.5	540			#	0.024	
Calcium	mg/L	07/20/2010	N002	89.93	-	195.5	520			#	0.024	
Chloride	mg/L	07/20/2010	N001	89.93	-	195.5	67			#	10	
Chloride	mg/L	07/20/2010	N002	89.93	-	195.5	59			#	10	
Iron	mg/L	07/20/2010	N001	89.93	-	195.5	0.0099	U	J	#	0.0099	
Iron	mg/L	07/20/2010	N002	89.93	-	195.5	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	89.93	-	195.5	260			#	0.026	
Magnesium	mg/L	07/20/2010	N002	89.93	-	195.5	250			#	0.026	
Manganese	mg/L	07/20/2010	N001	89.93	-	195.5	0.25			#	0.00023	
Manganese	mg/L	07/20/2010	N002	89.93	-	195.5	0.25			#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	89.93	-	195.5	0.00039			#	0.000032	
Molybdenum	mg/L	07/20/2010	N002	89.93	-	195.5	0.00044			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	89.93	-	195.5	150			#	1	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N002	89.93	-	195.5	140			#	1	
Oxidation Reduction Potential	mV	07/20/2010	N001	89.93	-	195.5	251			#		
pH	s.u.	07/20/2010	N001	89.93	-	195.5	6.53			#		
Potassium	mg/L	07/20/2010	N001	89.93	-	195.5	12		J	#	0.22	
Potassium	mg/L	07/20/2010	N002	89.93	-	195.5	12		J	#	0.22	
Selenium	mg/L	07/20/2010	N001	89.93	-	195.5	0.019			#	0.000032	
Selenium	mg/L	07/20/2010	N002	89.93	-	195.5	0.02			#	0.000032	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1118 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Silica	mg/L	07/20/2010	N001	89.93	-	195.5	16		#	0.019	
Silica	mg/L	07/20/2010	N002	89.93	-	195.5	16		#	0.019	
Silicon	mg/L	07/20/2010	N001	89.93	-	195.5	7.4		#	0.0089	
Silicon	mg/L	07/20/2010	N002	89.93	-	195.5	7.5		#	0.0089	
Sodium	mg/L	07/20/2010	N001	89.93	-	195.5	170		#	0.013	
Sodium	mg/L	07/20/2010	N002	89.93	-	195.5	160		#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	89.93	-	195.5	4251		#		
Sulfate	mg/L	07/20/2010	N001	89.93	-	195.5	1600		#	25	
Sulfate	mg/L	07/20/2010	N002	89.93	-	195.5	1600		#	25	
Temperature	C	07/20/2010	N001	89.93	-	195.5	17.18		#		
Total Dissolved Solids	mg/L	07/20/2010	N001	89.93	-	195.5	3900		#	80	
Total Dissolved Solids	mg/L	07/20/2010	N002	89.93	-	195.5	3900		#	80	
Turbidity	NTU	07/20/2010	N001	89.93	-	195.5	0.84		#		
Uranium	mg/L	07/20/2010	N001	89.93	-	195.5	0.082		#	0.0000029	
Uranium	mg/L	07/20/2010	N002	89.93	-	195.5	0.08		#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1119 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	95.33	-	245.33	516		#		
Ammonia Total as N	mg/L	07/20/2010	N001	95.33	-	245.33	19		#	0.5	
Arsenic	mg/L	07/20/2010	N001	95.33	-	245.33	0.0016		#	0.000074	
Calcium	mg/L	07/20/2010	N001	95.33	-	245.33	610		#	0.024	
Chloride	mg/L	07/20/2010	N001	95.33	-	245.33	120		#	10	
Iron	mg/L	07/20/2010	N001	95.33	-	245.33	0.22		#	0.0099	
Magnesium	mg/L	07/20/2010	N001	95.33	-	245.33	220		#	0.026	
Manganese	mg/L	07/20/2010	N001	95.33	-	245.33	3.2		#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	95.33	-	245.33	0.0064		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	95.33	-	245.33	160		#	1	
Oxidation Reduction Potential	mV	07/20/2010	N001	95.33	-	245.33	118.5	R	#		
pH	s.u.	07/20/2010	N001	95.33	-	245.33	6.36		#		
Potassium	mg/L	07/20/2010	N001	95.33	-	245.33	14	J	#	0.22	
Selenium	mg/L	07/20/2010	N001	95.33	-	245.33	0.03		#	0.00016	
Silica	mg/L	07/20/2010	N001	95.33	-	245.33	17		#	0.019	
Silicon	mg/L	07/20/2010	N001	95.33	-	245.33	8.1		#	0.0089	
Sodium	mg/L	07/20/2010	N001	95.33	-	245.33	310		#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	95.33	-	245.33	4732		#		
Sulfate	mg/L	07/20/2010	N001	95.33	-	245.33	1900		#	25	
Temperature	C	07/20/2010	N001	95.33	-	245.33	17.25		#		
Total Dissolved Solids	mg/L	07/20/2010	N001	95.33	-	245.33	4400		#	80	
Turbidity	NTU	07/20/2010	N001	95.33	-	245.33	0.7		#		
Uranium	mg/L	07/20/2010	N001	95.33	-	245.33	0.37		#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1120 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	95.5	-	245.5	232			#		
Ammonia Total as N	mg/L	07/20/2010	N001	95.5	-	245.5	20			#	0.5	
Ammonia Total as N	mg/L	07/20/2010	N002	95.5	-	245.5	20			#	0.5	
Arsenic	mg/L	07/20/2010	N001	95.5	-	245.5	0.0016			#	0.00003	
Arsenic	mg/L	07/20/2010	N002	95.5	-	245.5	0.0016			#	0.00003	
Calcium	mg/L	07/20/2010	N001	95.5	-	245.5	390			#	0.024	
Calcium	mg/L	07/20/2010	N002	95.5	-	245.5	390			#	0.024	
Chloride	mg/L	07/20/2010	N001	95.5	-	245.5	66			#	4	
Chloride	mg/L	07/20/2010	N002	95.5	-	245.5	61			#	4	
Iron	mg/L	07/20/2010	N001	95.5	-	245.5	0.0099	U	J	#	0.0099	
Iron	mg/L	07/20/2010	N002	95.5	-	245.5	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	95.5	-	245.5	140			#	0.026	
Magnesium	mg/L	07/20/2010	N002	95.5	-	245.5	150			#	0.026	
Manganese	mg/L	07/20/2010	N001	95.5	-	245.5	31			#	0.0011	
Manganese	mg/L	07/20/2010	N002	95.5	-	245.5	32			#	0.0011	
Molybdenum	mg/L	07/20/2010	N001	95.5	-	245.5	0.026			#	0.000064	
Molybdenum	mg/L	07/20/2010	N002	95.5	-	245.5	0.026			#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	95.5	-	245.5	39			#	0.2	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N002	95.5	-	245.5	38			#	0.2	
Oxidation Reduction Potential	mV	07/20/2010	N001	95.5	-	245.5	93.8		R	#		
pH	s.u.	07/20/2010	N001	95.5	-	245.5	6.41			#		
Potassium	mg/L	07/20/2010	N001	95.5	-	245.5	9.4		J	#	0.22	
Potassium	mg/L	07/20/2010	N002	95.5	-	245.5	9.4		J	#	0.22	
Selenium	mg/L	07/20/2010	N001	95.5	-	245.5	0.016			#	0.000065	
Selenium	mg/L	07/20/2010	N002	95.5	-	245.5	0.017			#	0.000065	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1120 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Data	Lab QA	Detection Limit	Uncertainty
Silica	mg/L	07/20/2010	N001	95.5	-	245.5	19		#	0.019	
Silica	mg/L	07/20/2010	N002	95.5	-	245.5	19		#	0.019	
Silicon	mg/L	07/20/2010	N001	95.5	-	245.5	9		#	0.0089	
Silicon	mg/L	07/20/2010	N002	95.5	-	245.5	9		#	0.0089	
Sodium	mg/L	07/20/2010	N001	95.5	-	245.5	200		#	0.013	
Sodium	mg/L	07/20/2010	N002	95.5	-	245.5	200		#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	95.5	-	245.5	3290		#		
Sulfate	mg/L	07/20/2010	N001	95.5	-	245.5	1700		#	10	
Sulfate	mg/L	07/20/2010	N002	95.5	-	245.5	1700		#	10	
Temperature	C	07/20/2010	N001	95.5	-	245.5	17.89		#		
Total Dissolved Solids	mg/L	07/20/2010	N001	95.5	-	245.5	3000		#	80	
Total Dissolved Solids	mg/L	07/20/2010	N002	95.5	-	245.5	3000		#	40	
Turbidity	NTU	07/20/2010	N001	95.5	-	245.5	0.76		#		
Uranium	mg/L	07/20/2010	N001	95.5	-	245.5	0.15		#	0.0000058	
Uranium	mg/L	07/20/2010	N002	95.5	-	245.5	0.15		#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1121 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Lab QA	Detection Limit	Uncertainty
									Data			
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	97.5	-	247.5	203			#		
Ammonia Total as N	mg/L	07/21/2010	N001	97.5	-	247.5	26			#	1	
Arsenic	mg/L	07/21/2010	N001	97.5	-	247.5	0.0011			#	0.000015	
Calcium	mg/L	07/21/2010	N001	97.5	-	247.5	420			#	0.024	
Chloride	mg/L	07/21/2010	N001	97.5	-	247.5	28			#	4	
Iron	mg/L	07/21/2010	N001	97.5	-	247.5	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/21/2010	N001	97.5	-	247.5	100			#	0.026	
Manganese	mg/L	07/21/2010	N001	97.5	-	247.5	37			#	0.0011	
Molybdenum	mg/L	07/21/2010	N001	97.5	-	247.5	0.022			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	97.5	-	247.5	13			#	0.1	
Oxidation Reduction Potential	mV	07/21/2010	N001	97.5	-	247.5	87.1		R	#		
pH	s.u.	07/21/2010	N001	97.5	-	247.5	6.63			#		
Potassium	mg/L	07/21/2010	N001	97.5	-	247.5	8.8		J	#	0.22	
Selenium	mg/L	07/21/2010	N001	97.5	-	247.5	0.0041			#	0.000032	
Silica	mg/L	07/21/2010	N001	97.5	-	247.5	18			#	0.019	
Silicon	mg/L	07/21/2010	N001	97.5	-	247.5	8.6			#	0.0089	
Sodium	mg/L	07/21/2010	N001	97.5	-	247.5	130			#	0.013	
Specific Conductance	umhos/cm	07/21/2010	N001	97.5	-	247.5	2876			#		
Sulfate	mg/L	07/21/2010	N001	97.5	-	247.5	1600			#	10	
Temperature	C	07/21/2010	N001	97.5	-	247.5	20.88			#		
Total Dissolved Solids	mg/L	07/21/2010	N001	97.5	-	247.5	2700			#	80	
Turbidity	NTU	07/21/2010	N001	97.5	-	247.5	0.8			#		
Uranium	mg/L	07/21/2010	N001	97.5	-	247.5	0.083			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1122 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	96.94	-	251.1	291			#		
Ammonia Total as N	mg/L	07/19/2010	N001	96.94	-	251.1	15			#	0.5	
Arsenic	mg/L	07/19/2010	N001	96.94	-	251.1	0.0018			#	0.00003	
Calcium	mg/L	07/19/2010	N001	96.94	-	251.1	390			#	0.024	
Chloride	mg/L	07/19/2010	N001	96.94	-	251.1	150			#	10	
Iron	mg/L	07/19/2010	N001	96.94	-	251.1	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	96.94	-	251.1	170			#	0.026	
Manganese	mg/L	07/19/2010	N001	96.94	-	251.1	6.8			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	96.94	-	251.1	0.0011			#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	96.94	-	251.1	44			#	0.5	
Oxidation Reduction Potential	mV	07/19/2010	N001	96.94	-	251.1	69.6		R	#		
pH	s.u.	07/19/2010	N001	96.94	-	251.1	6.41			#		
Potassium	mg/L	07/19/2010	N001	96.94	-	251.1	13		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	96.94	-	251.1	0.025			#	0.000065	
Silica	mg/L	07/19/2010	N001	96.94	-	251.1	18			#	0.019	
Silicon	mg/L	07/19/2010	N001	96.94	-	251.1	8.4			#	0.0089	
Sodium	mg/L	07/19/2010	N001	96.94	-	251.1	310			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	96.94	-	251.1	3719			#		
Sulfate	mg/L	07/19/2010	N001	96.94	-	251.1	1800			#	25	
Temperature	C	07/19/2010	N001	96.94	-	251.1	18.34			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	96.94	-	251.1	3500			#	80	
Turbidity	NTU	07/19/2010	N001	96.94	-	251.1	0.46			#		
Uranium	mg/L	07/19/2010	N001	96.94	-	251.1	0.22			#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1123 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers Data	Qualifiers QA	Lab	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	91	-	245	408			#		
Ammonia Total as N	mg/L	07/19/2010	N001	91	-	245	21			#	0.5	
Arsenic	mg/L	07/19/2010	N001	91	-	245	0.0028			#	0.000074	
Calcium	mg/L	07/19/2010	N001	91	-	245	470			#	0.024	
Chloride	mg/L	07/19/2010	N001	91	-	245	160			#	10	
Iron	mg/L	07/19/2010	N001	91	-	245	1.2			#	0.0099	
Magnesium	mg/L	07/19/2010	N001	91	-	245	260			#	0.026	
Manganese	mg/L	07/19/2010	N001	91	-	245	0.098			#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	91	-	245	0.00016	U		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	91	-	245	26			#	0.2	
Oxidation Reduction Potential	mV	07/19/2010	N001	91	-	245	36.7		R	#		
pH	s.u.	07/19/2010	N001	91	-	245	6.47			#		
Potassium	mg/L	07/19/2010	N001	91	-	245	19		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	91	-	245	0.017			#	0.00016	
Silica	mg/L	07/19/2010	N001	91	-	245	18			#	0.019	
Silicon	mg/L	07/19/2010	N001	91	-	245	8.4			#	0.0089	
Sodium	mg/L	07/19/2010	N001	91	-	245	380			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	91	-	245	4537			#		
Sulfate	mg/L	07/19/2010	N001	91	-	245	2500			#	25	
Temperature	C	07/19/2010	N001	91	-	245	26.63			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	91	-	245	4500			#	80	
Turbidity	NTU	07/19/2010	N001	91	-	245	9.6			#		
Uranium	mg/L	07/19/2010	N001	91	-	245	0.32			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1124 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/19/2010	N001	87.9	-	245.5	434			#		
Ammonia Total as N	mg/L	07/19/2010	N001	87.9	-	245.5	0.1	U		#	0.1	
Arsenic	mg/L	07/19/2010	N001	87.9	-	245.5	0.0016			#	0.000074	
Calcium	mg/L	07/19/2010	N001	87.9	-	245.5	740			#	0.024	
Chloride	mg/L	07/19/2010	N001	87.9	-	245.5	110			#	10	
Iron	mg/L	07/19/2010	N001	87.9	-	245.5	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/19/2010	N001	87.9	-	245.5	110			#	0.026	
Manganese	mg/L	07/19/2010	N001	87.9	-	245.5	0.00031	B	UJ	#	0.00023	
Molybdenum	mg/L	07/19/2010	N001	87.9	-	245.5	0.00017	B		#	0.00016	
Nitrate + Nitrite as Nitrogen	mg/L	07/19/2010	N001	87.9	-	245.5	130			#	1	
Oxidation Reduction Potential	mV	07/19/2010	N001	87.9	-	245.5	66.9		R	#		
pH	s.u.	07/19/2010	N001	87.9	-	245.5	6.63			#		
Potassium	mg/L	07/19/2010	N001	87.9	-	245.5	6.2		J	#	0.22	
Selenium	mg/L	07/19/2010	N001	87.9	-	245.5	0.03			#	0.00016	
Silica	mg/L	07/19/2010	N001	87.9	-	245.5	15			#	0.019	
Silicon	mg/L	07/19/2010	N001	87.9	-	245.5	7.2			#	0.0089	
Sodium	mg/L	07/19/2010	N001	87.9	-	245.5	260			#	0.013	
Specific Conductance	umhos/cm	07/19/2010	N001	87.9	-	245.5	4046			#		
Sulfate	mg/L	07/19/2010	N001	87.9	-	245.5	1700			#	25	
Temperature	C	07/19/2010	N001	87.9	-	245.5	17.35			#		
Total Dissolved Solids	mg/L	07/19/2010	N001	87.9	-	245.5	4000			#	80	
Turbidity	NTU	07/19/2010	N001	87.9	-	245.5	0.41			#		
Uranium	mg/L	07/19/2010	N001	87.9	-	245.5	0.3			#	0.000015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1125 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	95.5	-	245.5	128			#		
Ammonia Total as N	mg/L	07/20/2010	N001	95.5	-	245.5	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	95.5	-	245.5	0.0027			#	0.000015	
Calcium	mg/L	07/20/2010	N001	95.5	-	245.5	45			#	0.012	
Chloride	mg/L	07/20/2010	N001	95.5	-	245.5	14			#	0.4	
Iron	mg/L	07/20/2010	N001	95.5	-	245.5	0.17			#	0.0049	
Magnesium	mg/L	07/20/2010	N001	95.5	-	245.5	9.3			#	0.013	
Manganese	mg/L	07/20/2010	N001	95.5	-	245.5	0.00045	B	J	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	95.5	-	245.5	0.00042			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	95.5	-	245.5	7.1			#	0.05	
Oxidation Reduction Potential	mV	07/20/2010	N001	95.5	-	245.5	53.7		R	#		
pH	s.u.	07/20/2010	N001	95.5	-	245.5	7.52			#		
Potassium	mg/L	07/20/2010	N001	95.5	-	245.5	1.1		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	95.5	-	245.5	0.002			#	0.000032	
Silica	mg/L	07/20/2010	N001	95.5	-	245.5	12			#	0.0095	
Silicon	mg/L	07/20/2010	N001	95.5	-	245.5	5.4			#	0.0044	
Sodium	mg/L	07/20/2010	N001	95.5	-	245.5	13			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	95.5	-	245.5	383			#		
Sulfate	mg/L	07/20/2010	N001	95.5	-	245.5	42			#	1	
Temperature	C	07/20/2010	N001	95.5	-	245.5	29.11			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	95.5	-	245.5	260			#	20	
Turbidity	NTU	07/20/2010	N001	95.5	-	245.5	2.53			#		
Uranium	mg/L	07/20/2010	N001	95.5	-	245.5	0.0047			#	0.0000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1129 WELL

Parameter	Units	Sample	ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	68.2	-	98.2		259			#		
Ammonia Total as N	mg/L	07/20/2010	N001	68.2	-	98.2		0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	68.2	-	98.2		0.0017			#	0.00015	
Calcium	mg/L	07/20/2010	N001	68.2	-	98.2		470			#	0.012	
Chloride	mg/L	07/20/2010	N001	68.2	-	98.2		56			#	4	
Iron	mg/L	07/20/2010	N001	68.2	-	98.2		0.0049	U	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	68.2	-	98.2		88			#	0.013	
Manganese	mg/L	07/20/2010	N001	68.2	-	98.2		0.00048	B	J	#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	68.2	-	98.2		0.75			#	0.00032	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	68.2	-	98.2		110			#	1	
Oxidation Reduction Potential	mV	07/20/2010	N001	68.2	-	98.2		77.7		R	#		
pH	s.u.	07/20/2010	N001	68.2	-	98.2		6.82			#		
Potassium	mg/L	07/20/2010	N001	68.2	-	98.2		4.9		J	#	0.11	
Selenium	mg/L	07/20/2010	N001	68.2	-	98.2		0.065			#	0.00032	
Silica	mg/L	07/20/2010	N001	68.2	-	98.2		15			#	0.0095	
Silicon	mg/L	07/20/2010	N001	68.2	-	98.2		6.9			#	0.0044	
Sodium	mg/L	07/20/2010	N001	68.2	-	98.2		92			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	68.2	-	98.2		2651			#		
Sulfate	mg/L	07/20/2010	N001	68.2	-	98.2		920			#	10	
Temperature	C	07/20/2010	N001	68.2	-	98.2		25.56			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	68.2	-	98.2		2600			#	40	
Turbidity	NTU	07/20/2010	N001	68.2	-	98.2		1.02			#		
Uranium	mg/L	07/20/2010	N001	68.2	-	98.2		0.72			#	0.000029	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1130 WELL

Parameter	Units	Sample ID	Date	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	71.7	-	121.7	249			#		
Ammonia Total as N	mg/L	07/20/2010	N001	71.7	-	121.7	3.2			#	0.1	
Arsenic	mg/L	07/20/2010	N001	71.7	-	121.7	0.0016			#	0.00003	
Calcium	mg/L	07/20/2010	N001	71.7	-	121.7	370			#	0.012	
Chloride	mg/L	07/20/2010	N001	71.7	-	121.7	69			#	4	
Iron	mg/L	07/20/2010	N001	71.7	-	121.7	0.01	B	J	#	0.0049	
Magnesium	mg/L	07/20/2010	N001	71.7	-	121.7	95			#	0.013	
Manganese	mg/L	07/20/2010	N001	71.7	-	121.7	0.083			#	0.00011	
Molybdenum	mg/L	07/20/2010	N001	71.7	-	121.7	0.049			#	0.000064	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	71.7	-	121.7	100			#	1	
Oxidation Reduction Potential	mV	07/20/2010	N001	71.7	-	121.7	95.9		R	#		
pH	s.u.	07/20/2010	N001	71.7	-	121.7	6.5			#		
Potassium	mg/L	07/20/2010	N001	71.7	-	121.7	6.2	E	J	#	0.11	
Selenium	mg/L	07/20/2010	N001	71.7	-	121.7	0.017			#	0.000065	
Silica	mg/L	07/20/2010	N001	71.7	-	121.7	14			#	0.0095	
Silicon	mg/L	07/20/2010	N001	71.7	-	121.7	6.5			#	0.0044	
Sodium	mg/L	07/20/2010	N001	71.7	-	121.7	120			#	0.0066	
Specific Conductance	umhos/cm	07/20/2010	N001	71.7	-	121.7	2637			#		
Sulfate	mg/L	07/20/2010	N001	71.7	-	121.7	870			#	10	
Temperature	C	07/20/2010	N001	71.7	-	121.7	25.5			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	71.7	-	121.7	2300			#	40	
Turbidity	NTU	07/20/2010	N001	71.7	-	121.7	1.23			#		
Uranium	mg/L	07/20/2010	N001	71.7	-	121.7	0.14			#	0.0000058	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1132 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/20/2010	N001	49.7	-	99.7	538			#		
Ammonia Total as N	mg/L	07/20/2010	N001	49.7	-	99.7	0.1	U		#	0.1	
Arsenic	mg/L	07/20/2010	N001	49.7	-	99.7	0.002			#	0.000074	
Calcium	mg/L	07/20/2010	N001	49.7	-	99.7	920			#	0.024	
Chloride	mg/L	07/20/2010	N001	49.7	-	99.7	140			#	10	
Iron	mg/L	07/20/2010	N001	49.7	-	99.7	0.0099	U	J	#	0.0099	
Magnesium	mg/L	07/20/2010	N001	49.7	-	99.7	310			#	0.026	
Manganese	mg/L	07/20/2010	N001	49.7	-	99.7	0.0021	B		#	0.00023	
Molybdenum	mg/L	07/20/2010	N001	49.7	-	99.7	1.8			#	0.0016	
Nitrate + Nitrite as Nitrogen	mg/L	07/20/2010	N001	49.7	-	99.7	270			#	2	
Oxidation Reduction Potential	mV	07/20/2010	N001	49.7	-	99.7	204.7			#		
pH	s.u.	07/20/2010	N001	49.7	-	99.7	6.67			#		
Potassium	mg/L	07/20/2010	N001	49.7	-	99.7	9.8		J	#	0.22	
Selenium	mg/L	07/20/2010	N001	49.7	-	99.7	0.14			#	0.0016	
Silica	mg/L	07/20/2010	N001	49.7	-	99.7	14			#	0.019	
Silicon	mg/L	07/20/2010	N001	49.7	-	99.7	6.5			#	0.0089	
Sodium	mg/L	07/20/2010	N001	49.7	-	99.7	410			#	0.013	
Specific Conductance	umhos/cm	07/20/2010	N001	49.7	-	99.7	6524			#		
Sulfate	mg/L	07/20/2010	N001	49.7	-	99.7	2600			#	25	
Temperature	C	07/20/2010	N001	49.7	-	99.7	19.49			#		
Total Dissolved Solids	mg/L	07/20/2010	N001	49.7	-	99.7	6600			#	80	
Turbidity	NTU	07/20/2010	N001	49.7	-	99.7	0.65			#		
Uranium	mg/L	07/20/2010	N001	49.7	-	99.7	2.3			#	0.00015	

Groundwater Quality Data by Location (USEE100) FOR SITE TUB01, Tuba City Disposal Site

REPORT DATE: 12/22/2010

Location: 1133 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Data	Lab QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/21/2010	N001	59.7	-	99.7	153			#		
Ammonia Total as N	mg/L	07/21/2010	N001	59.7	-	99.7	0.1	U		#	0.1	
Arsenic	mg/L	07/21/2010	N001	59.7	-	99.7	0.0018			#	0.000015	
Calcium	mg/L	07/21/2010	N001	59.7	-	99.7	130			#	0.012	
Chloride	mg/L	07/21/2010	N001	59.7	-	99.7	120			#	2	
Iron	mg/L	07/21/2010	N001	59.7	-	99.7	0.0081	B	J	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	59.7	-	99.7	23			#	0.013	
Manganese	mg/L	07/21/2010	N001	59.7	-	99.7	0.0051			#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	59.7	-	99.7	0.013			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	59.7	-	99.7	33			#	0.5	
Oxidation Reduction Potential	mV	07/21/2010	N001	59.7	-	99.7	150			#		
pH	s.u.	07/21/2010	N001	59.7	-	99.7	6.92			#		
Potassium	mg/L	07/21/2010	N001	59.7	-	99.7	1.8		J	#	0.11	
Selenium	mg/L	07/21/2010	N001	59.7	-	99.7	0.014			#	0.000032	
Silica	mg/L	07/21/2010	N001	59.7	-	99.7	13			#	0.0095	
Silicon	mg/L	07/21/2010	N001	59.7	-	99.7	6.2			#	0.0044	
Sodium	mg/L	07/21/2010	N001	59.7	-	99.7	22			#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	59.7	-	99.7	960			#		
Sulfate	mg/L	07/21/2010	N001	59.7	-	99.7	180			#	2.5	
Temperature	C	07/21/2010	N001	59.7	-	99.7	24.3			#		
Total Dissolved Solids	mg/L	07/21/2010	N001	59.7	-	99.7	720			#	20	
Turbidity	NTU	07/21/2010	N001	59.7	-	99.7	1			#		
Uranium	mg/L	07/21/2010	N001	59.7	-	99.7	0.066			#	0.00029	

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: 12/22/2010
Location: 1569 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Qualifiers Lab	Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	0001	0			#		
Arsenic	mg/L	07/22/2010	0001	2.1			#	0.0015	
Calcium	mg/L	07/22/2010	0001	240			#	0.6	
Chloride	mg/L	07/22/2010	0001	170000			#	2000	
Iron	mg/L	07/22/2010	0001	4.1	B		#	0.25	
Magnesium	mg/L	07/22/2010	0001	19000			#	0.65	
Manganese	mg/L	07/22/2010	0001	300			#	0.0057	
Molybdenum	mg/L	07/22/2010	0001	2.2			#	0.0032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	0001	13000			#	100	
Potassium	mg/L	07/22/2010	0001	1800		J	#	5.4	
Selenium	mg/L	07/22/2010	0001	2.3			#	0.0032	
Sodium	mg/L	07/22/2010	0001	86000			#	3.3	
Sulfate	mg/L	07/22/2010	0001	31000			#	1000	
Total Dissolved Solids	mg/L	07/22/2010	0001	410000			#	20000	
Uranium	mg/L	07/22/2010	0001	5.6			#	0.00029	
Oxidation Reduction Potential	mV	07/22/2010	N001	457.1		R	#		
pH	s.u.	07/22/2010	N001	1.87			#		
Specific Conductance	umhos/cm	07/22/2010	N001	164671			#		
Temperature	C	07/22/2010	N001	33.95			#		
Turbidity	NTU	07/22/2010	N001	25.9			#		

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010
Location: 1570 SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Arsenic	mg/L	07/22/2010	0001	2.3			#	0.0015	
Calcium	mg/L	07/22/2010	0001	210			#	0.6	
Chloride	mg/L	07/22/2010	0001	170000			#	2000	
Iron	mg/L	07/22/2010	0001	4	B		#	0.25	
Magnesium	mg/L	07/22/2010	0001	20000			#	0.65	
Manganese	mg/L	07/22/2010	0001	310			#	0.0057	
Molybdenum	mg/L	07/22/2010	0001	2.3			#	0.0032	
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	0001	14000			#	100	
Potassium	mg/L	07/22/2010	0001	1900		J	#	5.4	
Selenium	mg/L	07/22/2010	0001	2.4			#	0.0032	
Sodium	mg/L	07/22/2010	0001	84000			#	3.3	
Sulfate	mg/L	07/22/2010	0001	31000			#	1000	
Total Dissolved Solids	mg/L	07/22/2010	0001	410000			#	20000	
Uranium	mg/L	07/22/2010	0001	5.1			#	0.00029	
Arsenic	mg/L	07/22/2010	0002	2.3			#	0.0015	
Calcium	mg/L	07/22/2010	0002	220			#	0.6	
Chloride	mg/L	07/22/2010	0002	170000			#	2000	
Iron	mg/L	07/22/2010	0002	4.4	B		#	0.25	
Magnesium	mg/L	07/22/2010	0002	21000			#	0.65	
Manganese	mg/L	07/22/2010	0002	320			#	0.0057	
Molybdenum	mg/L	07/22/2010	0002	2.3			#	0.0032	

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010
Location: 1570 SURFACE LOCATION

Parameter	Units	Sample Date	Sample ID	Result	Qualifiers Lab	Qualifiers Data	Qualifiers QA	Detection Limit	Uncertainty
Nitrate + Nitrite as Nitrogen	mg/L	07/22/2010	0002	13000			#	100	
Potassium	mg/L	07/22/2010	0002	2000		J	#	5.4	
Selenium	mg/L	07/22/2010	0002	2.6			#	0.0032	
Sodium	mg/L	07/22/2010	0002	86000			#	3.3	
Sulfate	mg/L	07/22/2010	0002	32000			#	1000	
Total Dissolved Solids	mg/L	07/22/2010	0002	410000			#	20000	
Uranium	mg/L	07/22/2010	0002	5.1			#	0.00029	
Alkalinity, Total (As CaCO3)	mg/L	07/22/2010	N001	0			#		
Oxidation Reduction Potential	mV	07/22/2010	N001	328.8		R	#		
pH	s.u.	07/22/2010	N001	1.75			#		
Specific Conductance	umhos/cm	07/22/2010	N001	172997			#		
Temperature	C	07/22/2010	N001	31.05			#		
Turbidity	NTU	07/22/2010	N001	5031.05			#		

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010
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 CaCO3)	mg/L	07/21/2010	0001	167			#		
Arsenic	mg/L	07/21/2010	0001	0.002			#	0.000015	
Calcium	mg/L	07/21/2010	0001	34			#	0.012	
Chloride	mg/L	07/21/2010	0001	40			#	1	
Iron	mg/L	07/21/2010	0001	0.017	B	J	#	0.0049	
Magnesium	mg/L	07/21/2010	0001	10			#	0.013	
Manganese	mg/L	07/21/2010	0001	0.0061			#	0.00011	
Molybdenum	mg/L	07/21/2010	0001	0.0033			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	0001	2.3			#	0.02	
Potassium	mg/L	07/21/2010	0001	2.1		J	#	0.11	
Selenium	mg/L	07/21/2010	0001	0.0045			#	0.000032	
Sodium	mg/L	07/21/2010	0001	58			#	0.0066	
Sulfate	mg/L	07/21/2010	0001	85			#	2.5	
Total Dissolved Solids	mg/L	07/21/2010	0001	370			#	20	
Uranium	mg/L	07/21/2010	0001	0.0033			#	0.0000029	
Oxidation Reduction Potential	mV	07/21/2010	N001	-191.7		R	#		
pH	s.u.	07/21/2010	N001	8.36			#		
Specific Conductance	umhos/cm	07/21/2010	N001	619			#		
Temperature	C	07/21/2010	N001	23.45			#		
Turbidity	NTU	07/21/2010	N001	16.1			#		

Surface Water Quality Data by Location (USEE102) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010
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 CaCO3)	mg/L	07/21/2010	N001	196			#		
Arsenic	mg/L	07/21/2010	N001	0.0051			#	0.000015	
Calcium	mg/L	07/21/2010	N001	14			#	0.012	
Chloride	mg/L	07/21/2010	N001	29			#	0.4	
Iron	mg/L	07/21/2010	N001	0.018	B	J	#	0.0049	
Magnesium	mg/L	07/21/2010	N001	3.6			#	0.013	
Manganese	mg/L	07/21/2010	N001	0.001	B	U	#	0.00011	
Molybdenum	mg/L	07/21/2010	N001	0.0014			#	0.000032	
Nitrate + Nitrite as Nitrogen	mg/L	07/21/2010	N001	0.51			#	0.01	
Oxidation Reduction Potential	mV	07/21/2010	N001	-172.6		R	#		
pH	s.u.	07/21/2010	N001	8.11			#		
Potassium	mg/L	07/21/2010	N001	0.73	B	J	#	0.11	
Selenium	mg/L	07/21/2010	N001	0.0029			#	0.000032	
Sodium	mg/L	07/21/2010	N001	62			#	0.0066	
Specific Conductance	umhos/cm	07/21/2010	N001	465			#		
Sulfate	mg/L	07/21/2010	N001	30			#	1	
Temperature	C	07/21/2010	N001	25.63			#		
Total Dissolved Solids	mg/L	07/21/2010	N001	260			#	20	
Turbidity	NTU	07/21/2010	N001	3.41			#		
Uranium	mg/L	07/21/2010	N001	0.0024			#	0.0000029	

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.

Static Water Level Data

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STATIC WATER LEVELS (USEE700) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010

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
000I		5064.56	07/21/2010	09:53:00	55.45	5009.11	
000J		5063.46	07/21/2010	09:52:00	47.22	5016.24	
000M		5063.7	07/21/2010	09:55:00	55.53	5008.17	
0251		5061.25	07/21/2010	18:11:05	87.87	4973.38	
0252		5061.3	07/21/2010	18:38:41	74.01	4987.29	
0258		5055.56	07/21/2010	12:45:48	104.45	4951.11	
0261		5069.69	07/21/2010	13:25:17	130.45	4939.24	
0262		5061.99	07/21/2010	18:05:35	60.07	5001.92	
0263		5063.1	07/20/2010	12:45:46	65.1	4998	
0264		5062.19	07/20/2010	12:30:24	100.85	4961.34	
0265		5053.88	07/22/2010	08:30:53	80.12	4973.76	
0266		5053.32	07/22/2010	08:50:39	105.37	4947.95	
0267		5053.4	07/22/2010	09:55:53	62.34	4991.06	
0268		5067.24	07/20/2010	16:29:22	109.79	4957.45	
0271		5046.72	07/22/2010	09:40:13	54.91	4991.81	
0272		5064.24	07/21/2010	11:24:42	76.69	4987.55	
0273		5064.74	07/20/2010	17:38:46	94.02	4970.72	
0274		5064.42	07/20/2010	16:53:00	94.18	4970.24	
0275		5062.64	07/20/2010	15:51:13	99.29	4963.35	
0276		5067.55	07/20/2010	15:15:47	104.5	4963.05	
0277		4982.35	07/21/2010	11:15:15	40.5	4941.85	
0278		4956.09	07/20/2010	16:15:00	24.98	4931.11	
0279		4951.04	07/20/2010	16:55:34	25.85	4925.19	
0280		4951.52	07/20/2010	17:40:59	27.62	4923.9	
0281		5051	07/22/2010	09:30:43	70.46	4980.54	
0282		5060.04	07/22/2010	09:10:34	84.42	4975.62	
0284		5098.72	07/22/2010	09:59:00	29.36	5069.36	
0285		5096.47	07/20/2010	13:43:00	10.77	5085.7	

STATIC WATER LEVELS (USEE700) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010

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
0286		5063.99	07/20/2010	15:45:22	80.49	4983.5	
0287		5065.65	07/20/2010	15:15:03	63.3	5002.35	
0288		5072.54	07/21/2010	12:21:11	58.04	5014.5	
0289		5070.82	07/21/2010	11:56:47	58.69	5012.13	
0290		5068.91	07/21/2010	16:55:19	97.97	4970.94	
0683		5070.64	07/21/2010	16:35:07	107.2	4963.44	
0684		5070.05	07/21/2010	17:10:49	78.13	4991.92	
0685		5072.44	07/20/2010	14:17:54	50.21	5022.23	
0686		5107.97	07/21/2010	16:35:18	58.95	5049.02	
0687		5109.82	07/20/2010	11:50:45	50.11	5059.71	
0688		5106.98	07/20/2010	12:33:44	57.95	5049.03	
0689		4981.63	07/20/2010	12:55:38	41.7	4939.93	
0690		4950.87	07/20/2010	17:10:25	26.2	4924.67	
0691		4979.41	07/20/2010	11:40:02	44.7	4934.71	
0692		4953.31	07/20/2010	17:25:18	27.92	4925.39	
0695		4976.83	07/20/2010	12:05:46	50.88	4925.95	
0901	U	5105.46	07/21/2010	16:26:08	48.29	5057.17	
0902	N	4737.42	07/21/2010	17:54:00	30.41	4707.01	
0903	D	4983.33	07/21/2010	11:00:18	35.46	4947.87	
0904	N	4904.11	07/21/2010	12:05:45	22.84	4881.27	
0906	O	5062.1	07/21/2010	10:21:22	56.43	5005.67	
0908	D	5058.14	07/20/2010	10:55:02	62.59	4995.55	
0909	D	5057.17	07/21/2010	19:25:22			B
0910	U	5106.7	07/21/2010	15:15:14	51.12	5055.58	
0911	U	5106.96	07/21/2010	15:42:45	47.66	5059.3	
0912	D	5059.97	07/22/2010	08:44:07	65.8	4994.17	
0913	D	5060.16	07/22/2010	09:07:43	69.2	4990.96	
0914	D	5070.1	07/22/2010	13:35:25	115.1	4955	
0915	D	5070.84	07/21/2010	14:45:09	114.03	4956.81	

STATIC WATER LEVELS (USEE700) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010

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
0916	D	5070	07/21/2010	14:25:04	121.57	4948.43	
0917	D	5048.02	07/22/2010	09:51:00	69.52	4978.5	
0918	D	5049.63	07/22/2010	09:55:00	0	5049.63	
0919	D	5048.56	07/22/2010	09:50:00	146.41	4902.15	
0920	D	4982.97	07/21/2010	11:40:43	39.86	4943.11	
0921	D	4979.08	07/20/2010	18:35:22	41.24	4937.84	
0929	D	5060.82	07/22/2010	09:24:14	63.14	4997.68	
0930	D	4954.96	07/20/2010	16:35:01	21.93	4933.03	
0932	D	5057.32	07/21/2010	18:45:24	107.39	4949.93	
0934	D	5059.73	07/20/2010	16:55:37	77.8	4981.93	
0941	D	5065.97	07/20/2010	17:51:55	60.69	5005.28	
0943	U	5098.05	07/20/2010	17:50:37	48.81	5049.24	
0945	U	5140.49	07/21/2010	14:32:49	86.95	5053.54	
0946	C	5100.5	07/20/2010	16:20:09	40.73	5059.77	
0947	U	5097.01	07/21/2010	17:10:42	69.44	5027.57	
0968	U	5107	07/21/2010	09:57:00	52.33	5054.67	
0970	U	5109.53	07/21/2010	16:38:00	50.2	5059.33	
1003		4976.58	07/20/2010	11:20:51	41.83	4934.75	
1004		4961.55	07/20/2010	12:30:00	27.15	4934.40	
1005		4947.83	07/21/2010	17:53:00	22.55	4925.28	
1006		4947.08	07/20/2010	15:55:07	18.54	4928.54	
1007		4958.56	07/20/2010	15:40:46	23.96	4934.6	
1008		4980.52	07/21/2010	17:54:00	40	4940.52	
1101		5067.29	07/19/2010	18:40:39	115.54	4951.75	
1102		5066.76	07/19/2010	18:52:33	149.21	4917.55	
1119		5061.19	07/20/2010	09:08:36	99.14	4962.05	
1120		5063.6	07/20/2010	08:45:10	74.19	4989.41	
1122		5067.31	07/19/2010	18:23:09	94.78	4972.53	
1123		5064.54	07/19/2010	18:01:40	66.91	4997.63	

STATIC WATER LEVELS (USEE700) FOR SITE TUB01, Tuba City Disposal Site
REPORT DATE: 12/22/2010

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
1124		5063.86	07/19/2010	19:15:00	84.74	4979.12	
1125		5065.47	07/20/2010	09:53:24	103.05	4962.42	
1126			07/20/2010	10:00:00			D
1127			07/20/2010	10:05:00			D
1128			07/20/2010	10:10:00			D
1129			07/20/2010	10:22:35	88.52		
1130			07/20/2010	10:37:50	77.91		

FLOW CODES: B BACKGROUND C CROSS GRADIENT D DOWN GRADIENT F OFF SITE
N UNKNOWN O ON SITE U UPGRADIENT

WATER LEVEL FLAGS: D Dry B Below top of pump

Time-Concentration Graphs

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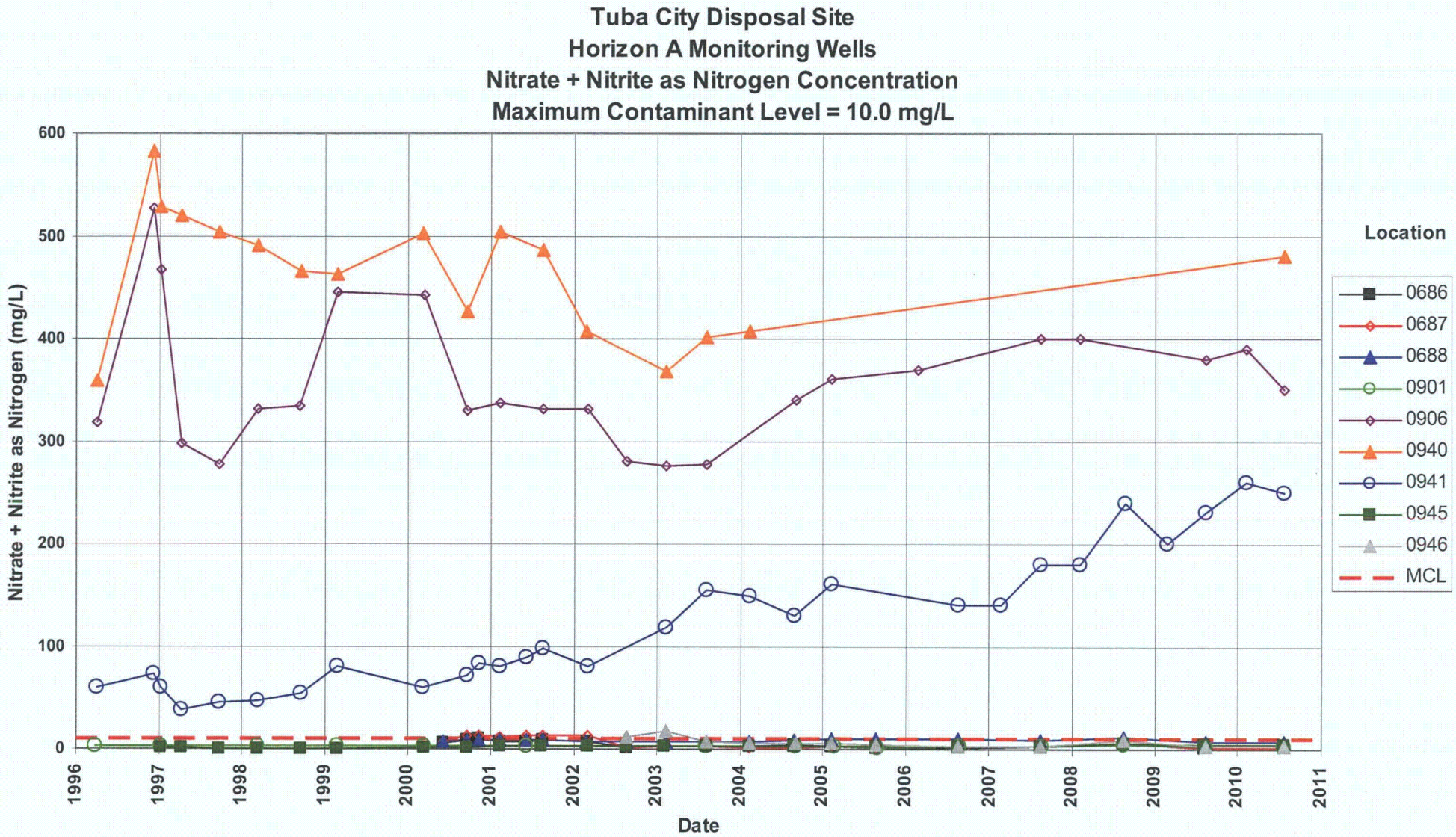
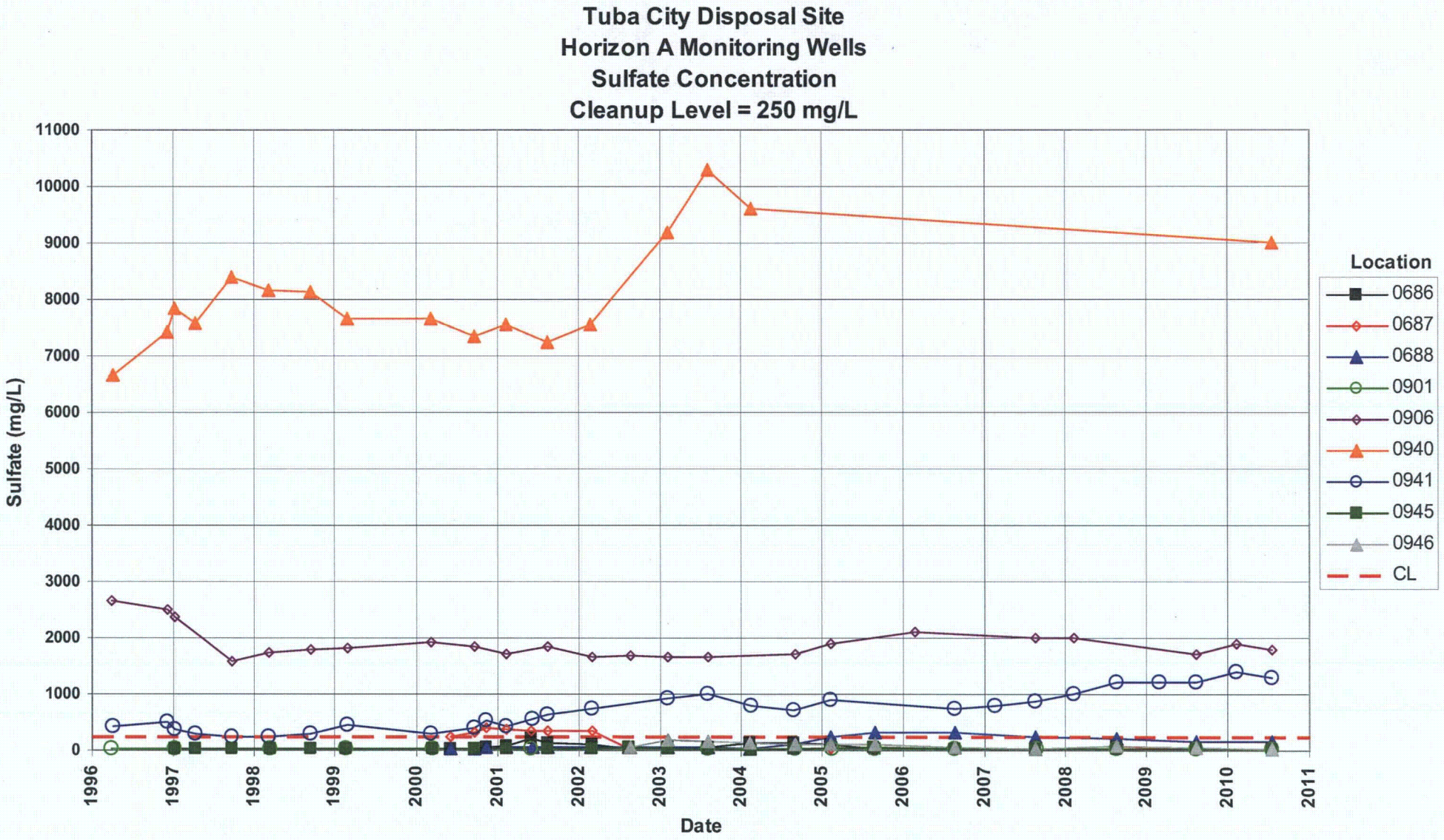
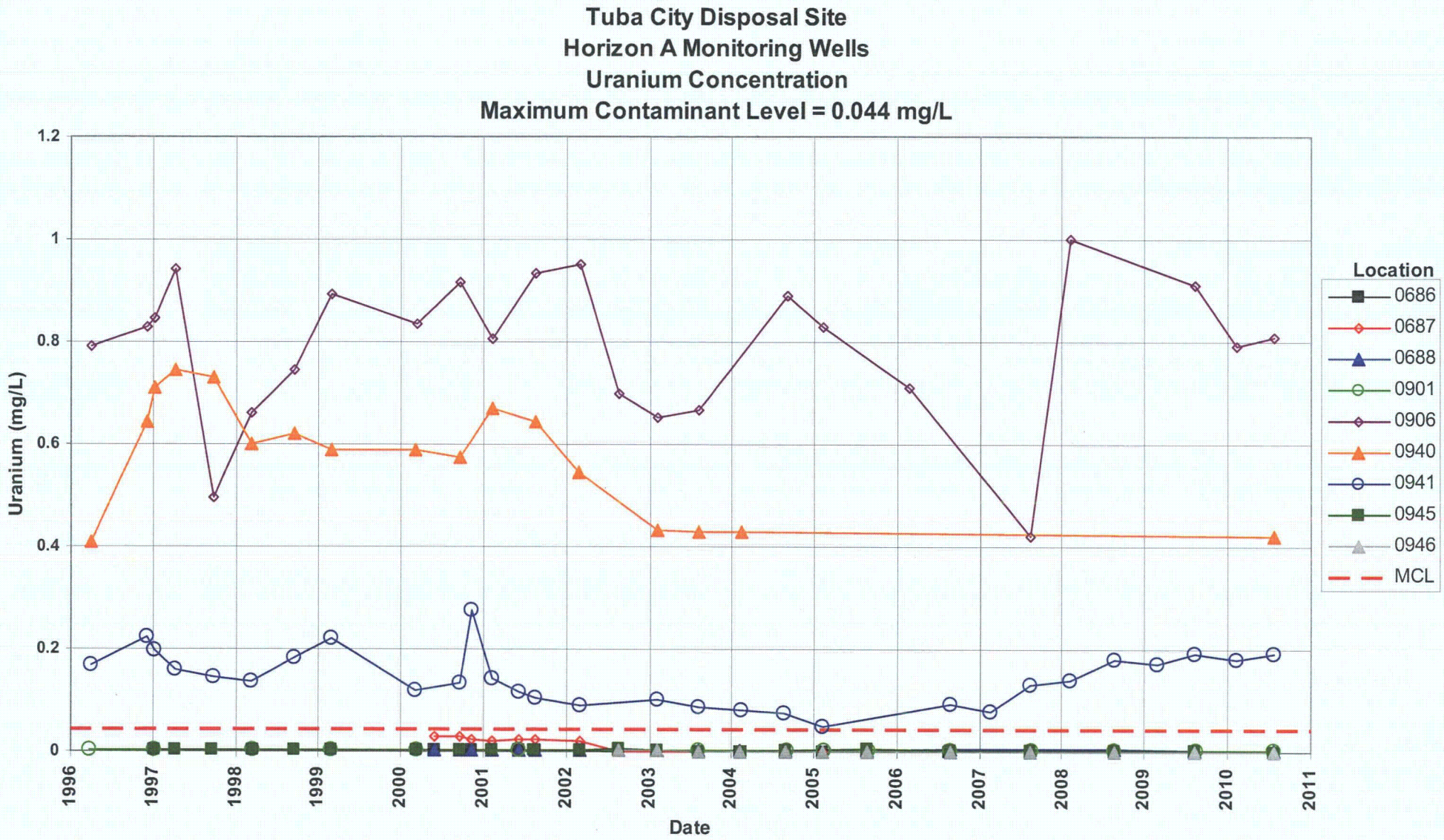
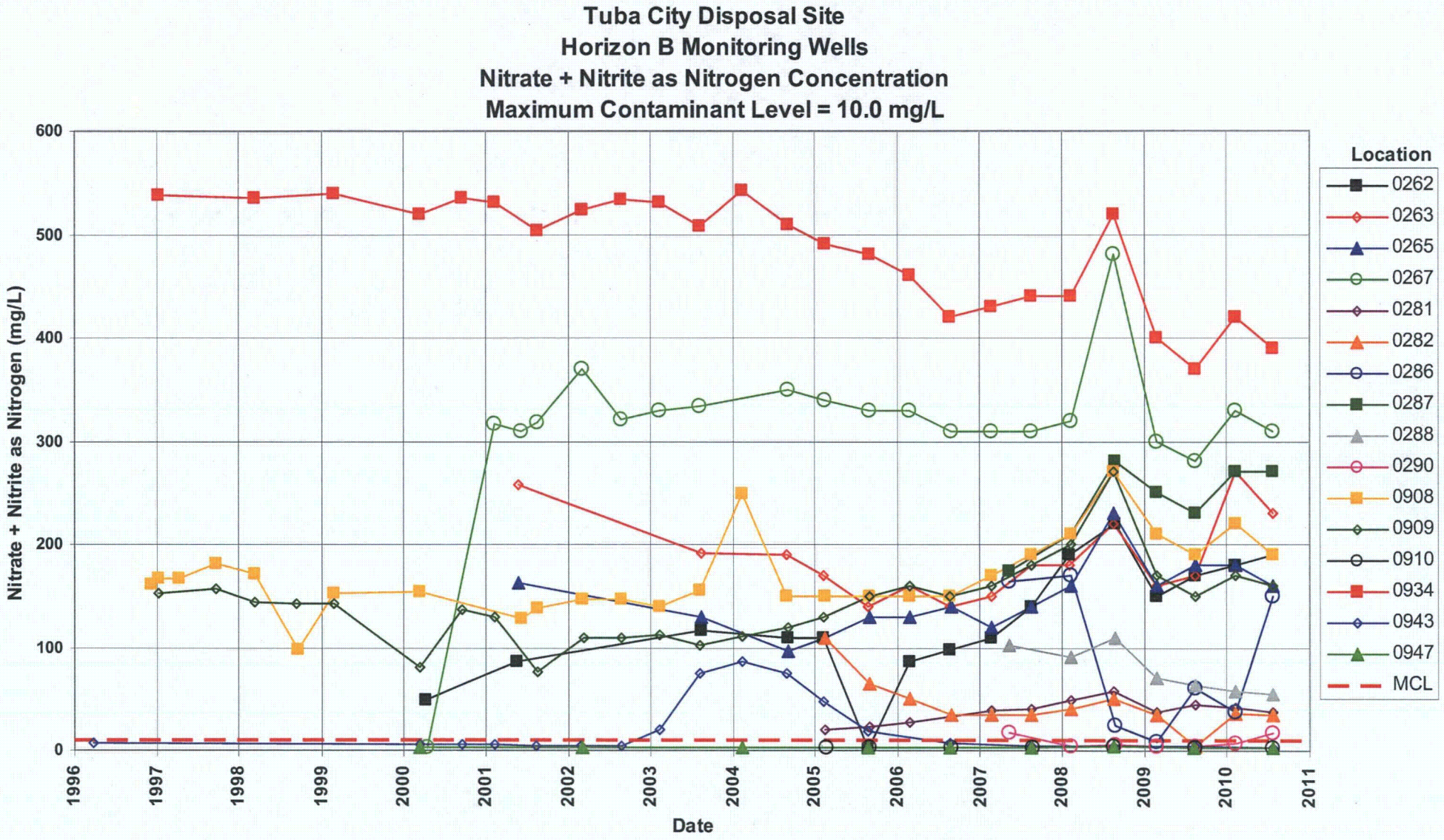
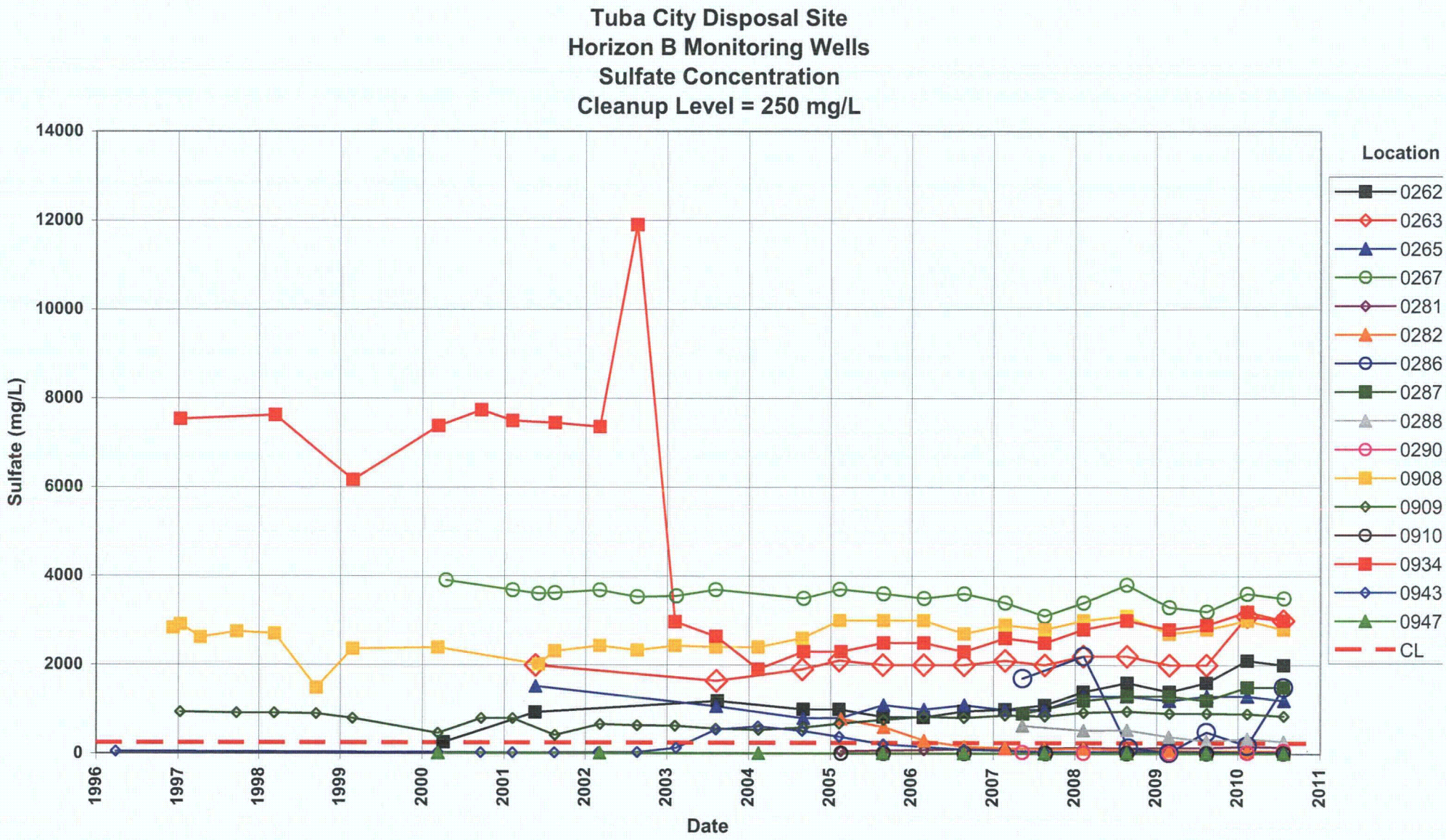
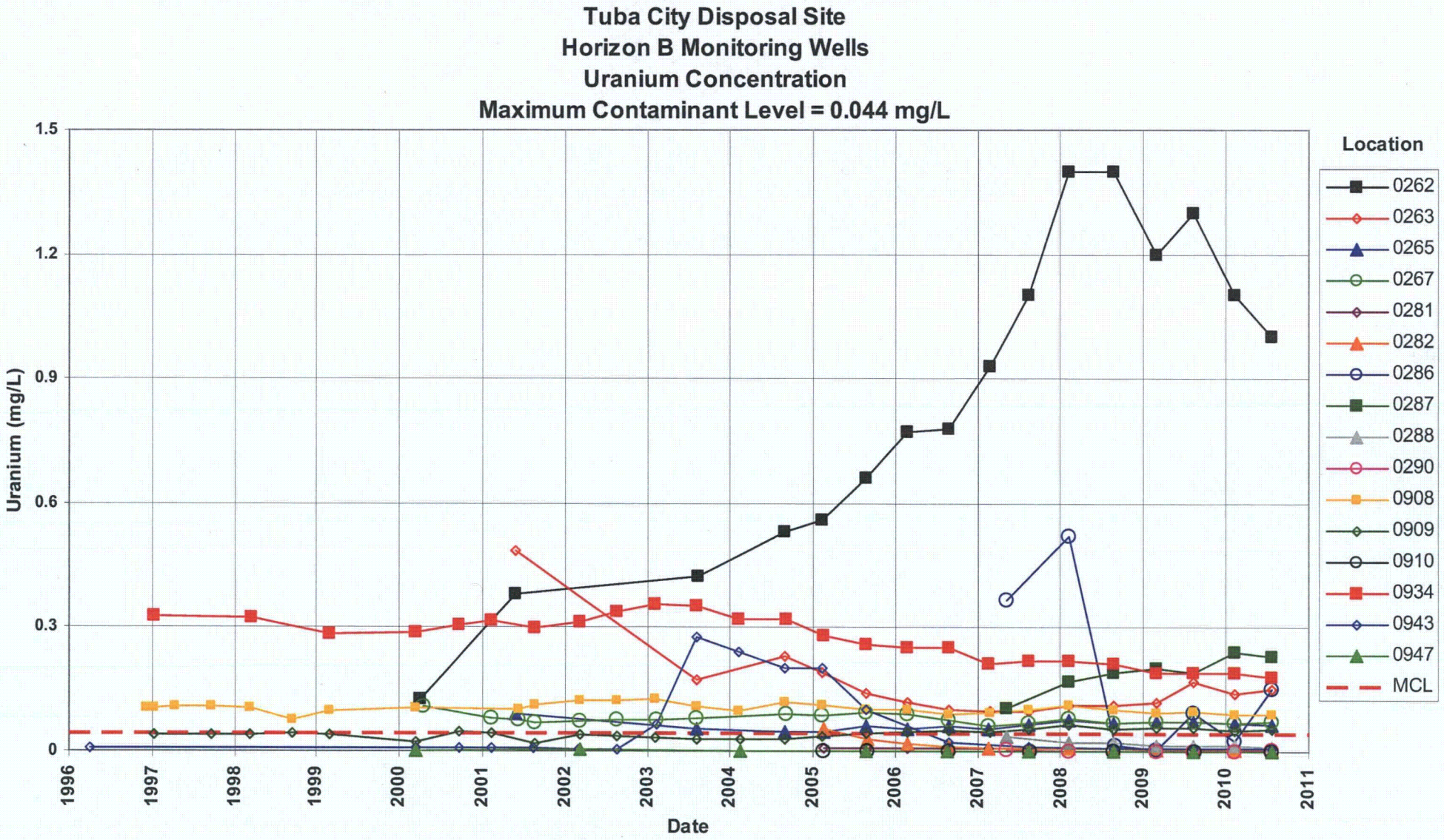

Tuba City Disposal Site
Horizon A Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
600
500
400
300
200
100
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0686
0687
0688
0901
0906
0940
0941
0945
0946
MCL

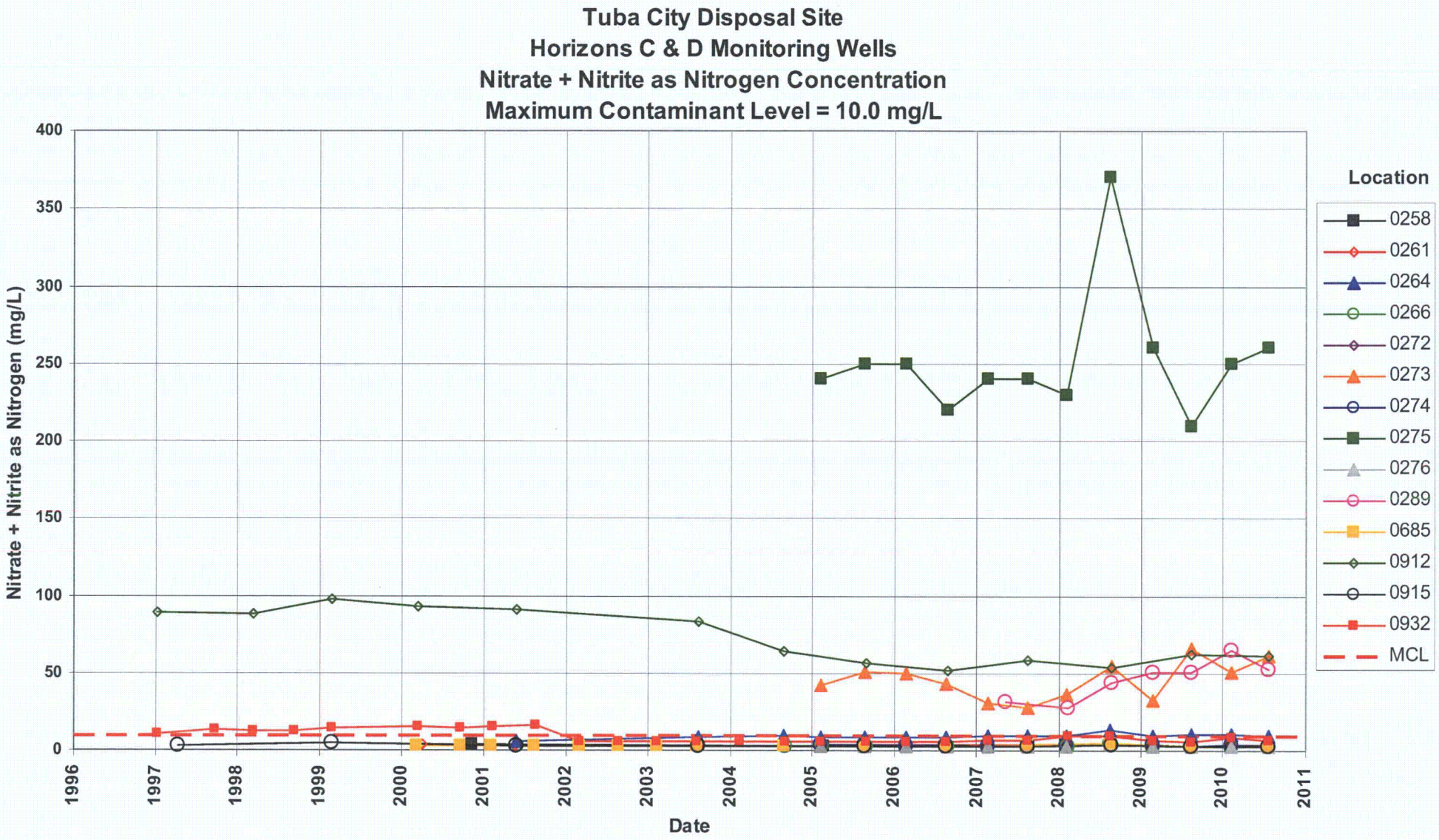

Tuba City Disposal Site
Horizon A Monitoring Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0686
0687
0688
0901
0906
0940
0941
0945
0946
CL

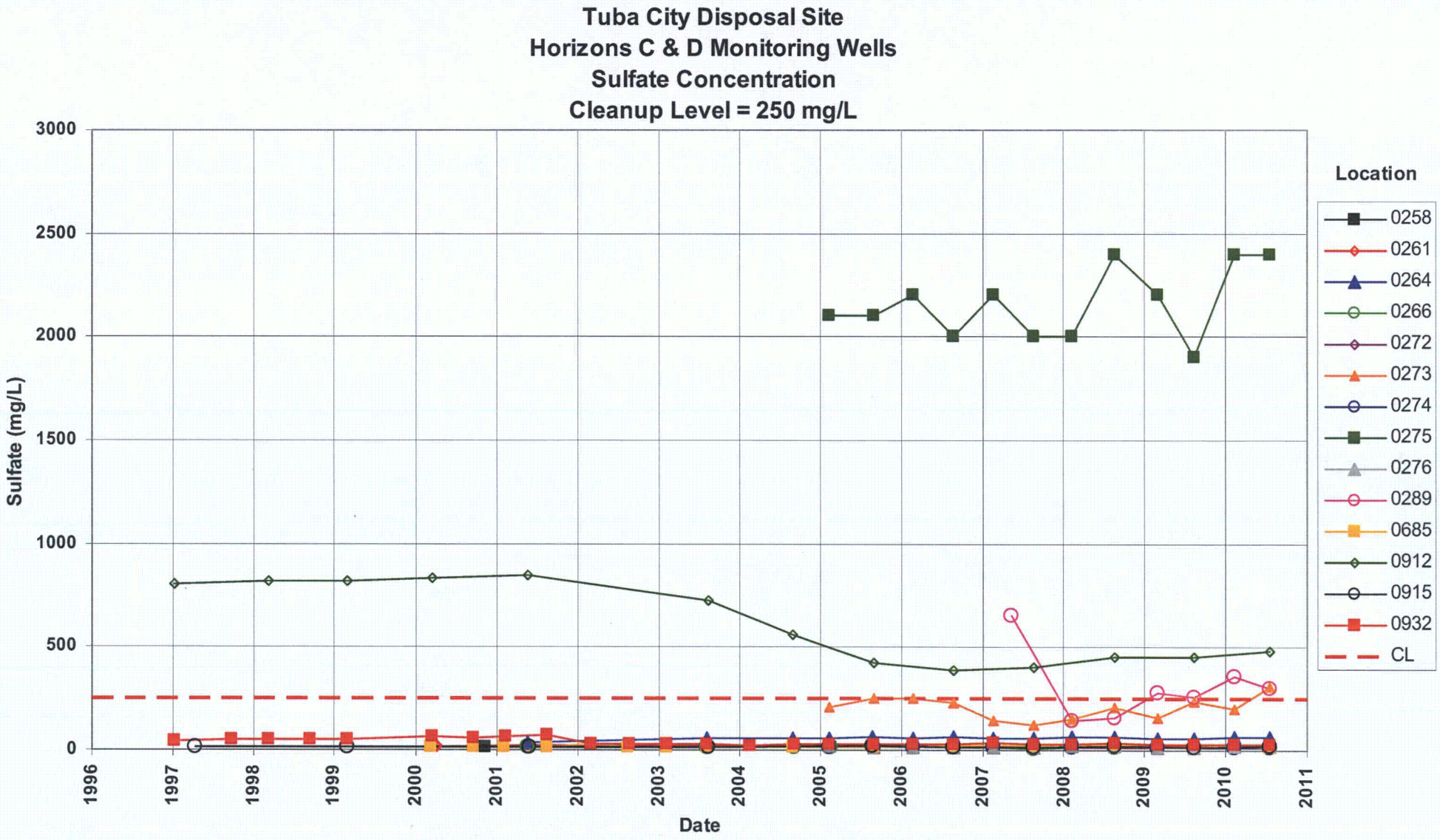

Tuba City Disposal Site
Horizon A Monitoring Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
1.2
1
0.8
0.6
0.4
0.2
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0686
0687
0688
0901
0906
0940
0941
0945
0946
MCL

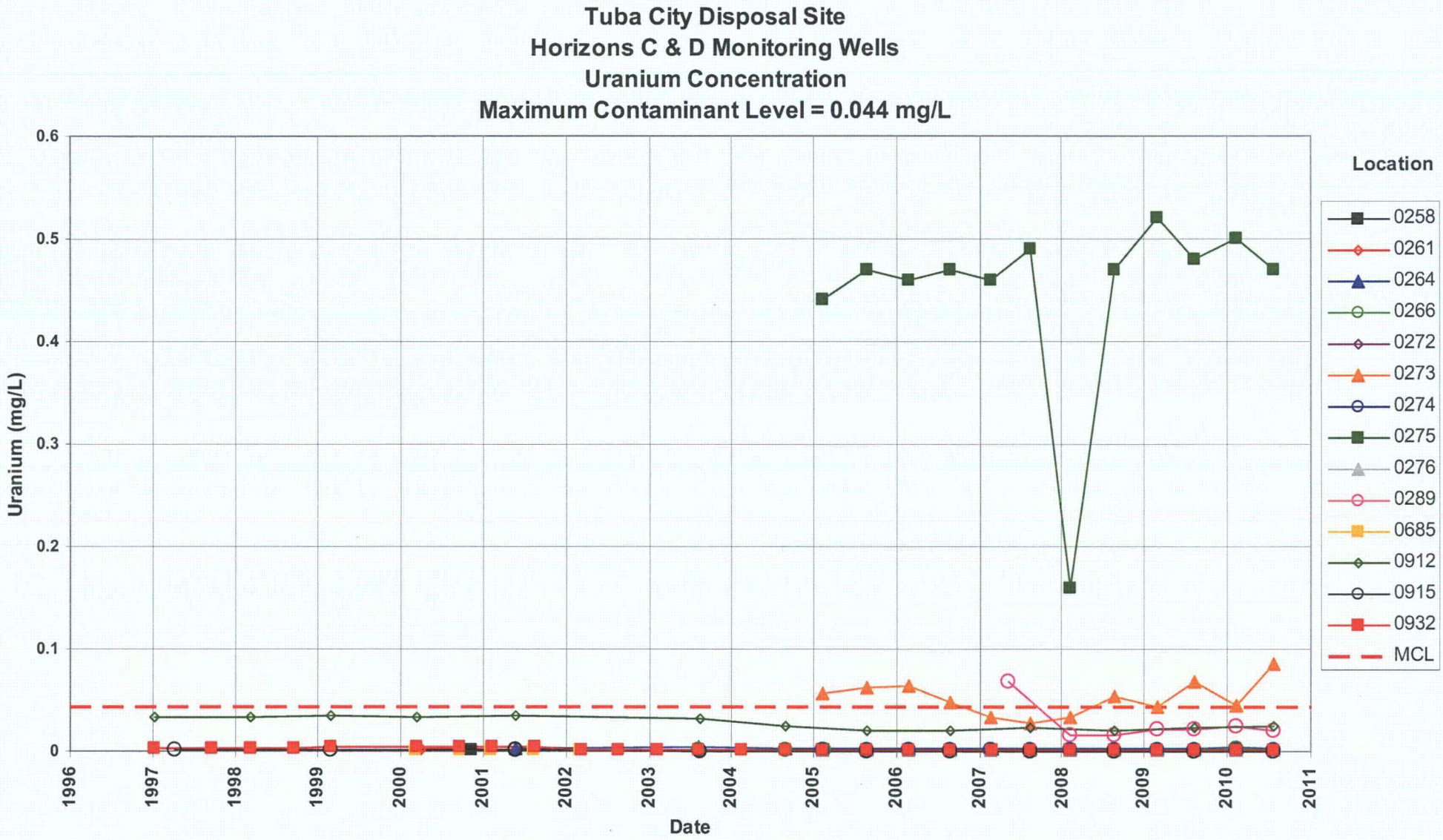

Tuba City Disposal Site
Horizon B Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
600
500
400
300
200
100
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0262
0263
0265
0267
0281
0282
0286
0287
0288
0290
0908
0909
0910
0934
0943
0947
MCL

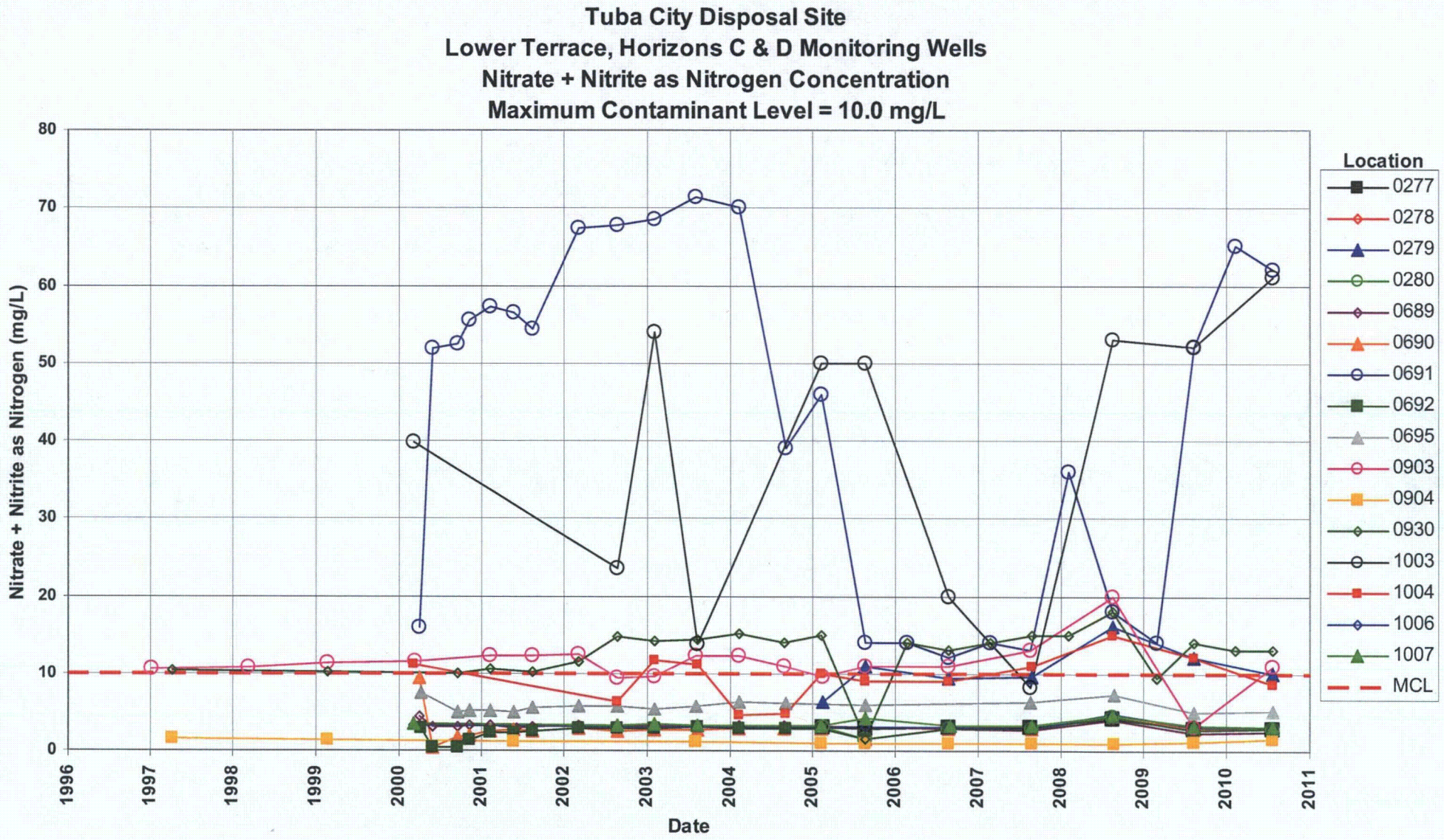

Tuba City Disposal Site
Horizon B Monitoring Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
14000
12000
10000
8000
6000
4000
2000
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0262
0263
0265
0267
0281
0282
0286
0287
0288
0290
0908
0909
0910
0934
0943
0947
CL

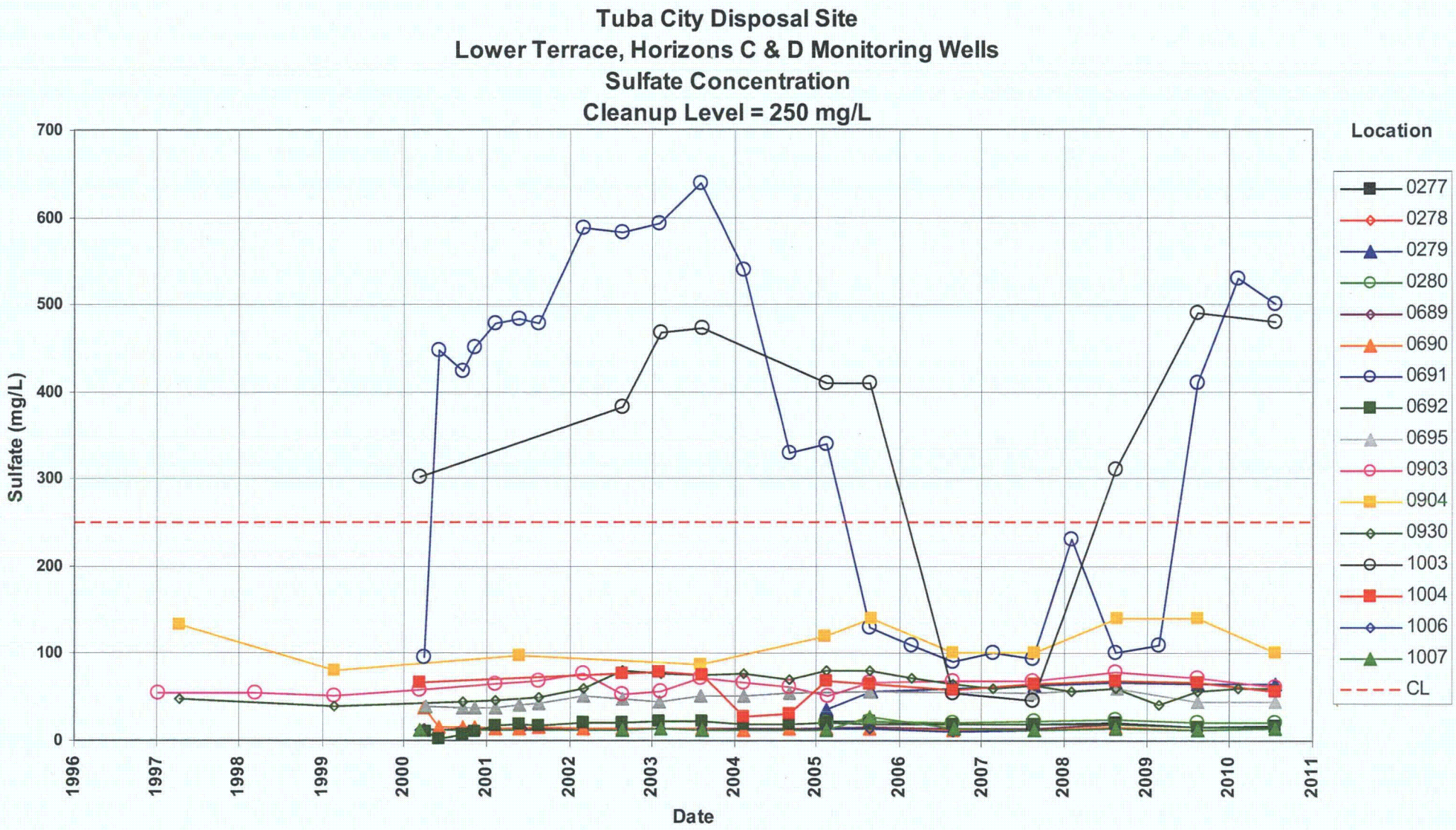

Tuba City Disposal Site
Horizon B Monitoring Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
1.5
1.2
0.9
0.6
0.3
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0262
0263
0265
0267
0281
0282
0286
0287
0288
0290
0908
0909
0910
0934
0943
0947
MCL

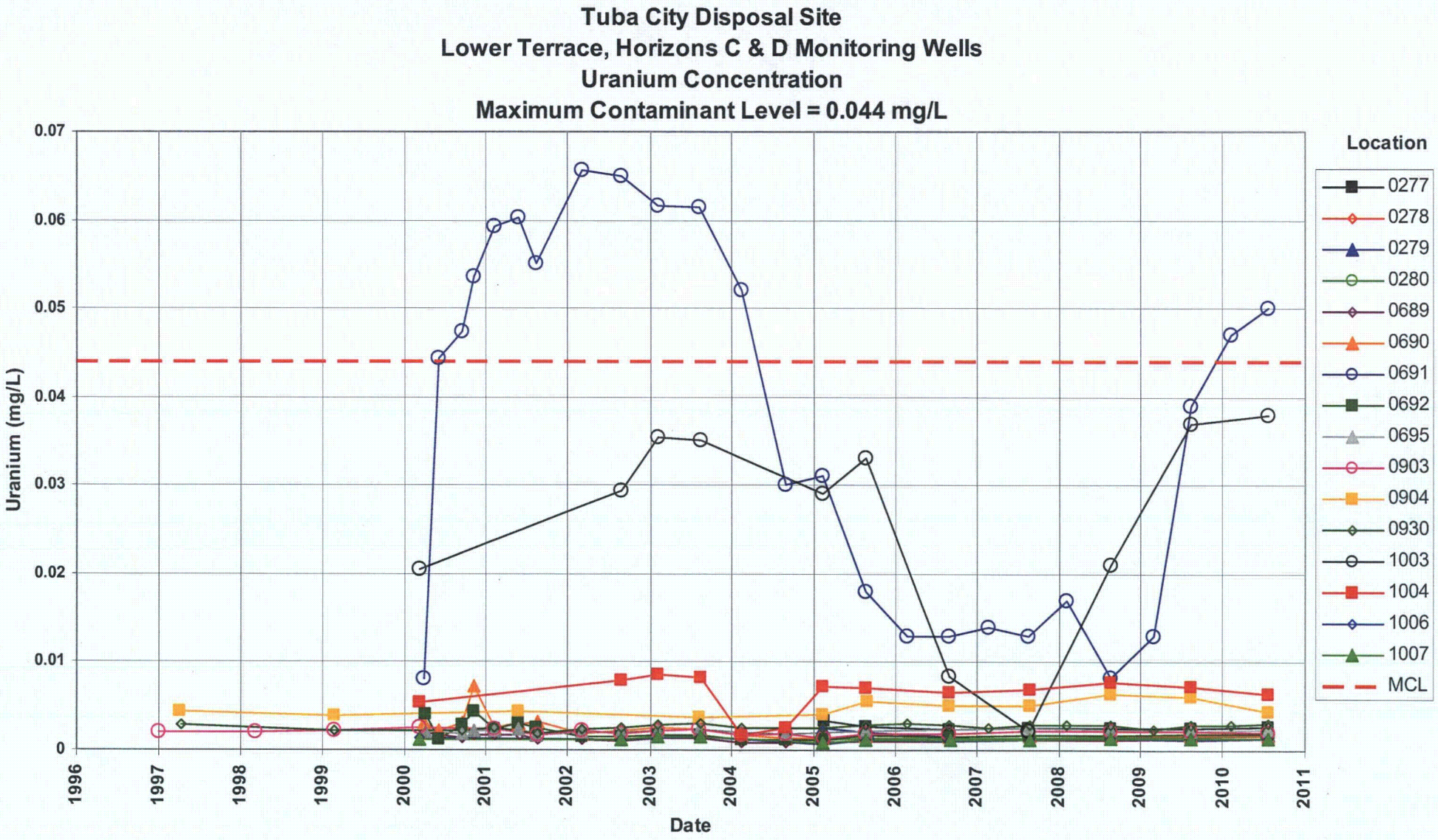

Tuba City Disposal Site
Horizons C & D Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
400
350
300
250
200
150
100
50
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0258
0261
0264
0266
0272
0273
0274
0275
0276
0289
0685
0912
0915
0932
MCL

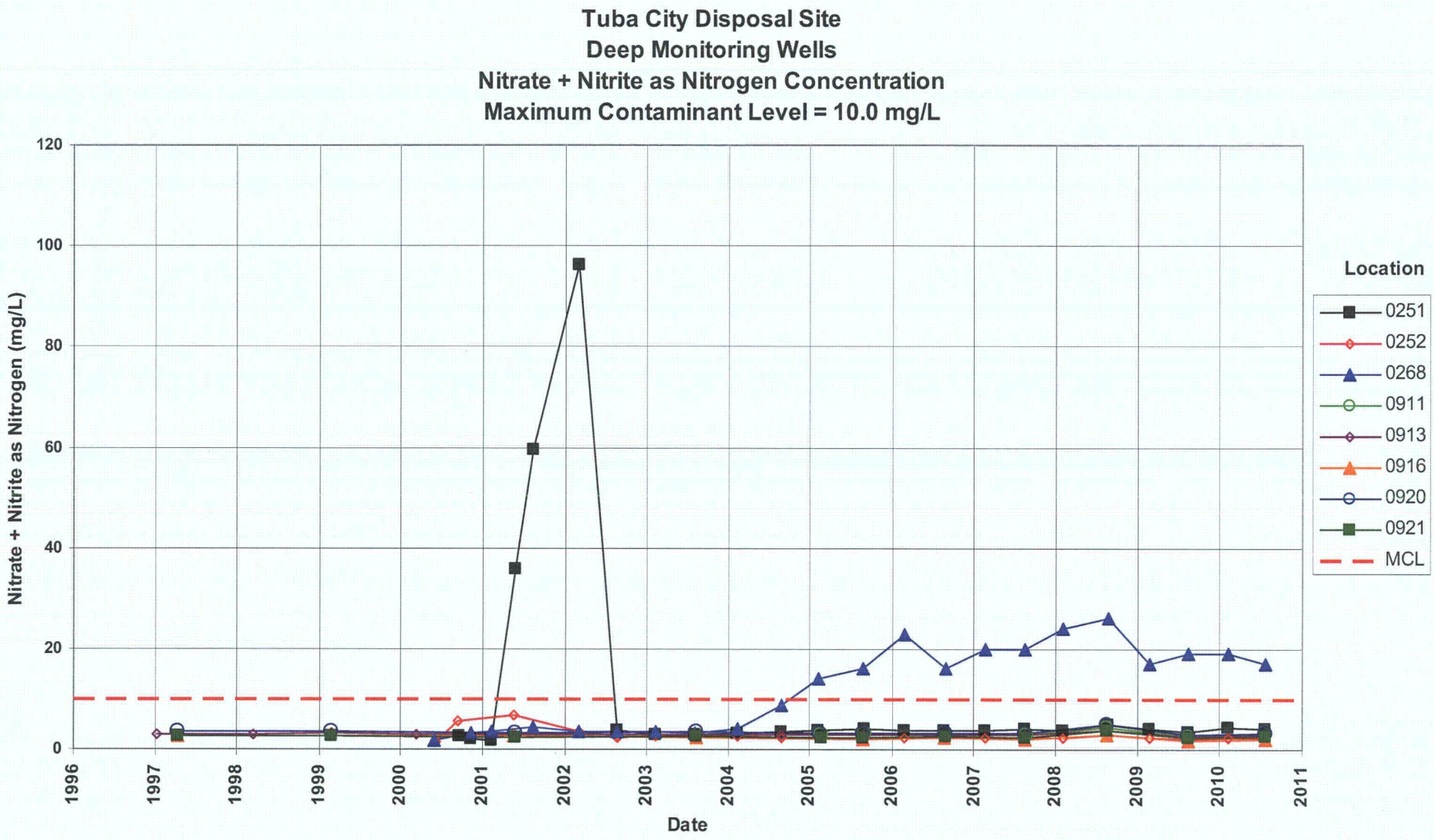

Tuba City Disposal Site
Horizons C & D Monitoring Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
3000
2500
2000
1500
1000
500
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0258
0261
0264
0266
0272
0273
0274
0275
0276
0289
0685
0912
0915
0932
CL

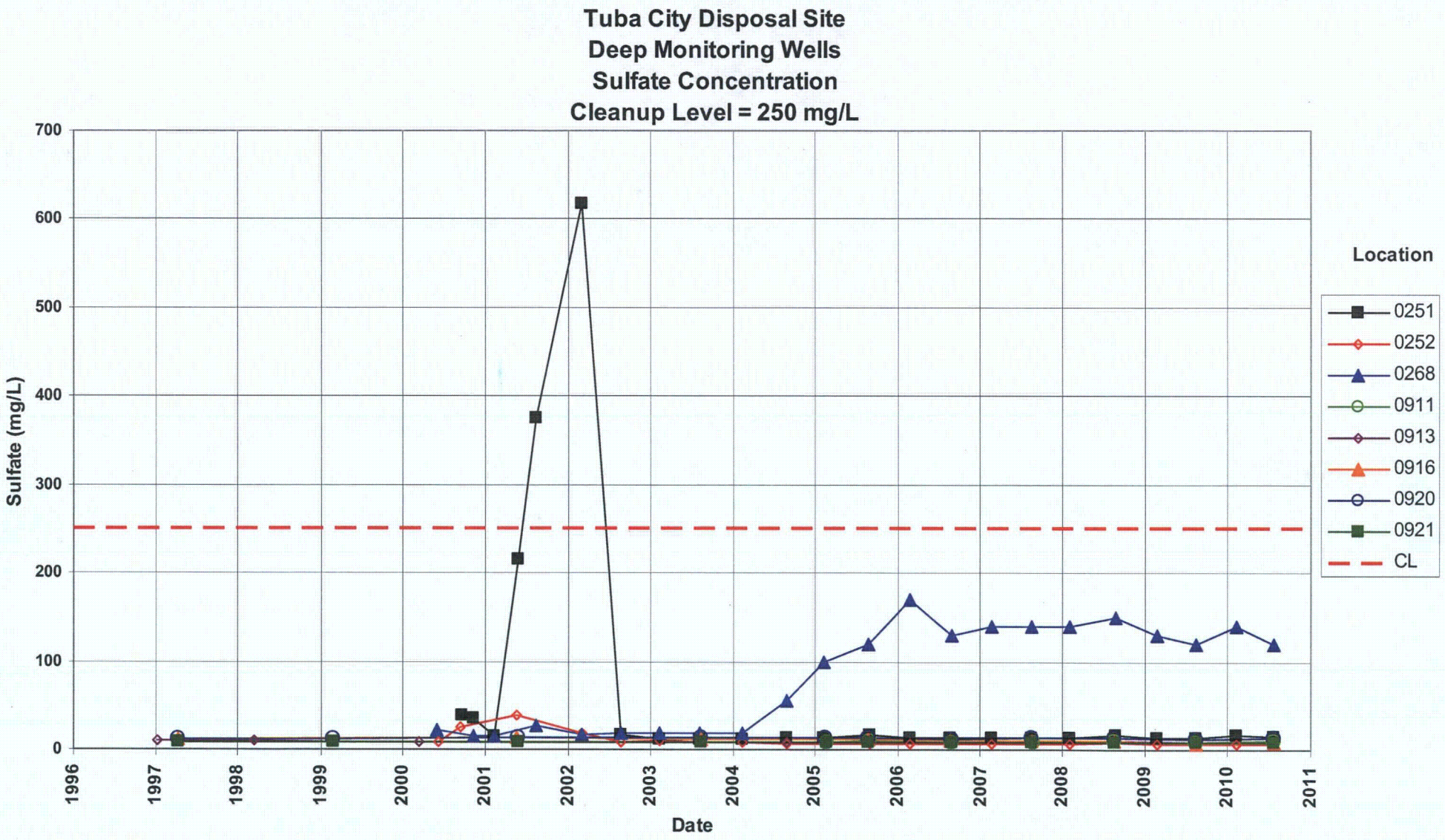

Tuba City Disposal Site
Horizons C & D Monitoring Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0258
0261
0264
0266
0272
0273
0274
0275
0276
0289
0685
0912
0915
0932
MCL

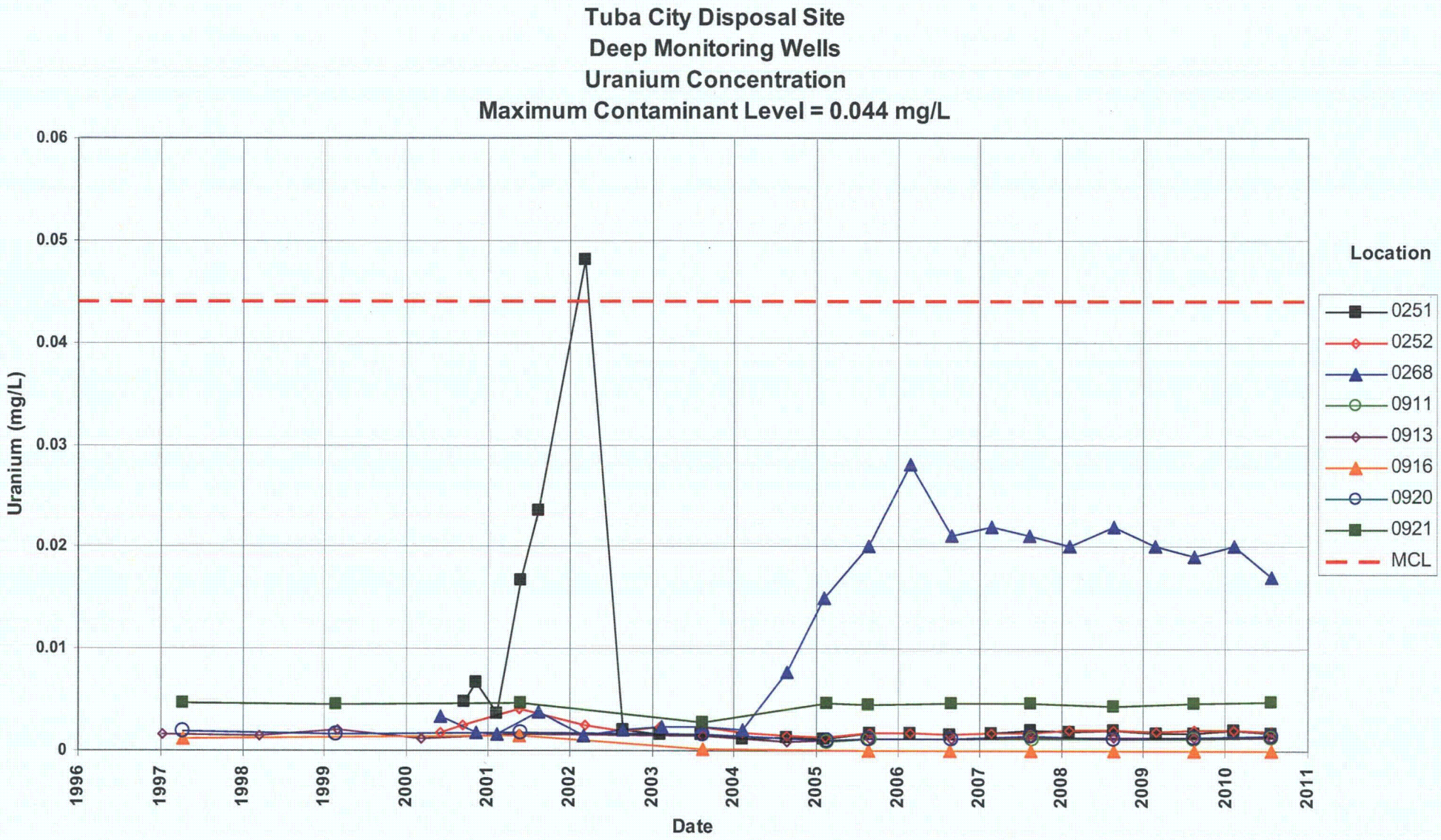

Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
0
10
20
30
40
50
60
70
80
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0277
0278
0279
0280
0689
0690
0691
0692
0695
0903
0904
0930
1003
1004
1006
1007
MCL

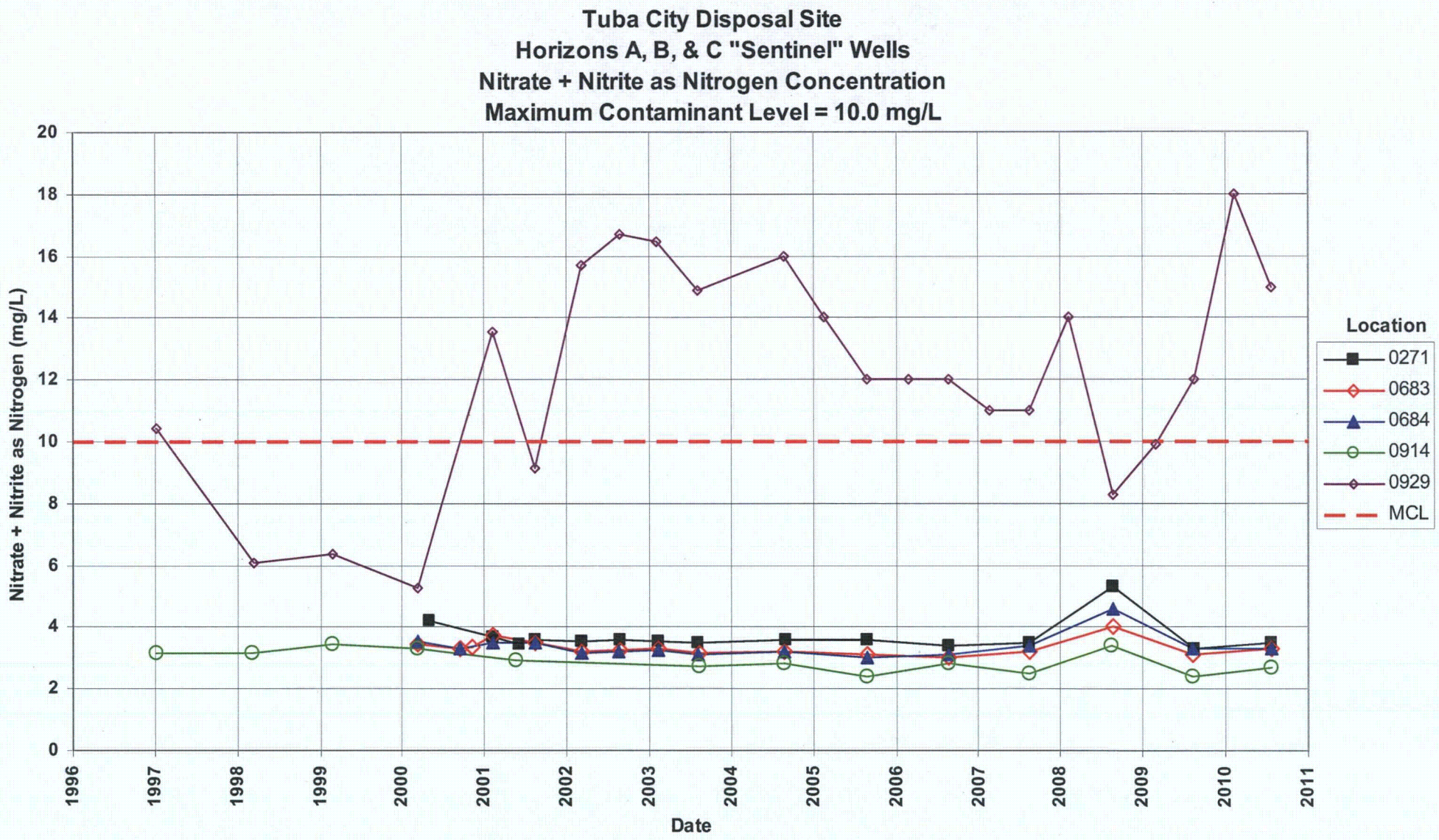

Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
700
600
500
400
300
200
100
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0277
0278
0279
0280
0689
0690
0691
0692
0695
0903
0904
0930
1003
1004
1006
1007
CL

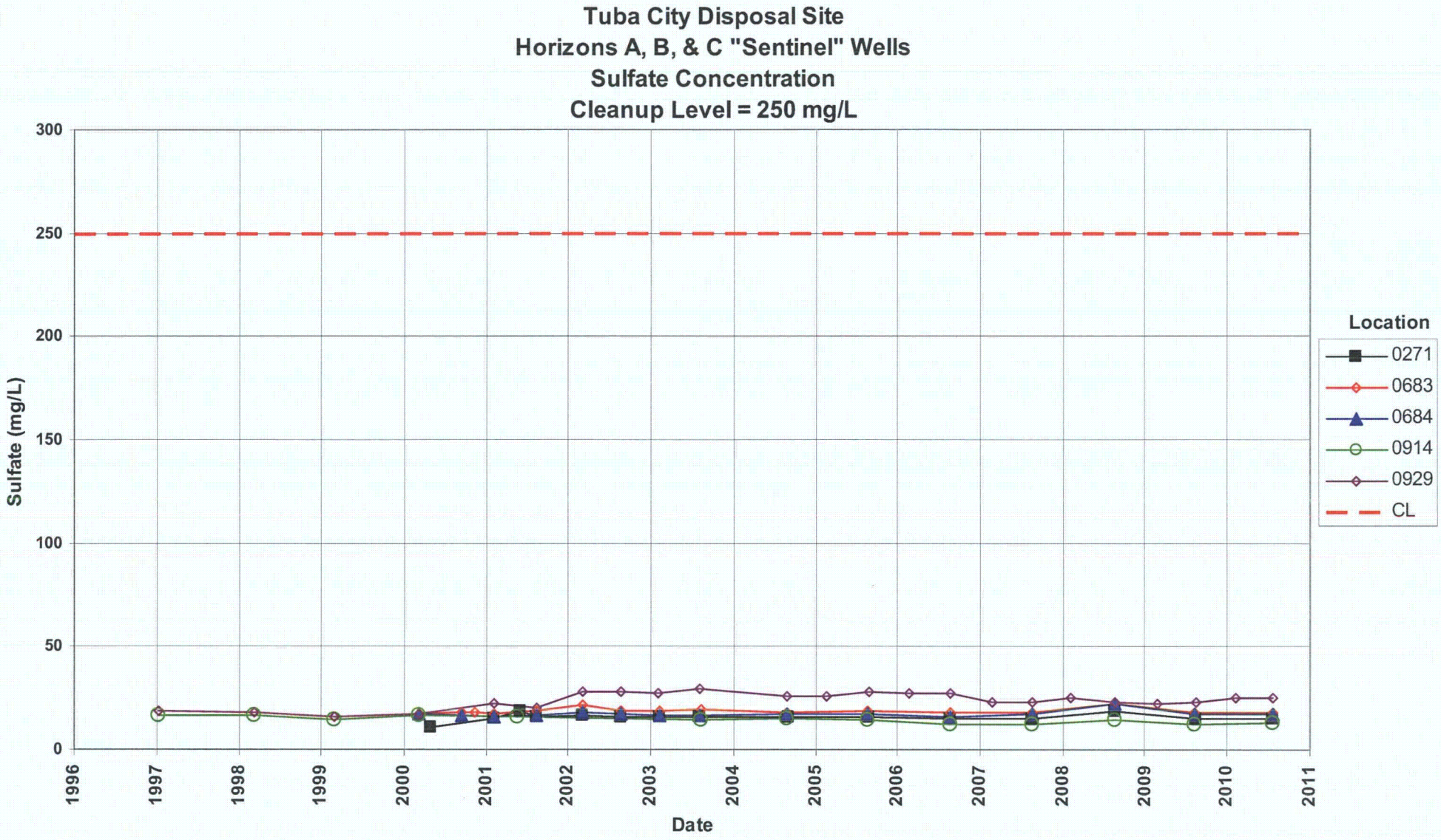

Tuba City Disposal Site
Lower Terrace, Horizons C & D Monitoring Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0277
0278
0279
0280
0689
0690
0691
0692
0695
0903
0904
0930
1003
1004
1006
1007
MCL

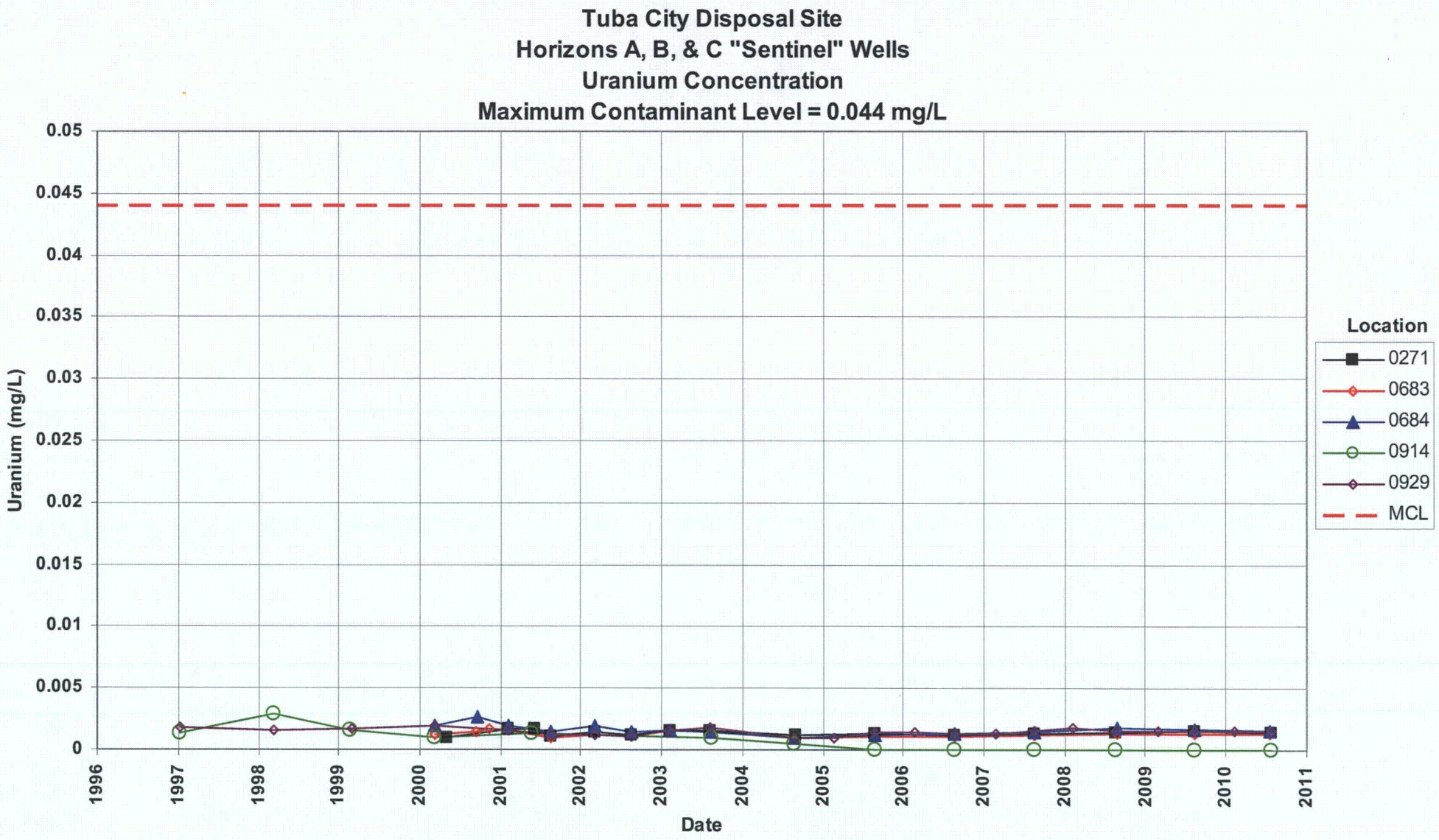

Tuba City Disposal Site
Deep Monitoring Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
120
100
80
60
40
20
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0251
0252
0268
0911
0913
0916
0920
0921
MCL

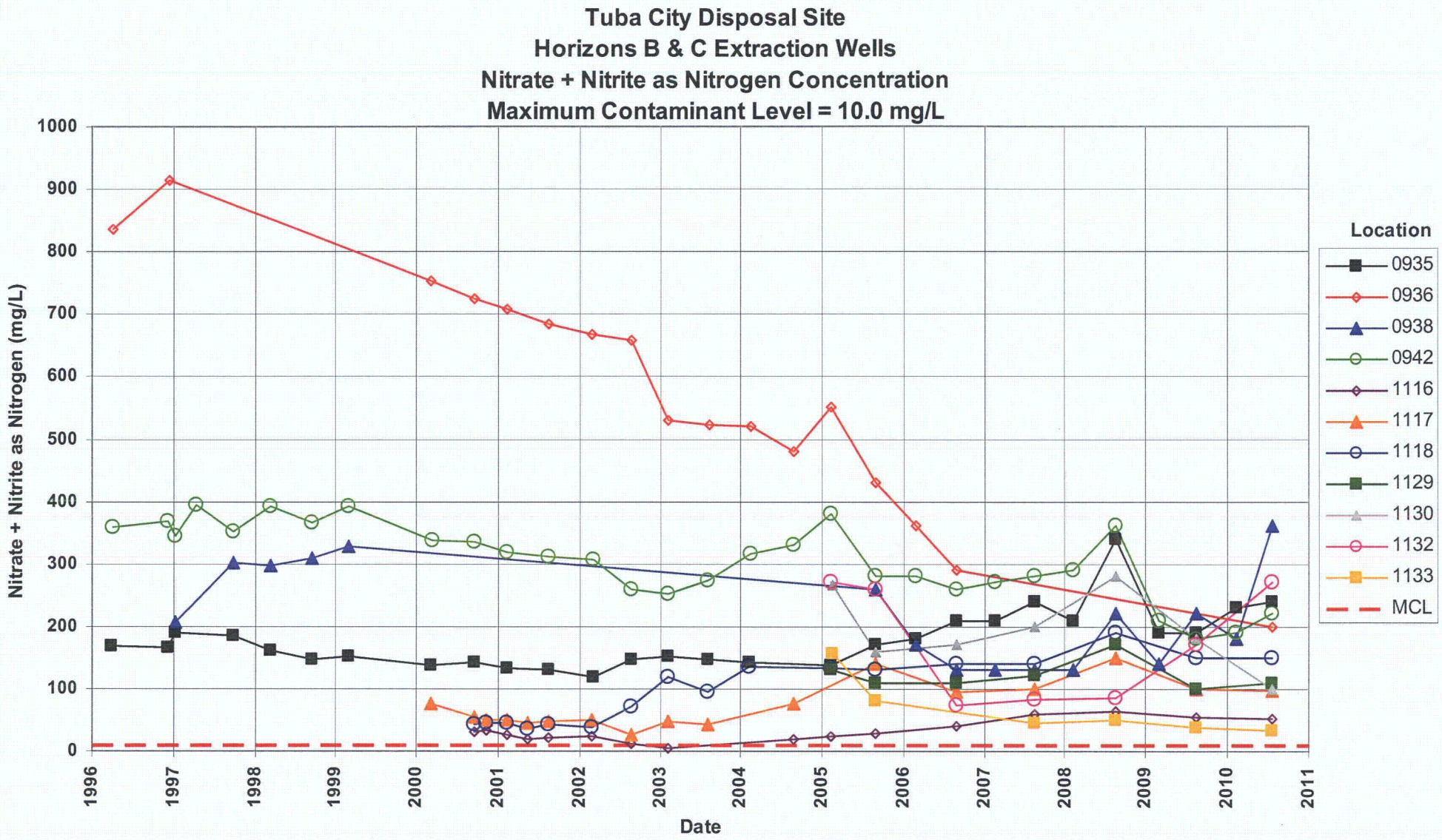

Tuba City Disposal Site
Deep Monitoring Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
700
600
500
400
300
200
100
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0251
0252
0268
0911
0913
0916
0920
0921
CL

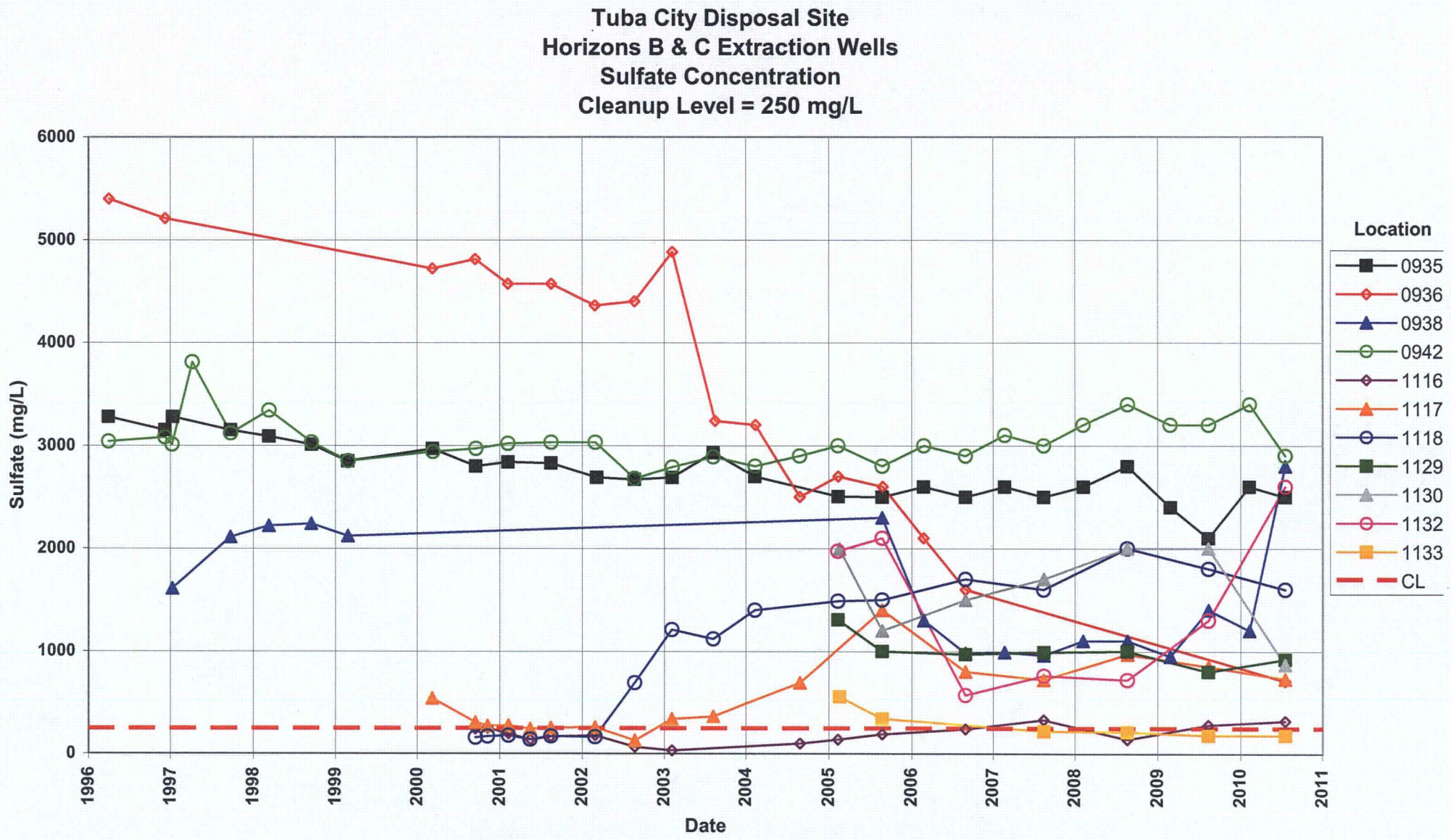

Tuba City Disposal Site
Deep Monitoring Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0251
0252
0268
0911
0913
0916
0920
0921
MCL

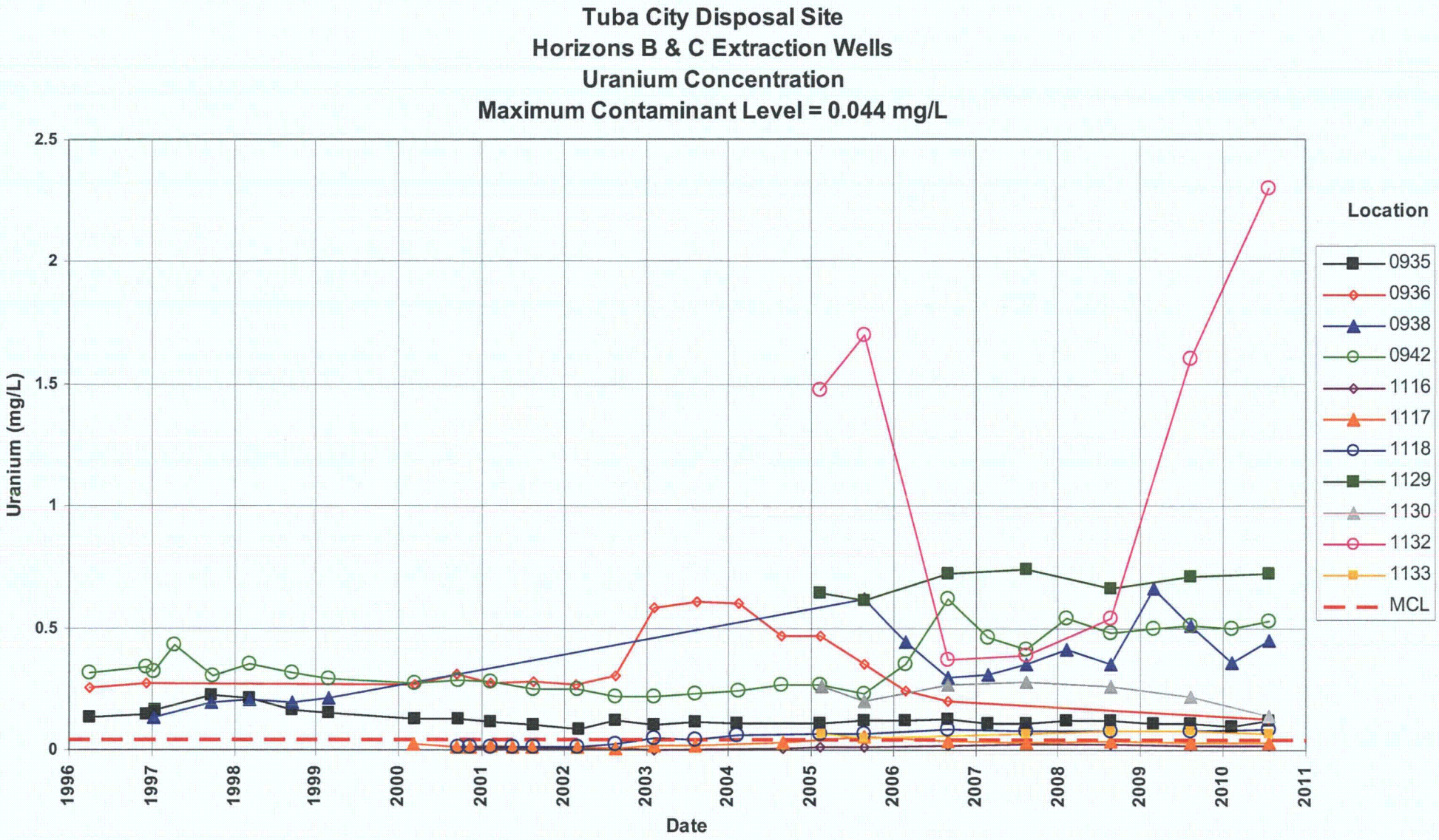

Tuba City Disposal Site
Horizons A, B, & C "Sentinel" Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
0
2
4
6
8
10
12
14
16
18
20
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0271
0683
0684
0914
0929
MCL

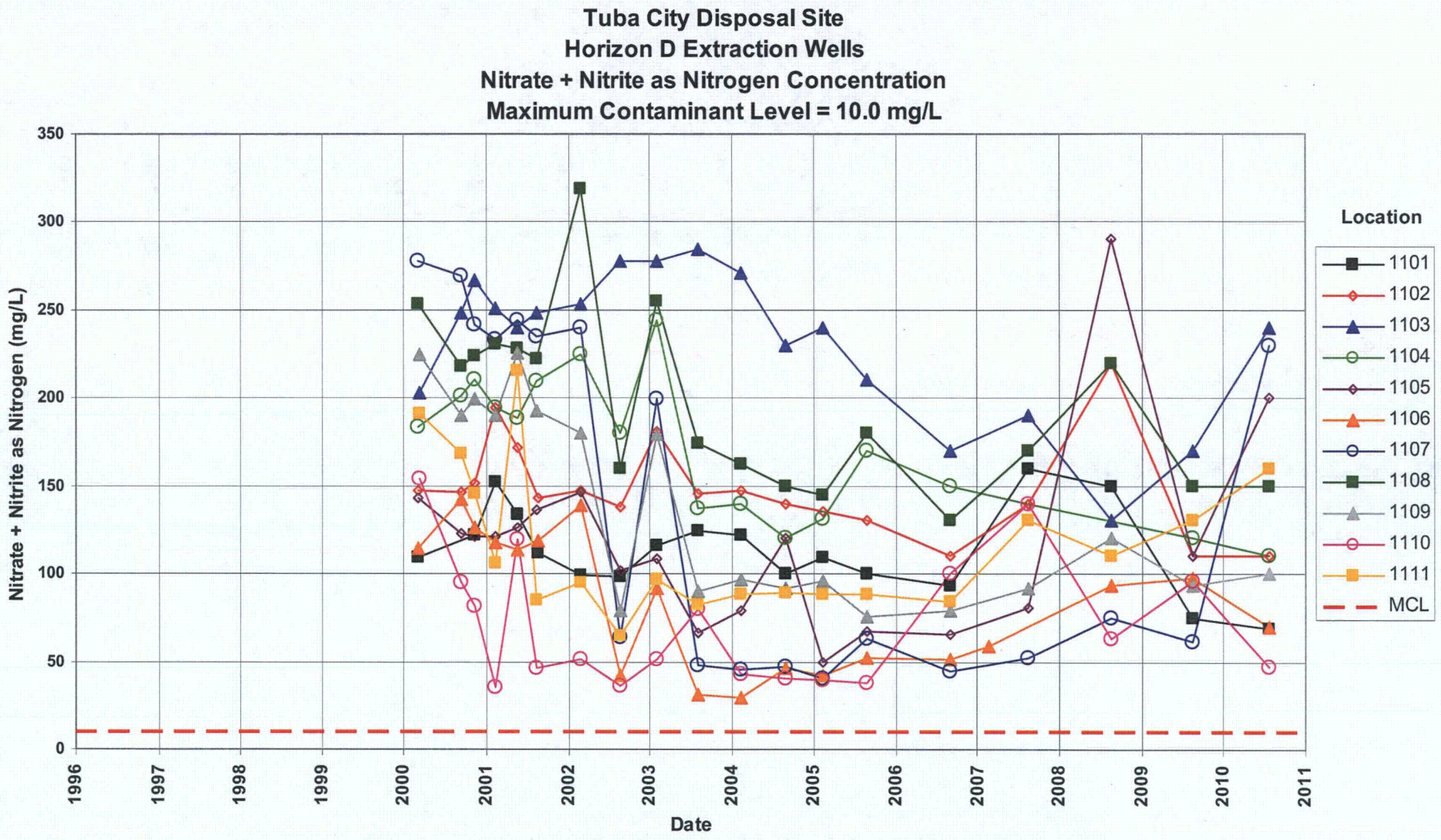

Tuba City Disposal Site
Horizons A, B, & C "Sentinel" Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
300
250
200
150
100
50
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0271
0683
0684
0914
0929
CL

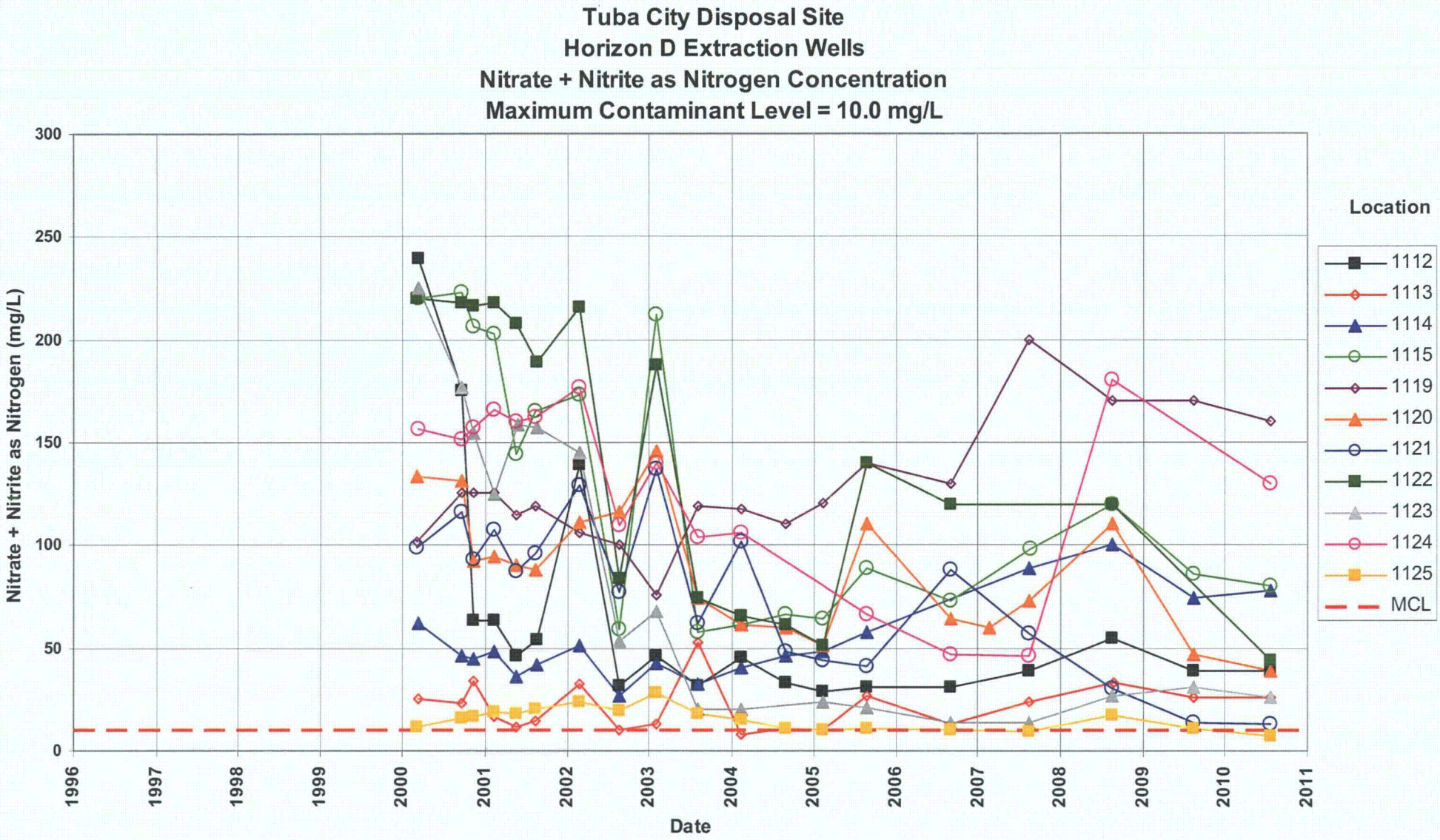

Tuba City Disposal Site
Horizons A, B, & C "Sentinel" Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0271
0683
0684
0914
0929
MCL

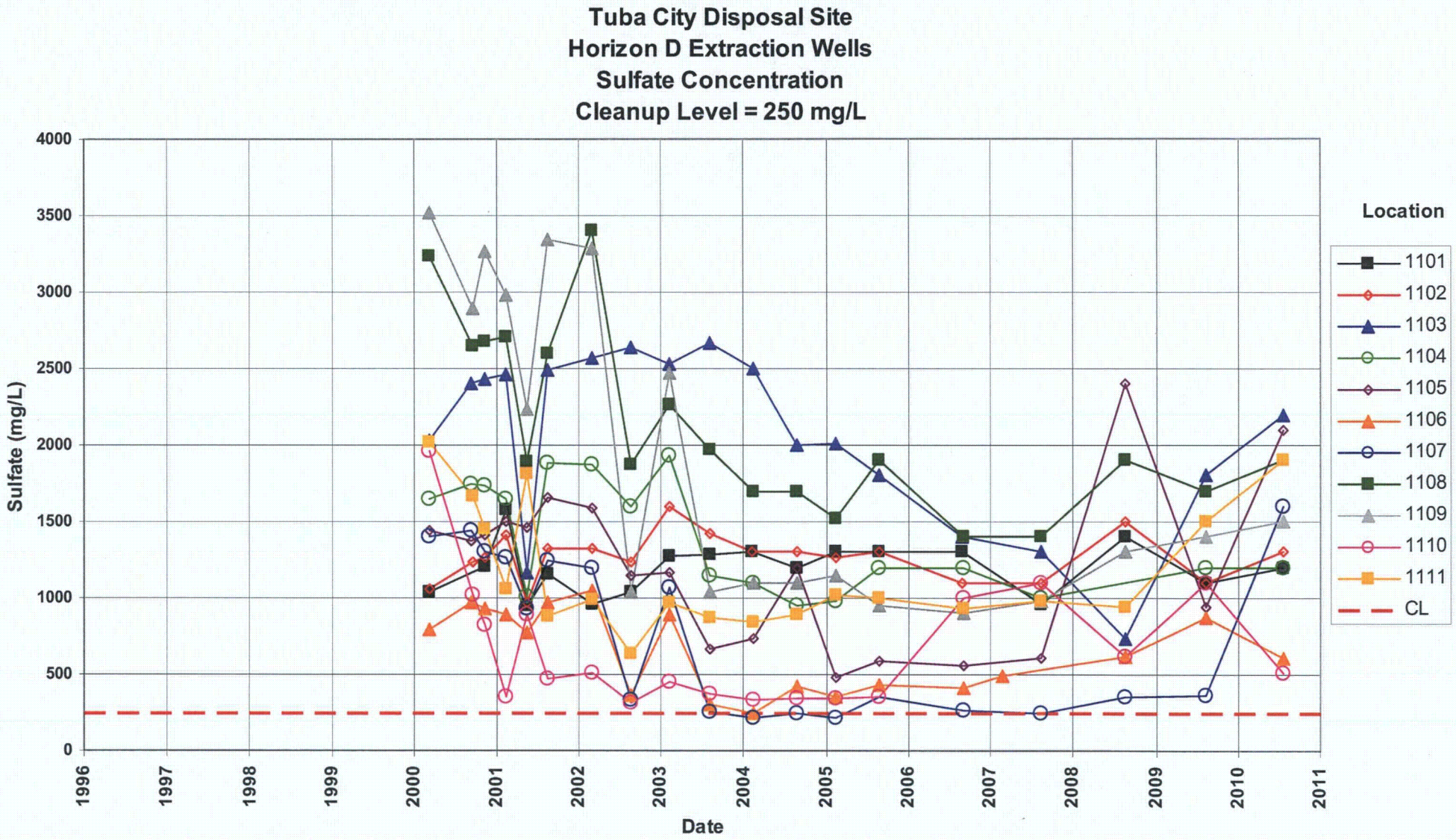

Tuba City Disposal Site
Horizons B & C Extraction Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
1000
900
800
700
600
500
400
300
200
100
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0935
0936
0938
0942
1116
1117
1118
1129
1130
1132
1133
MCL

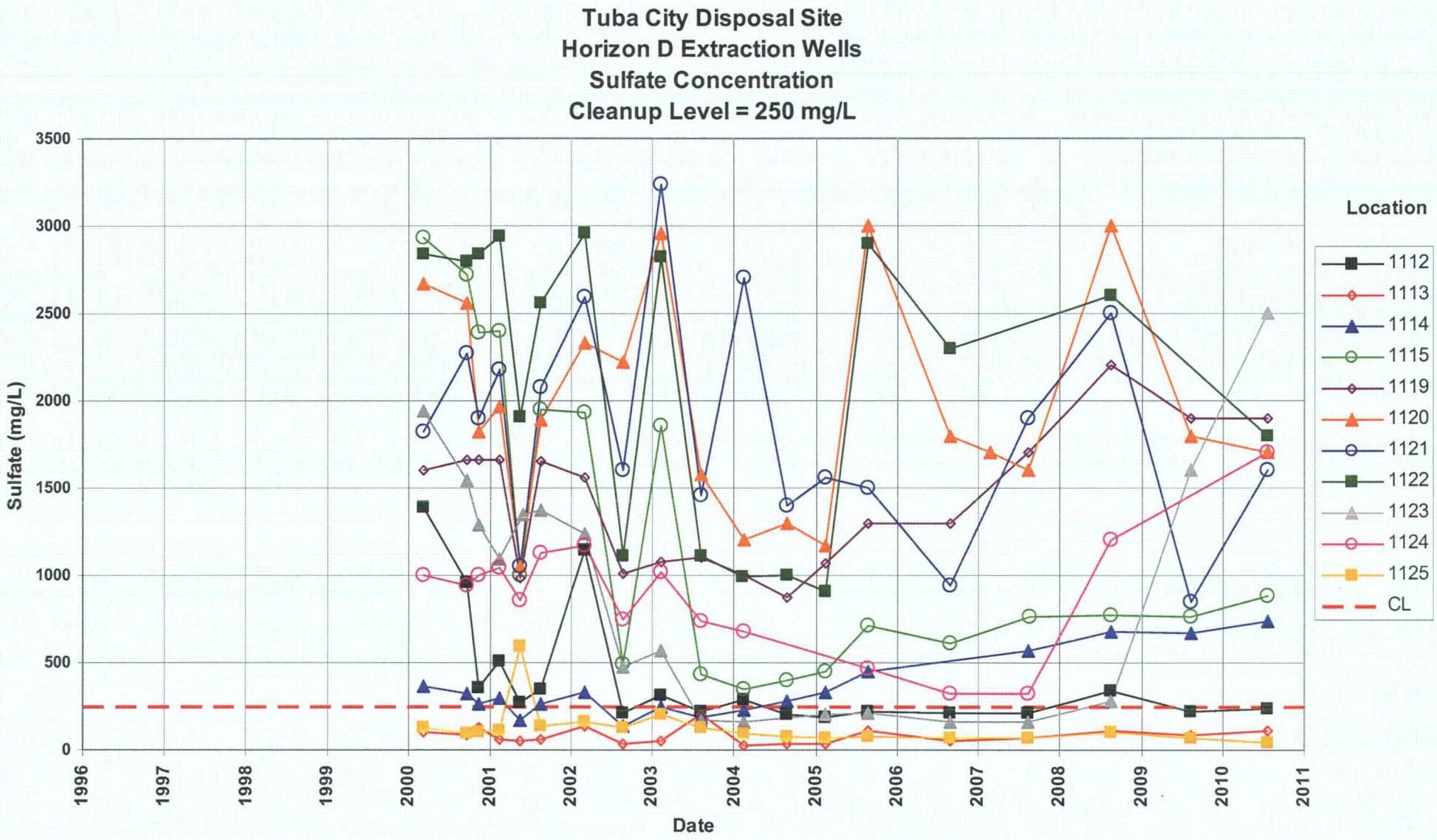

Tuba City Disposal Site
Horizons B & C Extraction Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
6000
5000
4000
3000
2000
1000
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0935
0936
0938
0942
1116
1117
1118
1129
1130
1132
1133
CL

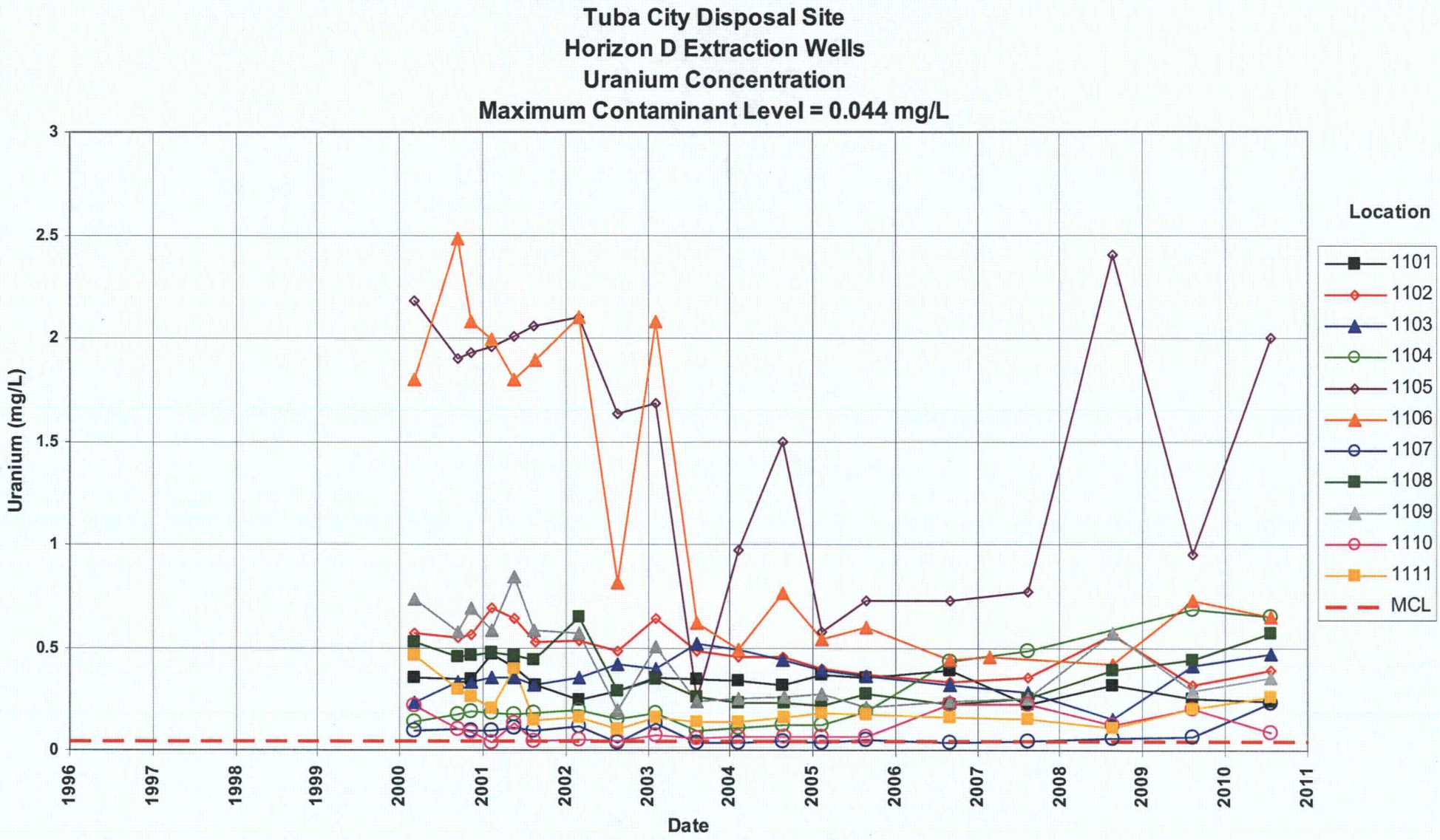

Tuba City Disposal Site
Horizons B & C Extraction Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
2.5
2
1.5
1
0.5
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
0935
0936
0938
0942
1116
1117
1118
1129
1130
1132
1133
MCL

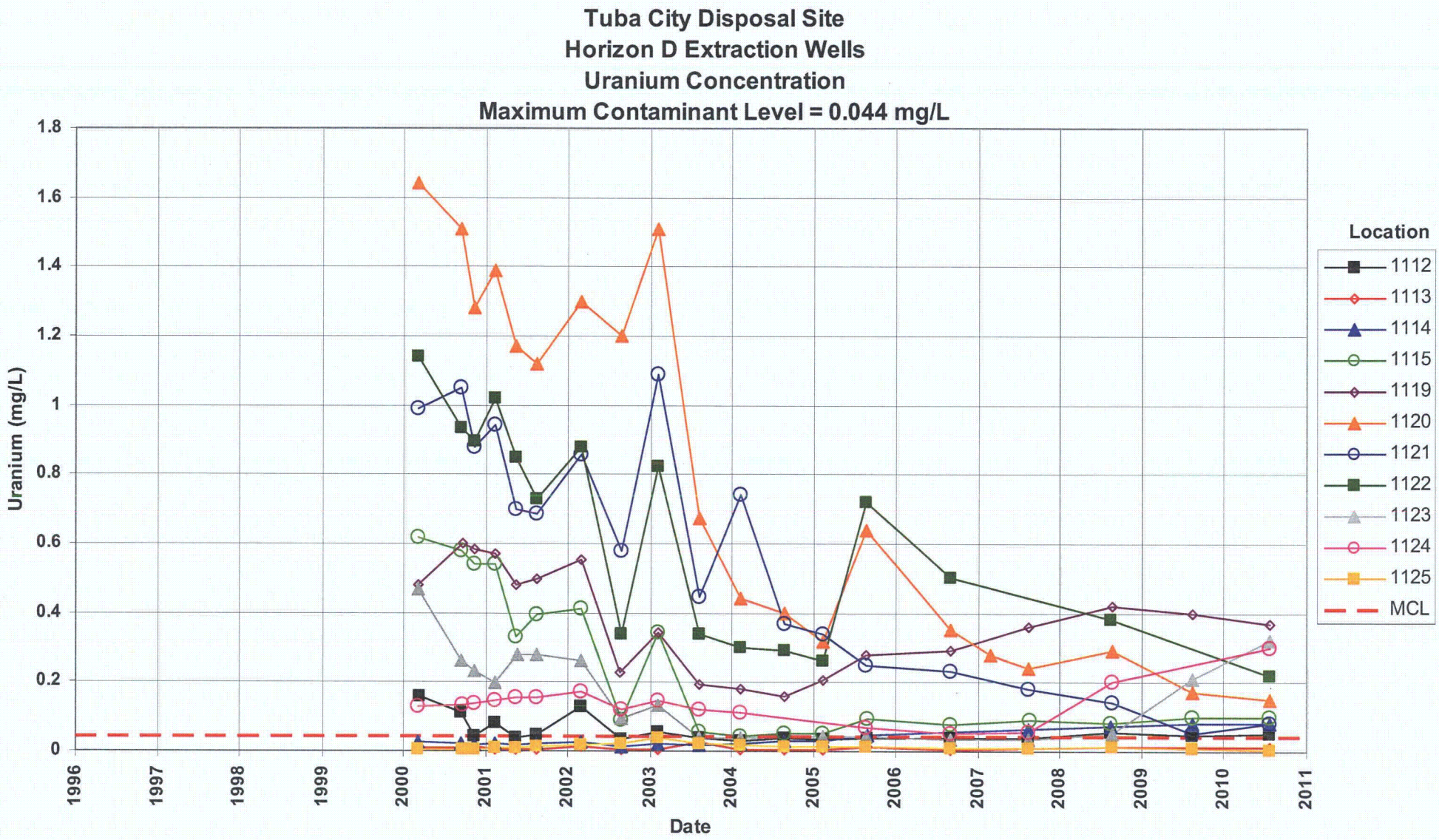

Tuba City Disposal Site
Horizon D Extraction Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
350
300
250
200
150
100
50
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
1111
MCL


Tuba City Disposal Site
Horizon D Extraction Wells
Nitrate + Nitrite as Nitrogen Concentration
Maximum Contaminant Level = 10.0 mg/L
Nitrate + Nitrite as Nitrogen (mg/L)
300
250
200
150
100
50
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
1112
1113
1114
1115
1119
1120
1121
1122
1123
1124
1125
MCL


Tuba City Disposal Site
Horizon D Extraction Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
4000
3500
3000
2500
2000
1500
1000
500
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
1111
CL


Tuba City Disposal Site
Horizon D Extraction Wells
Sulfate Concentration
Cleanup Level = 250 mg/L
Sulfate (mg/L)
3500
3000
2500
2000
1500
1000
500
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
1112
1113
1114
1115
1119
1120
1121
1122
1123
1124
1125
CL


Tuba City Disposal Site
Horizon D Extraction Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
3
2.5
2
1.5
1
0.5
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
Date
Location
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
1111
MCL


Tuba City Disposal Site
Horizon D Extraction Wells
Uranium Concentration
Maximum Contaminant Level = 0.044 mg/L
Uranium (mg/L)
1.8
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
Date
Location
1112
1113
1114
1115
1119
1120
1121
1122
1123
1124
1125
MCL

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Attachment 3
Sampling and Analysis Work Order

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Stoller

established 1959

Task Order LM00-501
Control Number 10-0727

July 1, 2010

U.S. Department of Energy
Office of Legacy Management
ATTN: Richard Bush
Site Manager
2597 B ¾ Road
Grand Junction, CO 81503

SUBJECT: Contract No. DE-AM01-07LM00060, S.M. Stoller Corporation (Stoller)
July 2010 Environmental Sampling at Tuba City, Arizona

REFERENCE: Task Order LM00-501-02-122-402, Tuba City, AZ

Dear Mr. Bush:

The purpose of this letter is to inform you of the upcoming sampling event at Tuba City, Arizona. Enclosed are the map and tables specifying sample locations and analytes for monitoring at the Tuba City disposal 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 July 19, 2010.

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

*NOTE: Al = alluvium; Na = Navajo sandstone

The S.M. Stoller Corporation 2597 B ¾ Road Grand Junction, CO 81503 (970) 248-6000 Fax: (970) 248-6040

Surface locations

759 778 965 1569 1570 1571 1573

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 (970) 248-6568 if you have any questions or concerns.

Sincerely,

Carl Jacobson
Site Lead

CJ/lcg/lb

Enclosures (3)

cc: (electronic)
Steve Donivan, Stoller
Lauren Goodknight, Stoller
Carl Jacobson, Stoller
EDD Delivery
re-grand.junction

Sampling Frequencies for Locations at Tuba City, Arizona

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Monitoring Wells						
000I					X	Water level only
000J					X	Water level only
000M					X	Water level only
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	Water level only
285					X	Water level only
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
901			X			August
902					X	Water level only
903			X			August
904			X			August

Sampling Frequencies for Locations at Tuba City, Arizona

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Monitoring Wells						
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	Water level only
918					X	Water level only
919					X	Water level only
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	Water level only
968					X	Water level only
970					X	Water level only
971					X	Water level only
972					X	Water level only
1003			X			August
1004			X			August
1005					X	Water level only
1006			X			August
1007			X			August
1008					X	Water level only
1101			X			August
1102			X			August
1103			X			August
1104			X			August
1105			X			August
1106			X			August
1107			X			August
1108			X			August
1109			X			August

Sampling Frequencies for Locations at Tuba City, Arizona

Location ID	Quarterly	Semiannually	Annually	Biennially	Not Sampled	Notes
Monitoring Wells						
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
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
1572					X	Jimmy Spr East
1573			X			West pipe Shonto Well - August
1574					X	East pipe Shonto Well

Semi-annual sampling conducted in February and August; Annual sampling conducted in August.

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 (NH3-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 (NO3+NO2)-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			

Note: All analyte samples are considered unfiltered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

Attachment 4
Trip Report

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Stoller

Grand Junction Office

established 1959

Memorandum

Control Number N/A

DATE: August 5, 2010

TO: Carl Jacobson

FROM: Dan Sellers

SUBJECT: Trip Report

Site: Tuba City, AZ.

Date of Sampling Event: July 19-23, 2010

Team Members: Jeff Price, Joe Trevino, Dave Atkinson, Kent Moe, Jeff Walters, and Dan Sellers.

Number of Locations Sampled: 101 monitoring/extraction wells, 4 surface water locations, and 6 duplicates were collected. All monitoring and extraction wells were sampled for As, Ca, Fe, Mg, Mn, Mo, K, Se, Na, U, SiO_2, Cl, SO_4, (NO_3+NO_2)-N, $(NH_3$-N), and TDS. All surface water locations were sampled for As, Ca, Fe, Mg, Mn, Mo, K, Se, Na, U, Cl, SO_4, (NO_3+NO_2)-N, and TDS.

Locations Not Sampled/Reason: Well 0283 did not have enough water to sample. Extraction wells 1126, 1127, 1128, and 1131 were not operational. Surface locations 0759, 0778, and 0965 (stream bed) were dry.

Location Specific Information: Well 0282 was purged to below top of pump, pump depth measured at 84.70 feet. A water level could not be obtained from well 1103; the sounder kept getting hung up in the well.

All samples were shipped to ALS Laboratory Group via Fed-Ex. The first shipment was sent from Tuba City on July 21, 2010, and the second shipment on July 23, 2010.

Field Variance: Well 0940 parameters were not taken due to insufficient water. Samples were collected. The water level was not measured at well 1121 – did not want to get the WL meter caught in the well.

Requisition Numbers Assigned: All samples were assigned to requisition identification number (RIN) 10073213.

Quality Control Sample Cross Reference: Following are the false identifications assigned to the quality control samples:

False ID	True ID	Sample Type	Matrix	Ticket Number
2987	0686	Duplicate	Groundwater	IIY 707
2988	1118	Duplicate	Groundwater	IIY 708
2989	1117	Duplicate	Groundwater	IIY 709
2990	1120	Duplicate	Groundwater	IIY 710
2991	0272	Duplicate	Groundwater	IIY 711
2532	1570	Duplicate	Surface Water	IIY 716

Water Level Measurements: Water levels were measured at all sampled monitoring wells. Additional water levels were recorded at wells not sampled.

Well Inspection Summary: All wells were in good condition.

Equipment: All wells are equipped with either dedicated downhole and pumphead tubing or a bladder pump. Extraction wells are spigot samples. Surface water samples were collected using a peristaltic pump with new pump head tubing.

Dataloggers: Dataloggers were downloaded and checked for accuracy at the following locations: 0263, 0286, 0287, 0908, 0934, 0943, and 0946.

At well 0286, water level (WL) increased ~2.0 feet in 3 hours on July 20, 2010. Returned in two days to re-measure and compare WL to last reading of device. On July 22, 2010, the manual WL obtained at 1030 a.m. was 70.10; the transducer reading at 0800 was 70.10. The transducer is considered fully operational and a determination was made that the WL had fluctuated greatly within two days after the water treatment system was shut off. The water level rose ~12.0 feet in 48 hours.

At well 0287, the WL decreased ~1.0 foot in 3 hours. The transducer is considered be functioning and a determination was made that the WL had fluctuated within 2 days. The water level decreased ~3.0 feet in 48 hours. The WL on July 18, 2010, was recorded at 61.25 feet and at 64.57 feet on July 20, 2010.

Regulatory: N/A

Institutional Controls

Fences, Gates, Locks: All were OK.
Signs: All appeared OK.
Trespassing/Site Disturbances: None observed.

Site Issues: None observed.

Disposal Cell/Drainage Structure Integrity: N/A
Vegetation/Noxious Weed Concerns: N/A
Maintenance Requirements: N/A
Safety Issues: None.

Corrective Action Required/Taken: None.

(DLS/leg)

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

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