

Data Validation Package

**October 2009
Groundwater and Surface Water
Sampling at the
Monticello, Utah, Mill Tailings Site**

January 2010

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Sampling Event Summary

Site: Monticello, Utah, Mill Tailings Site

Sampling Period: October 5-8, 2009

This semiannual event includes sampling groundwater and surface water at the Monticello Mill Tailings Site. Sampling and analysis were conducted as specified in *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites* (LMS/PLN/S04351, continually updated). Duplicate samples were collected from locations SW97-03, 92-08, P92-06, and MW00-06.

Samples were collected from 32 monitor wells, 9 PeRT wells, 4 seeps, and 11 surface water locations as specified in the 2004 *Monticello Mill Tailings Site Operable Unit III Post-Record of Decision Monitoring Plan*. Fourteen additional surface water samples were collected as specified in Program Directive MNT-2010-01. Water levels were measured at each sampled well and an additional set of wells.

The contaminants of concern (COCs) for the Monticello Mill Tailings Site are arsenic, manganese, molybdenum, nitrate + nitrite as nitrogen, selenium, uranium, and vanadium. Wells with COCs that exceeded remediation goals are listed in Table 1. Surface water locations with COCs that exceeded remediation goals are listed in Table 2. Time-concentration graphs of the COCs for all groundwater and surface water locations are included in this report.

Table 1. Monticello Groundwater Locations that Exceed Remediation Goals

Analyte	Remediation Goal ^a (mg/L)	Location	Concentration (mg/L)
Arsenic	0.01	88-85	0.013
Arsenic	0.01	92-11	0.017
Arsenic	0.01	R1-M3	0.014
Arsenic	0.01	T01-02	0.022
Arsenic	0.01	T01-04	0.015
Arsenic	0.01	T01-05	0.015
Arsenic	0.01	T01-19	0.012
Arsenic	0.01	T01-25	0.011
Manganese	0.88	R10-M1	1.1
Manganese	0.88	R6-M3	1.3
Manganese	0.88	T01-18	1.8
Manganese	0.88	T01-19	4.6
Manganese	0.88	T01-20	9.3
Manganese	0.88	T01-25	5.5
Molybdenum	0.1	92-07	0.110
Molybdenum	0.1	PW-17	0.120
Nitrate + Nitrite as N	10	T01-18	25
Selenium	0.05	T01-18	0.066

Table 1 (continued). Monticello Groundwater Locations that Exceed Remediation Goals

Analyte	Remediation Goal ^a (mg/L)	Location	Concentration (mg/L)
Uranium	0.03	0200	0.260
Uranium	0.03	0202	0.180
Uranium	0.03	88-85	0.240
Uranium	0.03	92-07	0.96
Uranium	0.03	92-08	0.33
Uranium	0.03	92-09	0.33
Uranium	0.03	92-11	0.18
Uranium	0.03	MW00-06	0.76
Uranium	0.03	MW00-07	0.46
Uranium	0.03	P92-06	0.69
Uranium	0.03	PW-10	0.95
Uranium	0.03	PW-17	1.10
Uranium	0.03	PW-28	0.18
Uranium	0.03	R1-M3	0.60
Uranium	0.03	R1-M4	0.54
Uranium	0.03	R3-M2	0.48
Uranium	0.03	R3-M3	0.31
Uranium	0.03	R6-M3	0.04
Uranium	0.03	T00-01	0.12
Uranium	0.03	T01-02	0.18
Uranium	0.03	T01-04	0.14
Uranium	0.03	T01-05	0.13
Uranium	0.03	T01-07	0.15
Uranium	0.03	T01-12	0.17
Uranium	0.03	T01-18	0.56
Uranium	0.03	T01-19	0.10
Uranium	0.03	T01-20	0.59
Uranium	0.03	T01-23	0.03
Uranium	0.03	T01-35	0.11
Vanadium	0.33	88-85	0.39
Vanadium	0.33	92-07	0.37
Vanadium	0.33	92-11	0.49
Vanadium	0.33	R1-M3	0.41
Vanadium	0.33	T01-02	0.52
Vanadium	0.33	T01-04	0.36

^aRemediation Goal from Record of Decision for the Monticello Mill Tailings Site, Operable Unit III – Surface Water and Groundwater, Monticello, Utah, May 2004. Concentrations are expressed in milligrams per liter (mg/L).

Table 2. Monticello Surface Water Locations that Exceed Remediation Goals

Analyte	Remediation Goal ^a (mg/L)	Location	Concentration (mg/L)
Arsenic	0.01	Seep 2	0.023
Nitrate + Nitrite as N	4	Seep 3	33
Nitrate + Nitrite as N	4	Seep 6	14
Selenium	0.005	Seep 2	0.029
Selenium	0.005	Seep 3	0.055
Selenium	0.005	Seep 6	0.040
Selenium	0.005	Sorenson	0.015
Selenium	0.005	SW00-04	0.009
Selenium	0.005	SW10-01	0.017
Selenium	0.005	SW10-02	0.020
Selenium	0.005	SW10-03	0.019
Selenium	0.005	SW10-04	0.012
Selenium	0.005	SW10-05	0.007
Selenium	0.005	SW10-06	0.007
Selenium	0.005	SW10-07	0.007
Selenium	0.005	SW92-08	0.007
Selenium	0.005	SW92-09	0.007
Selenium	0.005	SW94-01	0.006
Selenium	0.005	SW97-01	0.016
Selenium	0.005	SW97-02	0.009
Selenium	0.005	SW97-03	0.008
Selenium	0.005	SW97-05	0.007
Selenium	0.005	W3-03	0.006
Selenium	0.005	W3-04	0.007
Uranium	0.044	Seep 2	0.22
Uranium	0.044	Seep 6	2
Uranium	0.044	Sorenson	0.30
Uranium	0.044	SW00-04	0.21
Uranium	0.044	SW10-01	0.43
Uranium	0.044	SW10-02	0.36
Uranium	0.044	SW10-03	0.35
Uranium	0.044	SW10-04	0.24
Uranium	0.044	SW10-05	0.18
Uranium	0.044	SW10-07	0.18
Uranium	0.044	SW92-06	0.13
Uranium	0.044	SW92-08	0.18
Uranium	0.044	SW92-09	0.18
Uranium	0.044	SW94-01	0.17
Uranium	0.044	SW97-01	0.31
Uranium	0.044	SW97-02	0.21
Uranium	0.044	SW97-03	0.19
Uranium	0.044	SW97-05	0.19
Uranium	0.044	W3-03	0.18
Uranium	0.044	W3-04	0.19

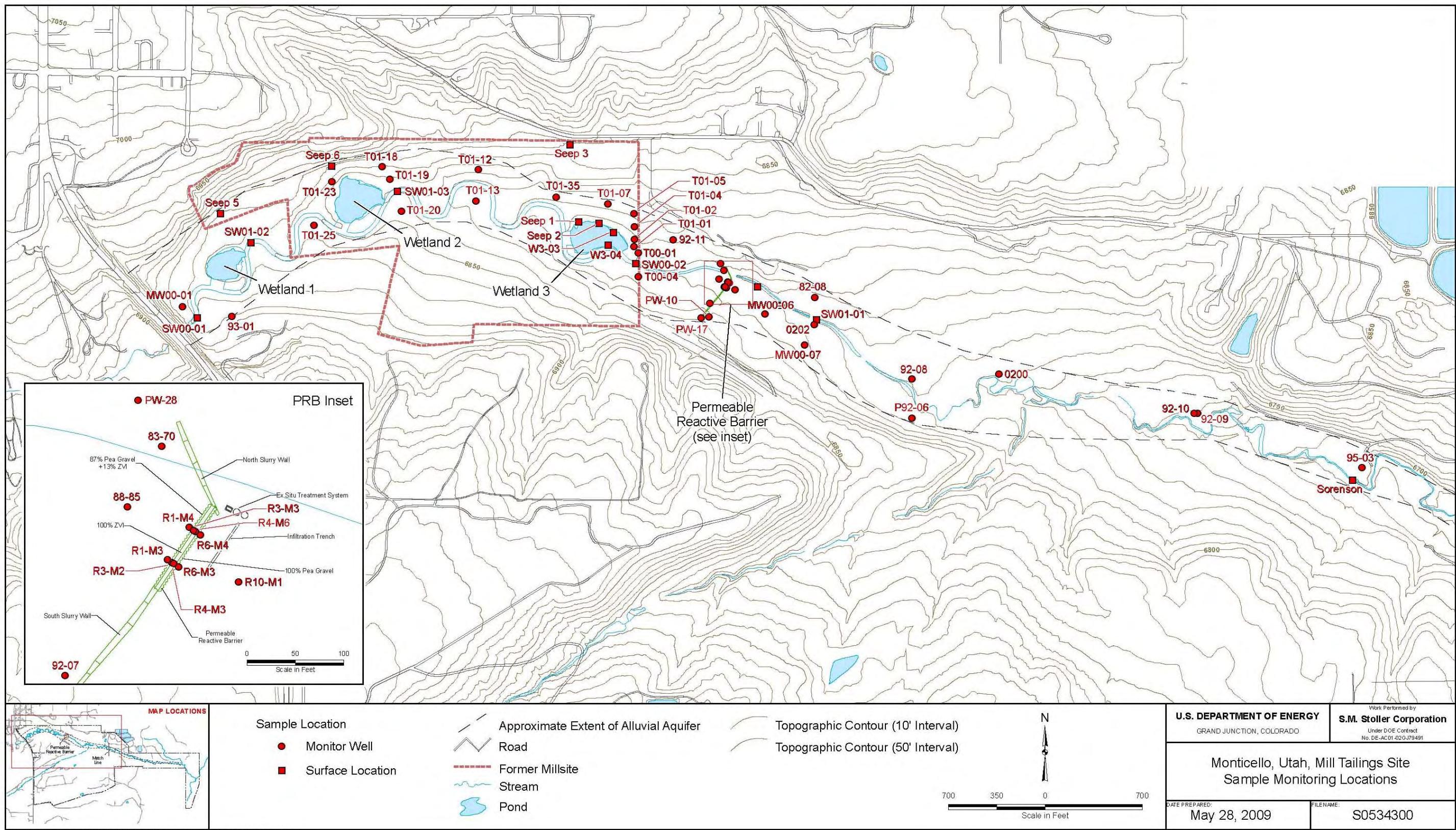
^aRemediation Goal from *Record of Decision for the Monticello Mill Tailings Site, Operable Unit III – Surface Water and Groundwater, Monticello, Utah*, May 2004. Concentrations are expressed in mg/L.

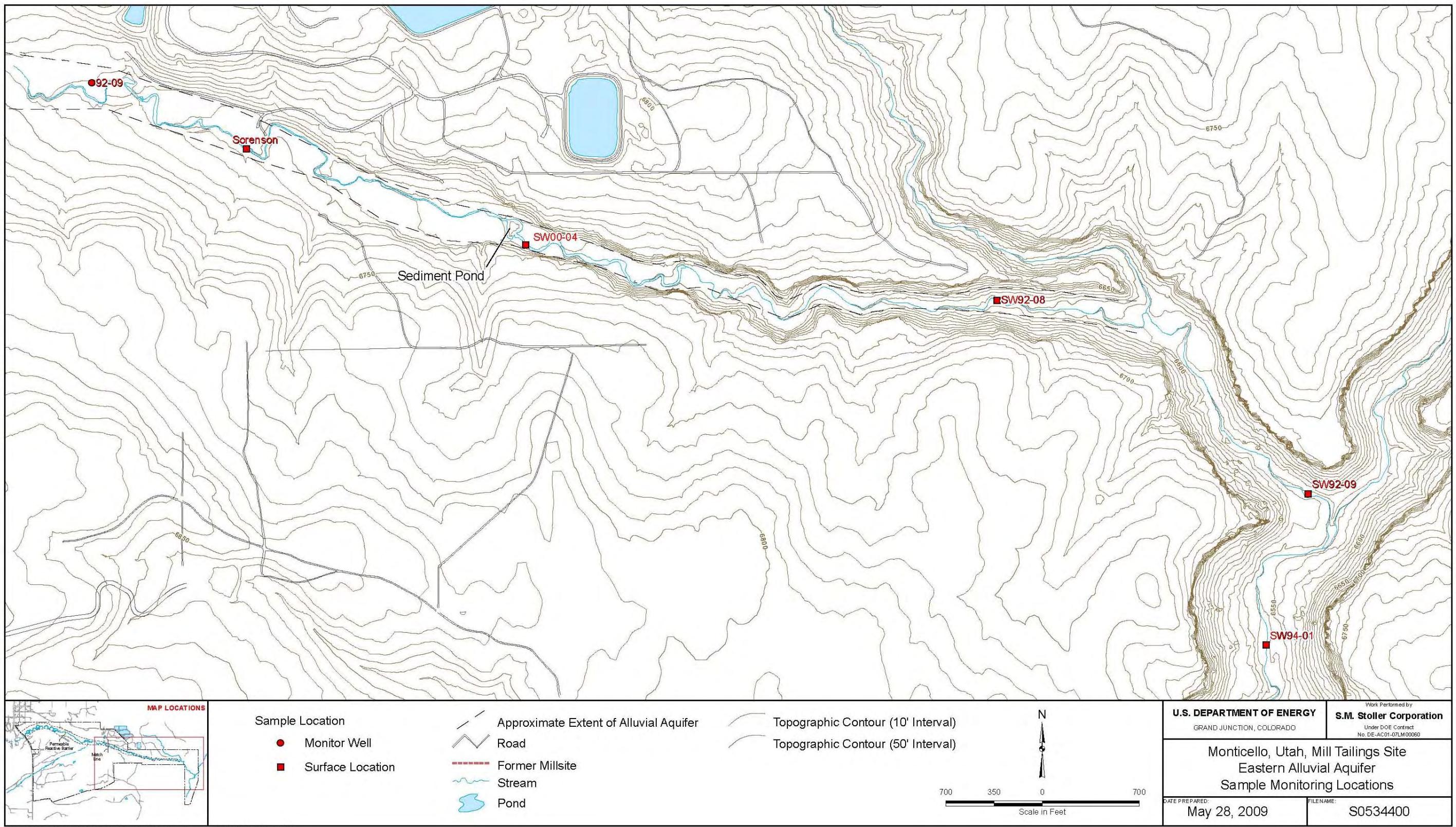
Tim Bartlett

Tim Bartlett
Site Hydrologist, S.M. Stoller

1/19/10

Date





Eastern Alluvial Aquifer Sample Monitoring Locations

Data Assessment Summary

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Water Sampling Field Activities Verification Checklist

Project	Monticello, Utah	Date(s) of Water Sampling	October 5-8, 2009
Date(s) of Verification	December 18, 2009	Name of Verifier	Steve Donivan
Response (Yes, No, NA)			
Comments			
<p>1. Is the SAP the primary document directing field procedures? List other documents, SOPs, instructions.</p>			
Yes <hr/> Work Order Letter dated September 2, 2009.			
<p>2. Were the sampling locations specified in the planning documents sampled?</p>			
No <hr/> Wells T00-01 and T00-04 were dry. Surface water locations SW00-01, SW00-02, and Seep 1 were dry.			
<p>3. Was a pre-trip calibration conducted as specified in the above-named documents?</p>			
Yes <hr/> Pre-trip calibration was performed on October 2, 2009.			
<p>4. Was an operational check of the field equipment conducted daily? Did the operational checks meet criteria?</p>			
Yes <hr/> Yes			
<p>5. Were the number and types (alkalinity, temperature, specific conductance, pH, turbidity, DO, ORP) of field measurements taken as specified?</p>			
No <hr/> Not all measurements were made at all locations because of limited sample volume available.			
<p>6. Was the category of the well documented?</p>			
Yes <hr/> Yes			
<p>7. Were the following conditions met when purging a Category I well: Was one pump/tubing volume purged prior to sampling? Did the water level stabilize prior to sampling? Did pH, specific conductance, and turbidity measurements stabilize prior to sampling? Was the flow rate less than 500 mL/min? If a portable pump was used, was there a 4-hour delay between pump installation and sampling?</p>			
Yes <hr/> No <hr/> No <hr/> No <hr/> NA			
Water level did not stabilize at well 92-09. <hr/> Criteria were not met at wells 0200 and 82-08. <hr/> Flow rate was greater than 500 ml/min at wells 92-09 and 95-03.			

Water Sampling Field Activities Verification Checklist (continued)

	<u>Response (Yes, No, NA)</u>	<u>Comments</u>
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	Four duplicate samples were collected.
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment?	Yes	
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 (FDGS) report?	Yes	
13. Were samples collected in the containers specified?	Yes	
14. Were samples filtered and preserved as specified?	Yes	The chloride, fluoride, sulfate aliquot for sample T01-18 was incorrectly preserved. The nitrate+nitrite as N and metals aliquots from this location were preserved correctly.
15. Were the number and types of samples collected as specified?	Yes	There was insufficient sample volume at some wells for all analyses.
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 (FDGS)?	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	

Laboratory Performance Assessment

General Information

Report Number (RIN): 09092614
Sample Event: October 5-8, 2009
Site(s): Monticello, Utah
Laboratory: ALS Laboratory Group, Fort Collins, Colorado
Work Order No.: 0910117
Analysis: Metals and Wet Chemistry
Validator: Steve Donivan
Review Date: December 17, 2009

This validation was performed according to the *Environmental Procedures Catalog*, (LMS/PRO/S04325, continually updated) "Standard Practice for Validation of Laboratory Data," GT-9(P). 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 3.

Table 3. Analytes and Methods

Analyte	Line Item Code	Prep Method	Analytical Method
Arsenic, Molybdenum, Selenium, Uranium, Vanadium	LMM-02	SW-846 3005A	SW-846 6020A
Calcium, Iron, Magnesium, Manganese, Potassium, Sodium	LMM-01	SW-846 3005A	SW-846 6010B
Chloride	MIS-A-039	SW-846 9056	SW-846 9056
Fluoride	MIS-A-040	SW-846 9056	SW-846 9056
Nitrate + Nitrite 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 160.2	MCAWW 160.2

Data Qualifier Summary

Analytical results were qualified as listed in Table 4. Refer to the sections below for an explanation of the data qualifiers applied.

Table 4. Data Qualifier Summary

Sample Number	Location	Analyte(s)	Flag	Reason
All	All	Calcium	J	Serial dilution failures
All	All	Potassium	J	Matrix spike and serial dilution failures
All	All	Sodium	J	Serial dilution failures
0910117-1	0200	Vanadium	J	Less than 5 times the equipment blank
0910117-3	P92-06 Duplicate	Iron	U	Less than 5 times the calibration blank
0910117-5	SW97-03 Duplicate	Iron	U	Less than 5 times the calibration blank

Table 4 (continued). Data Qualifier Summary

Sample Number	Location	Analyte(s)	Flag	Reason
0910117-6	Equipment Blank	Molybdenum	U	Less than 5 times the calibration blank
0910117-6	Equipment Blank	Uranium	U	Less than 5 times the calibration blank
0910117-7	MW00-06 Duplicate	Iron	U	Less than 5 times the calibration blank
0910117-8	Equipment Blank	Molybdenum	U	Less than 5 times the calibration blank
0910117-8	Equipment Blank	Uranium	U	Less than 5 times the calibration blank
0910117-9	Equipment Blank	Molybdenum	U	Less than 5 times the calibration blank
0910117-9	Equipment Blank	Uranium	U	Less than 5 times the calibration blank
0910117-10	82-08	Iron	U	Less than 5 times the calibration blank
0910117-15	92-09	Vanadium	J	Less than 5 times the equipment blank
0910117-18	93-01	Iron	U	Less than 5 times the calibration blank
0910117-18	93-01	Molybdenum	U	Less than 5 times the calibration blank
0910117-18	93-01	Vanadium	J	Less than 5 times the equipment blank
0910117-19	95-01	Vanadium	J	Less than 5 times the equipment blank
0910117-21	MW00-01	Vanadium	J	Less than 5 times the equipment blank
0910117-22	MW00-06	Nitrate	R	Contaminated sample
0910117-23	MW00-07	Iron	U	Less than 5 times the calibration blank
0910117-24	P92-06	Vanadium	J	Less than 5 times the equipment blank
0910117-29	R1-M3	Iron	U	Less than 5 times the calibration blank
0910117-30	R1-M4	Iron	U	Less than 5 times the calibration blank
0910117-32	R3-M3	Vanadium	J	Less than 5 times the equipment blank
0910117-33	R4-M3	Arsenic	U	Less than 5 times the calibration blank
0910117-33	R4-M3	Vanadium	J	Less than 5 times the equipment blank
0910117-34	R4-M3	Arsenic	U	Less than 5 times the calibration blank
0910117-34	R4-M3	Uranium	U	Less than 5 times the calibration blank
0910117-34	R4-M3	Vanadium	J	Less than 5 times the equipment blank
0910117-50	SW10-05	Iron	U	Less than 5 times the calibration blank
0910117-41	Sorenson	Nitrate	J	Matrix spike failure
0910117-51	SW10-07	Iron	U	Less than 5 times the calibration blank
0910117-53	SW92-08	Iron	U	Less than 5 times the calibration blank
0910117-54	SW92-09	Iron	U	Less than 5 times the calibration blank
0910117-55	SW94-01	Iron	U	Less than 5 times the calibration blank
0910117-56	SW97-01	Iron	U	Less than 5 times the calibration blank
0910117-57	SW97-02	Iron	U	Less than 5 times the calibration blank
0910117-58	SW97-03	Iron	U	Less than 5 times the calibration blank
0910117-59	SW97-05	Iron	U	Less than 5 times the calibration blank
0910117-63	T01-05	Iron	U	Less than 5 times the calibration blank
0910117-64	T01-07	Iron	U	Less than 5 times the calibration blank
0910117-66	T01-18	Vanadium	J	Less than 5 times the equipment blank
0910117-69	T01-23	Arsenic	U	Less than 5 times the calibration blank
0910117-69	T01-23	Vanadium	J	Less than 5 times the equipment blank
0910117-70	T01-25	Vanadium	J	Less than 5 times the equipment blank
0910117-74	SW10-06	Iron	U	Less than 5 times the calibration blank

Sample Shipping/Receiving

ALS Laboratory Group in Fort Collins, Colorado, received 74 water samples on October 10, 2009, accompanied by a Chain of Custody (COC) form. Copies of the three air bills were included in the receiving documentation. The COC form was 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 COC form was complete with no errors or omissions with the following exceptions. Only page one of the COC form had a Relinquished By signature. The sample date and time on four of the sample bottles was incorrectly entered. The date and time recorded on the COC form was correct, automatically updated from the Field Data Collection System, and used for sample login.

Preservation and Holding Times

The sample shipment was received intact with the temperature inside the iced coolers at 0.6 °C and 1.6 °C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses with the following exception. The sample aliquot submitted for the determination of chloride, fluoride, and sulfate for sample T01-18 should not have been acidified but was received with a pH of 1.0 while the pH at the time of sample collection was 6.7. It was assumed that this aliquot was inadvertently acidified and the chloride, fluoride, and sulfate analysis for this sample was cancelled. The nitrate+nitrite and metals aliquots from this location were preserved correctly. All samples were analyzed within the applicable holding times. For this project, the holding time for total dissolved solids is 14-days.

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 160.2

There are no initial or continuing calibration requirements associated with the determination of TDS.

Method MCAWW 353.2

Calibrations for nitrate + nitrite as N were performed using seven calibration standards on October 20, 2009. 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 16 verification checks. All calibration check results were within the acceptance criteria.

Method SW-846 6010B

Calibrations for calcium, iron, magnesium, manganese, potassium, and sodium were performed on October 21, 2009, using single point calibrations. Calibration and laboratory spike standards were prepared from independent sources. Initial and continuing calibration verification checks were made at the required frequency resulting in 19 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 practical quantitation limit (PQL) and all results were within the acceptance range.

Method SW-846 6020A

Calibrations were performed for arsenic and selenium on October 28, 2009, and for molybdenum, uranium, and vanadium on October 27, 2009, using seven calibration standards. The calibration curve correlation coefficient values were greater than 0.995. The absolute values of the calibration curve 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 12 verification checks for arsenic and selenium and 14 checks for molybdenum, uranium, and vanadium. 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. 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, fluoride, and sulfate were performed using five calibration standards on October 19 – 21, and October 28, 2009. 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 31 verification checks. Several continuing calibration checks for one or more analytes exceeded the acceptance criteria. All associated sample results were re-run with acceptable calibration checks.

Method and Calibration Blanks

Method blanks are analyzed to assess any contamination that may have occurred during sample preparation. Methods without sample preparation do not require the analysis of a method blank. Calibration blanks are analyzed to assess instrument contamination prior to and during sample analysis.

Metals

All method blank and calibration blank results associated with the samples were below the PQL for all analytes. In cases where a blank concentration exceeds the MDL, the associated sample results are qualified with a “U” flag (not detected) when the sample result is greater than the MDL but less than 5 times the blank concentration. For calcium, magnesium, and manganese, some blank results were negative and the absolute values were greater than the MDL. All associated sample results were greater than 5 times the MDL, not requiring qualification.

Wet Chemistry

All method blank results associated with the samples were below the PQL with the following exceptions. Several continuing calibration blanks for one or more analytes exceeded the acceptance criteria. All associated sample results were either greater than 5 times the blank concentrations or re-run with acceptable calibration blanks.

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 spikes met the recovery and precision criteria for all analytes evaluated with the following exceptions.

The recoveries for all four potassium spikes were above the acceptance range, which indicate systematic matrix interference. All potassium results are qualified with a “J” flag as estimated values.

The recoveries for the MS/MSD nitrate spikes for sample 0910117-41 were above the acceptance range. The associated sample result is qualified with a “J” flag as an estimated value.

Laboratory Replicate Analysis

Laboratory replicate sample results demonstrate acceptable laboratory precision. The relative percent difference values for the sample replicates and matrix spike replicates were less than 20 percent for results that are greater than 5 times the PQL, indicating acceptable 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. Methods without sample preparation do not require the analysis of a laboratory control sample. All control sample results were acceptable.

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 100 times the PQL for ICP-MS or greater than 50 times the PQL for ICP. The relative percent difference for most calcium, potassium, and sodium dilutions were above the acceptance range, which may indicate systematic matrix interference; the associated results are qualified with a “J” flag (estimated).

Detection Limits/Dilutions

Samples were diluted in a consistent and acceptable manner when required. The samples were diluted prior to analysis of molybdenum, uranium, and vanadium to reduce interferences. The required detection limits were met 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. All peak integrations were satisfactory.

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 5 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 ten percent is considered acceptable. For several locations, there were insufficient data to perform the calculation. The charge balances at these locations are therefore not available. With the exception of four locations, the charge balance differences were below ten percent. The laboratory was requested to re-analyze chloride and sulfate for sample T01-07 because a possible laboratory error was indicated. The use of the revised data reduced the charge balance to less than 10 percent. There were no other errors noted when the data were further reviewed.

Table 5. Cation/Anion Balance

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
0200	35.10	37.23	2.94
0202	Insufficient data		NA
82-08	36.05	34.06	2.84
83-70	6.17	6.37	1.62
88-85	27.81	26.45	2.50
92-07	23.40	20.17	7.41
92-08	27.92	26.36	2.87
92-09	37.27	37.94	0.89
92-10	9.40	9.78	2.00
92-11	27.17	25.59	3.00
93-01	7.52	8.72	7.42
95-01	5.72	6.26	4.52
95-03	15.91	16.40	1.50

Table 5 (continued). Cation/Anion Balance

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
MW00-01	24.81	22.18	5.59
MW00-06	23.25	23.08	0.37
MW00-07	26.26	25.18	2.09
P92-06	35.35	33.20	3.14
PW-10	24.38	24.33	0.10
PW-17	24.41	24.60	0.39
PW-28	30.69	29.76	1.54
R10-M1	18.60	18.02	1.59
R1-M3	23.74	21.79	4.28
R1-M4	23.72	22.40	2.87
R3-M2	22.69	22.21	1.06
R3-M3	21.69	28.35	13.30
R4-M3	Insufficient data		NA
R4-M6	6.78	9.08	14.53
R6-M3	Insufficient data		NA
R6-M4	10.30	9.08	6.25
Seep 2	25.01	23.39	3.36
Seep 3	45.21	45.71	0.56
Seep 5	12.02	11.21	3.48
Seep 6	52.27	54.76	2.33
Sorenson	29.82	29.00	1.39
SW00-04	23.77	23.71	0.13
SW01-01	24.91	24.89	0.03
SW01-02	30.02	27.12	5.08
SW01-03	22.84	20.40	5.64
SW10-01	35.71	33.37	3.39
SW10-02	27.14	28.29	2.06
SW10-03	27.81	27.30	0.93
SW10-04	26.03	24.82	2.38
SW10-05	22.28	21.36	2.10
SW10-06	21.67	21.19	1.11
SW10-07	21.17	21.49	0.75
SW92-06	22.69	23.66	2.09
SW92-08	22.33	21.77	1.27
SW92-09	21.67	21.42	0.57
SW94-01	21.76	22.41	1.48
SW97-01	29.93	28.65	2.19
SW97-02	22.43	23.34	1.99
SW97-03	21.74	23.28	3.42
SW97-05	21.75	27.44	11.57
T00-01	16.51	16.76	0.77
T01-02	24.60	23.22	2.88
T01-04	26.55	24.37	4.29
T01-05	25.85	25.44	0.81
T01-07	36.11	15.67	39.47
T01-07 re-analysis	36.11	31.17	7.34

Table 5 (continued). Cation/Anion Balance

Location	Cations (meq/L)	Anions (meq/L)	Charge Balance (%)
T01-12	30.22	29.38	1.42
T01-18	Insufficient data		NA
T01-19	Insufficient data		NA
T01-20	50.90	43.01	8.40
T01-23	18.82	17.72	2.99
T01-25	38.50	38.29	0.27
T01-35	29.41	26.00	6.14
W3-03	24.75	22.47	4.82
W3-04	24.94	23.95	2.04

Electronic Data Deliverable (EDD) File

The revised EDD file arrived on January 5, 2010. 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.

SAMPLE MANAGEMENT SYSTEM

General Data Validation Report

RIN: 09092614 Lab Code: PAR Validator: Steve Donivan Validation Date: 12/4/2009
Project: Monticello Monitoring Analysis Type: Metals General Chem Rad Organics
of Samples: 74 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
- Detection Limits
- Field/Trip Blanks
- Field Duplicates

All analyses were completed within the applicable holding times.

The reported detection limits are equal to or below contract requirements.

There were 3 trip/equipment blanks evaluated.

There were 4 duplicates evaluated.

SAMPLE MANAGEMENT SYSTEM

Page 1 of 3

Metals Data Validation Worksheet

RIN: 09092614

Lab Code: PAR

Date Due: 11/7/2009

Matrix: Water

Site Code: MNT

Date Completed: 11/13/2009

Analyte	Date Analyzed	CALIBRATION					Method	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB	Blank						
ARSENIC	10/28/2009	0.0000	1.0000	OK	OK	OK	OK	99.0	102.0	102.0	0.0	97.0		111.0
ARSENIC	10/28/2009							OK	98.0	96.0	98.0	1.0		
ARSENIC	10/28/2009							OK	99.0	98.0	99.0	1.0		
ARSENIC	10/28/2009							OK	99.0	98.0	100.0	1.0		
CALCIUM	10/21/2009			OK	OK	OK	OK		95.0	83.0	1.0	109.0	15.0	103.0
CALCIUM	10/21/2009								53.0	78.0	3.0	110.0	12.0	103.0
CALCIUM	10/21/2009								89.0	81.0	1.0	108.0	13.0	100.0
CALCIUM	10/21/2009								106.0	100.0	1.0		15.0	
IRON	10/21/2009			OK	OK	OK	OK		105.0	99.0	6.0	108.0		99.0
IRON	10/21/2009								97.0	98.0	0.0	108.0		97.0
IRON	10/21/2009								97.0	97.0	0.0	105.0		94.0
IRON	10/21/2009								111.0	113.0	3.0			
MAGNESIUM	10/21/2009			OK	OK	OK	OK		118.0	113.0	2.0	110.0	10.0	101.0
MAGNESIUM	10/21/2009								101.0	110.0	4.0	110.0	4.0	101.0
MAGNESIUM	10/21/2009								112.0	111.0	0.0	109.0	8.0	97.0
MAGNESIUM	10/21/2009								119.0	113.0	1.0			
MANGANESE	10/21/2009			OK	OK	OK	OK		107.0	101.0	6.0	98.0		101.0
MANGANESE	10/21/2009								99.0	99.0	0.0	97.0		101.0

SAMPLE MANAGEMENT SYSTEM

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Metals Data Validation Worksheet

RIN: 09092614

Lab Code: PAR

Date Due: 11/7/2009

Matrix: Water

Site Code: MNT

Date Completed: 11/13/2009

Analyte	Date Analyzed	CALIBRATION						Method	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB								
MANGANESE	10/21/2009								96.0	95.0	1.0	95.0			98.0
MANGANESE	10/21/2009								112.0	115.0	2.0				
MOLYBDENUM	10/27/2009	0.0000	1.0000	OK	OK	OK	OK		109.0	114.0	2.0	113.0	4.0	106.0	
MOLYBDENUM	10/27/2009								104.0	104.0	0.0				
MOLYBDENUM	10/27/2009								103.0	104.0	1.0				
MOLYBDENUM	10/27/2009								103.0	102.0	1.0				
POTASSIUM	10/21/2009			OK	OK	OK	OK		134.0	131.0	2.0		54.0	77.0	
POTASSIUM	10/21/2009								126.0	132.0	4.0		53.0	76.0	
POTASSIUM	10/21/2009								141.0	142.0	1.0		47.0	72.0	
POTASSIUM	10/21/2009								158.0	156.0	1.0				
SELENIUM	10/28/2009							OK	98.0	91.0	91.0	1.0	96.0		104.0
SELENIUM	10/28/2009	0.0000	1.0000	OK	OK	OK	OK	OK	98.0	88.0	88.0	0.0			
SELENIUM	10/28/2009							OK	98.0	87.0	88.0	1.0			
SELENIUM	10/28/2009							OK	98.0	89.0	90.0	1.0			
SODIUM	10/21/2009			OK	OK	OK	OK		114.0	110.0	2.0		14.0	85.0	
SODIUM	10/21/2009								104.0	111.0	2.0		20.0	84.0	
SODIUM	10/21/2009								107.0	101.0	1.0		16.0	83.0	
SODIUM	10/21/2009								76.0	68.0	1.0		18.0		

SAMPLE MANAGEMENT SYSTEM

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Metals Data Validation Worksheet

RIN: 09092614

Lab Code: PAR

Date Due: 11/7/2009

Matrix: Water

Site Code: MNT

Date Completed: 11/13/2009

Analyte	Date Analyzed	CALIBRATION						Method	LCS %R	MS %R	MSD %R	Dup. RPD	ICSAB %R	Serial Dil. %R	CRI %R
		Int.	R^2	ICV	CCV	ICB	CCB								
URANIUM	10/27/2009	0.0000	1.0000	OK	OK	OK	OK			116.0	118.0	0.0	103.0	1.0	105.0
URANIUM	10/27/2009									104.0	104.0	0.0			
URANIUM	10/27/2009									103.0	102.0	1.0			
URANIUM	10/27/2009									103.0	103.0	1.0			
VANADIUM	10/27/2009	0.0000	1.0000	OK	OK	OK	OK			109.0	107.0	1.0	97.0	1.0	97.0
VANADIUM	10/27/2009									101.0	102.0	1.0			
VANADIUM	10/27/2009									100.0	100.0	1.0			
VANADIUM	10/27/2009									102.0	102.0	0.0			

SAMPLE MANAGEMENT SYSTEM
Wet Chemistry Data Validation Worksheet

RIN: 09092614

Lab Code: PAR

Date Due: 11/7/2009

Matrix: Water

Site Code: MNT

Date Completed: 11/13/2009

Analyte	Date Analyzed	CALIBRATION						Method	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	ICV	CCV	ICB	CCB						
CHLORIDE	10/20/2009	0.000	1.0000	OK	OK	OK	OK	OK	98.00				
CHLORIDE	10/20/2009								105.00				
CHLORIDE	10/29/2009	0.000	1.0000	OK	OK	OK	OK	OK	99.00				
CHLORIDE	10/29/2009								97.00				
CHLORIDE	10/30/2009	0.000	1.0000	OK	OK	OK	OK	OK	102.0	101.0	0		
FLUORIDE	10/20/2009	0.000	1.0000	OK	OK	OK	OK	OK	98.00	99.0	99.0	1.00	
FLUORIDE	10/20/2009								100.00	97.0			
FLUORIDE	10/29/2009	0.000	1.0000	OK	OK	OK	OK	OK	98.00	98.0	97.0	0	
FLUORIDE	10/29/2009								95.00	97.0	94.0	1.00	
FLUORIDE	10/29/2009									95.0			
FLUORIDE	10/30/2009	0.000	1.0000	OK	OK	OK	OK	OK		93.0	92.0	1.00	
FLUORIDE	10/30/2009									97.0			
NITRATE/NITRITE AS N	10/20/2009	0.000	0.9997	OK	OK	OK	OK	OK	100.00	95.0	103.0	7.00	
NITRATE/NITRITE AS N	10/20/2009								OK	99.00	87.0	94.0	2.00
NITRATE/NITRITE AS N	10/20/2009								OK	102.00	134.0	154.0	6.00
NITRATE/NITRITE AS N	10/20/2009								OK	101.00	91.0	99.0	4.00

SAMPLE MANAGEMENT SYSTEM
Wet Chemistry Data Validation Worksheet

RIN: 09092614

Lab Code: PAR

Date Due: 11/7/2009

Matrix: Water

Site Code: MNT

Date Completed: 11/13/2009

Analyte	Date Analyzed	CALIBRATION						Method	LCS %R	MS %R	MSD %R	DUP RPD	Serial Dil. %R
		Int.	R^2	ICV	CCV	ICB	CCB						
SULFATE	10/20/2009	0.000	1.0000	OK	OK	OK	OK	OK	99.00				
SULFATE	10/20/2009								101.00				
SULFATE	10/29/2009	0.000	1.0000	OK	OK	OK	OK	OK	99.00				
SULFATE	10/29/2009								98.00				
TOTAL DISSOLVED SOLIDS	10/14/2009							OK	95.00			1.00	

Sampling Quality Control Assessment

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

Sampling Protocol

Samples were collected as specified in the *Monticello Mill Tailings Site Operable Unit III Post-Record of Decision Monitoring Plan*. All samples were filtered. The purge stability criteria specified in the monitoring plan were used, including:

Temperature: ± 10 percent over the last three consecutive readings and

Turbidity: ≤ 5 nephelometric turbidity units for the final reading.

Wells were sampled with a peristaltic pump and dedicated tubing, a disposable bailer, or a dedicated bladder pump. Surface waters and seeps were sampled using a peristaltic pump and dedicated tubing or by container immersion.

Wells R1-M3, R1-M4, R3-M2, R3-M3, R4-M3, R4-M6, R6-M3, R6-M4, and R10-M1 are PeRT wells, which are not sampled using low-flow criteria. Wells PW-10 and PW-17 were sampled with bailers. All other wells were purged and sampled using low-flow sampling techniques and all purge stability criteria were met, with the following exceptions. At locations 0202, R6-M3, R6-M4, T01-18, T01-19, T01-20, T01-25, and MW00-07, the wells ran dry before purge measurements could stabilize. The pH did not meet stability criteria at wells 0200 and 82-08. The specific conductance did not meet stability criteria at well 82-08. The water level did not meet stability criteria at well 92-09. The flow rate was greater than 500 milliliters per minute (ml/min) at wells 92-09 and 95-03.

Sample results are not qualified based on sampling technique because the samples were collected using the *Monticello Mill Tailings Site Operable Unit III Post-Record of Decision Monitoring Plan*.

Equipment Blank Assessment

Equipment blanks are prepared and analyzed to document contamination attributable to the sample collection process. Three equipment blanks were submitted with these samples. Calcium and vanadium were detected in these blanks. Associated sample results that are greater than the MDL but less than 5 times the blank concentration are qualified with a "J" flag as estimated values.

Field Duplicate Assessment

Field duplicate samples are collected and analyzed as an indication of overall precision of the measurement process. The precision observed includes both field and laboratory precision and has more variability than laboratory duplicates, which measure only laboratory performance. Duplicate samples were collected from locations SW97-03, 92-08, P92-06, and MW00-06 (field duplicate IDs 2816, 2586, 2585, and 2825, respectively). The duplicate results met the Environmental Protection Agency recommended laboratory duplicate criteria of less than

20 relative percent difference for results that are greater than 5 times the PQL, indicating acceptable overall precision of all results with the following exception. The nitrate + nitrite as N duplicate results for location MW00-06 had a relative percent difference of 129 percent. The laboratory was requested to repeat the nitrate + nitrite as N analysis for this sample and duplicate. The repeat analysis confirmed the original results. The samples were also analyzed for nitrate from an unpreserved aliquot by method SW-846 9056, indicating that the preserved nitrate + nitrite as N aliquot for sample MW00-06 had been compromised. The nitrate + nitrite as N result for this sample is qualified with a “R” as rejected. The duplicate result is acceptable.

SAMPLE MANAGEMENT SYSTEM

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Validation Report: Field Duplicates

RIN: 09092614 Lab Code: PAR Project: Monticello Monitoring Validation Date: 12/4/2009

Duplicate: 2585

Sample: P92-06

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
ARSENIC	0.2		1		0.17			1	16.22		UG/L
CALCIUM	360000		1		360000			1	0		UG/L
CHLORIDE	120		20		120			20	0		MG/L
FLUORIDE	0.26		2		0.39			2			MG/L
IRON	1.6	U	1		7.1	B		1			UG/L
MAGNESIUM	96000		1		97000			1	1.04		UG/L
MANGANESE	0.1	U	1		0.1	U		1			UG/L
MOLYBDENUM	25		100		26			100	3.92		UG/L
NITRATE/NITRITE AS N	2.4		2		2.4			2	0		MG/L
POTASSIUM	14000		1		15000			1	6.90		UG/L
SELENIUM	25		2		24			2	4.08		UG/L
SODIUM	210000		1		220000			1	4.65		UG/L
SULFATE	1100		20		1200			20	8.70		MG/L
TOTAL DISSOLVED SOLIDS					2200			1			MG/L
URANIUM	690		100		680			100	1.46		UG/L
VANADIUM	0.45		3		0.4			3	11.76		UG/L

Duplicate: 2586

Sample: 92-08

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
ARSENIC	0.29		2		0.26			2	10.91		UG/L
CALCIUM	340000		1		320000			1	6.06		UG/L
CHLORIDE	87		20		87			20	0		MG/L
FLUORIDE	0.42		2		0.38			2			MG/L
IRON	1.6	U	1		1.6	U		1			UG/L
MAGNESIUM	66000		1		63000			1	4.65		UG/L
MANGANESE	210		1		200			1	4.88		UG/L
MOLYBDENUM	34		50		36			50	5.71		UG/L
NITRATE/NITRITE AS N	1.6		1		1.6			1	0		MG/L
POTASSIUM	12000		1		12000			1	0		UG/L
SELENIUM	33		2		34			2	2.99		UG/L
SODIUM	120000		1		110000			1	8.70		UG/L
SULFATE	800		20		800			20	0		MG/L
URANIUM	330		50		350			50	5.88		UG/L
VANADIUM	1.3		3		1.1			3	16.67		UG/L

SAMPLE MANAGEMENT SYSTEM

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Validation Report: Field Duplicates

RIN: 09092614 Lab Code: PAR Project: Monticello Monitoring Validation Date: 12/4/2009

Duplicate: 2816

Sample: Sw97-03

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
ARSENIC	0.95		1		0.8		1		17.14		UG/L
CALCIUM	220000		1		220000		1		0		UG/L
CHLORIDE	100		20		97		20		3.05		MG/L
FLUORIDE	0.32		2		0.32		2				MG/L
IRON	3.3	B	1		8.6	B	1				UG/L
MAGNESIUM	60000		1		61000		1		1.65		UG/L
MANGANESE	73		1		79		1		7.89		UG/L
MOLYBDENUM	17		50		18		20		5.71		UG/L
NITRATE/NITRITE AS N	0.017		1		0.012		1				MG/L
POTASSIUM	6900		1		7300		1		5.63		UG/L
SELENIUM	8.1		1		6.6		1		20.41		UG/L
SODIUM	130000		1		140000		1		7.41		UG/L
SULFATE	730		20		710		20		2.78		MG/L
URANIUM	190		50		200		20		5.13		UG/L
VANADIUM	1.9		3		1.8		3		5.41		UG/L

Duplicate: 2825

Sample: MW00-06

Analyte	Sample				Duplicate				RPD	RER	Units
	Result	Flag	Error	Dilution	Result	Flag	Error	Dilution			
ARSENIC	3.6		2		3.7		2		2.74		UG/L
CALCIUM	250000		1		260000		1		3.92		UG/L
CHLORIDE	82		20		88		20		7.06		MG/L
FLUORIDE	0.49		2		0.44		2				MG/L
IRON	1.6	U	1		24	B	1				UG/L
MAGNESIUM	57000		1		60000		1		5.13		UG/L
MANGANESE	0.1	U	1		1.7	B	1				UG/L
MOLYBDENUM	65		100		59		100		9.68		UG/L
NITRATE/NITRITE AS N	6.5		5		1.4		1		129.11		MG/L
POTASSIUM	17000		1		18000		1		5.71		UG/L
SELENIUM	37		2		32		2		14.49		UG/L
SODIUM	130000		1		130000		1		0		UG/L
SULFATE	690		20		720		20		4.26		MG/L
TOTAL DISSOLVED SOLIDS	1500		1		1400		1		6.90		MG/L
URANIUM	760		100		700		100		8.22		UG/L
VANADIUM	150		100		130		100		14.29		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 1-18-2010
Steve Donivan Date

Data Validation Lead: Steve Donivan 1-15-2010
Steve Donivan Date

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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.

Twenty-two results were identified as potential outliers and the data were normally distributed. Of these, 20 were judged as not anomalous after close review of the data because of apparent trends in the data or other factors.

The other two potential outliers were the chloride and sulfate results for sample T01-07. The laboratory was requested to re-analyze chloride and sulfate for this sample because a possible laboratory error was indicated. The re-analysis confirmed a laboratory error. The laboratory revised the analytical deliverables to replace the erroneous results.

Table 6 summarizes the anomalies identified in a previous report (April 2009). The right-hand column describes the result for this sampling event (October 2009).

Table 6. Comparison of April 2009 Anomalies with October 2009 Results

Loc. No.	Analyte	Type of Anomaly in April 2009	October 2009 Measurement
MW00-06	Selenium	High	Concentration remains high
R6-M4	Molybdenum	High	Concentration is lower, non-stability is indicated
SW01-01	Manganese	High	Concentration remains higher, upward trend
SW01-01	Vanadium	Low	Concentration remains low
SW94-01	Fluoride	High	Concentration remains high
W3-03	Arsenic	Low	Concentration is higher, non-stability is indicated
W3-03	Iron	High	Concentration is lower, non-stability is indicated

Data Validation Outliers Report - No Field Parameters

Laboratory: PARAGON (Fort Collins, CO)

RIN: 09092614

Comparison: All Historical Data

Report Date: 12/18/2009

Site Code	Location Code	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Normally Distributed	Statistical Outlier
				Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect		
MNT01	0202	10/08/2009	Selenium	0.02			0.066		F	0.025			10	0	No	No
MNT01	82-08	10/07/2009	Total Dissolved Solids	2200			3700		F	2400		F	16	0	Yes (log)	No
MNT01	92-07	10/08/2009	Fluoride	0.63			0.62		F	0.0172	N	UJ	49	1	Yes	No
MNT01	92-08	10/07/2009	Fluoride	0.42			0.41		F	0.0172	B	U	42	3	Yes	No
MNT01	92-09	10/06/2009	Vanadium	0.000065	B		0.008	U		0.000072	B	UFJ	44	40	No	No
MNT01	92-10	10/06/2009	Calcium	110			100		FQ	60.5			26	0	Yes	Yes
MNT01	92-10	10/06/2009	Magnesium	19			17		F	10.8			26	0	Yes (log)	Yes
MNT01	92-10	10/06/2009	Sulfate	220			210		FQ	105			27	0	No	Yes
MNT01	MW00-06	10/08/2009	Fluoride	0.49			0.42		F	0.0172	BN	UJ	28	4	Yes	No
MNT01	MW00-06	10/08/2009	Molybdenum	0.065			0.045	B		0.014		F	28	0	Yes (log)	Yes
MNT01	MW00-06	10/08/2009	Uranium	0.76			0.53			0.0595			28	0	Yes (log)	Yes
MNT01	MW00-07	10/08/2009	Calcium	290			260		F	120		F	13	0	Yes	No
MNT01	MW00-07	10/08/2009	Chloride	98			85.3			8.11	N	J	12	0	No	No
MNT01	MW00-07	10/08/2009	Sulfate	730			725			68.7			12	0	No	No
MNT01	MW00-07	10/08/2009	Uranium	0.46			0.42		FQ	0.071		F	13	0	Yes	No
MNT01	P92-06	10/07/2009	Total Dissolved Solids	2200			4950			3580			11	0	Yes	Yes
MNT01	PW-28	10/07/2009	Selenium	0.027			0.142			0.028		F	23	0	Yes (log)	No
MNT01	R1-M4	10/05/2009	Molybdenum	0.069			0.064			0.0064	B	U	34	1	Yes	No

Data Validation Outliers Report - No Field Parameters

Laboratory: PARAGON (Fort Collins, CO)

RIN: 09092614

Comparison: All Historical Data

Report Date: 12/18/2009

Site Code	Location Code	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Normally Distributed	Statistical Outlier
				Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect		
MNT01	R1-M4	10/05/2009	Nitrate + Nitrite as Nitrogen	1			17			1.3			28	0	No	No
MNT01	R3-M3	10/06/2009	Vanadium	0.000094	B		0.053			0.000095	U		24	7	No	No
MNT01	R4-M6	10/06/2009	Vanadium	0.000052	B		0.0015	B		0.000072	U		31	28	No	No
MNT01	Seep 2	10/08/2009	Vanadium	0.59			0.58	J		0.0053	B		21	0	No	No
MNT01	Seep 3	10/05/2009	Potassium	7.4			15			7.74			24	0	No	No
MNT01	Seep 3	10/05/2009	Uranium	0.035			0.052			0.036			26	0	No	No
MNT01	Seep 5	10/05/2009	Uranium	0.03			0.097			0.031	J		14	0	Yes (log)	No
MNT01	Seep 6	10/05/2009	Calcium	510			500			303			13	0	Yes	No
MNT01	SW00-04	10/06/2009	Magnesium	67			66			23			21	0	Yes	No
MNT01	SW00-04	10/06/2009	Molybdenum	0.019			0.016			0.0017	B	U	21	1	Yes	No
MNT01	SW00-04	10/06/2009	Sodium	140			139			44			21	0	Yes	No
MNT01	SW00-04	10/06/2009	Uranium	0.21			0.17			0.029			21	0	Yes	Yes
MNT01	SW01-01	10/07/2009	Chloride	100			49			18			22	0	Yes (log)	Yes
MNT01	SW01-01	10/07/2009	Manganese	0.11			0.08			0.0031	B		22	0	Yes (log)	No
MNT01	SW01-01	10/07/2009	Potassium	11			7.1	J		2.4			22	0	No	Yes
MNT01	SW01-01	10/07/2009	Selenium	0.00052			0.01			0.00078			22	0	Yes (log)	No
MNT01	SW01-01	10/07/2009	Sodium	120			83.5			28			22	0	Yes	Yes
MNT01	SW01-01	10/07/2009	Uranium	0.0052			0.0597			0.012			22	0	Yes	No

Data Validation Outliers Report - No Field Parameters

Laboratory: PARAGON (Fort Collins, CO)

RIN: 09092614

Comparison: All Historical Data

Report Date: 12/18/2009

Site Code	Location Code	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Normally Distributed	Statistical Outlier
				Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect		
MNT01	SW01-02	10/08/2009	Arsenic	0.0014			0.0006	U		0.000007		U	19	7	Yes	Yes
MNT01	SW01-03	10/06/2009	Molybdenum	0.001			0.0036	B		0.0013			23	10	Yes (log)	No
MNT01	SW92-06	10/08/2009	Chloride	120			75.7			12.7			20	0	No	Yes
MNT01	SW92-06	10/08/2009	Fluoride	0.33			0.253			0.0731	B		20	0	Yes	Yes
MNT01	SW92-06	10/08/2009	Manganese	1.2			0.616			0.0061		J	29	0	No	Yes
MNT01	SW92-06	10/08/2009	Nitrate + Nitrite as Nitrogen	0.023			1.48			0.0551		J	15	0	Yes (log)	No
MNT01	SW92-09	10/07/2009	Chloride	98			89.1			17.2			13	0	Yes	Yes
MNT01	SW94-01	10/07/2009	Chloride	96			88.3			32.2			14	0	Yes	Yes
MNT01	SW94-01	10/07/2009	Magnesium	60			59			32.3			19	0	No	No
MNT01	SW94-01	10/07/2009	Sodium	130			105			77.3			19	0	Yes	Yes
MNT01	SW94-01	10/07/2009	Uranium	0.17			0.16			0.0387			11	0	Yes	No
MNT01	T01-04	10/07/2009	Selenium	0.023			0.0976	B		0.024		F	20	0	No	No
MNT01	T01-05	10/07/2009	Selenium	0.021			0.0904	B		0.023		F	20	0	Yes	No
MNT01	T01-07	10/05/2009	Chloride	38			270	F		110			19	0	Yes	Yes
MNT01	T01-07	10/05/2009	Fluoride	0.71			0.649			0.0172	U	J	19	9	No	No
MNT01	T01-07	10/05/2009	Selenium	0.025			0.0734	B		0.026			19	0	No	No
MNT01	T01-07	10/05/2009	Sulfate	310			1500	F		830			19	0	Yes	Yes
MNT01	T01-18	10/06/2009	Calcium	530			420	FQ		322			12	0	Yes	Yes

Data Validation Outliers Report - No Field Parameters

Laboratory: PARAGON (Fort Collins, CO)

RIN: 09092614

Comparison: All Historical Data

Report Date: 12/18/2009

Site Code	Location Code	Sample Date	Analyte	Current Qualifiers			Historical Maximum Qualifiers			Historical Minimum Qualifiers			Number of Data Points		Normally Distributed	Statistical Outlier		
				Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect				
MNT01	T01-18	10/06/2009	Magnesium	130			89			FQ			12	0	Yes	Yes		
MNT01	T01-18	10/06/2009	Selenium	0.066			0.029			0.0019			12	0	Yes	Yes		
MNT01	T01-18	10/06/2009	Uranium	0.56			0.367			0.191			12	0	Yes	Yes		
MNT01	T01-20	10/06/2009	Calcium	540			460			FQ			14	0	Yes	No		
MNT01	T01-20	10/06/2009	Magnesium	110			95			FQ			14	0	Yes (log)	Yes		
MNT01	T01-20	10/06/2009	Potassium	4.6	B		34			12			JFQ	14	0	Yes (log)	Yes	
MNT01	T01-20	10/06/2009	Sodium	340			660			390			FQ	14	0	Yes	No	
MNT01	T01-20	10/06/2009	Uranium	0.59			0.57			FQ			0.239		13	0	No	Yes
MNT01	T01-23	10/06/2009	Iron	2.4			2.1			F			0.422		17	0	No	No
MNT01	T01-25	10/06/2009	Arsenic	0.011			0.0087			FQ			0.00026	B	13	0	Yes (log)	No
MNT01	T01-25	10/06/2009	Uranium	0.018			0.061			0.029			0.029		13	0	Yes	No
MNT01	W3-03	10/06/2009	Manganese	1.9			1.7			0.077			0.077		15	0	Yes (log)	No
MNT01	W3-04	10/07/2009	Fluoride	0.38			0.36			0.0172			B	U	14	7	Yes	Yes
MNT01	W3-04	10/07/2009	Molybdenum	0.018			0.0149	B		0.0018			B		15	0	Yes (log)	No

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.

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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Attachment 2

Data Presentation

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Groundwater Quality Data

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Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 0200 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Detection Limit	Uncertainty
				Lab	Data	QA					
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	N001	5.32	-	10.26	470		#		
Arsenic	mg/L	10/07/2009	0001	5.32	-	10.26	0.00018		#	0.0000084	
Calcium	mg/L	10/07/2009	0001	5.32	-	10.26	350	E	J	#	0.0021
Chloride	mg/L	10/07/2009	0001	5.32	-	10.26	100		#	4	
Fluoride	mg/L	10/07/2009	0001	5.32	-	10.26	0.48		#	0.2	
Iron	mg/L	10/07/2009	0001	5.32	-	10.26	0.0016	U		#	0.0016
Magnesium	mg/L	10/07/2009	0001	5.32	-	10.26	100		#	0.0066	
Manganese	mg/L	10/07/2009	0001	5.32	-	10.26	0.003	B		#	0.0001
Molybdenum	mg/L	10/07/2009	0001	5.32	-	10.26	0.027		#	0.00013	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	5.32	-	10.26	0.36		#	0.01	
pH	s.u.	10/07/2009	N001	5.32	-	10.26	6.69		#		
Potassium	mg/L	10/07/2009	0001	5.32	-	10.26	11	EN	J	#	0.092
Selenium	mg/L	10/07/2009	0001	5.32	-	10.26	0.009		#	0.000032	
Sodium	mg/L	10/07/2009	0001	5.32	-	10.26	210	E	J	#	0.044
Specific Conductance	umhos /cm	10/07/2009	N001	5.32	-	10.26	2800		#		
Sulfate	mg/L	10/07/2009	0001	5.32	-	10.26	1200		#	10	
Temperature	C	10/07/2009	N001	5.32	-	10.26	14.3		#		
Turbidity	NTU	10/07/2009	N001	5.32	-	10.26	1.86		#		
Uranium	mg/L	10/07/2009	0001	5.32	-	10.26	0.26		#	0.000017	
Vanadium	mg/L	10/07/2009	0001	5.32	-	10.26	0.00038	J	#	0.00005	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 0202 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Lab	Data QA	Detection Limit	Uncertainty
Arsenic	mg/L	10/08/2009	0001	10.32	-	15.26	0.002		#		0.0000084	
Calcium	mg/L	10/08/2009	0001	10.32	-	15.26	290	J	#		0.0021	
Iron	mg/L	10/08/2009	0001	10.32	-	15.26	0.32		#		0.0016	
Magnesium	mg/L	10/08/2009	0001	10.32	-	15.26	63		#		0.0066	
Manganese	mg/L	10/08/2009	0001	10.32	-	15.26	0.043		#		0.0001	
Molybdenum	mg/L	10/08/2009	0001	10.32	-	15.26	0.025		#		0.00013	
pH	s.u.	10/08/2009	N001	10.32	-	15.26	6.71		#			
Potassium	mg/L	10/08/2009	0001	10.32	-	15.26	9.4	J	#		0.092	
Selenium	mg/L	10/08/2009	0001	10.32	-	15.26	0.02		#		0.000032	
Sodium	mg/L	10/08/2009	0001	10.32	-	15.26	120	J	#		0.0044	
Specific Conductance	umhos /cm	10/08/2009	N001	10.32	-	15.26	1876		#			
Temperature	C	10/08/2009	N001	10.32	-	15.26	13.78		#			
Turbidity	NTU	10/08/2009	N001	10.32	-	15.26	295		#			
Uranium	mg/L	10/08/2009	0001	10.32	-	15.26	0.18		#		0.0000035	
Vanadium	mg/L	10/08/2009	0001	10.32	-	15.26	0.041		#		0.00033	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 82-08 WELL Original 82-08 destroyed during excavation before 1/28/1999. Replacement well installed on 2/23/1999 and also called 82-08.

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty	
				12	-	17		Lab	Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	12	-	17	177		#		
Arsenic	mg/L	10/07/2009	0001	12	-	17	0.00046		#	0.0000084	
Calcium	mg/L	10/07/2009	0001	12	-	17	380	J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	12	-	17	190		#	4	
Fluoride	mg/L	10/07/2009	0001	12	-	17	1		#	0.2	
Iron	mg/L	10/07/2009	0001	12	-	17	0.00160000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/07/2009	0001	12	-	17	110		#	0.0066	
Manganese	mg/L	10/07/2009	0001	12	-	17	0.0081		#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	12	-	17	0.0056		#	0.00002	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	12	-	17	2.5		#	0.02	
pH	s.u.	10/07/2009	N001	12	-	17	6.11		#		
Potassium	mg/L	10/07/2009	0001	12	-	17	8.4	J	#	0.092	
Selenium	mg/L	10/07/2009	0001	12	-	17	0.016		#	0.000032	
Sodium	mg/L	10/07/2009	0001	12	-	17	180	J	#	0.0044	
Specific Conductance	umhos /cm	10/07/2009	N001	12	-	17	2640		#		
Sulfate	mg/L	10/07/2009	0001	12	-	17	1200		#	10	
Temperature	C	10/07/2009	N001	12	-	17	13.15		#		
Total Dissolved Solids	mg/L	10/07/2009	0001	12	-	17	2200		#	40	
Turbidity	NTU	10/07/2009	N001	12	-	17	1.54		#		
Uranium	mg/L	10/07/2009	0001	12	-	17	0.03		#	0.00000052	
Vanadium	mg/L	10/07/2009	0001	12	-	17	0.0052		#	0.00005	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 83-70 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				Lab	Data	QA				
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	50.4	-	170.4	200	#		
Arsenic	mg/L	10/07/2009	0001	50.4	-	170.4	0.00013	#	0.0000084	
Calcium	mg/L	10/07/2009	0001	50.4	-	170.4	57	J	#	0.0021
Chloride	mg/L	10/07/2009	0001	50.4	-	170.4	2.9	#	0.2	
Fluoride	mg/L	10/07/2009	0001	50.4	-	170.4	0.2	#	0.1	
Iron	mg/L	10/07/2009	0001	50.4	-	170.4	0.4	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	50.4	-	170.4	11	#	0.0066	
Manganese	mg/L	10/07/2009	0001	50.4	-	170.4	0.28	#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	50.4	-	170.4	0.0011	#	0.00002	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	50.4	-	170.4	0.01	U	#	0.01
pH	s.u.	10/07/2009	N001	50.4	-	170.4	7.66	#		
Potassium	mg/L	10/07/2009	0001	50.4	-	170.4	2.8	J	#	0.092
Selenium	mg/L	10/07/2009	0001	50.4	-	170.4	0.000032	U	#	0.000032
Sodium	mg/L	10/07/2009	0001	50.4	-	170.4	54	J	#	0.0044
Specific Conductance	umhos /cm	10/07/2009	N001	50.4	-	170.4	588	#		
Sulfate	mg/L	10/07/2009	0001	50.4	-	170.4	110	#	2.5	
Temperature	C	10/07/2009	N001	50.4	-	170.4	12.59	#		
Turbidity	NTU	10/07/2009	N001	50.4	-	170.4	0.66	#		
Uranium	mg/L	10/07/2009	0001	50.4	-	170.4	0.000024	B	#	0.00000052
Vanadium	mg/L	10/07/2009	0001	50.4	-	170.4	0.00005	U	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 88-85 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				6.71	-	11.71		Lab Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	6.71	-	11.71	355		#	
Arsenic	mg/L	10/07/2009	0001	6.71	-	11.71	0.013		#	0.000017
Calcium	mg/L	10/07/2009	0001	6.71	-	11.71	330	J	#	0.0021
Chloride	mg/L	10/07/2009	0001	6.71	-	11.71	110		#	4
Dissolved Oxygen	mg/L	10/07/2009	N001	6.71	-	11.71	3.84		#	
Fluoride	mg/L	10/07/2009	0001	6.71	-	11.71	0.58		#	0.2
Iron	mg/L	10/07/2009	0001	6.71	-	11.71	0.0016	U	#	0.0016
Magnesium	mg/L	10/07/2009	0001	6.71	-	11.71	66		#	0.0066
Manganese	mg/L	10/07/2009	0001	6.71	-	11.71	0.0001	U	#	0.0001
Molybdenum	mg/L	10/07/2009	0001	6.71	-	11.71	0.031		#	0.00067
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	6.71	-	11.71	3		#	0.02
Oxidation Reduction Potential	mV	10/07/2009	N001	6.71	-	11.71	163.5		#	
pH	s.u.	10/07/2009	N001	6.71	-	11.71	6.73		#	
Potassium	mg/L	10/07/2009	0001	6.71	-	11.71	10	J	#	0.092
Selenium	mg/L	10/07/2009	0001	6.71	-	11.71	0.029		#	0.000064
Sodium	mg/L	10/07/2009	0001	6.71	-	11.71	130	J	#	0.0044
Specific Conductance	umhos /cm	10/07/2009	N001	6.71	-	11.71	2081		#	
Sulfate	mg/L	10/07/2009	0001	6.71	-	11.71	770		#	10
Temperature	C	10/07/2009	N001	6.71	-	11.71	13.1		#	
Total Dissolved Solids	mg/L	10/07/2009	0001	6.71	-	11.71	1600		#	40
Turbidity	NTU	10/07/2009	N001	6.71	-	11.71	1.07		#	
Uranium	mg/L	10/07/2009	0001	6.71	-	11.71	0.24		#	0.000017
Vanadium	mg/L	10/07/2009	0001	6.71	-	11.71	0.39		#	0.0017

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 92-07 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				Lab	Data	QA				
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	15.6	-	20.6	172	#		
Arsenic	mg/L	10/08/2009	0001	15.6	-	20.6	0.0095	#	0.000017	
Calcium	mg/L	10/08/2009	0001	15.6	-	20.6	270	J	#	0.0021
Chloride	mg/L	10/08/2009	0001	15.6	-	20.6	67	#	4	
Dissolved Oxygen	mg/L	10/08/2009	N001	15.6	-	20.6	2.43	#		
Fluoride	mg/L	10/08/2009	0001	15.6	-	20.6	0.63	#	0.2	
Iron	mg/L	10/08/2009	0001	15.6	-	20.6	0.0016	U	#	0.0016
Magnesium	mg/L	10/08/2009	0001	15.6	-	20.6	56	#	0.0066	
Manganese	mg/L	10/08/2009	0001	15.6	-	20.6	0.31	#	0.0001	
Molybdenum	mg/L	10/08/2009	0001	15.6	-	20.6	0.11	#	0.0013	
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	15.6	-	20.6	0.81	#	0.01	
Oxidation Reduction Potential	mV	10/08/2009	N001	15.6	-	20.6	24.9	#		
pH	s.u.	10/08/2009	N001	15.6	-	20.6	6.85	#		
Potassium	mg/L	10/08/2009	0001	15.6	-	20.6	21	J	#	0.092
Selenium	mg/L	10/08/2009	0001	15.6	-	20.6	0.037	#	0.000064	
Sodium	mg/L	10/08/2009	0001	15.6	-	20.6	110	J	#	0.0044
Specific Conductance	umhos /cm	10/08/2009	N001	15.6	-	20.6	1864	#		
Sulfate	mg/L	10/08/2009	0001	15.6	-	20.6	710	#	10	
Temperature	C	10/08/2009	N001	15.6	-	20.6	11.66	#		
Turbidity	NTU	10/08/2009	N001	15.6	-	20.6	1.01	#		
Uranium	mg/L	10/08/2009	0001	15.6	-	20.6	0.96	#	0.000035	
Vanadium	mg/L	10/08/2009	0001	15.6	-	20.6	0.37	#	0.0033	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 92-08 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	12.9	-	17.9	357			#		
Arsenic	mg/L	10/07/2009	0001	12.9	-	17.9	0.00029			#	0.000017	
Arsenic	mg/L	10/07/2009	0002	12.9	-	17.9	0.00026			#	0.000017	
Calcium	mg/L	10/07/2009	0001	12.9	-	17.9	340	J		#	0.0021	
Calcium	mg/L	10/07/2009	0002	12.9	-	17.9	320	J		#	0.0021	
Chloride	mg/L	10/07/2009	0001	12.9	-	17.9	87			#	4	
Chloride	mg/L	10/07/2009	0002	12.9	-	17.9	87			#	4	
Fluoride	mg/L	10/07/2009	0001	12.9	-	17.9	0.42			#	0.2	
Fluoride	mg/L	10/07/2009	0002	12.9	-	17.9	0.38			#	0.2	
Iron	mg/L	10/07/2009	0001	12.9	-	17.9	0.0016	U		#	0.0016	
Iron	mg/L	10/07/2009	0002	12.9	-	17.9	0.0016	U		#	0.0016	
Magnesium	mg/L	10/07/2009	0001	12.9	-	17.9	66			#	0.0066	
Magnesium	mg/L	10/07/2009	0002	12.9	-	17.9	63			#	0.0066	
Manganese	mg/L	10/07/2009	0001	12.9	-	17.9	0.21			#	0.0001	
Manganese	mg/L	10/07/2009	0002	12.9	-	17.9	0.2			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	12.9	-	17.9	0.034			#	0.00034	
Molybdenum	mg/L	10/07/2009	0002	12.9	-	17.9	0.036			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	12.9	-	17.9	1.6			#	0.01	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0002	12.9	-	17.9	1.6			#	0.01	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 92-08 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
pH	s.u.	10/07/2009	N001	12.9	-	17.9	6.59			#		
Potassium	mg/L	10/07/2009	0001	12.9	-	17.9	12		J	#	0.092	
Potassium	mg/L	10/07/2009	0002	12.9	-	17.9	12		J	#	0.092	
Selenium	mg/L	10/07/2009	0001	12.9	-	17.9	0.033			#	0.000064	
Selenium	mg/L	10/07/2009	0002	12.9	-	17.9	0.034			#	0.000064	
Sodium	mg/L	10/07/2009	0001	12.9	-	17.9	120		J	#	0.0044	
Sodium	mg/L	10/07/2009	0002	12.9	-	17.9	110		J	#	0.0044	
Specific Conductance	umhos /cm	10/07/2009	N001	12.9	-	17.9	2021			#		
Sulfate	mg/L	10/07/2009	0001	12.9	-	17.9	800			#	10	
Sulfate	mg/L	10/07/2009	0002	12.9	-	17.9	800			#	10	
Temperature	C	10/07/2009	N001	12.9	-	17.9	11.56			#		
Turbidity	NTU	10/07/2009	N001	12.9	-	17.9	2.49			#		
Uranium	mg/L	10/07/2009	0001	12.9	-	17.9	0.33			#	0.0000087	
Uranium	mg/L	10/07/2009	0002	12.9	-	17.9	0.35			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	12.9	-	17.9	0.0013			#	0.00005	
Vanadium	mg/L	10/07/2009	0002	12.9	-	17.9	0.0011			#	0.00005	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 92-09 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				10.9	-	16		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	10.9	-	16	385		#	
Arsenic	mg/L	10/06/2009	0001	10.9	-	16	0.0013		#	0.0000084
Calcium	mg/L	10/06/2009	0001	10.9	-	16	400	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	10.9	-	16	260		#	4
Fluoride	mg/L	10/06/2009	0001	10.9	-	16	0.3		#	0.2
Iron	mg/L	10/06/2009	0001	10.9	-	16	1.5		#	0.0016
Magnesium	mg/L	10/06/2009	0001	10.9	-	16	88		#	0.0066
Manganese	mg/L	10/06/2009	0001	10.9	-	16	0.16		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	10.9	-	16	0.0027		#	0.00002
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	10.9	-	16	0.01	U	#	0.01
pH	s.u.	10/06/2009	N001	10.9	-	16	6.91		#	
Potassium	mg/L	10/06/2009	0001	10.9	-	16	2.5	J	#	0.092
Selenium	mg/L	10/06/2009	0001	10.9	-	16	0.00013		#	0.000032
Sodium	mg/L	10/06/2009	0001	10.9	-	16	230	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	10.9	-	16	2869		#	
Sulfate	mg/L	10/06/2009	0001	10.9	-	16	1100		#	10
Temperature	C	10/06/2009	N001	10.9	-	16	12.76		#	
Turbidity	NTU	10/06/2009	N001	10.9	-	16	2.91		#	
Uranium	mg/L	10/06/2009	0001	10.9	-	16	0.33		#	0.0000087
Vanadium	mg/L	10/06/2009	0001	10.9	-	16	0.000065	B J	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 92-10 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Detection Limit	Uncertainty
				34.4	-	64.4		Lab	Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	34.4	-	64.4	215			#	
Arsenic	mg/L	10/06/2009	0001	34.4	-	64.4	0.000087	B		#	0.0000084
Calcium	mg/L	10/06/2009	0001	34.4	-	64.4	110	J		#	0.0021
Chloride	mg/L	10/06/2009	0001	34.4	-	64.4	32			#	2
Fluoride	mg/L	10/06/2009	0001	34.4	-	64.4	0.17			#	0.1
Iron	mg/L	10/06/2009	0001	34.4	-	64.4	0.68			#	0.0016
Magnesium	mg/L	10/06/2009	0001	34.4	-	64.4	19			#	0.0066
Manganese	mg/L	10/06/2009	0001	34.4	-	64.4	0.48			#	0.0001
Molybdenum	mg/L	10/06/2009	0001	34.4	-	64.4	0.0015			#	0.00002
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	34.4	-	64.4	0.01	U		#	0.01
pH	s.u.	10/06/2009	N001	34.4	-	64.4	7.38			#	
Potassium	mg/L	10/06/2009	0001	34.4	-	64.4	3.4	J		#	0.092
Selenium	mg/L	10/06/2009	0001	34.4	-	64.4	0.000032	U		#	0.000032
Sodium	mg/L	10/06/2009	0001	34.4	-	64.4	52	J		#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	34.4	-	64.4	869			#	
Sulfate	mg/L	10/06/2009	0001	34.4	-	64.4	220			#	5
Temperature	C	10/06/2009	N001	34.4	-	64.4	11.48			#	
Turbidity	NTU	10/06/2009	N001	34.4	-	64.4	27.8			#	
Uranium	mg/L	10/06/2009	0001	34.4	-	64.4	0.00007			#	0.00000052
Vanadium	mg/L	10/06/2009	0001	34.4	-	64.4	0.00005	U		#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 92-11 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				9.5	-	13.9		Lab Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	9.5	-	13.9	370		#	
Arsenic	mg/L	10/08/2009	0001	9.5	-	13.9	0.017		#	0.000017
Calcium	mg/L	10/08/2009	0001	9.5	-	13.9	330	J	#	0.0021
Chloride	mg/L	10/08/2009	0001	9.5	-	13.9	97		#	4
Dissolved Oxygen	mg/L	10/08/2009	N001	9.5	-	13.9	1.21		#	
Fluoride	mg/L	10/08/2009	0001	9.5	-	13.9	0.5		#	0.2
Iron	mg/L	10/08/2009	0001	9.5	-	13.9	0.0016	U	#	0.0016
Magnesium	mg/L	10/08/2009	0001	9.5	-	13.9	64		#	0.0066
Manganese	mg/L	10/08/2009	0001	9.5	-	13.9	0.0001	U	#	0.0001
Molybdenum	mg/L	10/08/2009	0001	9.5	-	13.9	0.017		#	0.00034
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	9.5	-	13.9	3.5		#	0.02
Oxidation Reduction Potential	mV	10/08/2009	N001	9.5	-	13.9	85.3		#	
pH	s.u.	10/08/2009	N001	9.5	-	13.9	6.86		#	
Potassium	mg/L	10/08/2009	0001	9.5	-	13.9	8.6	J	#	0.092
Selenium	mg/L	10/08/2009	0001	9.5	-	13.9	0.026		#	0.000064
Sodium	mg/L	10/08/2009	0001	9.5	-	13.9	120	J	#	0.0044
Specific Conductance	umhos /cm	10/08/2009	N001	9.5	-	13.9	2082		#	
Sulfate	mg/L	10/08/2009	0001	9.5	-	13.9	730		#	10
Temperature	C	10/08/2009	N001	9.5	-	13.9	12.54		#	
Turbidity	NTU	10/08/2009	N001	9.5	-	13.9	1.09		#	
Uranium	mg/L	10/08/2009	0001	9.5	-	13.9	0.18		#	0.0000087
Vanadium	mg/L	10/08/2009	0001	9.5	-	13.9	0.49		#	0.00083

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 93-01 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Detection Limit	Uncertainty	
				119	-	179		Lab	Data	QA		
Arsenic	mg/L	10/07/2009	0001	119	-	179	0.00038		#	0.0000084		
Calcium	mg/L	10/07/2009	0001	119	-	179	31	J	#	0.0021		
Chloride	mg/L	10/07/2009	0001	119	-	179	4.3		#	0.2		
Fluoride	mg/L	10/07/2009	0001	119	-	179	0.61		#	0.1		
Iron	mg/L	10/07/2009	0001	119	-	179	0.0016000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	119	-	179	8		#	0.0066		
Manganese	mg/L	10/07/2009	0001	119	-	179	0.088		#	0.0001		
Molybdenum	mg/L	10/07/2009	0001	119	-	179	0.0000200000000000000000 2	B	U	#	0.00002	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	119	-	179	0.01	U		#	0.01	
pH	s.u.	10/07/2009	N001	119	-	179	7.43			#		
Potassium	mg/L	10/07/2009	0001	119	-	179	3.6	J	#	0.092		
Selenium	mg/L	10/07/2009	0001	119	-	179	0.000032	U		#	0.000032	
Sodium	mg/L	10/07/2009	0001	119	-	179	120	J	#	0.0044		
Specific Conductance	umhos /cm	10/07/2009	N001	119	-	179	712			#		
Sulfate	mg/L	10/07/2009	0001	119	-	179	10		#	0.5		
Temperature	C	10/07/2009	N001	119	-	179	9.33			#		
Turbidity	NTU	10/07/2009	N001	119	-	179	1.52			#		
Uranium	mg/L	10/07/2009	0001	119	-	179	0.000077		#	0.0000052		
Vanadium	mg/L	10/07/2009	0001	119	-	179	0.0002	B	J	#	0.00005	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 95-01 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				3.5	-	8.5		Lab Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	3.5	-	8.5	179		#	
Arsenic	mg/L	10/06/2009	0001	3.5	-	8.5	0.0029		#	0.0000084
Calcium	mg/L	10/06/2009	0001	3.5	-	8.5	40	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	3.5	-	8.5	6.5		#	0.2
Fluoride	mg/L	10/06/2009	0001	3.5	-	8.5	0.32		#	0.1
Iron	mg/L	10/06/2009	0001	3.5	-	8.5	0.9		#	0.0016
Magnesium	mg/L	10/06/2009	0001	3.5	-	8.5	11		#	0.0066
Manganese	mg/L	10/06/2009	0001	3.5	-	8.5	0.22		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	3.5	-	8.5	0.00075		#	0.00002
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	3.5	-	8.5	0.01	U	#	0.01
pH	s.u.	10/06/2009	N001	3.5	-	8.5	7.19		#	
Potassium	mg/L	10/06/2009	0001	3.5	-	8.5	3.1	J	#	0.092
Selenium	mg/L	10/06/2009	0001	3.5	-	8.5	0.000032	U	#	0.000032
Sodium	mg/L	10/06/2009	0001	3.5	-	8.5	63	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	3.5	-	8.5	587		#	
Sulfate	mg/L	10/06/2009	0001	3.5	-	8.5	120		#	2.5
Temperature	C	10/06/2009	N001	3.5	-	8.5	13.34		#	
Turbidity	NTU	10/06/2009	N001	3.5	-	8.5	3.35		#	
Uranium	mg/L	10/06/2009	0001	3.5	-	8.5	0.0005		#	0.00000052
Vanadium	mg/L	10/06/2009	0001	3.5	-	8.5	0.00013	B J	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 95-03 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				5.56	-	10.56		Lab Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	5.56	-	10.56	245		#	
Arsenic	mg/L	10/06/2009	0001	5.56	-	10.56	0.000084	B	#	0.0000084
Calcium	mg/L	10/06/2009	0001	5.56	-	10.56	150	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	5.56	-	10.56	68		#	2
Fluoride	mg/L	10/06/2009	0001	5.56	-	10.56	0.21		#	0.1
Iron	mg/L	10/06/2009	0001	5.56	-	10.56	1.1		#	0.0016
Magnesium	mg/L	10/06/2009	0001	5.56	-	10.56	50		#	0.0066
Manganese	mg/L	10/06/2009	0001	5.56	-	10.56	0.33		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	5.56	-	10.56	0.0045		#	0.00002
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	5.56	-	10.56	0.01	U	#	0.01
pH	s.u.	10/06/2009	N001	5.56	-	10.56	7.15		#	
Potassium	mg/L	10/06/2009	0001	5.56	-	10.56	3.7	J	#	0.092
Selenium	mg/L	10/06/2009	0001	5.56	-	10.56	0.000032	U	#	0.000032
Sodium	mg/L	10/06/2009	0001	5.56	-	10.56	97	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	5.56	-	10.56	1415		#	
Sulfate	mg/L	10/06/2009	0001	5.56	-	10.56	460		#	5
Temperature	C	10/06/2009	N001	5.56	-	10.56	12.6		#	
Turbidity	NTU	10/06/2009	N001	5.56	-	10.56	2.05		#	
Uranium	mg/L	10/06/2009	0001	5.56	-	10.56	0.0067		#	0.00000052
Vanadium	mg/L	10/06/2009	0001	5.56	-	10.56	0.00005	U	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: MW00-01 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Detection Limit	Uncertainty
				Lab	Data	QA					
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	7.37	-	13.4	318		#		
Arsenic	mg/L	10/06/2009	0001	7.37	-	13.4	0.00028		#	0.0000084	
Calcium	mg/L	10/06/2009	0001	7.37	-	13.4	370	E	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	7.37	-	13.4	7.1		#	0.4	
Fluoride	mg/L	10/06/2009	0001	7.37	-	13.4	0.3		#	0.2	
Iron	mg/L	10/06/2009	0001	7.37	-	13.4	0.0016	U		#	0.0016
Magnesium	mg/L	10/06/2009	0001	7.37	-	13.4	54		#	0.0066	
Manganese	mg/L	10/06/2009	0001	7.37	-	13.4	0.0001	U		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	7.37	-	13.4	0.0018		#	0.00002	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	7.37	-	13.4	0.11		#	0.01	
pH	s.u.	10/06/2009	N001	7.37	-	13.4	6.63		#		
Potassium	mg/L	10/06/2009	0001	7.37	-	13.4	3	N	J	#	0.092
Selenium	mg/L	10/06/2009	0001	7.37	-	13.4	0.001		#	0.000032	
Sodium	mg/L	10/06/2009	0001	7.37	-	13.4	42	E	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	7.37	-	13.4	1692		#		
Sulfate	mg/L	10/06/2009	0001	7.37	-	13.4	750		#	10	
Temperature	C	10/06/2009	N001	7.37	-	13.4	9.95		#		
Turbidity	NTU	10/06/2009	N001	7.37	-	13.4	1.79		#		
Uranium	mg/L	10/06/2009	0001	7.37	-	13.4	0.0052		#	0.00000052	
Vanadium	mg/L	10/06/2009	0001	7.37	-	13.4	0.00026	B	J	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: MW00-06 WELL Erroneously labeled as Somerville.

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty	
				Lab	Data	QA					
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	14.08	-	19.11	297	#			
Arsenic	mg/L	10/08/2009	0001	14.08	-	19.11	0.0036	#	0.000017		
Arsenic	mg/L	10/08/2009	0002	14.08	-	19.11	0.0037	#	0.000017		
Calcium	mg/L	10/08/2009	0001	14.08	-	19.11	250	J	#	0.0021	
Calcium	mg/L	10/08/2009	0002	14.08	-	19.11	260	J	#	0.0021	
Chloride	mg/L	10/08/2009	0001	14.08	-	19.11	82	#	4		
Chloride	mg/L	10/08/2009	0002	14.08	-	19.11	88	#	4		
Fluoride	mg/L	10/08/2009	0001	14.08	-	19.11	0.49	#	0.2		
Fluoride	mg/L	10/08/2009	0002	14.08	-	19.11	0.44	#	0.2		
Iron	mg/L	10/08/2009	0001	14.08	-	19.11	0.0016	U	#	0.0016	
Iron	mg/L	10/08/2009	0002	14.08	-	19.11	0.00160000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/08/2009	0001	14.08	-	19.11	57	#	0.0066		
Magnesium	mg/L	10/08/2009	0002	14.08	-	19.11	60	#	0.0066		
Manganese	mg/L	10/08/2009	0001	14.08	-	19.11	0.0001	U	#	0.0001	
Manganese	mg/L	10/08/2009	0002	14.08	-	19.11	0.0017	B	#	0.0001	
Molybdenum	mg/L	10/08/2009	0001	14.08	-	19.11	0.065	#	0.00067		
Molybdenum	mg/L	10/08/2009	0002	14.08	-	19.11	0.059	#	0.00067		
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	14.08	-	19.11	6.5	R	#	0.05	
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0002	14.08	-	19.11	1.4	#	0.01		
pH	s.u.	10/08/2009	N001	14.08	-	19.11	6.67	#			
Potassium	mg/L	10/08/2009	0001	14.08	-	19.11	17	J	#	0.092	
Potassium	mg/L	10/08/2009	0002	14.08	-	19.11	18	J	#	0.092	
Selenium	mg/L	10/08/2009	0001	14.08	-	19.11	0.037	#	0.000064		
Selenium	mg/L	10/08/2009	0002	14.08	-	19.11	0.032	#	0.000064		
Sodium	mg/L	10/08/2009	0001	14.08	-	19.11	130	J	#	0.0044	
Sodium	mg/L	10/08/2009	0002	14.08	-	19.11	130	J	#	0.0044	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: MW00-06 WELL Erroneously labeled as Somerville.

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Specific Conductance	umhos /cm	10/08/2009	N001	14.08	-	19.11	1885			#		
Sulfate	mg/L	10/08/2009	0001	14.08	-	19.11	690			#	10	
Sulfate	mg/L	10/08/2009	0002	14.08	-	19.11	720			#	10	
Temperature	C	10/08/2009	N001	14.08	-	19.11	10.53			#		
Total Dissolved Solids	mg/L	10/08/2009	0001	14.08	-	19.11	1500			#	40	
Total Dissolved Solids	mg/L	10/08/2009	0002	14.08	-	19.11	1400			#	40	
Turbidity	NTU	10/08/2009	N001	14.08	-	19.11	1.02			#		
Uranium	mg/L	10/08/2009	0001	14.08	-	19.11	0.76			#	0.000017	
Uranium	mg/L	10/08/2009	0002	14.08	-	19.11	0.7			#	0.000017	
Vanadium	mg/L	10/08/2009	0001	14.08	-	19.11	0.15			#	0.0017	
Vanadium	mg/L	10/08/2009	0002	14.08	-	19.11	0.13			#	0.0017	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: MW00-07 WELL Erroneously labeled as Somerville.

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty	
				Lab	Data	QA					
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	17.17	-	22.2	357	#			
Arsenic	mg/L	10/08/2009	0001	17.17	-	22.2	0.00093	#	0.0000084		
Calcium	mg/L	10/08/2009	0001	17.17	-	22.2	290	J	#	0.0021	
Chloride	mg/L	10/08/2009	0001	17.17	-	22.2	98	#	4		
Fluoride	mg/L	10/08/2009	0001	17.17	-	22.2	0.42	#	0.2		
Iron	mg/L	10/08/2009	0001	17.17	-	22.2	0.00160000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/08/2009	0001	17.17	-	22.2	59	#	0.0066		
Manganese	mg/L	10/08/2009	0001	17.17	-	22.2	0.1	#	0.0001		
Molybdenum	mg/L	10/08/2009	0001	17.17	-	22.2	0.034	#	0.00067		
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	17.17	-	22.2	1.1	#	0.01		
pH	s.u.	10/08/2009	N001	17.17	-	22.2	6.57	#			
Potassium	mg/L	10/08/2009	0001	17.17	-	22.2	16	J	#	0.092	
Selenium	mg/L	10/08/2009	0001	17.17	-	22.2	0.024	#	0.000064		
Sodium	mg/L	10/08/2009	0001	17.17	-	22.2	150	J	#	0.0044	
Specific Conductance	umhos /cm	10/08/2009	N001	17.17	-	22.2	2044	#			
Sulfate	mg/L	10/08/2009	0001	17.17	-	22.2	730	#	10		
Temperature	C	10/08/2009	N001	17.17	-	22.2	10.98	#			
Turbidity	NTU	10/08/2009	N001	17.17	-	22.2	32.1	#			
Uranium	mg/L	10/08/2009	0001	17.17	-	22.2	0.46	#	0.000017		
Vanadium	mg/L	10/08/2009	0001	17.17	-	22.2	0.037	#	0.0017		

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: P92-06 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	11.7	-	14.2	337			#		
Arsenic	mg/L	10/07/2009	0001	11.7	-	14.2	0.0002			#	0.0000084	
Arsenic	mg/L	10/07/2009	0002	11.7	-	14.2	0.00017			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	11.7	-	14.2	360	J		#	0.0021	
Calcium	mg/L	10/07/2009	0002	11.7	-	14.2	360	J		#	0.0021	
Chloride	mg/L	10/07/2009	0001	11.7	-	14.2	120			#	4	
Chloride	mg/L	10/07/2009	0002	11.7	-	14.2	120			#	4	
Fluoride	mg/L	10/07/2009	0001	11.7	-	14.2	0.26			#	0.2	
Fluoride	mg/L	10/07/2009	0002	11.7	-	14.2	0.39			#	0.2	
Iron	mg/L	10/07/2009	0001	11.7	-	14.2	0.0016	U		#	0.0016	
Iron	mg/L	10/07/2009	0002	11.7	-	14.2	0.00160000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	11.7	-	14.2	96			#	0.0066	
Magnesium	mg/L	10/07/2009	0002	11.7	-	14.2	97			#	0.0066	
Manganese	mg/L	10/07/2009	0001	11.7	-	14.2	0.0001	U		#	0.0001	
Manganese	mg/L	10/07/2009	0002	11.7	-	14.2	0.0001	U		#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	11.7	-	14.2	0.025			#	0.00067	
Molybdenum	mg/L	10/07/2009	0002	11.7	-	14.2	0.026			#	0.00067	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	11.7	-	14.2	2.4			#	0.02	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0002	11.7	-	14.2	2.4			#	0.02	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: P92-06 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
pH	s.u.	10/07/2009	N001	11.7	-	14.2	6.67			#		
Potassium	mg/L	10/07/2009	0001	11.7	-	14.2	14		J	#	0.092	
Potassium	mg/L	10/07/2009	0002	11.7	-	14.2	15		J	#	0.092	
Selenium	mg/L	10/07/2009	0001	11.7	-	14.2	0.025			#	0.000064	
Selenium	mg/L	10/07/2009	0002	11.7	-	14.2	0.024			#	0.000064	
Sodium	mg/L	10/07/2009	0001	11.7	-	14.2	210		J	#	0.0044	
Sodium	mg/L	10/07/2009	0002	11.7	-	14.2	220		J	#	0.0044	
Specific Conductance	umhos /cm	10/07/2009	N001	11.7	-	14.2	2632			#		
Sulfate	mg/L	10/07/2009	0001	11.7	-	14.2	1100			#	10	
Sulfate	mg/L	10/07/2009	0002	11.7	-	14.2	1200			#	10	
Temperature	C	10/07/2009	N001	11.7	-	14.2	10.71			#		
Total Dissolved Solids	mg/L	10/07/2009	0002	11.7	-	14.2	2200			#	40	
Turbidity	NTU	10/07/2009	N001	11.7	-	14.2	1.46			#		
Uranium	mg/L	10/07/2009	0001	11.7	-	14.2	0.69			#	0.000017	
Uranium	mg/L	10/07/2009	0002	11.7	-	14.2	0.68			#	0.000017	
Vanadium	mg/L	10/07/2009	0001	11.7	-	14.2	0.00045		J	#	0.00005	
Vanadium	mg/L	10/07/2009	0002	11.7	-	14.2	0.0004			#	0.00005	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: PW-10 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				27.91	-	32.91		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	27.91	-	32.91	339		#	
Arsenic	mg/L	10/08/2009	0001	27.91	-	32.91	0.0046		#	0.000017
Calcium	mg/L	10/08/2009	0001	27.91	-	32.91	270	J	#	0.0021
Chloride	mg/L	10/08/2009	0001	27.91	-	32.91	73		#	4
Fluoride	mg/L	10/08/2009	0001	27.91	-	32.91	0.45		#	0.2
Iron	mg/L	10/08/2009	0001	27.91	-	32.91	0.021	B	#	0.0016
Magnesium	mg/L	10/08/2009	0001	27.91	-	32.91	53		#	0.0066
Manganese	mg/L	10/08/2009	0001	27.91	-	32.91	0.04		#	0.0001
Molybdenum	mg/L	10/08/2009	0001	27.91	-	32.91	0.1		#	0.00067
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	27.91	-	32.91	1.2		#	0.01
pH	s.u.	10/08/2009	N001	27.91	-	32.91	7.22		#	
Potassium	mg/L	10/08/2009	0001	27.91	-	32.91	18	J	#	0.092
Selenium	mg/L	10/08/2009	0001	27.91	-	32.91	0.036		#	0.000064
Sodium	mg/L	10/08/2009	0001	27.91	-	32.91	140	J	#	0.0044
Specific Conductance	umhos /cm	10/08/2009	N001	27.91	-	32.91	2004		#	
Sulfate	mg/L	10/08/2009	0001	27.91	-	32.91	740		#	10
Temperature	C	10/08/2009	N001	27.91	-	32.91	12.67		#	
Turbidity	NTU	10/08/2009	N001	27.91	-	32.91	183		#	
Uranium	mg/L	10/08/2009	0001	27.91	-	32.91	0.95		#	0.000017
Vanadium	mg/L	10/08/2009	0001	27.91	-	32.91	0.17		#	0.0017

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: PW-17 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	30.47	-	35.47	320		#		
Arsenic	mg/L	10/06/2009	0001	30.47	-	35.47	0.0084		#	0.000017	
Calcium	mg/L	10/06/2009	0001	30.47	-	35.47	270	J	#	0.0021	
Chloride	mg/L	10/06/2009	0001	30.47	-	35.47	66		#	4	
Dissolved Oxygen	mg/L	10/06/2009	N001	30.47	-	35.47	8.33		#		
Fluoride	mg/L	10/06/2009	0001	30.47	-	35.47	0.53		#	0.2	
Iron	mg/L	10/06/2009	0001	30.47	-	35.47	0.048	B	#	0.0016	
Magnesium	mg/L	10/06/2009	0001	30.47	-	35.47	58		#	0.0066	
Manganese	mg/L	10/06/2009	0001	30.47	-	35.47	0.012		#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	30.47	-	35.47	0.12		#	0.0013	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	30.47	-	35.47	1.4		#	0.01	
Oxidation Reduction Potential	mV	10/06/2009	N001	30.47	-	35.47	46.5		#		
pH	s.u.	10/06/2009	N001	30.47	-	35.47	6.82		#		
Potassium	mg/L	10/06/2009	0001	30.47	-	35.47	20	J	#	0.092	
Selenium	mg/L	10/06/2009	0001	30.47	-	35.47	0.037		#	0.000064	
Sodium	mg/L	10/06/2009	0001	30.47	-	35.47	130	J	#	0.0044	
Specific Conductance	umhos /cm	10/06/2009	N001	30.47	-	35.47	2006		#		
Sulfate	mg/L	10/06/2009	0001	30.47	-	35.47	780		#	10	
Temperature	C	10/06/2009	N001	30.47	-	35.47	11.11		#		
Uranium	mg/L	10/06/2009	0001	30.47	-	35.47	1.1		#	0.000035	
Vanadium	mg/L	10/06/2009	0001	30.47	-	35.47	0.32		#	0.0033	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: PW-28 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	-	400		#		
Arsenic	mg/L	10/07/2009	0001	-	0.0022		#	0.0000084	
Calcium	mg/L	10/07/2009	0001	-	340	J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	-	130		#	4	
Fluoride	mg/L	10/07/2009	0001	-	0.48		#	0.2	
Iron	mg/L	10/07/2009	0001	-	0.0016	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	-	80		#	0.0066	
Manganese	mg/L	10/07/2009	0001	-	0.0001	U	#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	-	0.016		#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	-	5.5		#	0.05	
pH	s.u.	10/07/2009	N001	-	6.7		#		
Potassium	mg/L	10/07/2009	0001	-	7.1	J	#	0.092	
Selenium	mg/L	10/07/2009	0001	-	0.027		#	0.000064	
Sodium	mg/L	10/07/2009	0001	-	160	J	#	0.0044	
Specific Conductance	umhos /cm	10/07/2009	N001	-	2387		#		
Sulfate	mg/L	10/07/2009	0001	-	850		#	10	
Temperature	C	10/07/2009	N001	-	13		#		
Turbidity	NTU	10/07/2009	N001	-	4.2		#		
Uranium	mg/L	10/07/2009	0001	-	0.18		#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	-	0.2		#	0.00083	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R1-M3 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty	
				Lab	Data	QA					
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	8.5	-	13.5	309	#			
Arsenic	mg/L	10/06/2009	0001	8.5	-	13.5	0.014	#	0.000017		
Calcium	mg/L	10/06/2009	0001	8.5	-	13.5	280	J	#	0.0021	
Chloride	mg/L	10/06/2009	0001	8.5	-	13.5	77	#	4		
Dissolved Oxygen	mg/L	10/06/2009	N001	8.5	-	13.5	1.1	#			
Fluoride	mg/L	10/06/2009	0001	8.5	-	13.5	0.56	#	0.2		
Iron	mg/L	10/06/2009	0001	8.5	-	13.5	0.0016000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/06/2009	0001	8.5	-	13.5	55	#	0.0066		
Manganese	mg/L	10/06/2009	0001	8.5	-	13.5	0.038	#	0.0001		
Molybdenum	mg/L	10/06/2009	0001	8.5	-	13.5	0.067	#	0.00067		
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	8.5	-	13.5	1.6	#	0.01		
Oxidation Reduction Potential	mV	10/06/2009	N001	8.5	-	13.5	27	#			
pH	s.u.	10/06/2009	N001	8.5	-	13.5	6.89	#			
Potassium	mg/L	10/06/2009	0001	8.5	-	13.5	18	J	#	0.092	
Selenium	mg/L	10/06/2009	0001	8.5	-	13.5	0.05	#	0.00016		
Sodium	mg/L	10/06/2009	0001	8.5	-	13.5	110	J	#	0.0044	
Specific Conductance	umhos /cm	10/06/2009	N001	8.5	-	13.5	1855	#			
Sulfate	mg/L	10/06/2009	0001	8.5	-	13.5	640	#	10		
Temperature	C	10/06/2009	N001	8.5	-	13.5	12	#			
Turbidity	NTU	10/06/2009	N001	8.5	-	13.5	29.6	#			
Uranium	mg/L	10/06/2009	0001	8.5	-	13.5	0.6	#	0.000017		
Vanadium	mg/L	10/06/2009	0001	8.5	-	13.5	0.41	#	0.0017		

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R1-M4 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/05/2009	0001	8.49	-	13.49	340		#		
Arsenic	mg/L	10/05/2009	0001	8.49	-	13.49	0.0096		#	0.000017	
Calcium	mg/L	10/05/2009	0001	8.49	-	13.49	280	J	#	0.0021	
Chloride	mg/L	10/05/2009	0001	8.49	-	13.49	78		#	4	
Dissolved Oxygen	mg/L	10/05/2009	N001	8.49	-	13.49	2.77		#		
Fluoride	mg/L	10/05/2009	0001	8.49	-	13.49	0.56		#	0.2	
Iron	mg/L	10/05/2009	0001	8.49	-	13.49	0.0016000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/05/2009	0001	8.49	-	13.49	56		#	0.0066	
Manganese	mg/L	10/05/2009	0001	8.49	-	13.49	0.035		#	0.0001	
Molybdenum	mg/L	10/05/2009	0001	8.49	-	13.49	0.069		#	0.00067	
Nitrate + Nitrite as Nitrogen	mg/L	10/05/2009	0001	8.49	-	13.49	1		#	0.01	
Oxidation Reduction Potential	mV	10/05/2009	N001	8.49	-	13.49	-13		#		
pH	s.u.	10/05/2009	N001	8.49	-	13.49	6.86		#		
Potassium	mg/L	10/05/2009	0001	8.49	-	13.49	14	J	#	0.092	
Selenium	mg/L	10/05/2009	0001	8.49	-	13.49	0.035		#	0.000064	
Sodium	mg/L	10/05/2009	0001	8.49	-	13.49	110	J	#	0.0044	
Specific Conductance	umhos /cm	10/05/2009	N001	8.49	-	13.49	1855		#		
Sulfate	mg/L	10/05/2009	0001	8.49	-	13.49	640		#	10	
Temperature	C	10/05/2009	N001	8.49	-	13.49	13		#		
Turbidity	NTU	10/05/2009	N001	8.49	-	13.49	20.1		#		
Uranium	mg/L	10/05/2009	0001	8.49	-	13.49	0.54		#	0.000017	
Vanadium	mg/L	10/05/2009	0001	8.49	-	13.49	0.33		#	0.0017	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R10-M1 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				10.25	-	15.25		Lab Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	10.25	-	15.25	200		#	
Arsenic	mg/L	10/06/2009	0001	10.25	-	15.25	0.00086		#	0.0000084
Calcium	mg/L	10/06/2009	0001	10.25	-	15.25	160	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	10.25	-	15.25	91		#	4
Dissolved Oxygen	mg/L	10/06/2009	N001	10.25	-	15.25	1.62		#	
Fluoride	mg/L	10/06/2009	0001	10.25	-	15.25	0.24		#	0.2
Iron	mg/L	10/06/2009	0001	10.25	-	15.25	0.016	B	#	0.0016
Magnesium	mg/L	10/06/2009	0001	10.25	-	15.25	61		#	0.0066
Manganese	mg/L	10/06/2009	0001	10.25	-	15.25	1.1		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	10.25	-	15.25	0.0046		#	0.000034
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	10.25	-	15.25	0.069		#	0.01
Oxidation Reduction Potential	mV	10/06/2009	N001	10.25	-	15.25	-8		#	
pH	s.u.	10/06/2009	N001	10.25	-	15.25	6.78		#	
Potassium	mg/L	10/06/2009	0001	10.25	-	15.25	15	J	#	0.092
Selenium	mg/L	10/06/2009	0001	10.25	-	15.25	0.00046		#	0.000032
Sodium	mg/L	10/06/2009	0001	10.25	-	15.25	120	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	10.25	-	15.25	1625		#	
Sulfate	mg/L	10/06/2009	0001	10.25	-	15.25	550		#	10
Temperature	C	10/06/2009	N001	10.25	-	15.25	12.1		#	
Turbidity	NTU	10/06/2009	N001	10.25	-	15.25	64.7		#	
Uranium	mg/L	10/06/2009	0001	10.25	-	15.25	0.0086		#	0.00000087
Vanadium	mg/L	10/06/2009	0001	10.25	-	15.25	0.031		#	0.000084

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R3-M2 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				9.16	-	14.16		Lab Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	9.16	-	14.16	333		#	
Arsenic	mg/L	10/06/2009	0001	9.16	-	14.16	0.00024		#	0.0000084
Calcium	mg/L	10/06/2009	0001	9.16	-	14.16	260	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	9.16	-	14.16	79		#	4
Dissolved Oxygen	mg/L	10/06/2009	N001	9.16	-	14.16	1.45		#	
Fluoride	mg/L	10/06/2009	0001	9.16	-	14.16	0.51		#	0.2
Iron	mg/L	10/06/2009	0001	9.16	-	14.16	6.5		#	0.0016
Magnesium	mg/L	10/06/2009	0001	9.16	-	14.16	55		#	0.0066
Manganese	mg/L	10/06/2009	0001	9.16	-	14.16	0.25		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	9.16	-	14.16	0.069		#	0.00067
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	9.16	-	14.16	0.01	U	#	0.01
Oxidation Reduction Potential	mV	10/06/2009	N001	9.16	-	14.16	-113		#	
pH	s.u.	10/06/2009	N001	9.16	-	14.16	7.23		#	
Potassium	mg/L	10/06/2009	0001	9.16	-	14.16	16	J	#	0.092
Selenium	mg/L	10/06/2009	0001	9.16	-	14.16	0.0031		#	0.000032
Sodium	mg/L	10/06/2009	0001	9.16	-	14.16	110	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	9.16	-	14.16	1875		#	
Sulfate	mg/L	10/06/2009	0001	9.16	-	14.16	640		#	10
Temperature	C	10/06/2009	N001	9.16	-	14.16	12		#	
Turbidity	NTU	10/06/2009	N001	9.16	-	14.16	8.58		#	
Uranium	mg/L	10/06/2009	0001	9.16	-	14.16	0.48		#	0.000017
Vanadium	mg/L	10/06/2009	0001	9.16	-	14.16	0.0013		#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R3-M3 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				8.43	-	13.43		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	8.43	-	13.43	671		#	
Arsenic	mg/L	10/06/2009	0001	8.43	-	13.43	0.00019		#	0.0000084
Calcium	mg/L	10/06/2009	0001	8.43	-	13.43	240	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	8.43	-	13.43	79		#	4
Dissolved Oxygen	mg/L	10/06/2009	N001	8.43	-	13.43	0.57		#	
Fluoride	mg/L	10/06/2009	0001	8.43	-	13.43	0.46		#	0.2
Iron	mg/L	10/06/2009	0001	8.43	-	13.43	8.8		#	0.0016
Magnesium	mg/L	10/06/2009	0001	8.43	-	13.43	55		#	0.0066
Manganese	mg/L	10/06/2009	0001	8.43	-	13.43	0.2		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	8.43	-	13.43	0.056		#	0.00034
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	8.43	-	13.43	0.01	U	#	0.01
Oxidation Reduction Potential	mV	10/06/2009	N001	8.43	-	13.43	-137		#	
pH	s.u.	10/06/2009	N001	8.43	-	13.43	7.55		#	
Potassium	mg/L	10/06/2009	0001	8.43	-	13.43	16	J	#	0.092
Selenium	mg/L	10/06/2009	0001	8.43	-	13.43	0.0003		#	0.000032
Sodium	mg/L	10/06/2009	0001	8.43	-	13.43	110	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	8.43	-	13.43	1775		#	
Sulfate	mg/L	10/06/2009	0001	8.43	-	13.43	610		#	10
Temperature	C	10/06/2009	N001	8.43	-	13.43	11.2		#	
Turbidity	NTU	10/06/2009	N001	8.43	-	13.43	6.87		#	
Uranium	mg/L	10/06/2009	0001	8.43	-	13.43	0.31		#	0.0000087
Vanadium	mg/L	10/06/2009	0001	8.43	-	13.43	0.000094	B J	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R4-M3 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty	
				9.04	-	14.04		Lab	Data	QA	
Arsenic	mg/L	10/06/2009	0001	9.04	-	14.04	0.00000839999999999999 92	B	U	#	0.0000084
Calcium	mg/L	10/06/2009	0001	9.04	-	14.04	11	J	#	0.0021	
Dissolved Oxygen	mg/L	10/06/2009	N001	9.04	-	14.04	1.85		#		
Iron	mg/L	10/06/2009	0001	9.04	-	14.04	0.025	B	#	0.0016	
Magnesium	mg/L	10/06/2009	0001	9.04	-	14.04	23		#	0.0066	
Manganese	mg/L	10/06/2009	0001	9.04	-	14.04	0.02		#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	9.04	-	14.04	0.012		#	0.00002	
Oxidation Reduction Potential	mV	10/06/2009	N001	9.04	-	14.04	-150		#		
pH	s.u.	10/06/2009	N001	9.04	-	14.04	9		#		
Potassium	mg/L	10/06/2009	0001	9.04	-	14.04	17	J	#	0.092	
Selenium	mg/L	10/06/2009	0001	9.04	-	14.04	0.00014		#	0.000032	
Sodium	mg/L	10/06/2009	0001	9.04	-	14.04	66	J	#	0.0044	
Specific Conductance	umhos /cm	10/06/2009	N001	9.04	-	14.04	895		#		
Temperature	C	10/06/2009	N001	9.04	-	14.04	11.6		#		
Turbidity	NTU	10/06/2009	N001	9.04	-	14.04	24.5		#		
Uranium	mg/L	10/06/2009	0001	9.04	-	14.04	0.00013		#	0.00000052	
Vanadium	mg/L	10/06/2009	0001	9.04	-	14.04	0.00013	B	J	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R4-M6 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				8.47	-	13.47		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	8.47	-	13.47	56		#	
Arsenic	mg/L	10/06/2009	0001	8.47	-	13.47	0.0000083999999999999999 92	B	U	# 0.0000084
Calcium	mg/L	10/06/2009	0001	8.47	-	13.47	13	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	8.47	-	13.47	83		#	2
Dissolved Oxygen	mg/L	10/06/2009	N001	8.47	-	13.47	1.45		#	
Fluoride	mg/L	10/06/2009	0001	8.47	-	13.47	0.1	U	#	0.1
Iron	mg/L	10/06/2009	0001	8.47	-	13.47	0.013	B	#	0.0016
Magnesium	mg/L	10/06/2009	0001	8.47	-	13.47	25		#	0.0066
Manganese	mg/L	10/06/2009	0001	8.47	-	13.47	0.019		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	8.47	-	13.47	0.018		#	0.00002
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	8.47	-	13.47	0.01	U	#	0.01
Oxidation Reduction Potential	mV	10/06/2009	N001	8.47	-	13.47	-86		#	
pH	s.u.	10/06/2009	N001	8.47	-	13.47	9.48		#	
Potassium	mg/L	10/06/2009	0001	8.47	-	13.47	13	J	#	0.092
Selenium	mg/L	10/06/2009	0001	8.47	-	13.47	0.000032	U	#	0.000032
Sodium	mg/L	10/06/2009	0001	8.47	-	13.47	86	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	8.47	-	13.47	820		#	
Sulfate	mg/L	10/06/2009	0001	8.47	-	13.47	270		#	5
Temperature	C	10/06/2009	N001	8.47	-	13.47	9.3		#	
Turbidity	NTU	10/06/2009	N001	8.47	-	13.47	29.2		#	
Uranium	mg/L	10/06/2009	0001	8.47	-	13.47	0.000015	B	#	0.00000052
Vanadium	mg/L	10/06/2009	0001	8.47	-	13.47	0.000052	B	J	# 0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R6-M3 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				7.72	-	12.72		Lab Data	QA	
Arsenic	mg/L	10/06/2009	0001	7.72	-	12.72	0.0068		#	0.0000084
Calcium	mg/L	10/06/2009	0001	7.72	-	12.72	240	J	#	0.0021
Dissolved Oxygen	mg/L	10/06/2009	N001	7.72	-	12.72	1.75		#	
Iron	mg/L	10/06/2009	0001	7.72	-	12.72	3		#	0.0016
Magnesium	mg/L	10/06/2009	0001	7.72	-	12.72	49		#	0.0066
Manganese	mg/L	10/06/2009	0001	7.72	-	12.72	1.3		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	7.72	-	12.72	0.02		#	0.000034
Oxidation Reduction Potential	mV	10/06/2009	N001	7.72	-	12.72	-73		#	
pH	s.u.	10/06/2009	N001	7.72	-	12.72	6.86		#	
Potassium	mg/L	10/06/2009	0001	7.72	-	12.72	13	J	#	0.092
Selenium	mg/L	10/06/2009	0001	7.72	-	12.72	0.000094	B	#	0.000032
Sodium	mg/L	10/06/2009	0001	7.72	-	12.72	140	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	7.72	-	12.72	1950		#	
Temperature	C	10/06/2009	N001	7.72	-	12.72	12		#	
Turbidity	NTU	10/06/2009	N001	7.72	-	12.72	110		#	
Uranium	mg/L	10/06/2009	0001	7.72	-	12.72	0.041		#	0.00000087
Vanadium	mg/L	10/06/2009	0001	7.72	-	12.72	0.0062		#	0.000084

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: R6-M4 WELL Pert Wall

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				7.96	-	12.96		Lab Data	QA	
Arsenic	mg/L	10/06/2009	0001	7.96	-	12.96	0.0022		#	0.0000084
Calcium	mg/L	10/06/2009	0001	7.96	-	12.96	45	J	#	0.0021
Dissolved Oxygen	mg/L	10/06/2009	N001	7.96	-	12.96	0.89		#	
Iron	mg/L	10/06/2009	0001	7.96	-	12.96	2.6		#	0.0016
Magnesium	mg/L	10/06/2009	0001	7.96	-	12.96	42		#	0.0066
Manganese	mg/L	10/06/2009	0001	7.96	-	12.96	0.25		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	7.96	-	12.96	0.013		#	0.00002
Oxidation Reduction Potential	mV	10/06/2009	N001	7.96	-	12.96	-105		#	
pH	s.u.	10/06/2009	N001	7.96	-	12.96	7.46		#	
Potassium	mg/L	10/06/2009	0001	7.96	-	12.96	13	J	#	0.092
Selenium	mg/L	10/06/2009	0001	7.96	-	12.96	0.00029		#	0.000032
Sodium	mg/L	10/06/2009	0001	7.96	-	12.96	98	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	7.96	-	12.96	1110		#	
Temperature	C	10/06/2009	N001	7.96	-	12.96	10.3		#	
Turbidity	NTU	10/06/2009	N001	7.96	-	12.96	15.7		#	
Uranium	mg/L	10/06/2009	0001	7.96	-	12.96	0.00083		#	0.00000052
Vanadium	mg/L	10/06/2009	0001	7.96	-	12.96	0.00072		#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T00-01 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				7.2	-	12.2		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	7.2	-	12.2	273		#	
Arsenic	mg/L	10/07/2009	0001	7.2	-	12.2	0.0085		#	0.0000084
Calcium	mg/L	10/07/2009	0001	7.2	-	12.2	200	J	#	0.0021
Chloride	mg/L	10/07/2009	0001	7.2	-	12.2	39		#	4
Fluoride	mg/L	10/07/2009	0001	7.2	-	12.2	0.48		#	0.2
Iron	mg/L	10/07/2009	0001	7.2	-	12.2	0.0016	U	#	0.0016
Magnesium	mg/L	10/07/2009	0001	7.2	-	12.2	35		#	0.0066
Manganese	mg/L	10/07/2009	0001	7.2	-	12.2	0.26		#	0.0001
Molybdenum	mg/L	10/07/2009	0001	7.2	-	12.2	0.024		#	0.00034
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	7.2	-	12.2	0.01	U	#	0.01
pH	s.u.	10/07/2009	N001	7.2	-	12.2	6.79		#	
Potassium	mg/L	10/07/2009	0001	7.2	-	12.2	10	J	#	0.092
Selenium	mg/L	10/07/2009	0001	7.2	-	12.2	0.0026		#	0.000032
Sodium	mg/L	10/07/2009	0001	7.2	-	12.2	78	J	#	0.0044
Specific Conductance	umhos /cm	10/07/2009	N001	7.2	-	12.2	1422		#	
Sulfate	mg/L	10/07/2009	0001	7.2	-	12.2	490		#	10
Temperature	C	10/07/2009	N001	7.2	-	12.2	15.15		#	
Turbidity	NTU	10/07/2009	N001	7.2	-	12.2	1.8		#	
Uranium	mg/L	10/07/2009	0001	7.2	-	12.2	0.12		#	0.0000087
Vanadium	mg/L	10/07/2009	0001	7.2	-	12.2	0.18		#	0.00083

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-02 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				Lab	Data	QA				
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	6.43	-	11.43	337	#		
Arsenic	mg/L	10/07/2009	0001	6.43	-	11.43	0.022	#	0.000017	
Calcium	mg/L	10/07/2009	0001	6.43	-	11.43	310	E J #	0.0021	
Chloride	mg/L	10/07/2009	0001	6.43	-	11.43	72	#	4	
Fluoride	mg/L	10/07/2009	0001	6.43	-	11.43	0.51	#	0.2	
Iron	mg/L	10/07/2009	0001	6.43	-	11.43	0.0016	U	#	0.0016
Magnesium	mg/L	10/07/2009	0001	6.43	-	11.43	55	#	0.0066	
Manganese	mg/L	10/07/2009	0001	6.43	-	11.43	0.0001	U	#	0.0001
Molybdenum	mg/L	10/07/2009	0001	6.43	-	11.43	0.023	#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	6.43	-	11.43	1.2	#	0.01	
pH	s.u.	10/07/2009	N001	6.43	-	11.43	6.95	#		
Potassium	mg/L	10/07/2009	0001	6.43	-	11.43	10	EN J #	0.092	
Selenium	mg/L	10/07/2009	0001	6.43	-	11.43	0.029	#	0.000064	
Sodium	mg/L	10/07/2009	0001	6.43	-	11.43	100	E J #	0.0044	
Specific Conductance	umhos /cm	10/07/2009	N001	6.43	-	11.43	1875	#		
Sulfate	mg/L	10/07/2009	0001	6.43	-	11.43	690	#	10	
Temperature	C	10/07/2009	N001	6.43	-	11.43	14.81	#		
Turbidity	NTU	10/07/2009	N001	6.43	-	11.43	4.15	#		
Uranium	mg/L	10/07/2009	0001	6.43	-	11.43	0.18	#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	6.43	-	11.43	0.52	#	0.00083	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-04 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				11.72	-	16.72		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	11.72	-	16.72	360		#	
Arsenic	mg/L	10/07/2009	0001	11.72	-	16.72	0.015		#	0.0000084
Calcium	mg/L	10/07/2009	0001	11.72	-	16.72	330	J	#	0.0021
Chloride	mg/L	10/07/2009	0001	11.72	-	16.72	85		#	10
Fluoride	mg/L	10/07/2009	0001	11.72	-	16.72	0.52		#	0.2
Iron	mg/L	10/07/2009	0001	11.72	-	16.72	0.0016	U	#	0.0016
Magnesium	mg/L	10/07/2009	0001	11.72	-	16.72	62		#	0.0066
Manganese	mg/L	10/07/2009	0001	11.72	-	16.72	0.0094		#	0.0001
Molybdenum	mg/L	10/07/2009	0001	11.72	-	16.72	0.013		#	0.00034
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	11.72	-	16.72	2.7		#	0.02
pH	s.u.	10/07/2009	N001	11.72	-	16.72	6.83		#	
Potassium	mg/L	10/07/2009	0001	11.72	-	16.72	7.7	J	#	0.092
Selenium	mg/L	10/07/2009	0001	11.72	-	16.72	0.023		#	0.000064
Sodium	mg/L	10/07/2009	0001	11.72	-	16.72	110	J	#	0.0044
Specific Conductance	umhos /cm	10/07/2009	N001	11.72	-	16.72	1975		#	
Sulfate	mg/L	10/07/2009	0001	11.72	-	16.72	700		#	25
Temperature	C	10/07/2009	N001	11.72	-	16.72	13.75		#	
Turbidity	NTU	10/07/2009	N001	11.72	-	16.72	117		#	
Uranium	mg/L	10/07/2009	0001	11.72	-	16.72	0.14		#	0.0000087
Vanadium	mg/L	10/07/2009	0001	11.72	-	16.72	0.36		#	0.00083

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-05 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Detection Limit	Uncertainty
				18.56	-	23.56		Lab	Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	18.56	-	23.56	366			#	
Arsenic	mg/L	10/07/2009	0001	18.56	-	23.56	0.015			#	0.0000084
Calcium	mg/L	10/07/2009	0001	18.56	-	23.56	320	J		#	0.0021
Chloride	mg/L	10/07/2009	0001	18.56	-	23.56	89			#	4
Fluoride	mg/L	10/07/2009	0001	18.56	-	23.56	0.46			#	0.2
Iron	mg/L	10/07/2009	0001	18.56	-	23.56	0.00160000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/07/2009	0001	18.56	-	23.56	60			#	0.0066
Manganese	mg/L	10/07/2009	0001	18.56	-	23.56	0.0001	U		#	0.0001
Molybdenum	mg/L	10/07/2009	0001	18.56	-	23.56	0.01			#	0.00034
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	18.56	-	23.56	2.8			#	0.02
pH	s.u.	10/07/2009	N001	18.56	-	23.56	6.8			#	
Potassium	mg/L	10/07/2009	0001	18.56	-	23.56	6.5	J		#	0.092
Selenium	mg/L	10/07/2009	0001	18.56	-	23.56	0.021			#	0.000064
Sodium	mg/L	10/07/2009	0001	18.56	-	23.56	110	J		#	0.0044
Specific Conductance	umhos /cm	10/07/2009	N001	18.56	-	23.56	1998			#	
Sulfate	mg/L	10/07/2009	0001	18.56	-	23.56	740			#	10
Temperature	C	10/07/2009	N001	18.56	-	23.56	13.85			#	
Turbidity	NTU	10/07/2009	N001	18.56	-	23.56	4.52			#	
Uranium	mg/L	10/07/2009	0001	18.56	-	23.56	0.13			#	0.0000087
Vanadium	mg/L	10/07/2009	0001	18.56	-	23.56	0.33			#	0.00083

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-07 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers		Detection Limit	Uncertainty
				17.25	-	22.2		Lab	Data	QA	
Alkalinity, Total (As CaCO3)	mg/L	10/05/2009	0001	17.25	-	22.2	379			#	
Arsenic	mg/L	10/05/2009	0001	17.25	-	22.2	0.0045			#	0.000017
Calcium	mg/L	10/05/2009	0001	17.25	-	22.2	390	J		#	0.0021
Chloride	mg/L	10/05/2009	0001	17.25	-	22.2	150			#	10
Fluoride	mg/L	10/05/2009	0001	17.25	-	22.2	0.71			#	0.5
Iron	mg/L	10/05/2009	0001	17.25	-	22.2	0.00160000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/05/2009	0001	17.25	-	22.2	100			#	0.0066
Manganese	mg/L	10/05/2009	0001	17.25	-	22.2	0.0012	B		#	0.0001
Molybdenum	mg/L	10/05/2009	0001	17.25	-	22.2	0.0054			#	0.000067
Nitrate + Nitrite as Nitrogen	mg/L	10/05/2009	0001	17.25	-	22.2	7.9			#	0.1
pH	s.u.	10/05/2009	N001	17.25	-	22.2	6.56			#	
Potassium	mg/L	10/05/2009	0001	17.25	-	22.2	6.3	J		#	0.092
Selenium	mg/L	10/05/2009	0001	17.25	-	22.2	0.025			#	0.000064
Sodium	mg/L	10/05/2009	0001	17.25	-	22.2	190	J		#	0.0044
Specific Conductance	umhos /cm	10/05/2009	N001	17.25	-	22.2	2612			#	
Sulfate	mg/L	10/05/2009	0001	17.25	-	22.2	910			#	25
Temperature	C	10/05/2009	N001	17.25	-	22.2	12.18			#	
Turbidity	NTU	10/05/2009	N001	17.25	-	22.2	3.93			#	
Uranium	mg/L	10/05/2009	0001	17.25	-	22.2	0.15			#	0.000017
Vanadium	mg/L	10/05/2009	0001	17.25	-	22.2	0.11			#	0.00017

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-12 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				Lab	Data	QA				
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	18.5	-	23.4	393	#		
Arsenic	mg/L	10/08/2009	0001	18.5	-	23.4	0.0031	#	0.000017	
Calcium	mg/L	10/08/2009	0001	18.5	-	23.4	350	J	#	0.0021
Chloride	mg/L	10/08/2009	0001	18.5	-	23.4	150	#	4	
Fluoride	mg/L	10/08/2009	0001	18.5	-	23.4	0.46	#	0.2	
Iron	mg/L	10/08/2009	0001	18.5	-	23.4	0.0016	U	#	0.0016
Magnesium	mg/L	10/08/2009	0001	18.5	-	23.4	74	#	0.0066	
Manganese	mg/L	10/08/2009	0001	18.5	-	23.4	0.0001	U	#	0.0001
Molybdenum	mg/L	10/08/2009	0001	18.5	-	23.4	0.0044	#	0.000067	
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	18.5	-	23.4	8.8	#	0.1	
pH	s.u.	10/08/2009	N001	18.5	-	23.4	6.79	#		
Potassium	mg/L	10/08/2009	0001	18.5	-	23.4	5.7	J	#	0.092
Selenium	mg/L	10/08/2009	0001	18.5	-	23.4	0.026	#	0.000064	
Sodium	mg/L	10/08/2009	0001	18.5	-	23.4	150	J	#	0.0044
Specific Conductance	umhos /cm	10/08/2009	N001	18.5	-	23.4	2332	#		
Sulfate	mg/L	10/08/2009	0001	18.5	-	23.4	800	#	10	
Temperature	C	10/08/2009	N001	18.5	-	23.4	12.87	#		
Total Dissolved Solids	mg/L	10/08/2009	0001	18.5	-	23.4	1800	#	40	
Turbidity	NTU	10/08/2009	N001	18.5	-	23.4	2.27	#		
Uranium	mg/L	10/08/2009	0001	18.5	-	23.4	0.17	#	0.0000087	
Vanadium	mg/L	10/08/2009	0001	18.5	-	23.4	0.045	#	0.00017	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-18 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				16.3	-	21.2		Lab Data	QA	
Arsenic	mg/L	10/06/2009	0001	16.3	-	21.2	0.0012		#	0.000042
Calcium	mg/L	10/06/2009	0001	16.3	-	21.2	530	J	#	0.11
Iron	mg/L	10/06/2009	0001	16.3	-	21.2	0.78		#	0.0016
Magnesium	mg/L	10/06/2009	0001	16.3	-	21.2	130		#	0.0066
Manganese	mg/L	10/06/2009	0001	16.3	-	21.2	1.8		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	16.3	-	21.2	0.003		#	0.000067
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	16.3	-	21.2	25		#	0.2
pH	s.u.	10/06/2009	N001	16.3	-	21.2	6.77		#	
Potassium	mg/L	10/06/2009	0001	16.3	-	21.2	7	J	#	0.092
Selenium	mg/L	10/06/2009	0001	16.3	-	21.2	0.066		#	0.00016
Sodium	mg/L	10/06/2009	0001	16.3	-	21.2	190	J	#	0.22
Specific Conductance	umhos /cm	10/06/2009	N001	16.3	-	21.2	3547		#	
Temperature	C	10/06/2009	N001	16.3	-	21.2	16.03		#	
Turbidity	NTU	10/06/2009	N001	16.3	-	21.2	118		#	
Uranium	mg/L	10/06/2009	0001	16.3	-	21.2	0.56		#	0.000017
Vanadium	mg/L	10/06/2009	0001	16.3	-	21.2	0.00042	J	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-19 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Arsenic	mg/L	10/06/2009	0001	7	-	11.9	0.012		#	0.0000084	
Calcium	mg/L	10/06/2009	0001	7	-	11.9	290	J	#	0.0021	
Iron	mg/L	10/06/2009	0001	7	-	11.9	0.77		#	0.0016	
Magnesium	mg/L	10/06/2009	0001	7	-	11.9	50		#	0.0066	
Manganese	mg/L	10/06/2009	0001	7	-	11.9	4.6		#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	7	-	11.9	0.0068		#	0.00013	
pH	s.u.	10/06/2009	N001	7	-	11.9	6.88		#		
Potassium	mg/L	10/06/2009	0001	7	-	11.9	4.8	J	#	0.092	
Selenium	mg/L	10/06/2009	0001	7	-	11.9	0.00028		#	0.000032	
Sodium	mg/L	10/06/2009	0001	7	-	11.9	120	J	#	0.0044	
Specific Conductance	umhos /cm	10/06/2009	N001	7	-	11.9	1123		#		
Temperature	C	10/06/2009	N001	7	-	11.9	16.28		#		
Turbidity	NTU	10/06/2009	N001	7	-	11.9	99.3		#		
Uranium	mg/L	10/06/2009	0001	7	-	11.9	0.098		#	0.0000035	
Vanadium	mg/L	10/06/2009	0001	7	-	11.9	0.0016		#	0.00005	

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-20 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				10.85	-	15.75		Lab	Data	QA
Arsenic	mg/L	10/06/2009	0001	10.85	-	15.75	0.00091		#	0.0000084
Calcium	mg/L	10/06/2009	0001	10.85	-	15.75	540	J	#	0.011
Chloride	mg/L	10/06/2009	0001	10.85	-	15.75	270		#	20
Fluoride	mg/L	10/06/2009	0001	10.85	-	15.75	0.56		#	0.5
Iron	mg/L	10/06/2009	0001	10.85	-	15.75	0.17	B	#	0.0081
Magnesium	mg/L	10/06/2009	0001	10.85	-	15.75	110		#	0.033
Manganese	mg/L	10/06/2009	0001	10.85	-	15.75	9.3		#	0.00052
Molybdenum	mg/L	10/06/2009	0001	10.85	-	15.75	0.025		#	0.00067
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	10.85	-	15.75	0.018		#	0.01
pH	s.u.	10/06/2009	N001	10.85	-	15.75	6.48		#	
Potassium	mg/L	10/06/2009	0001	10.85	-	15.75	4.6	B	J	#
Selenium	mg/L	10/06/2009	0001	10.85	-	15.75	0.0022		#	0.000032
Sodium	mg/L	10/06/2009	0001	10.85	-	15.75	340	J	#	0.022
Specific Conductance	umhos /cm	10/06/2009	N001	10.85	-	15.75	4084		#	
Sulfate	mg/L	10/06/2009	0001	10.85	-	15.75	1700		#	50
Temperature	C	10/06/2009	N001	10.85	-	15.75	15.08		#	
Turbidity	NTU	10/06/2009	N001	10.85	-	15.75	33.5		#	
Uranium	mg/L	10/06/2009	0001	10.85	-	15.75	0.59		#	0.000017
Vanadium	mg/L	10/06/2009	0001	10.85	-	15.75	0.0035		#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-23 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				8.4	-	13.3		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	8.4	-	13.3	363		#	
Arsenic	mg/L	10/06/2009	0001	8.4	-	13.3	0.00000839999999999999 92	B	U	# 0.0000084
Calcium	mg/L	10/06/2009	0001	8.4	-	13.3	260	J	#	0.0021
Chloride	mg/L	10/06/2009	0001	8.4	-	13.3	24		#	0.4
Fluoride	mg/L	10/06/2009	0001	8.4	-	13.3	0.31		#	0.2
Iron	mg/L	10/06/2009	0001	8.4	-	13.3	2.4		#	0.0016
Magnesium	mg/L	10/06/2009	0001	8.4	-	13.3	41		#	0.0066
Manganese	mg/L	10/06/2009	0001	8.4	-	13.3	0.63		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	8.4	-	13.3	0.00052		#	0.00002
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	8.4	-	13.3	0.01	U	#	0.01
pH	s.u.	10/06/2009	N001	8.4	-	13.3	6.78		#	
Potassium	mg/L	10/06/2009	0001	8.4	-	13.3	3	J	#	0.092
Selenium	mg/L	10/06/2009	0001	8.4	-	13.3	0.0001		#	0.000032
Sodium	mg/L	10/06/2009	0001	8.4	-	13.3	55	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	8.4	-	13.3	1460		#	
Sulfate	mg/L	10/06/2009	0001	8.4	-	13.3	470		#	10
Temperature	C	10/06/2009	N001	8.4	-	13.3	10.62		#	
Turbidity	NTU	10/06/2009	N001	8.4	-	13.3	2.34		#	
Uranium	mg/L	10/06/2009	0001	8.4	-	13.3	0.033		#	0.00000052
Vanadium	mg/L	10/06/2009	0001	8.4	-	13.3	0.00027	B	J	# 0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-25 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)			Result	Qualifiers	Detection Limit	Uncertainty
				8.75	-	13.65		Lab	Data	QA
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	8.75	-	13.65	575		#	
Arsenic	mg/L	10/06/2009	0001	8.75	-	13.65	0.011		#	0.0000084
Calcium	mg/L	10/06/2009	0001	8.75	-	13.65	460	J	#	0.011
Chloride	mg/L	10/06/2009	0001	8.75	-	13.65	64		#	1
Fluoride	mg/L	10/06/2009	0001	8.75	-	13.65	0.51		#	0.5
Iron	mg/L	10/06/2009	0001	8.75	-	13.65	14		#	0.0016
Magnesium	mg/L	10/06/2009	0001	8.75	-	13.65	110		#	0.0066
Manganese	mg/L	10/06/2009	0001	8.75	-	13.65	5.5		#	0.0001
Molybdenum	mg/L	10/06/2009	0001	8.75	-	13.65	0.0044		#	0.000034
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	8.75	-	13.65	0.025		#	0.01
pH	s.u.	10/06/2009	N001	8.75	-	13.65	6.45		#	
Potassium	mg/L	10/06/2009	0001	8.75	-	13.65	16	J	#	0.092
Selenium	mg/L	10/06/2009	0001	8.75	-	13.65	0.00059		#	0.000032
Sodium	mg/L	10/06/2009	0001	8.75	-	13.65	140	J	#	0.0044
Specific Conductance	umhos /cm	10/06/2009	N001	8.75	-	13.65	2862		#	
Sulfate	mg/L	10/06/2009	0001	8.75	-	13.65	1200		#	25
Temperature	C	10/06/2009	N001	8.75	-	13.65	15.04		#	
Turbidity	NTU	10/06/2009	N001	8.75	-	13.65	33.2		#	
Uranium	mg/L	10/06/2009	0001	8.75	-	13.65	0.018		#	0.00000087
Vanadium	mg/L	10/06/2009	0001	8.75	-	13.65	0.00021	B J	#	0.00005

Groundwater Quality Data by Location (USEE100) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: T01-35 WELL

Parameter	Units	Sample Date	ID	Depth Range (Ft BLS)	Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO ₃)	mg/L	10/06/2009	0001	-	390		#		
Arsenic	mg/L	10/06/2009	0001	-	0.01		#	0.0000084	
Calcium	mg/L	10/06/2009	0001	-	370	J	#	0.0021	
Chloride	mg/L	10/06/2009	0001	-	90		#	4	
Fluoride	mg/L	10/06/2009	0001	-	0.32		#	0.2	
Iron	mg/L	10/06/2009	0001	-	0.0016	U	#	0.0016	
Magnesium	mg/L	10/06/2009	0001	-	68		#	0.0066	
Manganese	mg/L	10/06/2009	0001	-	0.0001	U	#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	-	0.0056		#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	-	3.6		#	0.05	
pH	s.u.	10/06/2009	N001	-	6.76		#		
Potassium	mg/L	10/06/2009	0001	-	5.2	J	#	0.092	
Selenium	mg/L	10/06/2009	0001	-	0.018		#	0.000032	
Sodium	mg/L	10/06/2009	0001	-	120	J	#	0.0044	
Specific Conductance	umhos /cm	10/06/2009	N001	-	2074		#		
Sulfate	mg/L	10/06/2009	0001	-	740		#	10	
Temperature	C	10/06/2009	N001	-	12.55		#		
Turbidity	NTU	10/06/2009	N001	-	2.71		#		
Uranium	mg/L	10/06/2009	0001	-	0.11		#	0.0000087	
Vanadium	mg/L	10/06/2009	0001	-	0.19		#	0.00083	

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 MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 0301 SURFACE LOCATION 50 yards downstream from Treatment System Outfall

Parameter	Units	Sample Date	ID	Result	Qualifiers Lab	Data QA	Detection Limit	Uncertainty
Iron	mg/L	10/07/2009	N001	10		#	0.0016	
Oxidation Reduction Potential	mV	10/07/2009	N001	-92.4		#		
pH	s.u.	10/07/2009	N001	7.33		#		
Specific Conductance	umhos/cm	10/07/2009	N001	1996		#		
Temperature	C	10/07/2009	N001	13.63		#		
Turbidity	NTU	10/07/2009	N001	106		#		
Uranium	mg/L	10/07/2009	N001	0.0032		#	0.0000017	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 0302 SURFACE LOCATION 100 yards downstream from Treatment System Outfall

Parameter	Units	Sample Date	ID	Result	Qualifiers Lab Data	QA	Detection Limit	Uncertainty
Iron	mg/L	10/07/2009	N001	1.1		#	0.0016	
Oxidation Reduction Potential	mV	10/07/2009	N001	-68		#		
pH	s.u.	10/07/2009	N001	7.58		#		
Specific Conductance	umhos/cm	10/07/2009	N001	1994		#		
Temperature	C	10/07/2009	N001	13.87		#		
Turbidity	NTU	10/07/2009	N001	15.8		#		
Uranium	mg/L	10/07/2009	N001	0.0045		#	0.0000017	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 0303 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Qualifiers Lab	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	335		#		
pH	s.u.	10/06/2009	N001	7.62		#		
Specific Conductance	umhos/cm	10/06/2009	N001	2166		#		
Temperature	C	10/06/2009	N001	12.66		#		
Turbidity	NTU	10/06/2009	N001	7.84		#		
Uranium	mg/L	10/06/2009	0001	0.39		#	0.000035	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 0304 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Qualifiers Lab Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	42		#		
pH	s.u.	10/06/2009	N001	8.6		#		
Specific Conductance	umhos/cm	10/06/2009	N001	2395		#		
Temperature	C	10/06/2009	N001	14.21		#		
Turbidity	NTU	10/06/2009	N001	3.36		#		
Uranium	mg/L	10/06/2009	0001	0.085		#	0.0000017	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: 0305 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	40			#		
pH	s.u.	10/06/2009	N001	8.46			#		
Specific Conductance	umhos/cm	10/06/2009	N001	2443			#		
Temperature	C	10/06/2009	N001	14.69			#		
Turbidity	NTU	10/06/2009	N001	8.28			#		
Uranium	mg/L	10/06/2009	0001	0.085			#	0.0000017	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW00-04 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	270			#		
Arsenic	mg/L	10/06/2009	0001	0.00081			#	0.0000084	
Calcium	mg/L	10/06/2009	0001	240		J	#	0.0021	
Chloride	mg/L	10/06/2009	0001	110			#	4	
Fluoride	mg/L	10/06/2009	0001	0.36			#	0.2	
Iron	mg/L	10/06/2009	0001	0.006	B		#	0.0016	
Magnesium	mg/L	10/06/2009	0001	67			#	0.0066	
Manganese	mg/L	10/06/2009	0001	0.05			#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	0.019			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	0.076			#	0.01	
pH	s.u.	10/06/2009	N001	8.09			#		
Potassium	mg/L	10/06/2009	0001	7.5	J		#	0.092	
Selenium	mg/L	10/06/2009	0001	0.0094			#	0.000032	
Sodium	mg/L	10/06/2009	0001	140	J		#	0.0044	
Specific Conductance	umhos/cm	10/06/2009	N001	1925			#		
Sulfate	mg/L	10/06/2009	0001	730			#	10	
Temperature	C	10/06/2009	N001	13.25			#		
Turbidity	NTU	10/06/2009	N001	3.23			#		
Uranium	mg/L	10/06/2009	0001	0.21			#	0.0000087	
Vanadium	mg/L	10/06/2009	0001	0.0015	B		#	0.00083	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW01-01 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	333			#		
Arsenic	mg/L	10/07/2009	0001	0.00028			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	290	J		#	0.0021	
Chloride	mg/L	10/07/2009	0001	100			#	4	
Fluoride	mg/L	10/07/2009	0001	0.5			#	0.2	
Iron	mg/L	10/07/2009	0001	0.0016	U		#	0.0016	
Magnesium	mg/L	10/07/2009	0001	60			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.11			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.0092			#	0.00002	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.049			#	0.01	
pH	s.u.	10/07/2009	N001	8.12			#		
Potassium	mg/L	10/07/2009	0001	11	J		#	0.092	
Selenium	mg/L	10/07/2009	0001	0.00052			#	0.000032	
Sodium	mg/L	10/07/2009	0001	120	J		#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1948			#		
Sulfate	mg/L	10/07/2009	0001	740			#	10	
Temperature	C	10/07/2009	N001	14.39			#		
Total Dissolved Solids	mg/L	10/07/2009	0001	1500			#	40	
Turbidity	NTU	10/07/2009	N001	12.1			#		
Uranium	mg/L	10/07/2009	0001	0.0052			#	0.00000052	
Vanadium	mg/L	10/07/2009	0001	0.0013			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW01-02 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	302			#		
Arsenic	mg/L	10/08/2009	0001	0.0014			#	0.0000084	
Calcium	mg/L	10/08/2009	0001	440		J	#	0.0021	
Chloride	mg/L	10/08/2009	0001	9			#	0.4	
Fluoride	mg/L	10/08/2009	0001	0.2	U		#	0.2	
Iron	mg/L	10/08/2009	0001	0.037	B		#	0.0016	
Magnesium	mg/L	10/08/2009	0001	72			#	0.0066	
Manganese	mg/L	10/08/2009	0001	0.14			#	0.0001	
Molybdenum	mg/L	10/08/2009	0001	0.0018			#	0.00002	
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	0.025			#	0.01	
pH	s.u.	10/08/2009	N001	6.74			#		
Potassium	mg/L	10/08/2009	0001	3.9	J		#	0.092	
Selenium	mg/L	10/08/2009	0001	0.00094			#	0.000032	
Sodium	mg/L	10/08/2009	0001	47	J		#	0.0044	
Specific Conductance	umhos/cm	10/08/2009	N001	2018			#		
Sulfate	mg/L	10/08/2009	0001	1000			#	10	
Temperature	C	10/08/2009	N001	6.03			#		
Total Dissolved Solids	mg/L	10/08/2009	0001	1800			#	40	
Turbidity	NTU	10/08/2009	N001	69			#		
Uranium	mg/L	10/08/2009	0001	0.0076			#	0.00000052	
Vanadium	mg/L	10/08/2009	0001	0.0014			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW01-03 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	263		#			
Arsenic	mg/L	10/06/2009	0001	0.00035		#	0.0000084		
Calcium	mg/L	10/06/2009	0001	320	J	#	0.0021		
Chloride	mg/L	10/06/2009	0001	20		#	0.4		
Fluoride	mg/L	10/06/2009	0001	0.23		#	0.2		
Iron	mg/L	10/06/2009	0001	0.059	B	#	0.0016		
Magnesium	mg/L	10/06/2009	0001	53		#	0.0066		
Manganese	mg/L	10/06/2009	0001	0.11		#	0.0001		
Molybdenum	mg/L	10/06/2009	0001	0.001		#	0.00002		
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	0.028		#	0.01		
pH	s.u.	10/06/2009	N001	7.44		#			
Potassium	mg/L	10/06/2009	0001	4.6	J	#	0.092		
Selenium	mg/L	10/06/2009	0001	0.00065		#	0.000032		
Sodium	mg/L	10/06/2009	0001	55	J	#	0.0044		
Specific Conductance	umhos/cm	10/06/2009	N001	1683		#			
Sulfate	mg/L	10/06/2009	0001	700		#	10		
Temperature	C	10/06/2009	N001	5.29		#			
Turbidity	NTU	10/06/2009	N001	7.78		#			
Uranium	mg/L	10/06/2009	0001	0.026		#	0.00000052		
Vanadium	mg/L	10/06/2009	0001	0.00045		#	0.00005		

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW10-01 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	409			#		
Arsenic	mg/L	10/07/2009	0001	0.00059			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	410		J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	81			#	4	
Fluoride	mg/L	10/07/2009	0001	0.32			#	0.2	
Iron	mg/L	10/07/2009	0001	0.017	B		#	0.0016	
Magnesium	mg/L	10/07/2009	0001	85			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.16			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.036			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.01	U		#	0.01	
pH	s.u.	10/07/2009	N001	7.49			#		
Potassium	mg/L	10/07/2009	0001	17	J		#	0.092	
Selenium	mg/L	10/07/2009	0001	0.017			#	0.000032	
Sodium	mg/L	10/07/2009	0001	180	J		#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	2551			#		
Sulfate	mg/L	10/07/2009	0001	1100			#	10	
Temperature	C	10/07/2009	N001	16.74			#		
Turbidity	NTU	10/07/2009	N001	11			#		
Uranium	mg/L	10/07/2009	0001	0.43			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.0019			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW10-02 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	360			#		
Arsenic	mg/L	10/06/2009	0001	0.00037			#	0.0000084	
Calcium	mg/L	10/06/2009	0001	300	J		#	0.0021	
Chloride	mg/L	10/06/2009	0001	110			#	4	
Fluoride	mg/L	10/06/2009	0001	0.3			#	0.2	
Iron	mg/L	10/06/2009	0001	0.0044	B		#	0.0016	
Magnesium	mg/L	10/06/2009	0001	66			#	0.0066	
Manganese	mg/L	10/06/2009	0001	0.13			#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	0.032			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	1.1			#	0.01	
pH	s.u.	10/06/2009	N001	7.2			#		
Potassium	mg/L	10/06/2009	0001	8.6	J		#	0.092	
Selenium	mg/L	10/06/2009	0001	0.02			#	0.000032	
Sodium	mg/L	10/06/2009	0001	150	J		#	0.0044	
Specific Conductance	umhos/cm	10/06/2009	N001	2148			#		
Sulfate	mg/L	10/06/2009	0001	860			#	10	
Temperature	C	10/06/2009	N001	12.65			#		
Turbidity	NTU	10/06/2009	N001	4.68			#		
Uranium	mg/L	10/06/2009	0001	0.36			#	0.0000087	
Vanadium	mg/L	10/06/2009	0001	0.0018			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW10-03 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	346			#		
Arsenic	mg/L	10/06/2009	0001	0.00044			#	0.0000084	
Calcium	mg/L	10/06/2009	0001	310		J	#	0.0021	
Chloride	mg/L	10/06/2009	0001	100			#	4	
Fluoride	mg/L	10/06/2009	0001	0.31			#	0.2	
Iron	mg/L	10/06/2009	0001	0.0016	U		#	0.0016	
Magnesium	mg/L	10/06/2009	0001	68			#	0.0066	
Manganese	mg/L	10/06/2009	0001	0.17			#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	0.031			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	1			#	0.01	
pH	s.u.	10/06/2009	N001	7.6			#		
Potassium	mg/L	10/06/2009	0001	8.8	J		#	0.092	
Selenium	mg/L	10/06/2009	0001	0.019			#	0.000032	
Sodium	mg/L	10/06/2009	0001	150	J		#	0.0044	
Specific Conductance	umhos/cm	10/06/2009	N001	2176			#		
Sulfate	mg/L	10/06/2009	0001	840			#	10	
Temperature	C	10/06/2009	N001	11.15			#		
Turbidity	NTU	10/06/2009	N001	6.44			#		
Uranium	mg/L	10/06/2009	0001	0.35			#	0.0000087	
Vanadium	mg/L	10/06/2009	0001	0.0022			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW10-04 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	283		#			
Arsenic	mg/L	10/06/2009	0001	0.0008		#	0.0000084		
Calcium	mg/L	10/06/2009	0001	270	J	#	0.0021		
Chloride	mg/L	10/06/2009	0001	110		#	4		
Fluoride	mg/L	10/06/2009	0001	0.29		#	0.2		
Iron	mg/L	10/06/2009	0001	0.015	B	#	0.0016		
Magnesium	mg/L	10/06/2009	0001	71		#	0.0066		
Manganese	mg/L	10/06/2009	0001	0.13		#	0.0001		
Molybdenum	mg/L	10/06/2009	0001	0.021		#	0.00034		
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	0.31		#	0.01		
pH	s.u.	10/06/2009	N001	7.84		#			
Potassium	mg/L	10/06/2009	0001	7.5	J	#	0.092		
Selenium	mg/L	10/06/2009	0001	0.012		#	0.000032		
Sodium	mg/L	10/06/2009	0001	150	J	#	0.0044		
Specific Conductance	umhos/cm	10/06/2009	N001	2051		#			
Sulfate	mg/L	10/06/2009	0001	770		#	10		
Temperature	C	10/06/2009	N001	11.88		#			
Turbidity	NTU	10/06/2009	N001	2.86		#			
Uranium	mg/L	10/06/2009	0001	0.24		#	0.0000087		
Vanadium	mg/L	10/06/2009	0001	0.0013		#	0.00005		

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW10-05 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	235			#		
Arsenic	mg/L	10/07/2009	0001	0.0011			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	220	J		#	0.0021	
Chloride	mg/L	10/07/2009	0001	96			#	4	
Fluoride	mg/L	10/07/2009	0001	0.28			#	0.2	
Iron	mg/L	10/07/2009	0001	0.00160000000000 000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	61			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.087			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.017			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.012			#	0.01	
pH	s.u.	10/07/2009	N001	8.16			#		
Potassium	mg/L	10/07/2009	0001	7.5	J		#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0073			#	0.000032	
Sodium	mg/L	10/07/2009	0001	140	J		#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1843			#		
Sulfate	mg/L	10/07/2009	0001	670			#	10	
Temperature	C	10/07/2009	N001	5.95			#		
Turbidity	NTU	10/07/2009	N001	4.15			#		
Uranium	mg/L	10/07/2009	0001	0.18			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.0018			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW10-06 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	247			#		
Arsenic	mg/L	10/07/2009	0001	0.0011			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	220		J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	89			#	4	
Fluoride	mg/L	10/07/2009	0001	0.33			#	0.2	
Iron	mg/L	10/07/2009	0001	0.001600000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	59			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.028			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.016			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.01	U		#	0.01	
pH	s.u.	10/07/2009	N001	8.19			#		
Potassium	mg/L	10/07/2009	0001	7.1		J	#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0066			#	0.000032	
Sodium	mg/L	10/07/2009	0001	130		J	#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1820			#		
Sulfate	mg/L	10/07/2009	0001	660			#	10	
Temperature	C	10/07/2009	N001	4.92			#		
Turbidity	NTU	10/07/2009	N001	8.24			#		
Uranium	mg/L	10/07/2009	0001	0.18			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.0022			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW10-07 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	243			#		
Arsenic	mg/L	10/07/2009	0001	0.0012			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	210	J		#	0.0021	
Chloride	mg/L	10/07/2009	0001	95			#	4	
Fluoride	mg/L	10/07/2009	0001	0.26			#	0.2	
Iron	mg/L	10/07/2009	0001	0.001600000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	59			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.041			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.016			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.01	U		#	0.01	
pH	s.u.	10/07/2009	N001	8.1			#		
Potassium	mg/L	10/07/2009	0001	7.2	J		#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0065			#	0.000032	
Sodium	mg/L	10/07/2009	0001	130	J		#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1828			#		
Sulfate	mg/L	10/07/2009	0001	670			#	10	
Temperature	C	10/07/2009	N001	4.63			#		
Turbidity	NTU	10/07/2009	N001	3.51			#		
Uranium	mg/L	10/07/2009	0001	0.18			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.0023			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW92-06 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	358		#			
Arsenic	mg/L	10/08/2009	0001	0.0013		#	0.0000084		
Calcium	mg/L	10/08/2009	0001	240	J	#	0.0021		
Chloride	mg/L	10/08/2009	0001	120		#	4		
Fluoride	mg/L	10/08/2009	0001	0.33		#	0.2		
Iron	mg/L	10/08/2009	0001	0.16		#	0.0016		
Magnesium	mg/L	10/08/2009	0001	54		#	0.0066		
Manganese	mg/L	10/08/2009	0001	1.2		#	0.0001		
Molybdenum	mg/L	10/08/2009	0001	0.021		#	0.00013		
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	0.023		#	0.01		
Oxidation Reduction Potential	mV	10/08/2009	N001	140		#			
pH	s.u.	10/08/2009	N001	7.26		#			
Potassium	mg/L	10/08/2009	0001	7.3	J	#	0.092		
Selenium	mg/L	10/08/2009	0001	0.0012		#	0.000032		
Sodium	mg/L	10/08/2009	0001	140	J	#	0.0044		
Specific Conductance	umhos/cm	10/08/2009	N001	1897		#			
Sulfate	mg/L	10/08/2009	0001	630		#	10		
Temperature	C	10/08/2009	N001	11.15		#			
Turbidity	NTU	10/08/2009	N001	4.45		#			
Uranium	mg/L	10/08/2009	0001	0.13		#	0.0000035		
Vanadium	mg/L	10/08/2009	0001	0.0078		#	0.00033		

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW92-08 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	N001	257			#		
Arsenic	mg/L	10/07/2009	0001	0.0011			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	230		J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	95			#	4	
Fluoride	mg/L	10/07/2009	0001	0.28			#	0.2	
Iron	mg/L	10/07/2009	0001	0.001600000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	61			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.031			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.016			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.01	U		#	0.01	
pH	s.u.	10/07/2009	N001	8.24			#		
Potassium	mg/L	10/07/2009	0001	7.2		J	#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0071			#	0.000032	
Sodium	mg/L	10/07/2009	0001	130		J	#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1771			#		
Sulfate	mg/L	10/07/2009	0001	670			#	10	
Temperature	C	10/07/2009	N001	5.06			#		
Turbidity	NTU	10/07/2009	N001	3			#		
Uranium	mg/L	10/07/2009	0001	0.18			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.0019			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW92-09 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	225			#		
Arsenic	mg/L	10/07/2009	0001	0.0012			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	220	J		#	0.0021	
Chloride	mg/L	10/07/2009	0001	98			#	4	
Fluoride	mg/L	10/07/2009	0001	0.26			#	0.2	
Iron	mg/L	10/07/2009	0001	0.001600000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	59			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.036			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.016			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.01	U		#	0.01	
pH	s.u.	10/07/2009	N001	8.19			#		
Potassium	mg/L	10/07/2009	0001	7.2	J		#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0066			#	0.000032	
Sodium	mg/L	10/07/2009	0001	130	J		#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1820			#		
Sulfate	mg/L	10/07/2009	0001	680			#	10	
Temperature	C	10/07/2009	N001	4.68			#		
Turbidity	NTU	10/07/2009	N001	3.16			#		
Uranium	mg/L	10/07/2009	0001	0.18			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.0023			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW94-01 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	246			#		
Arsenic	mg/L	10/07/2009	0001	0.0012			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	220	J		#	0.0021	
Chloride	mg/L	10/07/2009	0001	96			#	4	
Fluoride	mg/L	10/07/2009	0001	0.27			#	0.2	
Iron	mg/L	10/07/2009	0001	0.001600000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	60			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.048			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.016			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.013			#	0.01	
pH	s.u.	10/07/2009	N001	7.32			#		
Potassium	mg/L	10/07/2009	0001	7.4	J		#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0059			#	0.000032	
Sodium	mg/L	10/07/2009	0001	130	J		#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1859			#		
Sulfate	mg/L	10/07/2009	0001	710			#	10	
Temperature	C	10/07/2009	N001	4.6			#		
Turbidity	NTU	10/07/2009	N001	4.87			#		
Uranium	mg/L	10/07/2009	0001	0.17			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.0024			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW97-01 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	320			#		
Arsenic	mg/L	10/06/2009	0001	0.0012			#	0.0000084	
Calcium	mg/L	10/06/2009	0001	320	J		#	0.0021	
Chloride	mg/L	10/06/2009	0001	130			#	4	
Fluoride	mg/L	10/06/2009	0001	0.34			#	0.2	
Iron	mg/L	10/06/2009	0001	0.0016000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/06/2009	0001	77			#	0.0066	
Manganese	mg/L	10/06/2009	0001	0.19			#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	0.028			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	0.73			#	0.01	
pH	s.u.	10/06/2009	N001	7.62			#		
Potassium	mg/L	10/06/2009	0001	9.3	J		#	0.092	
Selenium	mg/L	10/06/2009	0001	0.016			#	0.000032	
Sodium	mg/L	10/06/2009	0001	170	J		#	0.0044	
Specific Conductance	umhos/cm	10/06/2009	N001	2263			#		
Sulfate	mg/L	10/06/2009	0001	890			#	10	
Temperature	C	10/06/2009	N001	12.71			#		
Turbidity	NTU	10/06/2009	N001	16.5			#		
Uranium	mg/L	10/06/2009	0001	0.31			#	0.0000087	
Vanadium	mg/L	10/06/2009	0001	0.0016			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW97-02 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	266			#		
Arsenic	mg/L	10/06/2009	0001	0.00081			#	0.0000084	
Calcium	mg/L	10/06/2009	0001	220	J		#	0.0021	
Chloride	mg/L	10/06/2009	0001	100			#	4	
Fluoride	mg/L	10/06/2009	0001	0.35			#	0.2	
Iron	mg/L	10/06/2009	0001	0.001600000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/06/2009	0001	63			#	0.0066	
Manganese	mg/L	10/06/2009	0001	0.044			#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	0.019			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	0.06			#	0.01	
pH	s.u.	10/06/2009	N001	8.1			#		
Potassium	mg/L	10/06/2009	0001	7.1	J		#	0.092	
Selenium	mg/L	10/06/2009	0001	0.0092			#	0.000032	
Sodium	mg/L	10/06/2009	0001	140	J		#	0.0044	
Specific Conductance	umhos/cm	10/06/2009	N001	1894			#		
Sulfate	mg/L	10/06/2009	0001	730			#	10	
Temperature	C	10/06/2009	N001	13.1			#		
Turbidity	NTU	10/06/2009	N001	3.83			#		
Uranium	mg/L	10/06/2009	0001	0.21			#	0.0000087	
Vanadium	mg/L	10/06/2009	0001	0.0014			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW97-03 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Qualifiers	QA	Detection Limit	Uncertainty
					Lab	Data		
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	0001	263		#		
Arsenic	mg/L	10/07/2009	0001	0.00095		#	0.0000084	
Arsenic	mg/L	10/07/2009	0002	0.0008		#	0.0000084	
Calcium	mg/L	10/07/2009	0001	220	J	#	0.0021	
Calcium	mg/L	10/07/2009	0002	220	J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	100		#	4	
Chloride	mg/L	10/07/2009	0002	97		#	4	
Fluoride	mg/L	10/07/2009	0001	0.32		#	0.2	
Fluoride	mg/L	10/07/2009	0002	0.32		#	0.2	
Iron	mg/L	10/07/2009	0001	0.0016000000000000001	B	U	#	0.0016
Iron	mg/L	10/07/2009	0002	0.0016000000000000001	B	U	#	0.0016
Magnesium	mg/L	10/07/2009	0001	60		#	0.0066	
Magnesium	mg/L	10/07/2009	0002	61		#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.073		#	0.0001	
Manganese	mg/L	10/07/2009	0002	0.079		#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.017		#	0.00034	
Molybdenum	mg/L	10/07/2009	0002	0.018		#	0.00013	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.017		#	0.01	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0002	0.012		#	0.01	
pH	s.u.	10/07/2009	N001	8.05		#		
Potassium	mg/L	10/07/2009	0001	6.9	J	#	0.092	
Potassium	mg/L	10/07/2009	0002	7.3	J	#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0081		#	0.000032	
Selenium	mg/L	10/07/2009	0002	0.0066		#	0.000032	
Sodium	mg/L	10/07/2009	0001	130	J	#	0.0044	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW97-03 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Sodium	mg/L	10/07/2009	0002	140	J	#		0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1836		#			
Sulfate	mg/L	10/07/2009	0001	730		#		10	
Sulfate	mg/L	10/07/2009	0002	710		#		10	
Temperature	C	10/07/2009	N001	7.71		#			
Turbidity	NTU	10/07/2009	N001	27.6		#			
Uranium	mg/L	10/07/2009	0001	0.19		#		0.0000087	
Uranium	mg/L	10/07/2009	0002	0.2		#		0.0000035	
Vanadium	mg/L	10/07/2009	0001	0.0019		#		0.00005	
Vanadium	mg/L	10/07/2009	0002	0.0018		#		0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: SW97-05 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/07/2009	N001	505			#		
Arsenic	mg/L	10/07/2009	0001	0.0011			#	0.0000084	
Calcium	mg/L	10/07/2009	0001	220		J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	98			#	4	
Fluoride	mg/L	10/07/2009	0001	0.31			#	0.2	
Iron	mg/L	10/07/2009	0001	0.0016000000000000001	B	U	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	60			#	0.0066	
Manganese	mg/L	10/07/2009	0001	0.023			#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.016			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.01	U		#	0.01	
pH	s.u.	10/07/2009	N001	8.25			#		
Potassium	mg/L	10/07/2009	0001	7		J	#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0069			#	0.000032	
Sodium	mg/L	10/07/2009	0001	130		J	#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1832			#		
Sulfate	mg/L	10/07/2009	0001	700			#	10	
Temperature	C	10/07/2009	N001	4.87			#		
Turbidity	NTU	10/07/2009	N001	3.56			#		
Uranium	mg/L	10/07/2009	0001	0.19			#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.002			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: Seep 2 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	356			#		
Arsenic	mg/L	10/08/2009	0001	0.023			#	0.000017	
Calcium	mg/L	10/08/2009	0001	320	J		#	0.0021	
Chloride	mg/L	10/08/2009	0001	59			#	4	
Fluoride	mg/L	10/08/2009	0001	0.49			#	0.2	
Iron	mg/L	10/08/2009	0001	0.0084	B		#	0.0016	
Magnesium	mg/L	10/08/2009	0001	56			#	0.0066	
Manganese	mg/L	10/08/2009	0001	0.019			#	0.0001	
Molybdenum	mg/L	10/08/2009	0001	0.031			#	0.00067	
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	0.42			#	0.01	
pH	s.u.	10/08/2009	N001	7.07			#		
Potassium	mg/L	10/08/2009	0001	12	J		#	0.092	
Selenium	mg/L	10/08/2009	0001	0.029			#	0.000064	
Sodium	mg/L	10/08/2009	0001	95	J		#	0.0044	
Specific Conductance	umhos/cm	10/08/2009	N001	1850			#		
Sulfate	mg/L	10/08/2009	0001	700			#	10	
Temperature	C	10/08/2009	N001	12.38			#		
Total Dissolved Solids	mg/L	10/08/2009	0001	1500			#	40	
Turbidity	NTU	10/08/2009	N001	54.1			#		
Uranium	mg/L	10/08/2009	0001	0.22			#	0.000017	
Vanadium	mg/L	10/08/2009	0001	0.59			#	0.0017	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: Seep 3 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/05/2009	0001	372		#			
Arsenic	mg/L	10/05/2009	0001	0.00015		#	0.0000084		
Calcium	mg/L	10/05/2009	0001	470	J	#	0.011		
Chloride	mg/L	10/05/2009	0001	240		#	10		
Fluoride	mg/L	10/05/2009	0001	0.59		#	0.5		
Iron	mg/L	10/05/2009	0001	0.0081	U	#	0.0081		
Magnesium	mg/L	10/05/2009	0001	130		#	0.033		
Manganese	mg/L	10/05/2009	0001	0.0096	B	#	0.00052		
Molybdenum	mg/L	10/05/2009	0001	0.0019		#	0.000067		
Nitrate + Nitrite as Nitrogen	mg/L	10/05/2009	0001	33		#	0.2		
pH	s.u.	10/05/2009	N001	6.95		#			
Potassium	mg/L	10/05/2009	0001	7.4	J	#	0.46		
Selenium	mg/L	10/05/2009	0001	0.055		#	0.00016		
Sodium	mg/L	10/05/2009	0001	250	J	#	0.022		
Specific Conductance	umhos/cm	10/05/2009	N001	3628		#			
Sulfate	mg/L	10/05/2009	0001	1400		#	25		
Temperature	C	10/05/2009	N001	13.67		#			
Turbidity	NTU	10/05/2009	N001	116		#			
Uranium	mg/L	10/05/2009	0001	0.035		#	0.0000017		
Vanadium	mg/L	10/05/2009	0001	0.00035		#	0.00005		

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: Seep 5 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/05/2009	0001	239			#		
Arsenic	mg/L	10/05/2009	0001	0.00079			#	0.0000084	
Calcium	mg/L	10/05/2009	0001	91		J	#	0.0021	
Chloride	mg/L	10/05/2009	0001	140			#	2	
Fluoride	mg/L	10/05/2009	0001	0.35			#	0.1	
Iron	mg/L	10/05/2009	0001	0.0016	U		#	0.0016	
Magnesium	mg/L	10/05/2009	0001	40			#	0.0066	
Manganese	mg/L	10/05/2009	0001	0.0056			#	0.0001	
Molybdenum	mg/L	10/05/2009	0001	0.0021			#	0.00002	
Nitrate + Nitrite as Nitrogen	mg/L	10/05/2009	0001	2.7			#	0.05	
pH	s.u.	10/05/2009	N001	7.9			#		
Potassium	mg/L	10/05/2009	0001	0.55	B	J	#	0.092	
Selenium	mg/L	10/05/2009	0001	0.0027			#	0.000032	
Sodium	mg/L	10/05/2009	0001	96		J	#	0.0044	
Specific Conductance	umhos/cm	10/05/2009	N001	1116			#		
Sulfate	mg/L	10/05/2009	0001	110			#	5	
Temperature	C	10/05/2009	N001	11.63			#		
Turbidity	NTU	10/05/2009	N001	116			#		
Uranium	mg/L	10/05/2009	0001	0.03			#	0.00000052	
Vanadium	mg/L	10/05/2009	0001	0.0024			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: Seep 6 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/05/2009	0001	315		#			
Arsenic	mg/L	10/05/2009	0001	0.00082		#	0.0000084		
Calcium	mg/L	10/05/2009	0001	510	J	#	0.011		
Chloride	mg/L	10/05/2009	0001	280		#	10		
Fluoride	mg/L	10/05/2009	0001	0.57		#	0.5		
Iron	mg/L	10/05/2009	0001	0.0081	U	#	0.0081		
Magnesium	mg/L	10/05/2009	0001	170		#	0.033		
Manganese	mg/L	10/05/2009	0001	0.2		#	0.00052		
Molybdenum	mg/L	10/05/2009	0001	0.0094		#	0.00034		
Nitrate + Nitrite as Nitrogen	mg/L	10/05/2009	0001	14		#	0.1		
pH	s.u.	10/05/2009	N001	7.63		#			
Potassium	mg/L	10/05/2009	0001	8.7	J	#	0.46		
Selenium	mg/L	10/05/2009	0001	0.04		#	0.00016		
Sodium	mg/L	10/05/2009	0001	290	J	#	0.022		
Specific Conductance	umhos/cm	10/05/2009	N001	4050		#			
Sulfate	mg/L	10/05/2009	0001	1900		#	25		
Temperature	C	10/05/2009	N001	10.2		#			
Turbidity	NTU	10/05/2009	N001	84.2		#			
Uranium	mg/L	10/05/2009	0001	2		#	0.000087		
Vanadium	mg/L	10/05/2009	0001	0.14		#	0.00083		

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: Sorenson SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/08/2009	0001	348			#		
Arsenic	mg/L	10/08/2009	0001	0.00095			#	0.0000084	
Calcium	mg/L	10/08/2009	0001	320	E	J	#	0.0021	
Chloride	mg/L	10/08/2009	0001	130			#	4	
Fluoride	mg/L	10/08/2009	0001	0.31			#	0.2	
Iron	mg/L	10/08/2009	0001	0.022	B		#	0.0016	
Magnesium	mg/L	10/08/2009	0001	76			#	0.0066	
Manganese	mg/L	10/08/2009	0001	0.22			#	0.0001	
Molybdenum	mg/L	10/08/2009	0001	0.025			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/08/2009	0001	0.72	N	J	#	0.01	
Oxidation Reduction Potential	mV	10/08/2009	N001	223.2			#		
pH	s.u.	10/08/2009	N001	7.64			#		
Potassium	mg/L	10/08/2009	0001	7.9	EN	J	#	0.092	
Selenium	mg/L	10/08/2009	0001	0.015			#	0.000032	
Sodium	mg/L	10/08/2009	0001	170	E	J	#	0.0044	
Specific Conductance	umhos/cm	10/08/2009	N001	2428			#		
Sulfate	mg/L	10/08/2009	0001	880			#	10	
Temperature	C	10/08/2009	N001	6.25			#		
Total Dissolved Solids	mg/L	10/08/2009	0001	1800			#	40	
Turbidity	NTU	10/08/2009	N001	3.39			#		
Uranium	mg/L	10/08/2009	0001	0.3			#	0.0000087	
Vanadium	mg/L	10/08/2009	0001	0.0011			#	0.00005	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: W3-03 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Lab	Qualifiers Data	QA	Detection Limit	Uncertainty
Alkalinity, Total (As CaCO3)	mg/L	10/06/2009	0001	380			#		
Arsenic	mg/L	10/06/2009	0001	0.0033			#	0.0000084	
Calcium	mg/L	10/06/2009	0001	310	J		#	0.0021	
Chloride	mg/L	10/06/2009	0001	77			#	4	
Fluoride	mg/L	10/06/2009	0001	0.38			#	0.2	
Iron	mg/L	10/06/2009	0001	0.16			#	0.0016	
Magnesium	mg/L	10/06/2009	0001	55			#	0.0066	
Manganese	mg/L	10/06/2009	0001	1.9			#	0.0001	
Molybdenum	mg/L	10/06/2009	0001	0.017			#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/06/2009	0001	0.01	U		#	0.01	
pH	s.u.	10/06/2009	N001	7.32			#		
Potassium	mg/L	10/06/2009	0001	16	J		#	0.092	
Selenium	mg/L	10/06/2009	0001	0.0055			#	0.000032	
Sodium	mg/L	10/06/2009	0001	100	J		#	0.0044	
Specific Conductance	umhos/cm	10/06/2009	N001	1896			#		
Sulfate	mg/L	10/06/2009	0001	610			#	10	
Temperature	C	10/06/2009	N001	8.74			#		
Turbidity	NTU	10/06/2009	N001	392			#		
Uranium	mg/L	10/06/2009	0001	0.18			#	0.0000087	
Vanadium	mg/L	10/06/2009	0001	0.025			#	0.00083	

Surface Water Quality Data by Location (USEE102) FOR SITE MNT01, Monticello Disposal & Process Sites

REPORT DATE: 1/6/2010

Location: W3-04 SURFACE LOCATION

Parameter	Units	Sample Date	ID	Result	Qualifiers	QA	Detection Limit	Uncertainty
					Lab	Data		
Alkalinity, Total (As CaCO ₃)	mg/L	10/07/2009	0001	384		#		
Arsenic	mg/L	10/07/2009	0001	0.0032		#	0.0000084	
Calcium	mg/L	10/07/2009	0001	310	J	#	0.0021	
Chloride	mg/L	10/07/2009	0001	82		#	4	
Fluoride	mg/L	10/07/2009	0001	0.38		#	0.2	
Iron	mg/L	10/07/2009	0001	0.041	B	#	0.0016	
Magnesium	mg/L	10/07/2009	0001	57		#	0.0066	
Manganese	mg/L	10/07/2009	0001	1.9		#	0.0001	
Molybdenum	mg/L	10/07/2009	0001	0.018		#	0.00034	
Nitrate + Nitrite as Nitrogen	mg/L	10/07/2009	0001	0.027		#	0.01	
pH	s.u.	10/07/2009	N001	7.29		#		
Potassium	mg/L	10/07/2009	0001	17	J	#	0.092	
Selenium	mg/L	10/07/2009	0001	0.0065		#	0.000032	
Sodium	mg/L	10/07/2009	0001	100	J	#	0.0044	
Specific Conductance	umhos/cm	10/07/2009	N001	1959		#		
Sulfate	mg/L	10/07/2009	0001	670		#	10	
Temperature	C	10/07/2009	N001	9.68		#		
Turbidity	NTU	10/07/2009	N001	123		#		
Uranium	mg/L	10/07/2009	0001	0.19		#	0.0000087	
Vanadium	mg/L	10/07/2009	0001	0.028		#	0.00083	

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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Equipment Blank Data

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BLANKS REPORT

LAB: PARAGON (Fort Collins, CO)

RIN: 09092614

Report Date: 12/18/2009

Parameter	Site Code	Location ID	Sample Date	ID	Units	Result	Qualifiers Lab	Detection Limit	Uncertainty	Sample Type
Arsenic	MNT01	0999	10/07/2009	0001	mg/L	0.0000084	U	0.0000084		E
Arsenic	MNT01	0999	10/07/2009	0002	mg/L	0.0000084	U	0.0000084		E
Arsenic	MNT01	0999	10/08/2009	0001	mg/L	0.0000084	U	0.0000084		E
Calcium	MNT01	0999	10/07/2009	0001	mg/L	0.27	B	0.0021		E
Calcium	MNT01	0999	10/07/2009	0002	mg/L	0.27	B	0.0021		E
Calcium	MNT01	0999	10/08/2009	0001	mg/L	0.32	B	0.0021		E
Chloride	MNT01	0999	10/07/2009	0001	mg/L	0.2	U	0.2		E
Chloride	MNT01	0999	10/07/2009	0002	mg/L	0.2	U	0.2		E
Chloride	MNT01	0999	10/08/2009	0001	mg/L	0.2	U	0.2		E
Fluoride	MNT01	0999	10/07/2009	0001	mg/L	0.1	U	0.1		E
Fluoride	MNT01	0999	10/07/2009	0002	mg/L	0.1	U	0.1		E
Fluoride	MNT01	0999	10/08/2009	0001	mg/L	0.1	U	0.1		E
Iron	MNT01	0999	10/07/2009	0001	mg/L	0.0016	U	0.0016		E
Iron	MNT01	0999	10/07/2009	0002	mg/L	0.0016	U	0.0016		E
Iron	MNT01	0999	10/08/2009	0001	mg/L	0.0016	U	0.0016		E
Magnesium	MNT01	0999	10/07/2009	0001	mg/L	0.0066	U	0.0066		E
Magnesium	MNT01	0999	10/07/2009	0002	mg/L	0.0066	U	0.0066		E
Magnesium	MNT01	0999	10/08/2009	0001	mg/L	0.0066	U	0.0066		E
Manganese	MNT01	0999	10/07/2009	0001	mg/L	0.0001	U	0.0001		E

BLANKS REPORT

LAB: PARAGON (Fort Collins, CO)

RIN: 09092614

Report Date: 12/18/2009

Parameter	Site Code	Location ID	Sample Date	ID	Units	Result	Qualifiers Lab	Data	Detection Limit	Uncertainty	Sample Type
Manganese	MNT01	0999	10/07/2009	0002	mg/L	0.0001	U		0.0001		E
Manganese	MNT01	0999	10/08/2009	0001	mg/L	0.0001	U		0.0001		E
Molybdenum	MNT01	0999	10/07/2009	0001	mg/L	0.000039	B	U	0.00002		E
Molybdenum	MNT01	0999	10/07/2009	0002	mg/L	0.000027	B	U	0.00002		E
Molybdenum	MNT01	0999	10/08/2009	0001	mg/L	0.000021	B	U	0.00002		E
Nitrate + Nitrite as Nitrogen	MNT01	0999	10/07/2009	0001	mg/L	0.01	U		0.01		E
Nitrate + Nitrite as Nitrogen	MNT01	0999	10/07/2009	0002	mg/L	0.01	U		0.01		E
Nitrate + Nitrite as Nitrogen	MNT01	0999	10/08/2009	0001	mg/L	0.01	U		0.01		E
Potassium	MNT01	0999	10/07/2009	0001	mg/L	0.092	U		0.092		E
Potassium	MNT01	0999	10/07/2009	0002	mg/L	0.092	U		0.092		E
Potassium	MNT01	0999	10/08/2009	0001	mg/L	0.092	U		0.092		E
Selenium	MNT01	0999	10/07/2009	0001	mg/L	0.000032	U		0.000032		E
Selenium	MNT01	0999	10/07/2009	0002	mg/L	0.000032	U		0.000032		E
Selenium	MNT01	0999	10/08/2009	0001	mg/L	0.000032	U		0.000032		E
Sodium	MNT01	0999	10/07/2009	0001	mg/L	0.0044	U		0.0044		E
Sodium	MNT01	0999	10/07/2009	0002	mg/L	0.0044	U		0.0044		E
Sodium	MNT01	0999	10/08/2009	0001	mg/L	0.0044	U		0.0044		E
Sulfate	MNT01	0999	10/07/2009	0001	mg/L	0.5	U		0.5		E
Sulfate	MNT01	0999	10/07/2009	0002	mg/L	0.5	U		0.5		E

BLANKS REPORT

LAB: PARAGON (Fort Collins, CO)

RIN: 09092614

Report Date: 12/18/2009

Parameter	Site Code	Location ID	Sample Date	ID	Units	Result	Qualifiers Lab	Data	Detection Limit	Uncertainty	Sample Type
Sulfate	MNT01	0999	10/08/2009	0001	mg/L	0.5	U		0.5		E
Total Dissolved Solids	MNT01	0999	10/07/2009	0001	mg/L	20	U		20		E
Uranium	MNT01	0999	10/07/2009	0001	mg/L	0.0000051	B	U	0.00000052		E
Uranium	MNT01	0999	10/07/2009	0002	mg/L	0.0000019	B	U	0.00000052		E
Uranium	MNT01	0999	10/08/2009	0001	mg/L	0.0000034	B	U	0.00000052		E
Vanadium	MNT01	0999	10/07/2009	0001	mg/L	0.00015	B		0.00005		E
Vanadium	MNT01	0999	10/07/2009	0002	mg/L	0.00005	U		0.00005		E
Vanadium	MNT01	0999	10/08/2009	0001	mg/L	0.00014	B		0.00005		E

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.
L Less than 3 bore volumes purged prior to sampling.
U Parameter analyzed for but was not detected.

G Possible grout contamination, pH > 9.
Q Qualitative result due to sampling technique.
X Location is undefined.

J Estimated value.
R Unusable result.

SAMPLE TYPES:

E Equipment Blank.

Static Water Level Data

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STATIC WATER LEVELS (USEE700) FOR SITE MNT01, Monticello Disposal & Process Sites
REPORT DATE: 12/18/2009

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)	Water Level Flag
0200	D	6762.69	10/07/2009	15:50:57	6.59	6756.1	
0202	D	6785.81	10/08/2009	10:40:13	15.72	6770.09	
82-08	D	6787.4	10/07/2009	15:43:00			D
82-08	D	6787.4	10/07/2009	17:05:24	13.18	6774.22	
88-85	D	6797.09	10/07/2009	17:50:37	6.37	6790.72	
92-07	D	6804.02	10/08/2009	11:30:10	17.03	6786.99	
92-08	D	6775.68	10/07/2009	16:20:30	11.83	6763.85	
92-09	D	6733.29	10/06/2009	15:10:31	10.68	6722.61	
92-10	D	6733.8	10/06/2009	13:15:41	12.28	6721.52	
92-11	D	6813.73	10/08/2009	13:15:37	19.2	6794.53	
93-01	O	6889.98	10/07/2009	08:40:05	109.42	6780.56	
95-01	D	6675.83	10/06/2009	16:40:08	5.17	6670.66	
95-03	D	6704.78	10/06/2009	15:45:48	2.36	6702.42	
MW00-01	U	6882.77	10/06/2009	10:10:04	12.81	6869.96	
MW00-06	D	6793.14	10/08/2009	10:50:55	16.22	6776.92	
MW00-07	D	6790.85	10/08/2009	10:45:47	20.94	6769.91	
P92-06	D	6774.73	10/07/2009	16:50:18	11.36	6763.37	
PW-10	D	6813.94	10/08/2009	12:15:46	31.75	6782.19	
PW-17	D	6817.35	10/06/2009	10:25:54	33.03	6784.32	
PW-28	D	6799.93	10/07/2009	15:05:27	9.82	6790.11	
R1-M3	D	6795.91	10/06/2009	08:45:34	4.96	6790.95	
R1-M4	D	6795.85	10/05/2009	16:40:13	5.1	6790.75	
R10-M1	D	6795.11	10/06/2009	09:35:57	13.45	6781.66	
R3-M2	D	6795.8	10/06/2009	08:55:32	4.95	6790.85	
R3-M3	D	6795.76	10/06/2009	07:50:00	5.03	6790.73	
R4-M3	D	6795.76	10/06/2009	09:05:47	8.25	6787.51	
R4-M6	D	6795.71	10/06/2009	08:00:28	7.69	6788.02	
R6-M3	D	6795.71	10/06/2009	09:15:34	9.72	6785.99	
R6-M4	D	6795.53	10/06/2009	08:15:18	9.46	6786.07	

STATIC WATER LEVELS (USEE700) FOR SITE MNT01, Monticello Disposal & Process Sites
REPORT DATE: 12/18/2009

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)	Water Level Flag
SW97-02	D		10/06/2009	16:25:56	6.15		
T00-01	O	6806.52	10/07/2009	12:00:05	9.87	6796.65	
T01-02	O	6807.66	10/07/2009	10:45:42	9.45	6798.21	
T01-04	O	6814.15	10/07/2009	15:20:08	14.54	6799.61	
T01-05	O	6822.21	10/07/2009	14:05:24	20.77	6801.44	
T01-07	O	6823.29	10/05/2009	17:25:32	19.77	6803.52	
T01-12	O	6844.34	10/08/2009	11:50:44	21.23	6823.11	
T01-18	O	6860.49	10/06/2009	17:35:31	18.8	6841.69	
T01-19	O	6848.64	10/06/2009	17:25:45	9.21	6839.43	
T01-20	O	6845.4	10/06/2009	15:30:29	11	6834.4	
T01-23	O	6858.89	10/06/2009	09:35:22	7.86	6851.03	
T01-25	O	6856.33	10/06/2009	15:15:01	7.39	6848.94	
T01-35	O	6824.26	10/06/2009	16:15:12	12.68	6811.58	

FLOW CODES: B BACKGROUND
 N UNKNOWN

C CROSS GRADIENT
 O ON SITE

D DOWN GRADIENT
 U UPGRAIDENT

F OFF SITE

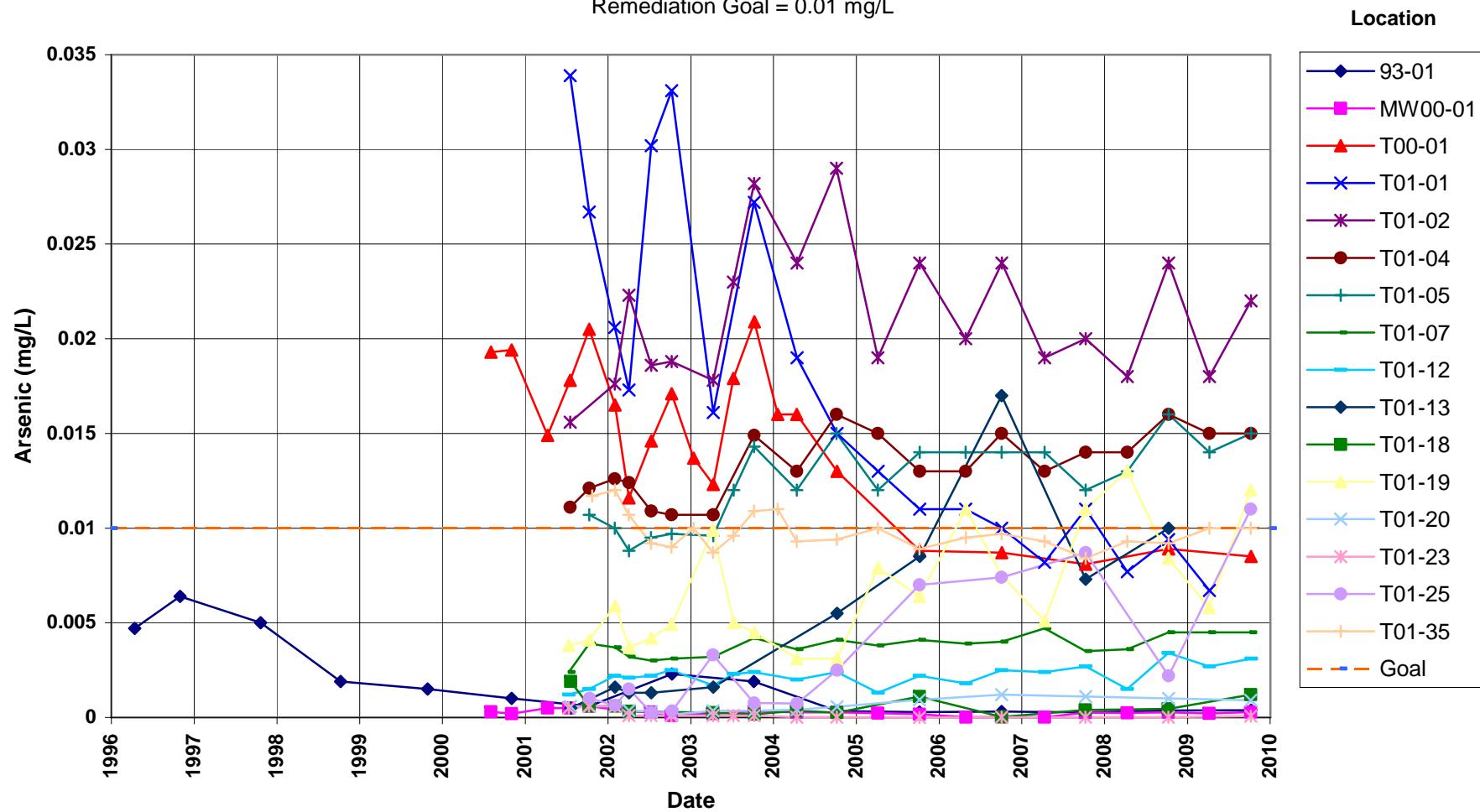
WATER LEVEL FLAGS: D Dry F FLOWING

Time-Concentration Graphs Groundwater

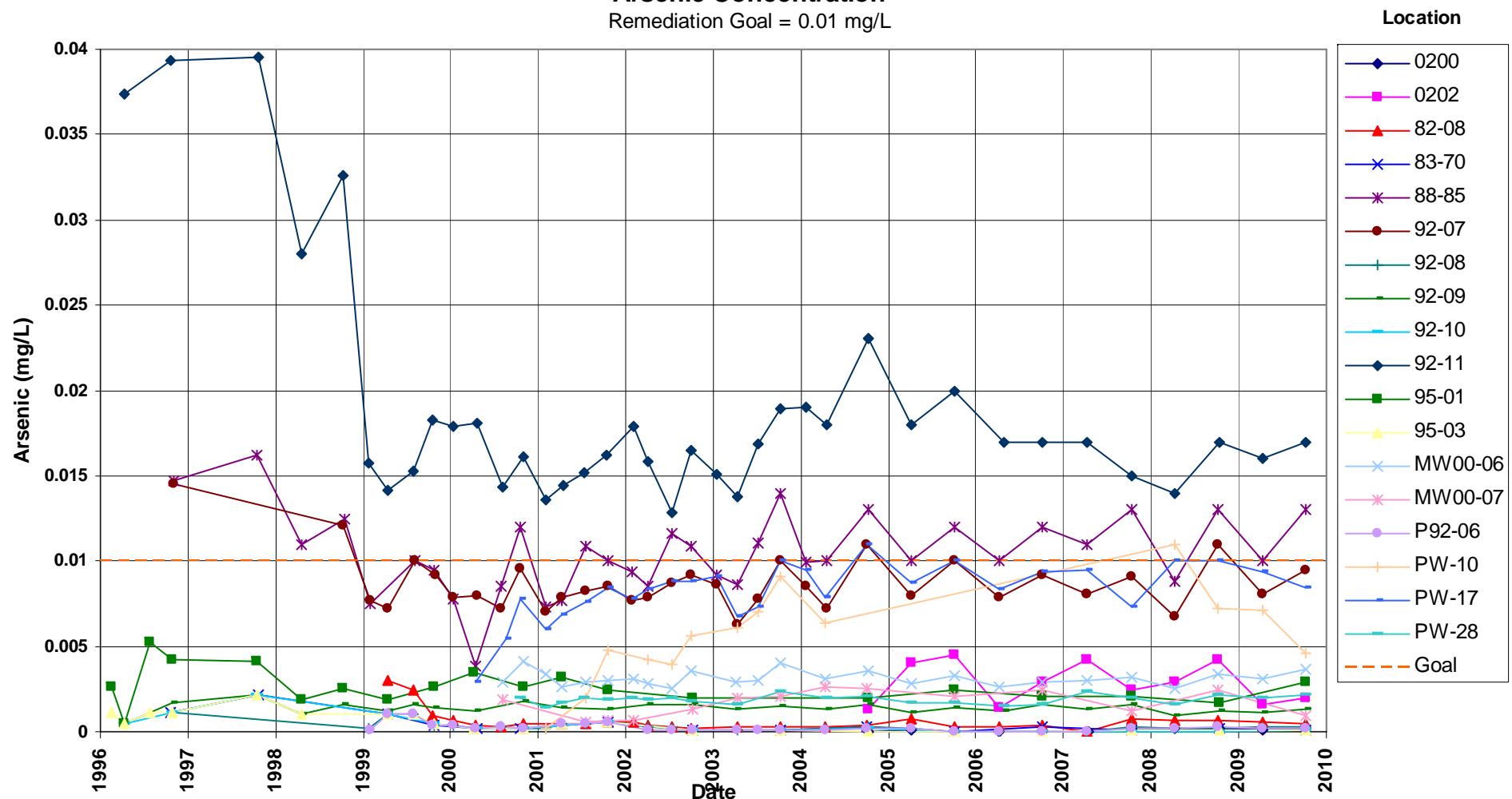
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Monticello Disposal & Process Sites
Former Mill Site Wells
Arsenic Concentration

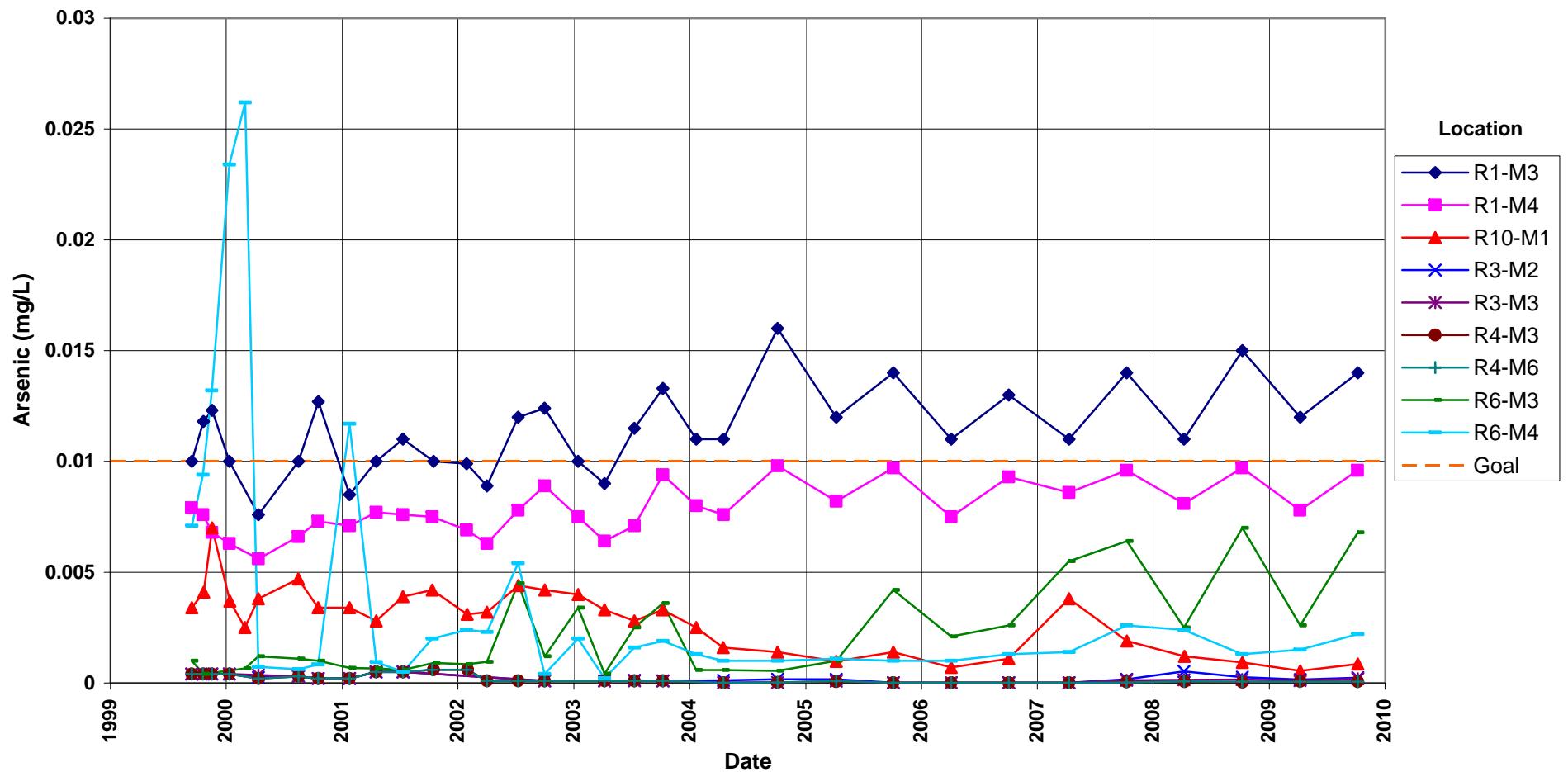
Remediation Goal = 0.01 mg/L



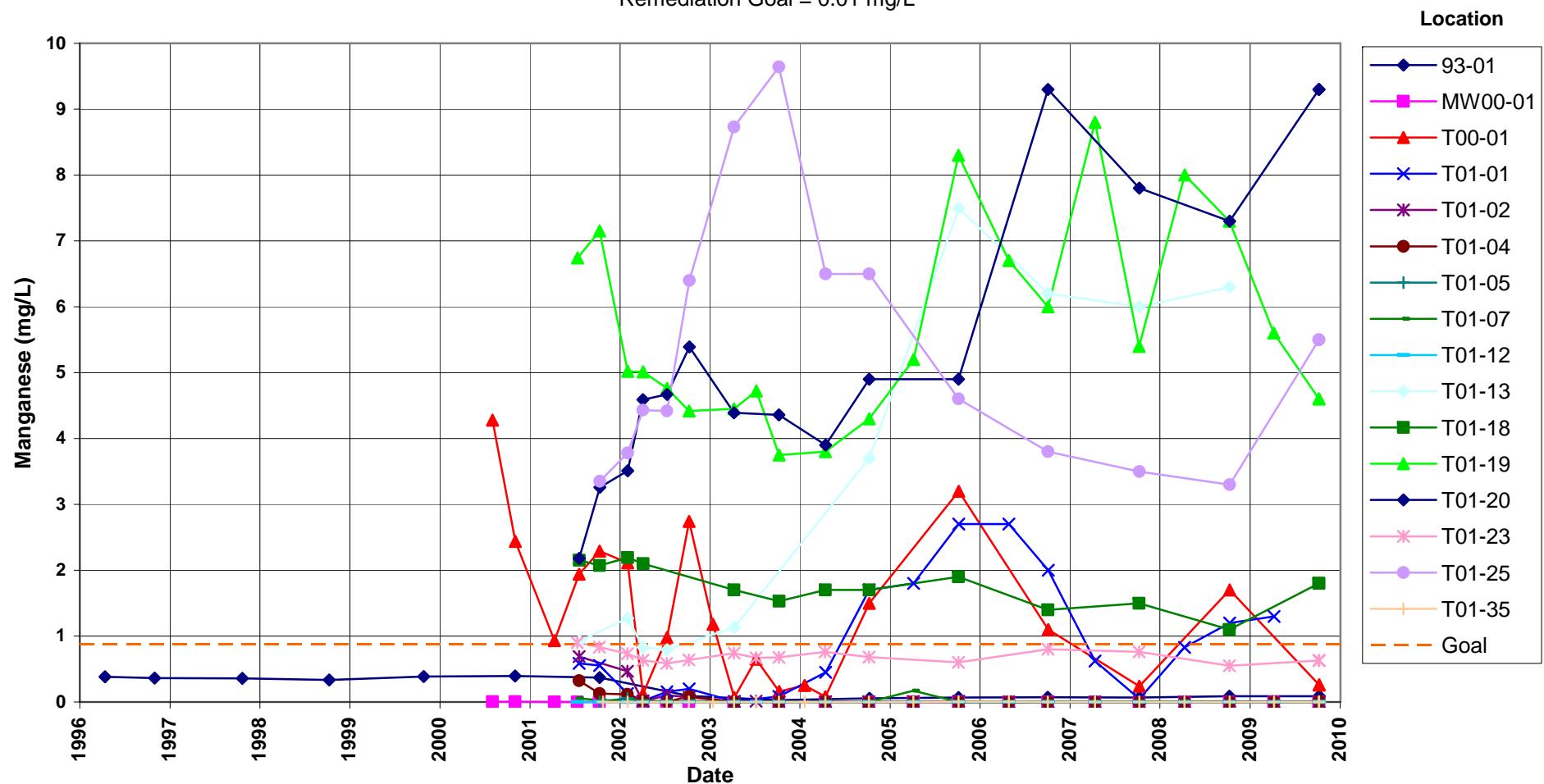
Monticello Disposal & Process Sites
Downgradient Wells
Arsenic Concentration
 Remediation Goal = 0.01 mg/L



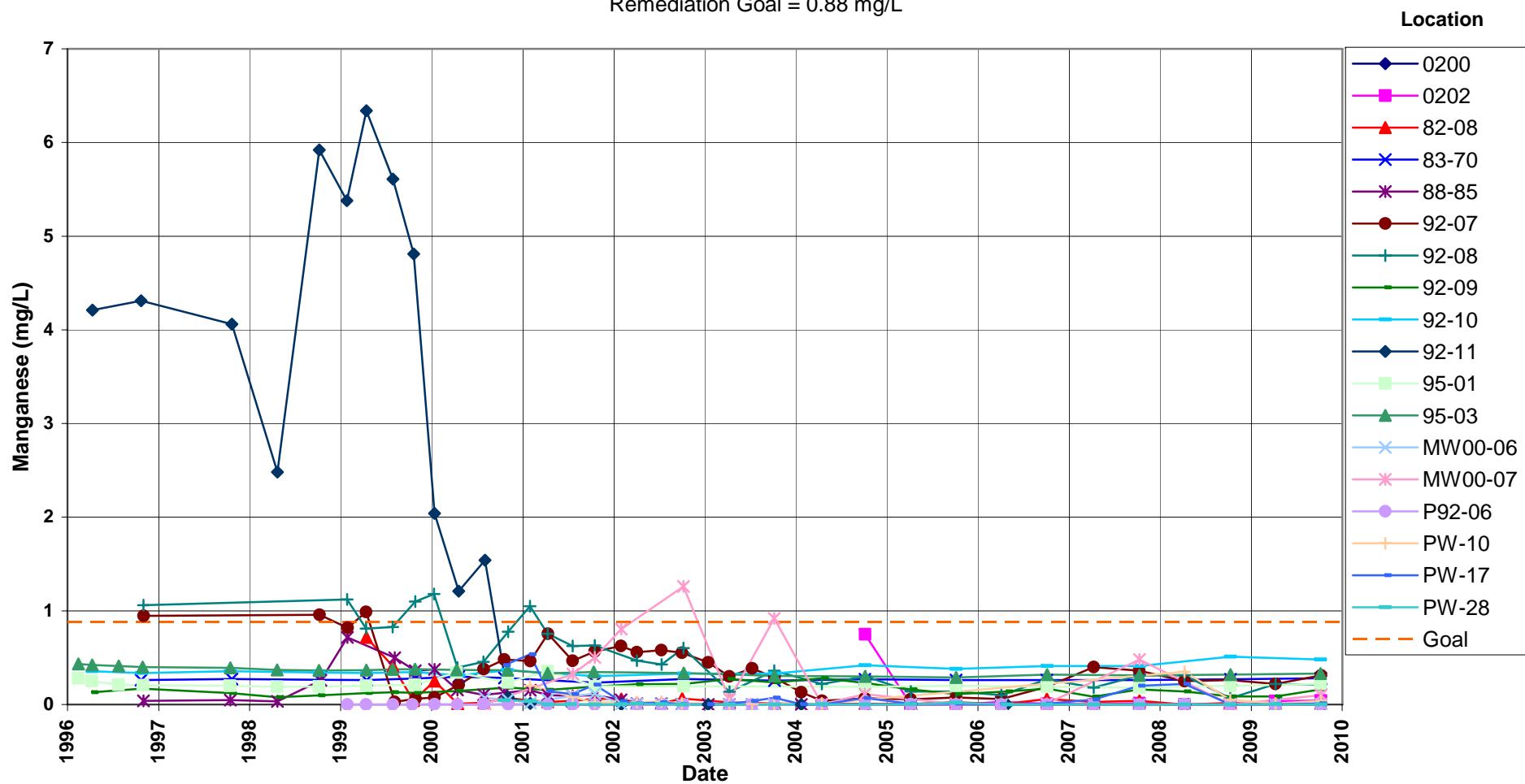
Monticello Disposal & Process Sites
Downgradient PeRT Wells
Arsenic Concentration
 Remediation Goal = 0.01 mg/L



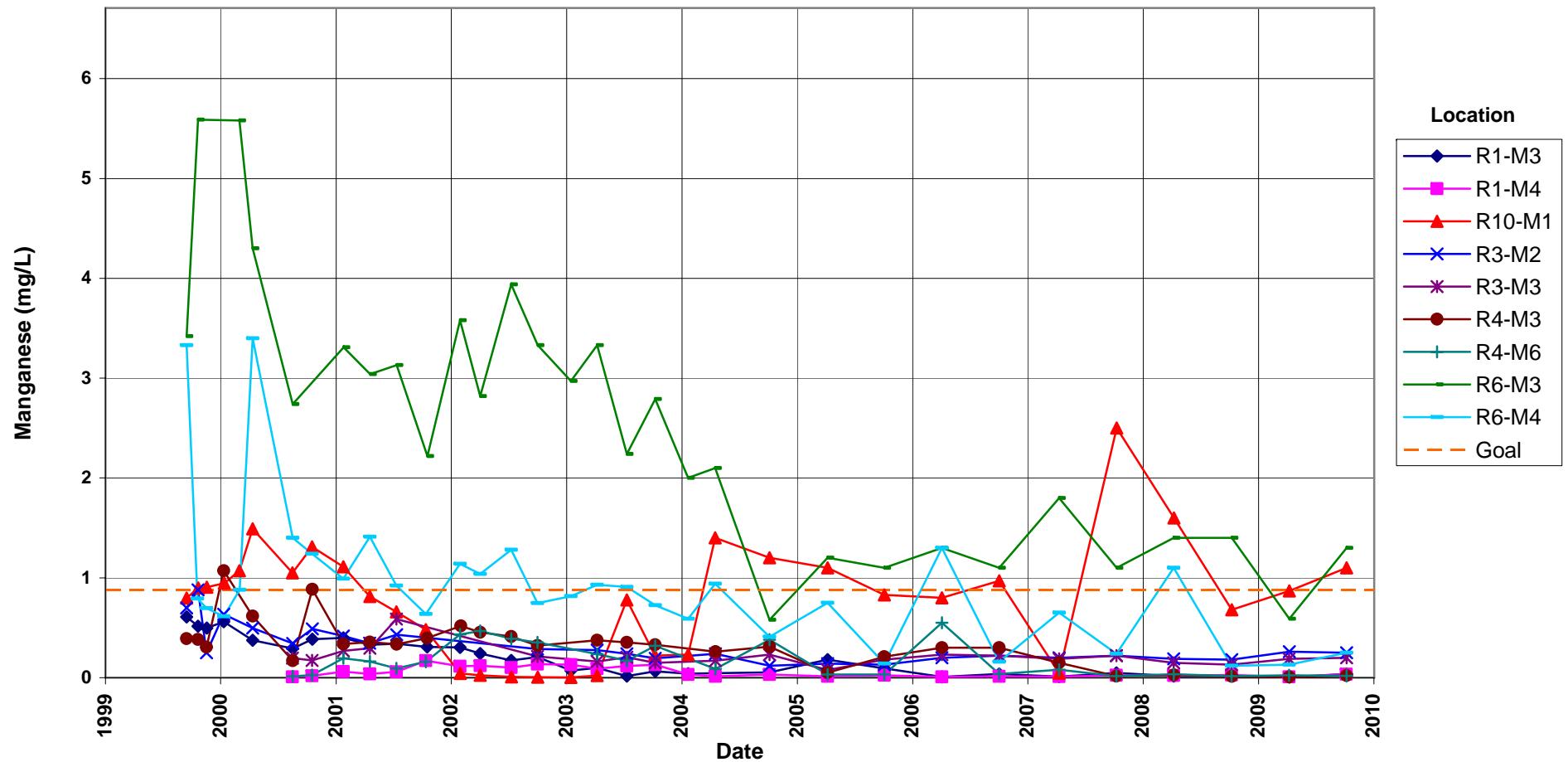
Monticello Disposal & Process Sites
Former Mill Site Wells
Manganese Concentration
 Remediation Goal = 0.01 mg/L



Monticello Disposal & Process Sites
Downgradient Wells
Manganese Concentration
 Remediation Goal = 0.88 mg/L

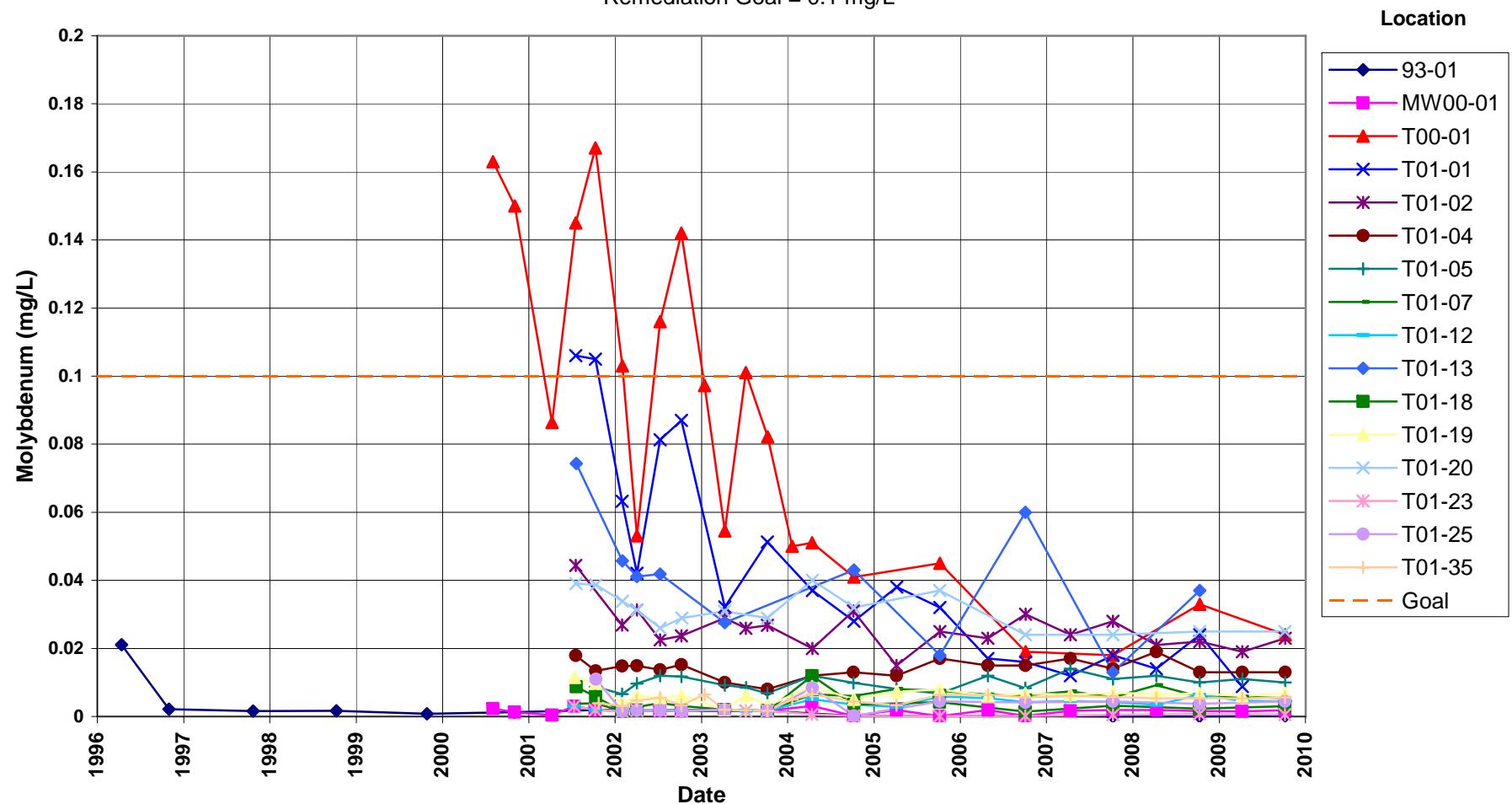


Monticello Disposal & Process Sites
Downgradient PeRT Wells
Manganese Concentration
 Remediation Goal = 0.88 mg/L



Monticello Disposal & Process Sites
Former Mill Site Wells
Molybdenum Concentration

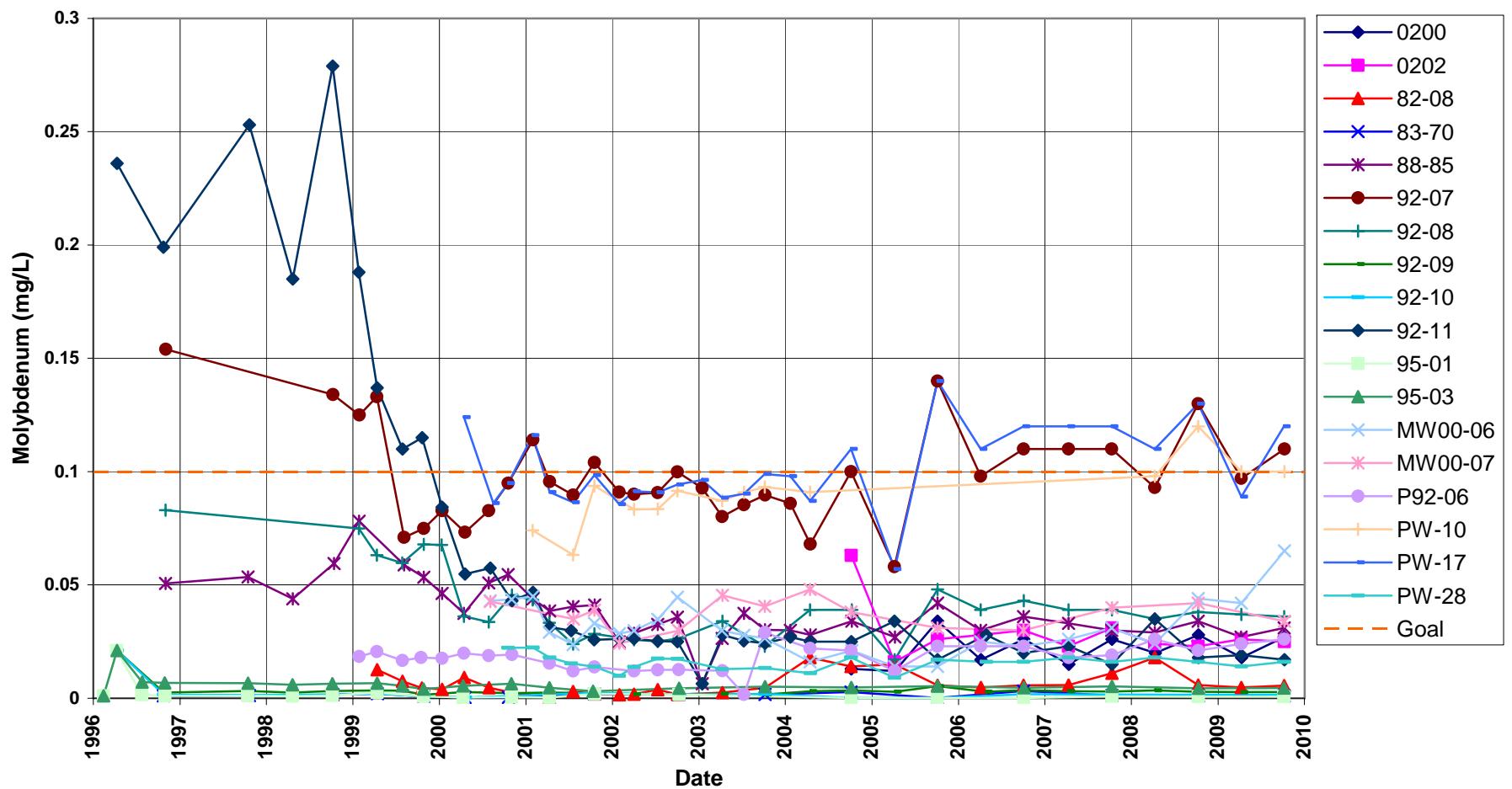
Remediation Goal = 0.1 mg/L



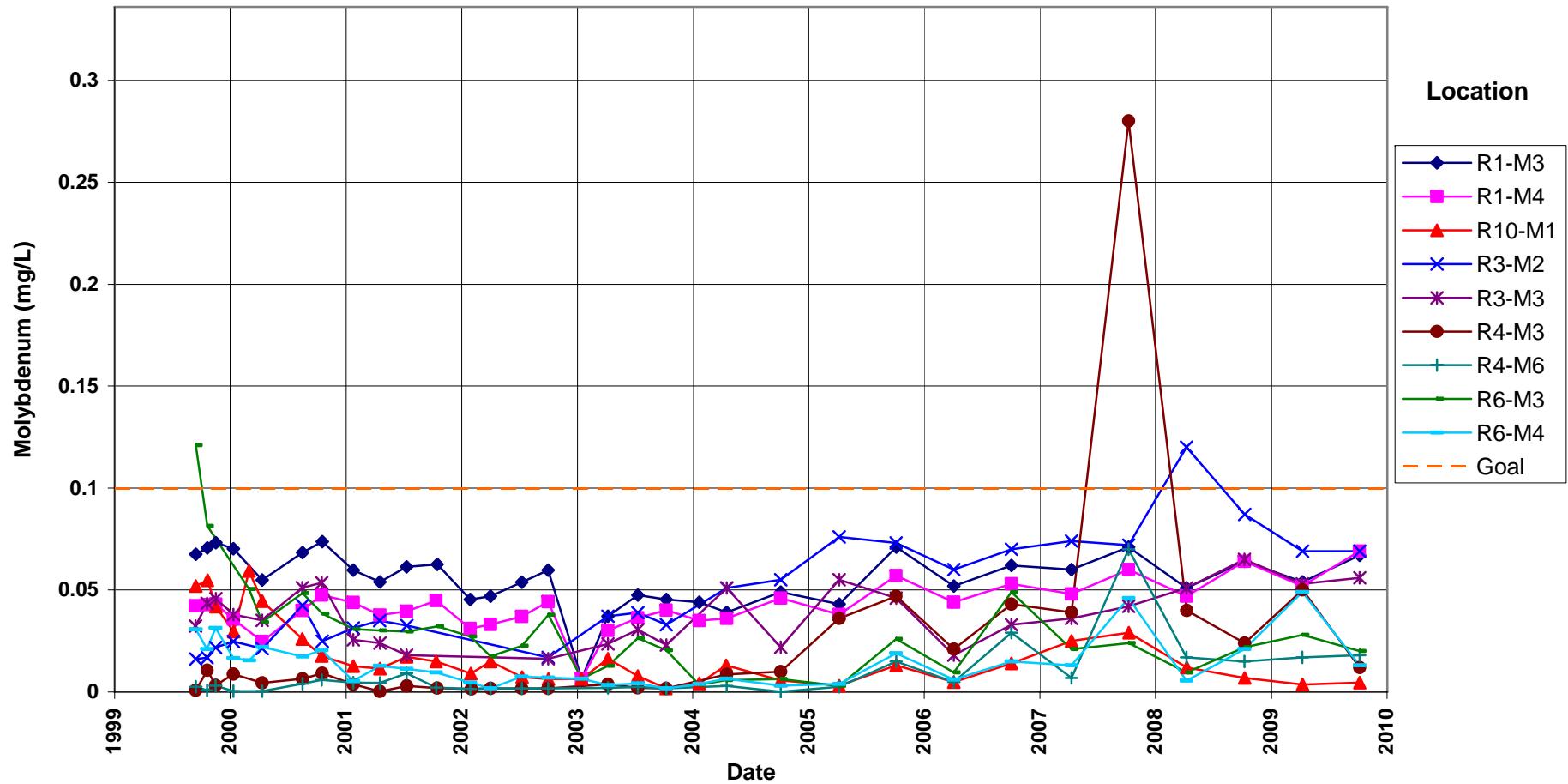
Monticello Disposal & Process Sites
Downgradient Wells
Molybdenum Concentration

Remediation Goal = 0.1 mg/L

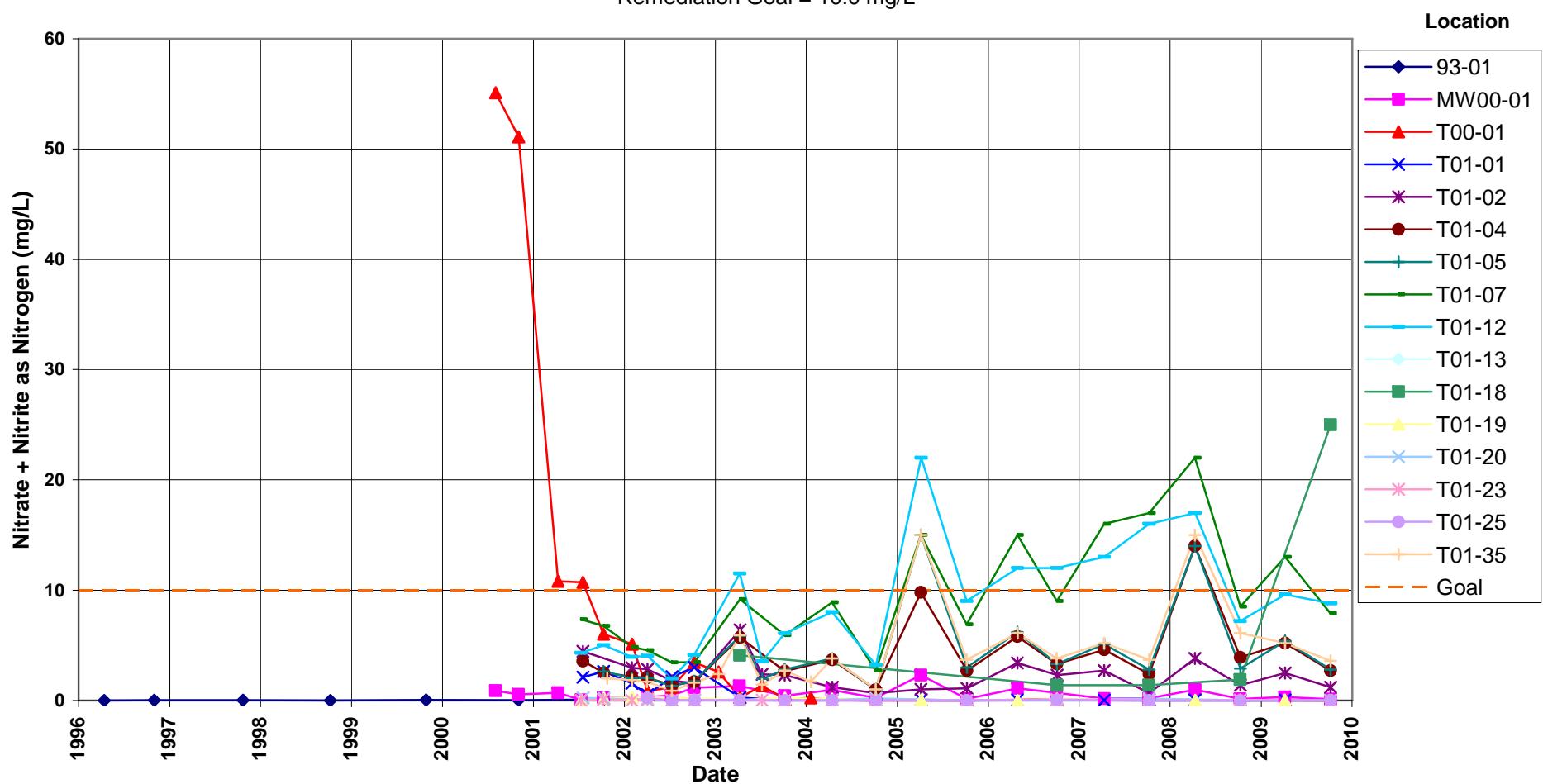
Location



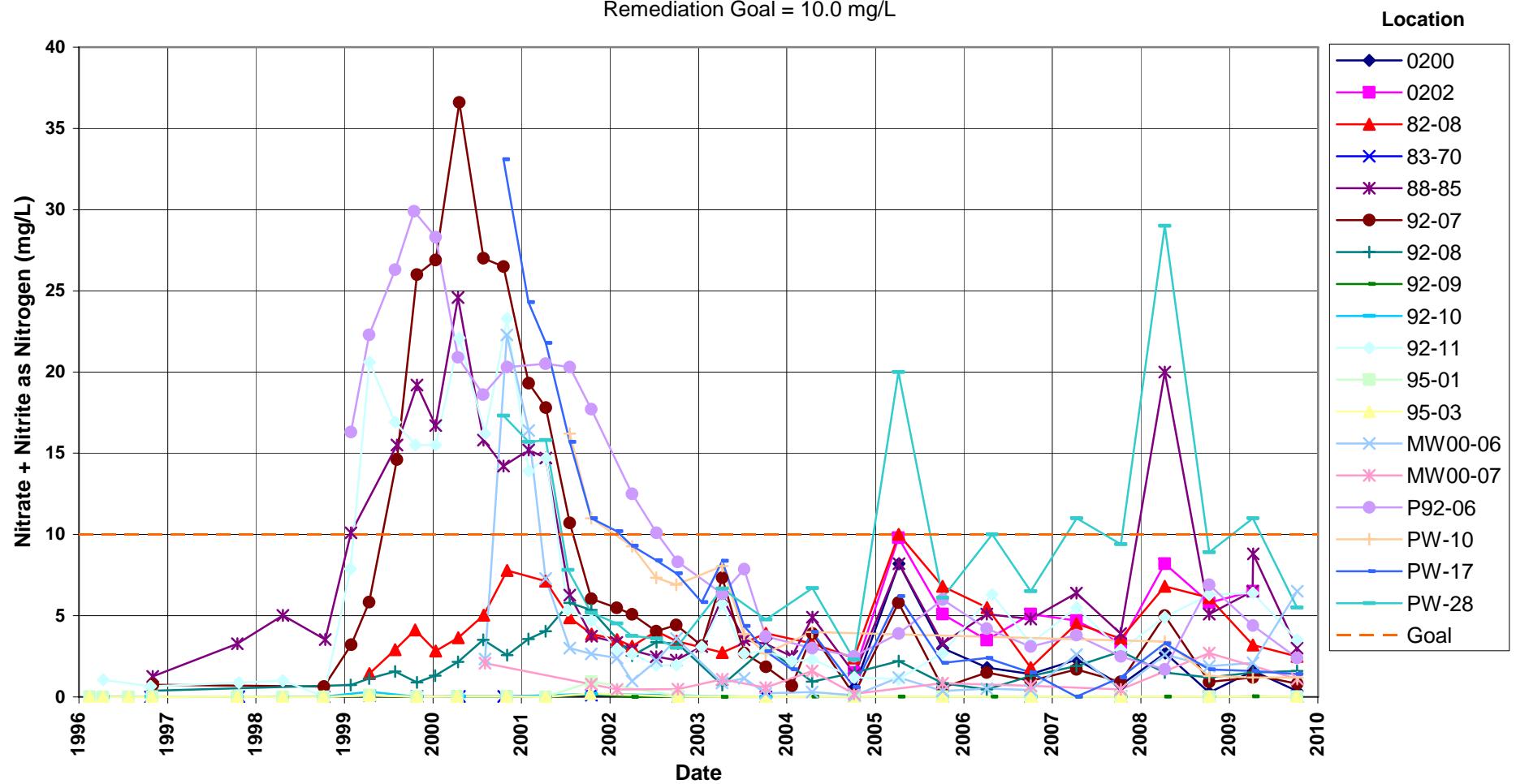
Monticello Disposal & Process Sites
Downgradient PeRT Wells
Molybdenum Concentration
 Remediation Goal = 0.1 mg/L



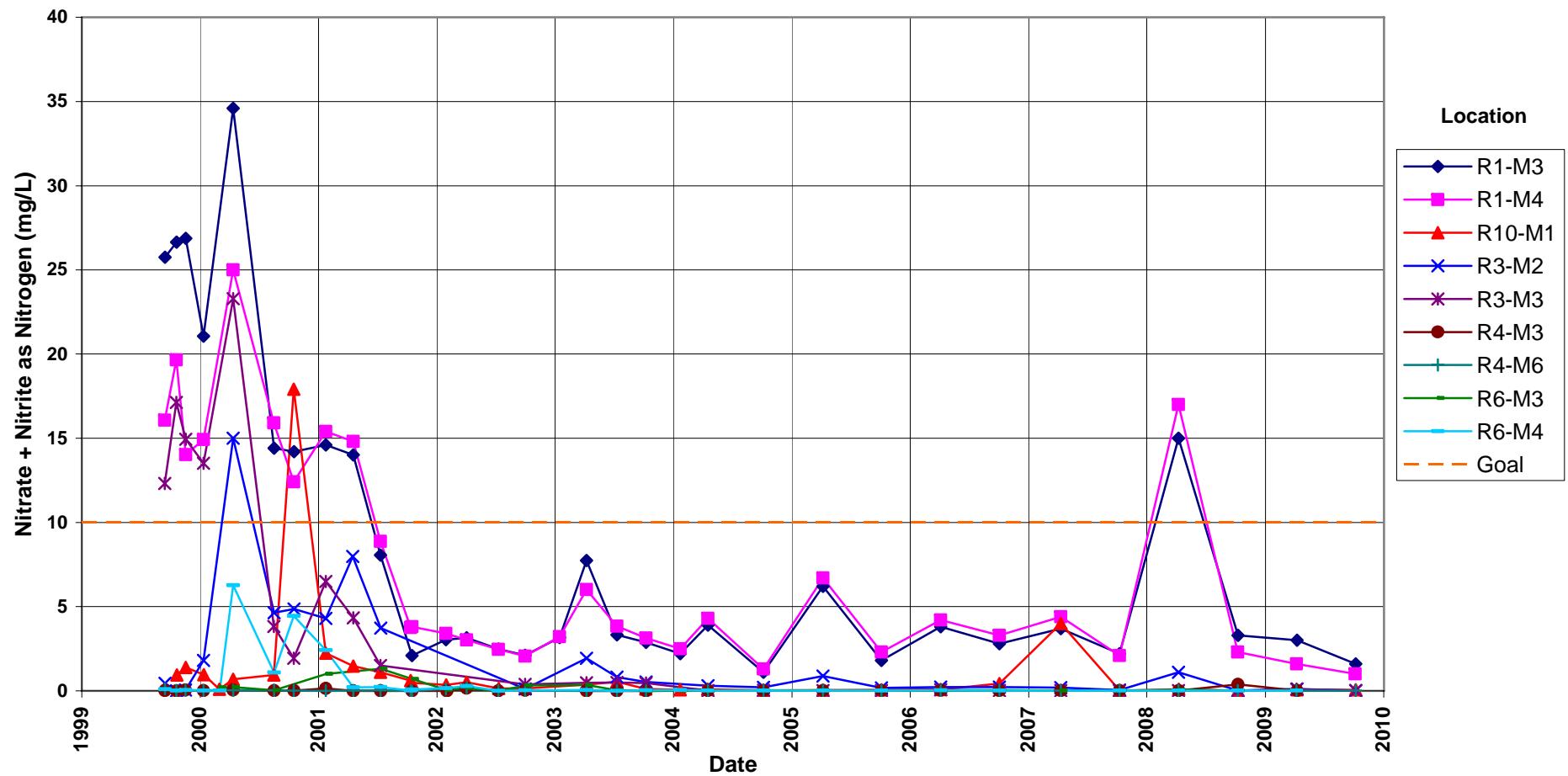
Monticello Disposal & Process Sites
Former Mill Site Wells
Nitrate + Nitrite as Nitrogen Concentration
 Remediation Goal = 10.0 mg/L



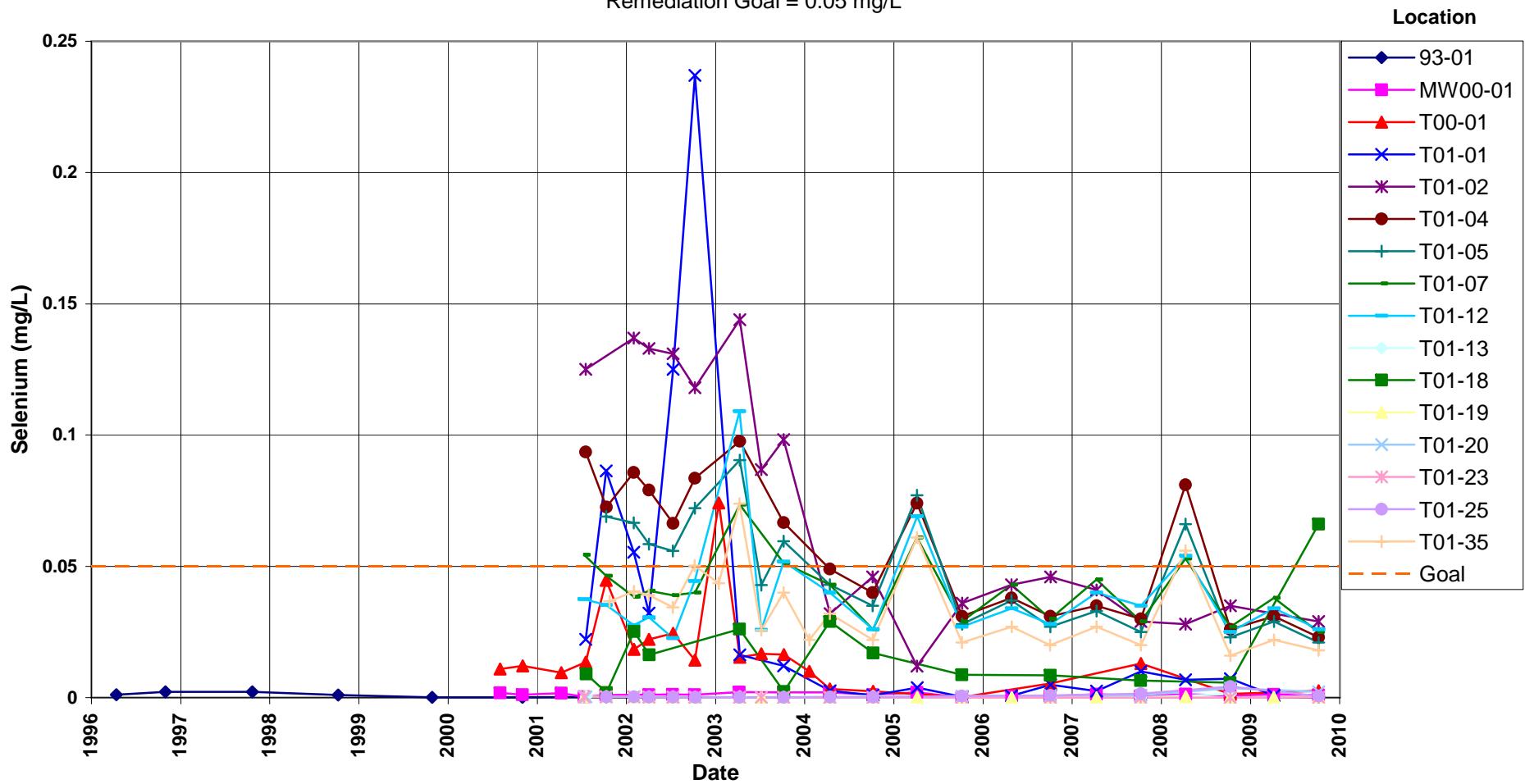
Monticello Disposal & Process Sites
Downgradient Wells
Nitrate + Nitrite as Nitrogen Concentration
 Remediation Goal = 10.0 mg/L



Monticello Disposal & Process Sites
Downgradient PeRT Wells
Nitrate + Nitrite as Nitrogen Concentration
 Remediation Goal = 10.0 mg/L

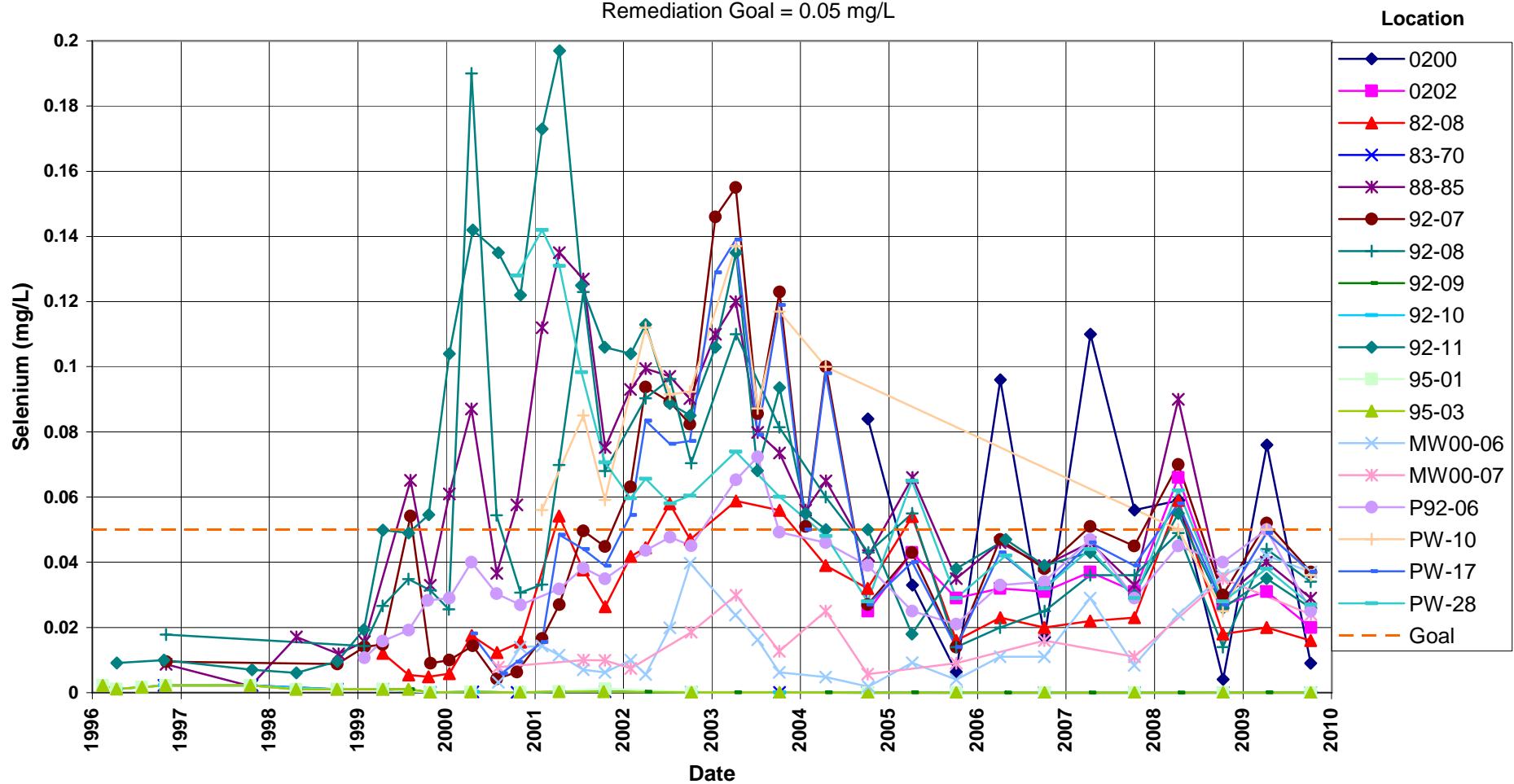


Monticello Disposal & Process Sites
Former Mill Site Wells
Selenium Concentration
 Remediation Goal = 0.05 mg/L

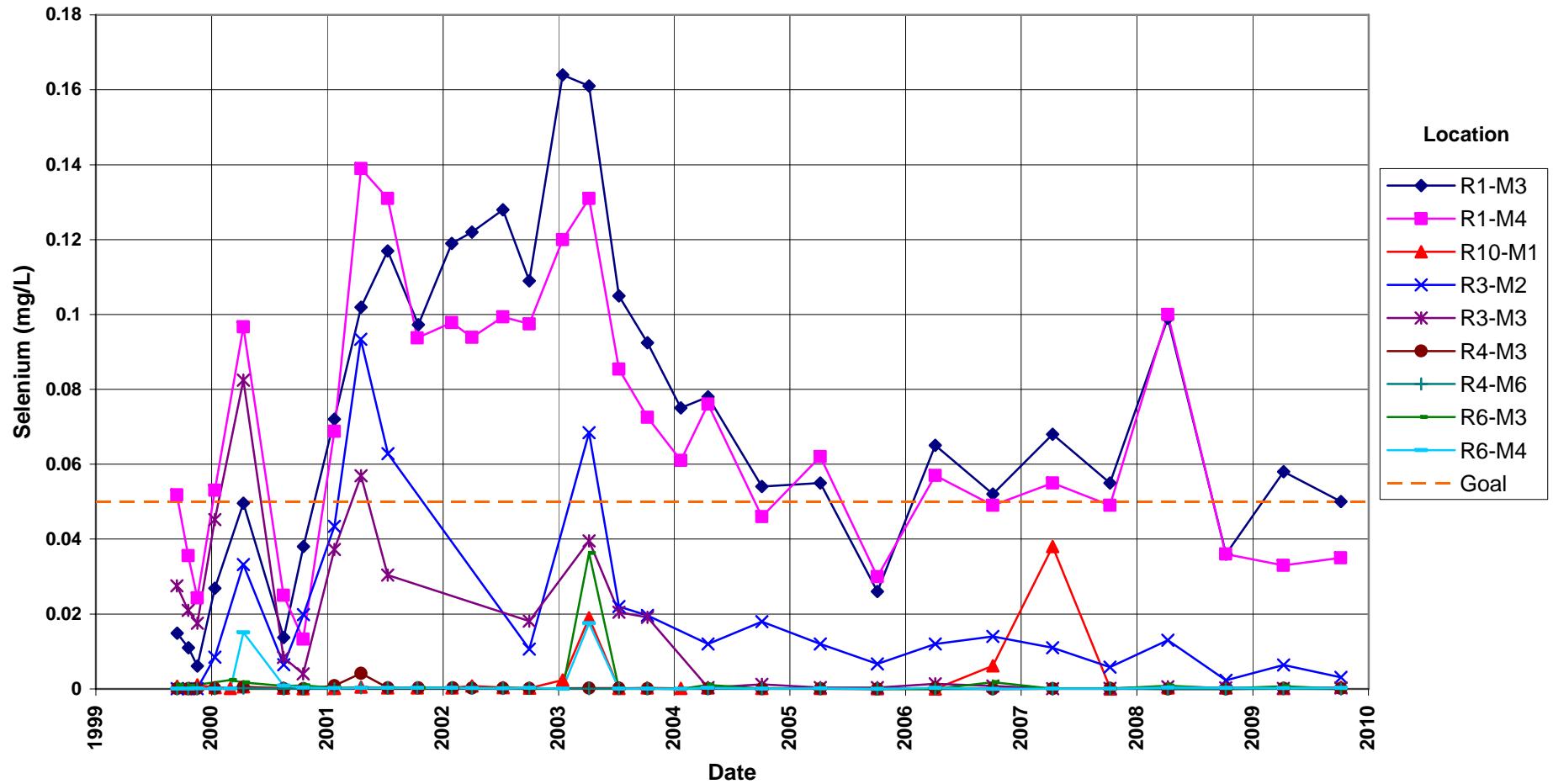


Monticello Disposal & Process Sites
Downgradient Wells
Selenium Concentration

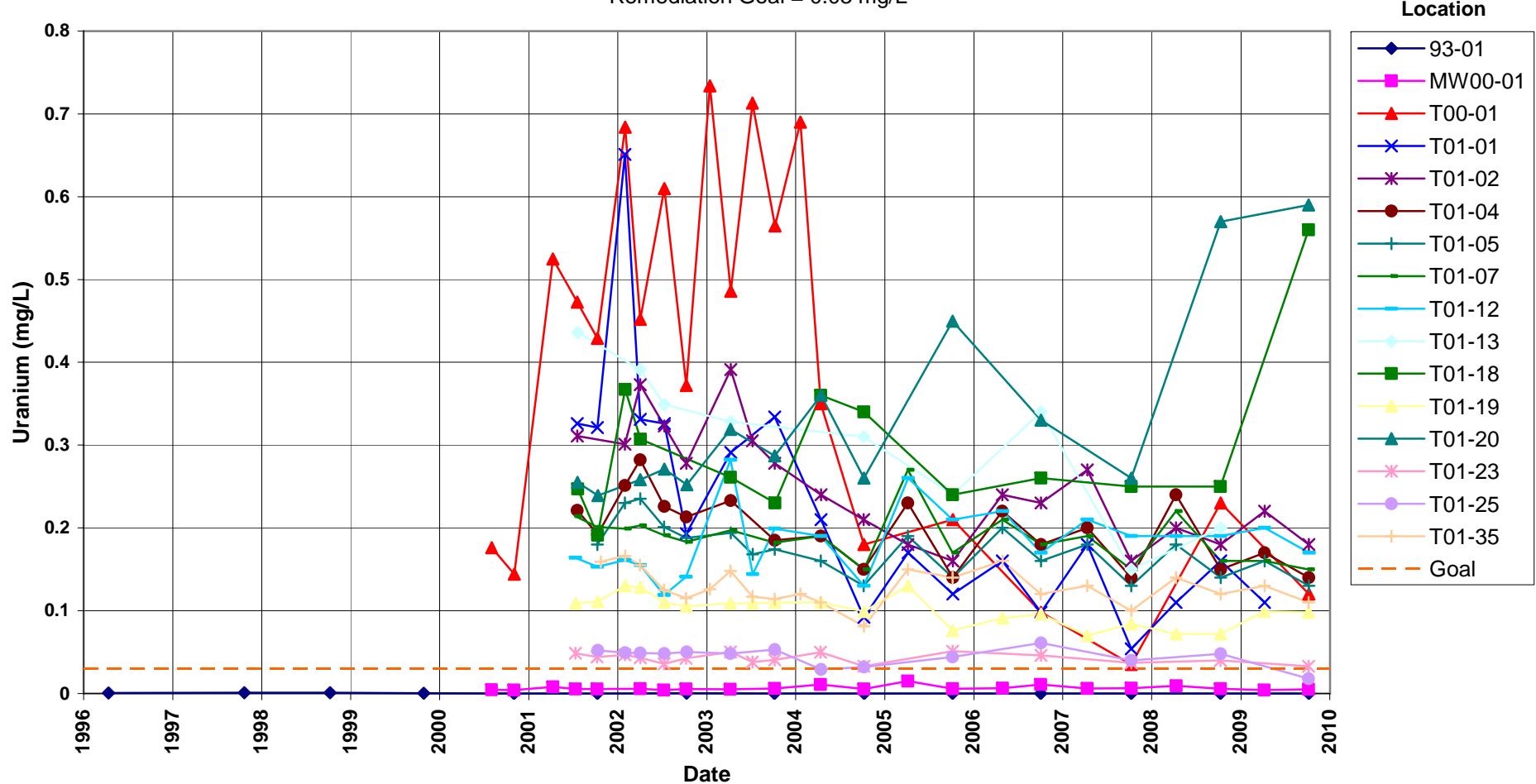
Remediation Goal = 0.05 mg/L



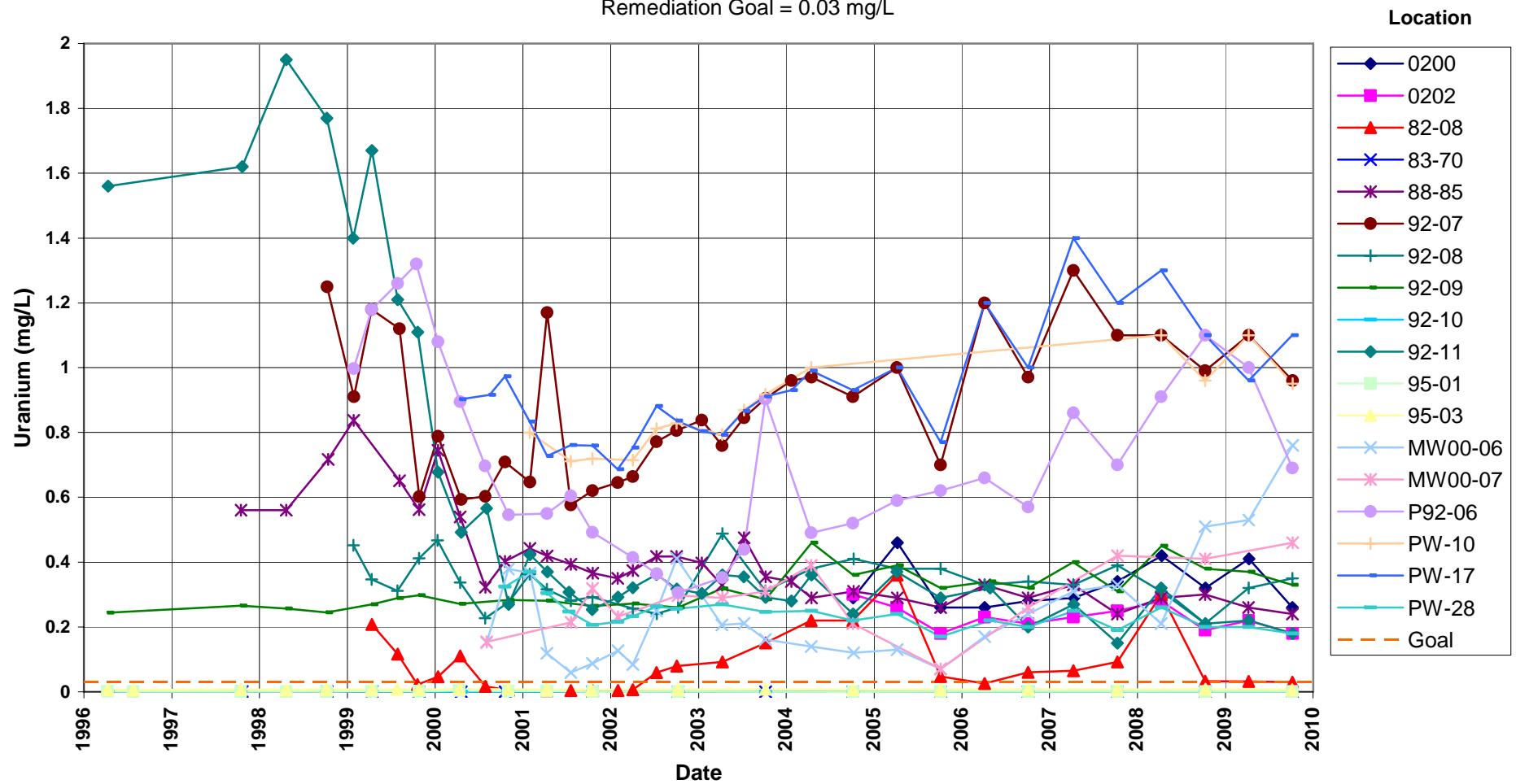
Monticello Disposal & Process Sites
Downgradient PeRT Wells
Selenium Concentration
 Remediation Goal = 0.05 mg/L



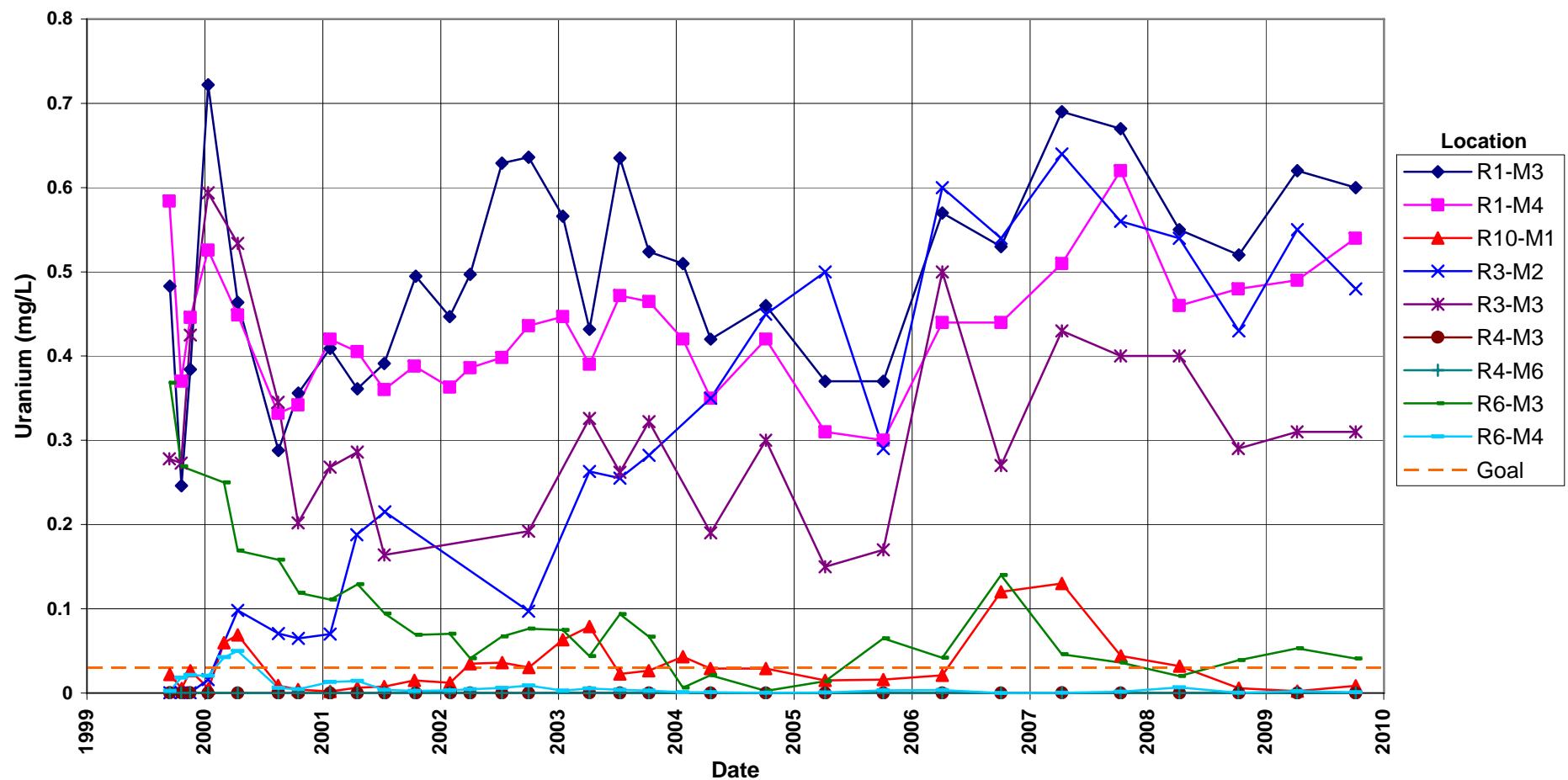
Monticello Disposal & Process Sites
Former Mill Site Wells
Uranium Concentration
 Remediation Goal = 0.03 mg/L



Monticello Disposal & Process Sites
Downgradient Wells
Uranium Concentration
 Remediation Goal = 0.03 mg/L

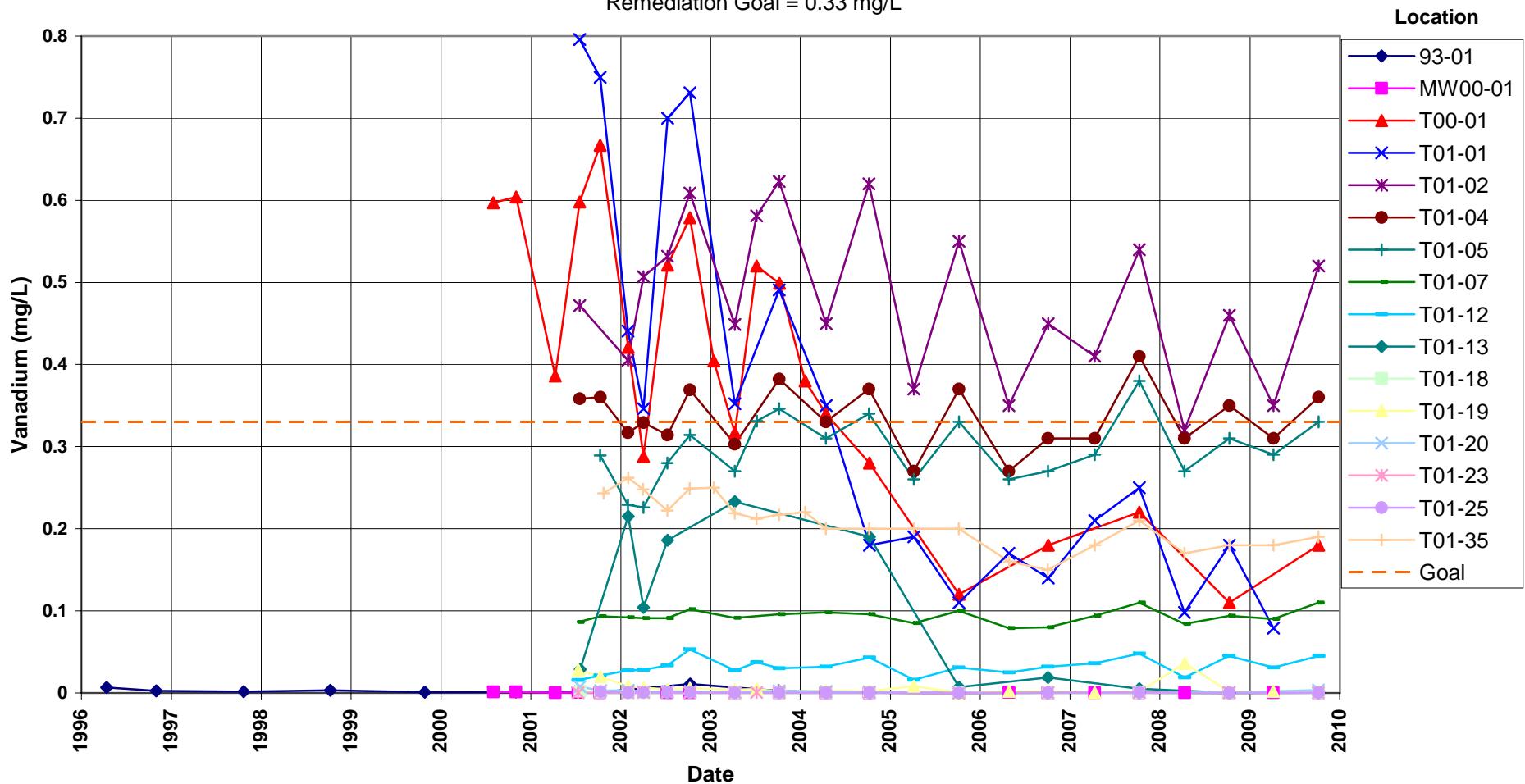


Monticello Disposal & Process Sites
Downgradient PeRT Wells
Uranium Concentration
 Remediation Goal = 0.03 mg/L

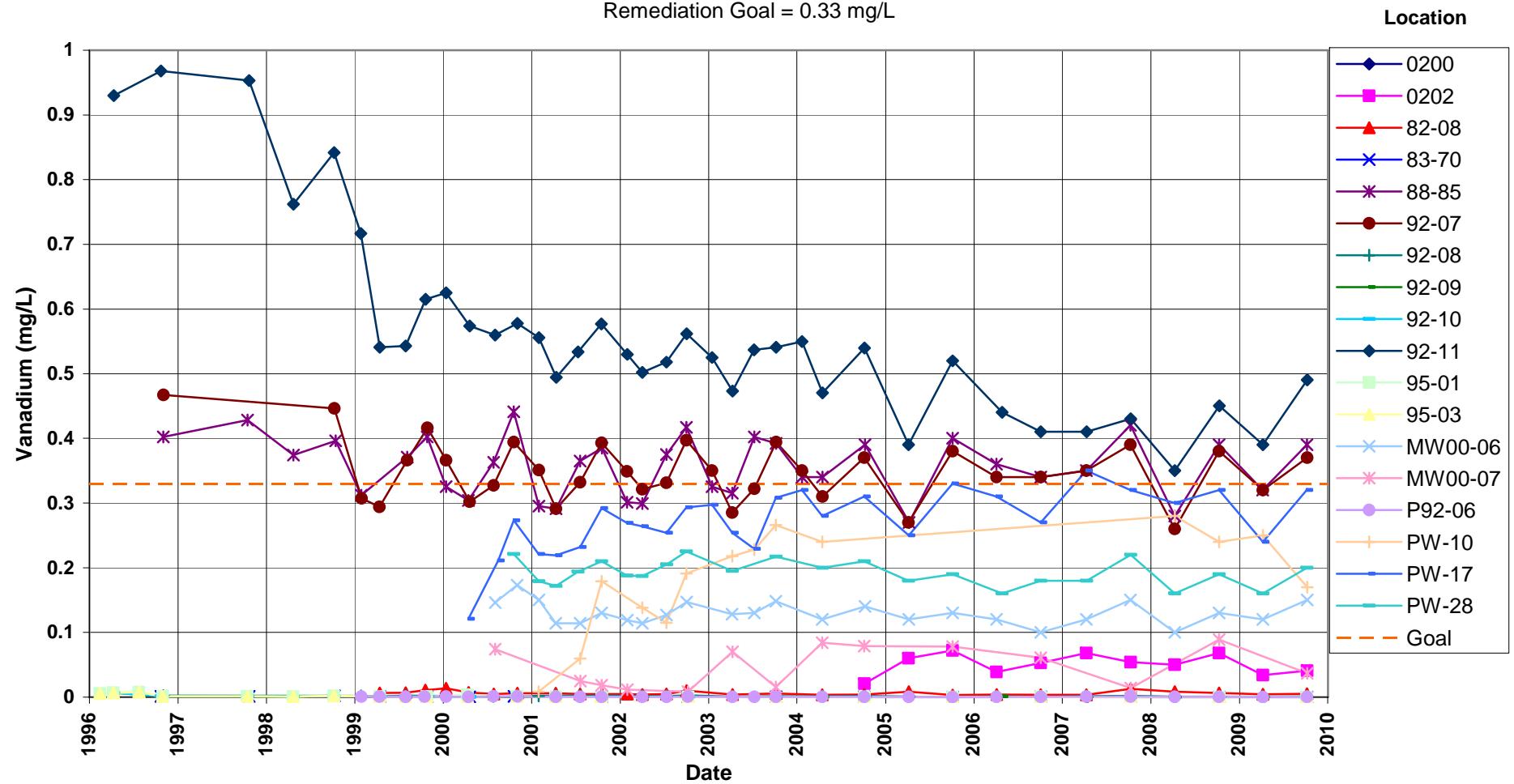


Monticello Disposal & Process Sites
Former Mill Site Wells
Vanadium Concentration

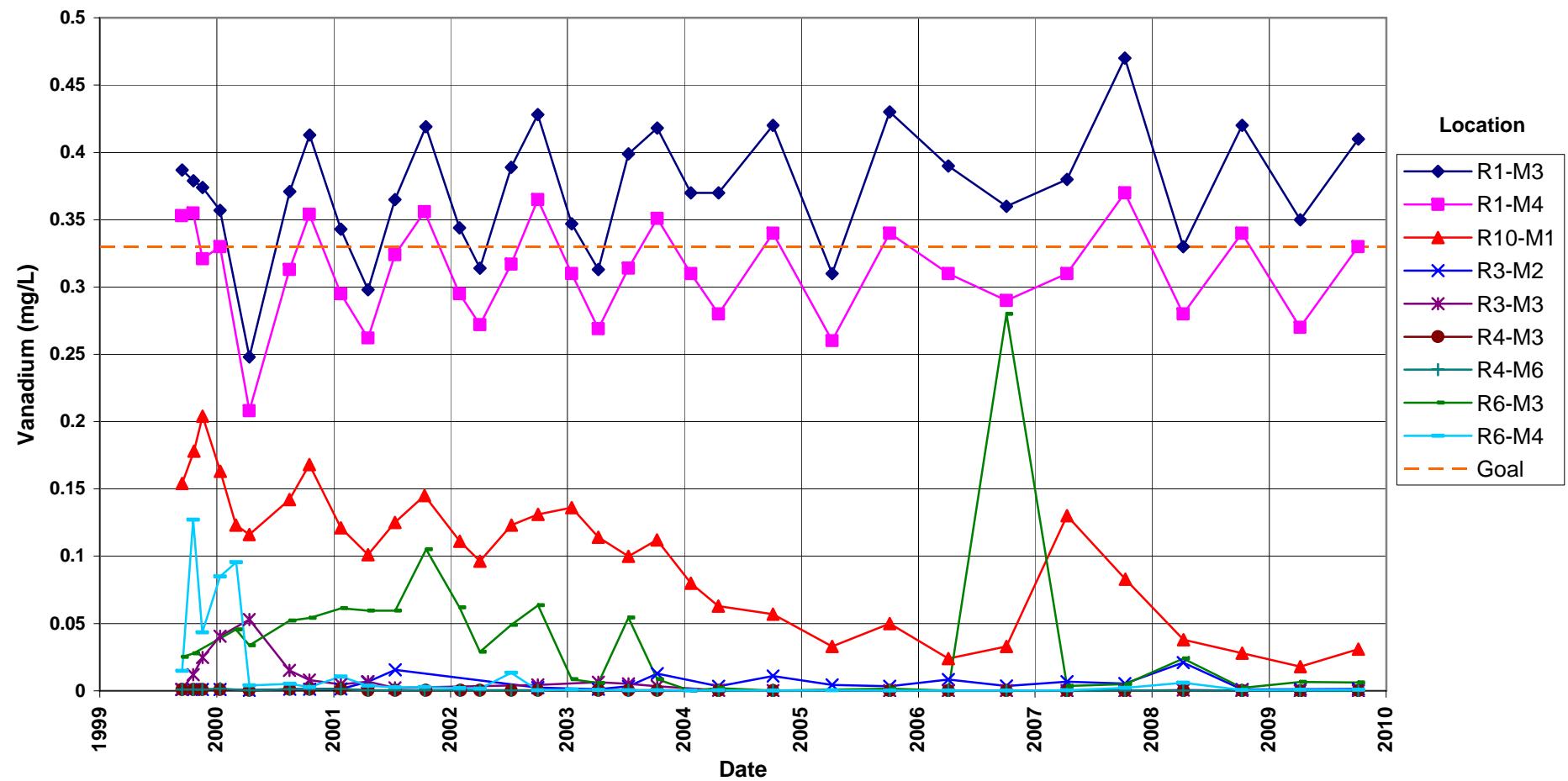
Remediation Goal = 0.33 mg/L



Monticello Disposal & Process Sites
Downgradient Wells
Vanadium Concentration
 Remediation Goal = 0.33 mg/L



Monticello Disposal & Process Sites
Downgradient PeRT Wells
Vanadium Concentration
 Remediation Goal = 0.33 mg/L



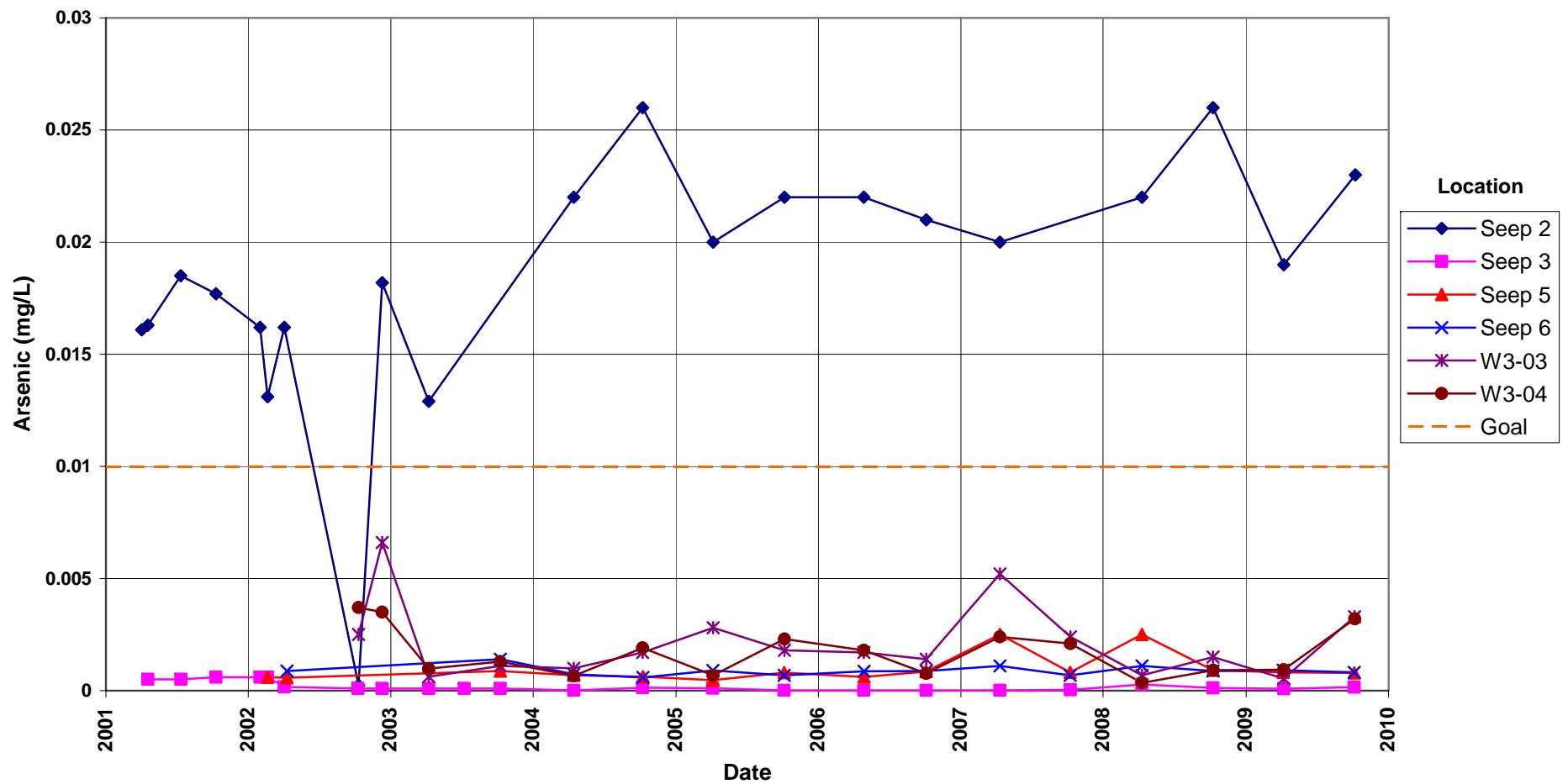
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Time-Concentration Graphs

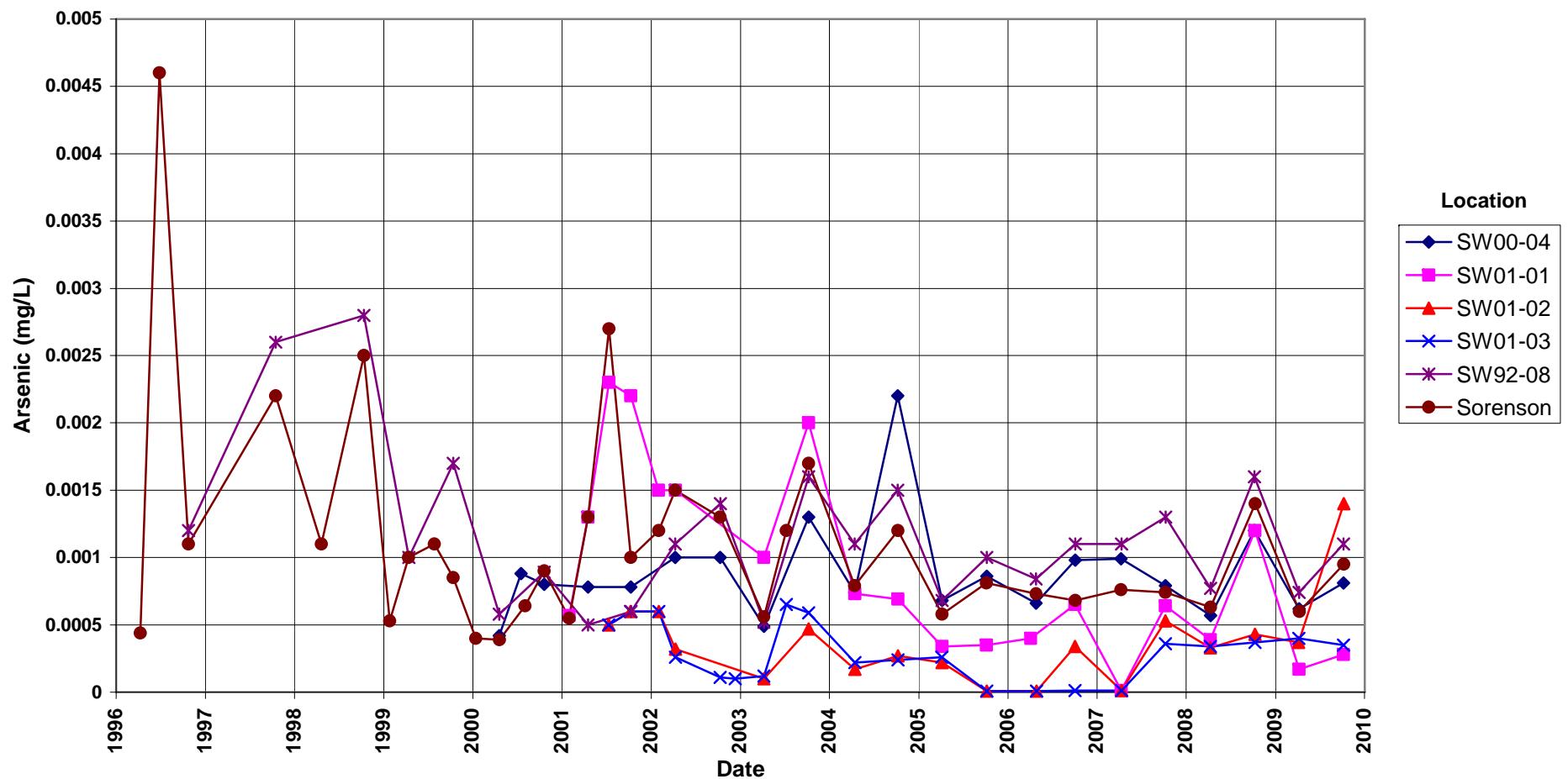
Surface Water

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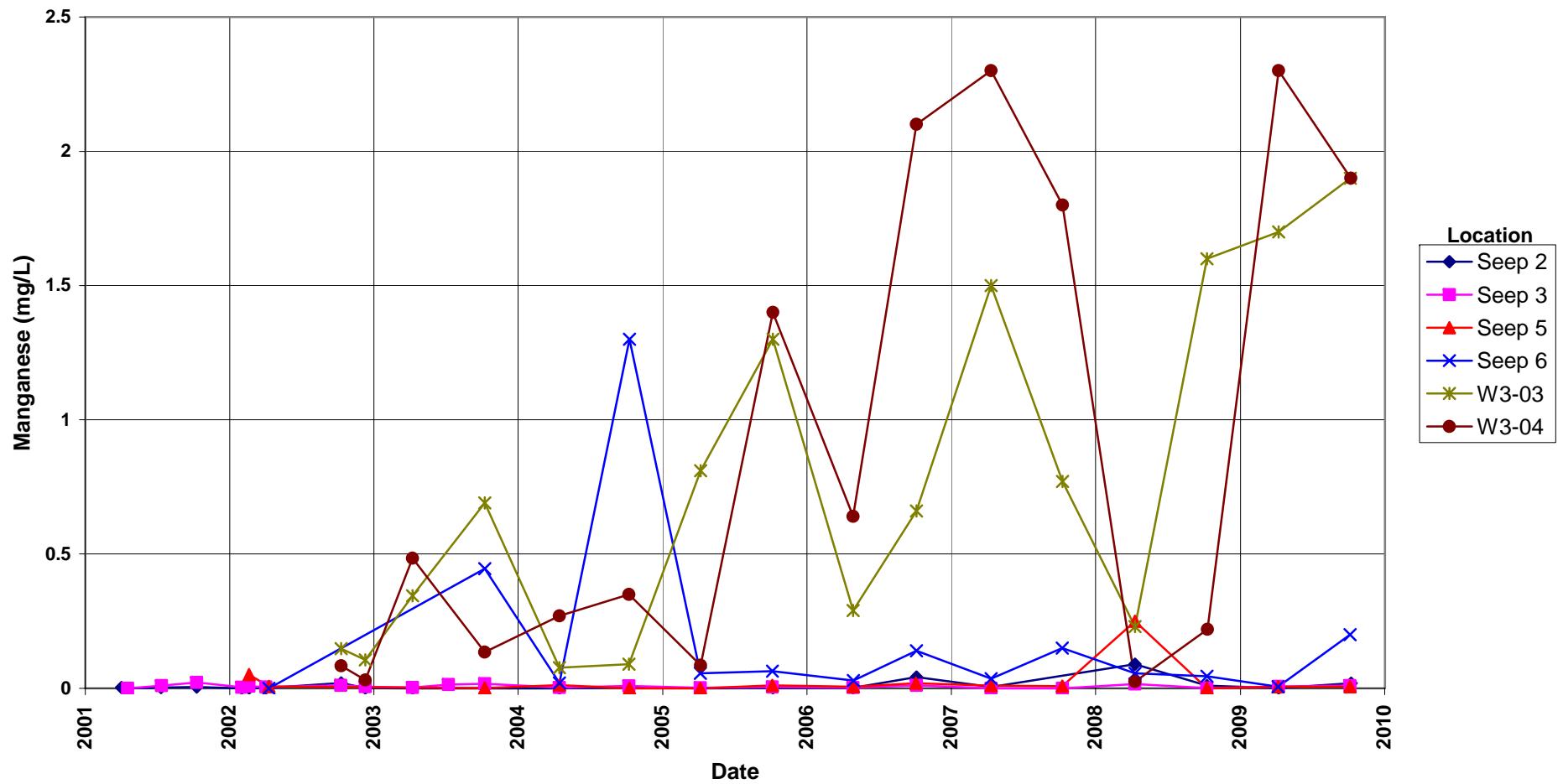
Monticello Disposal & Process Sites
Former Mill Site Seeps and Wetlands
Arsenic Concentration
Remediation Goal = 0.01 mg/L



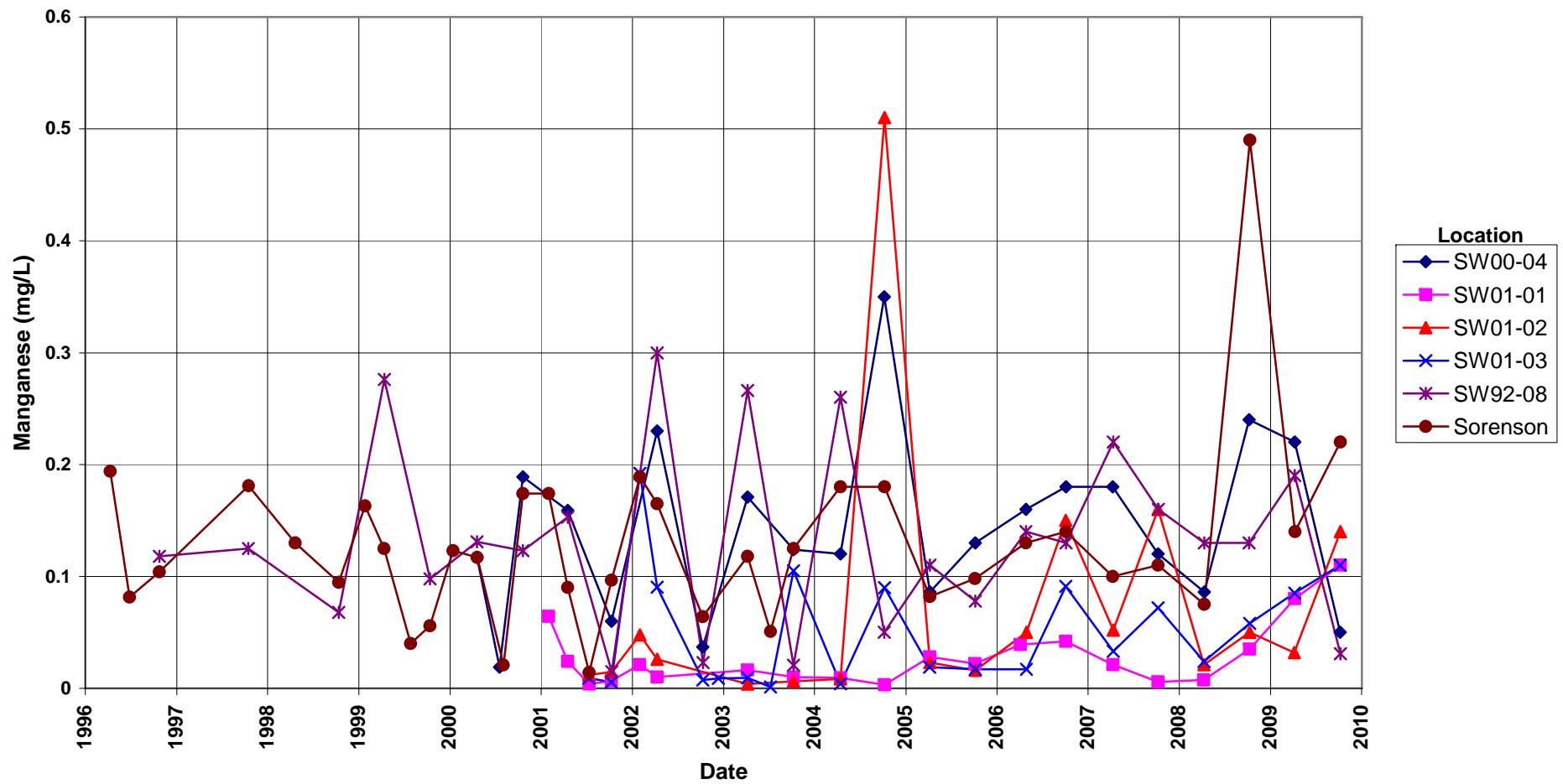
Monticello Disposal & Process Sites
Surface Water Locations
Arsenic Concentration
 Remediation Goal = 0.01 mg/L



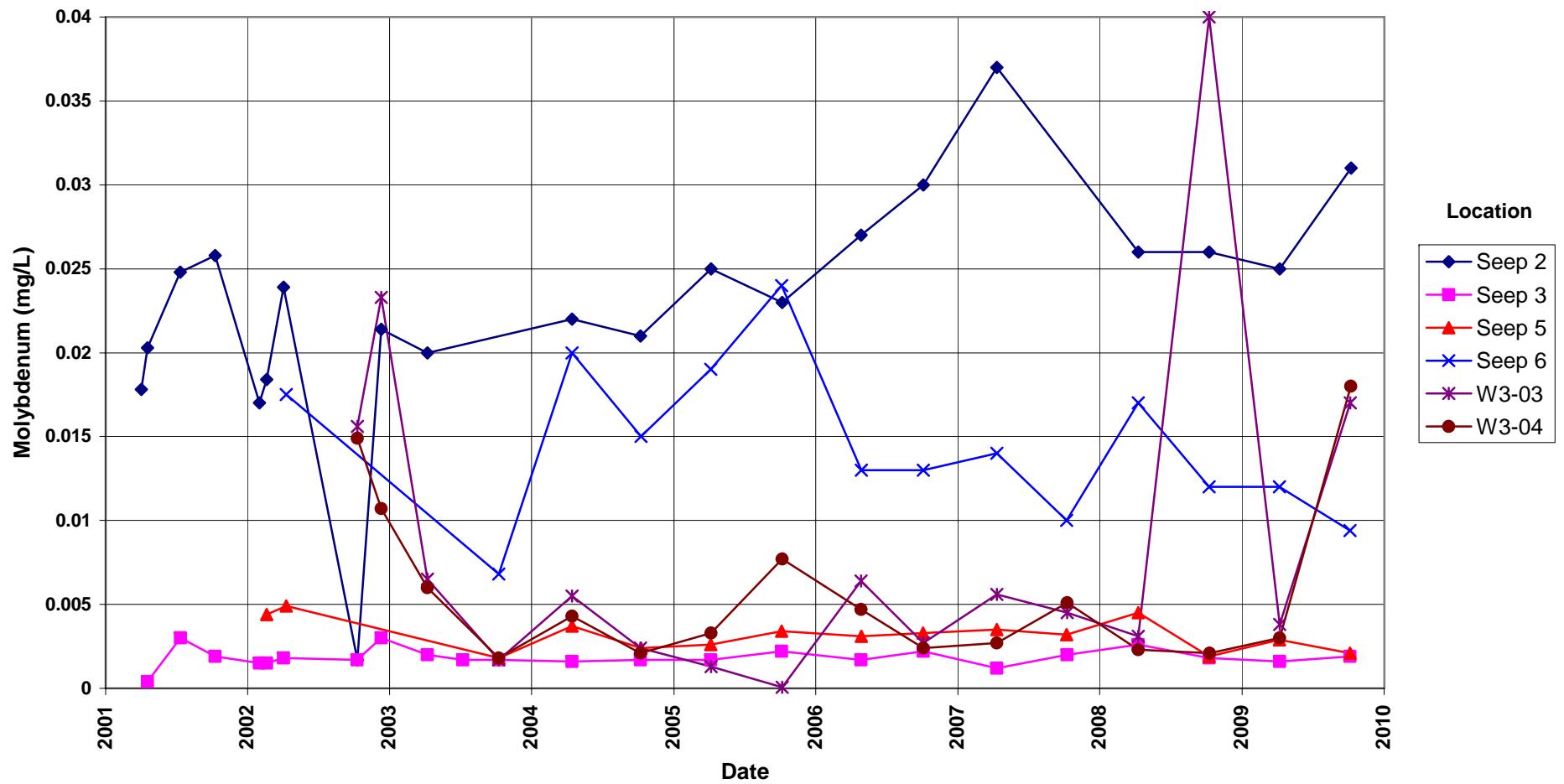
**Monticello Disposal & Process Sites
Former Mill Site Seeps and Wetlands
Manganese Concentration**



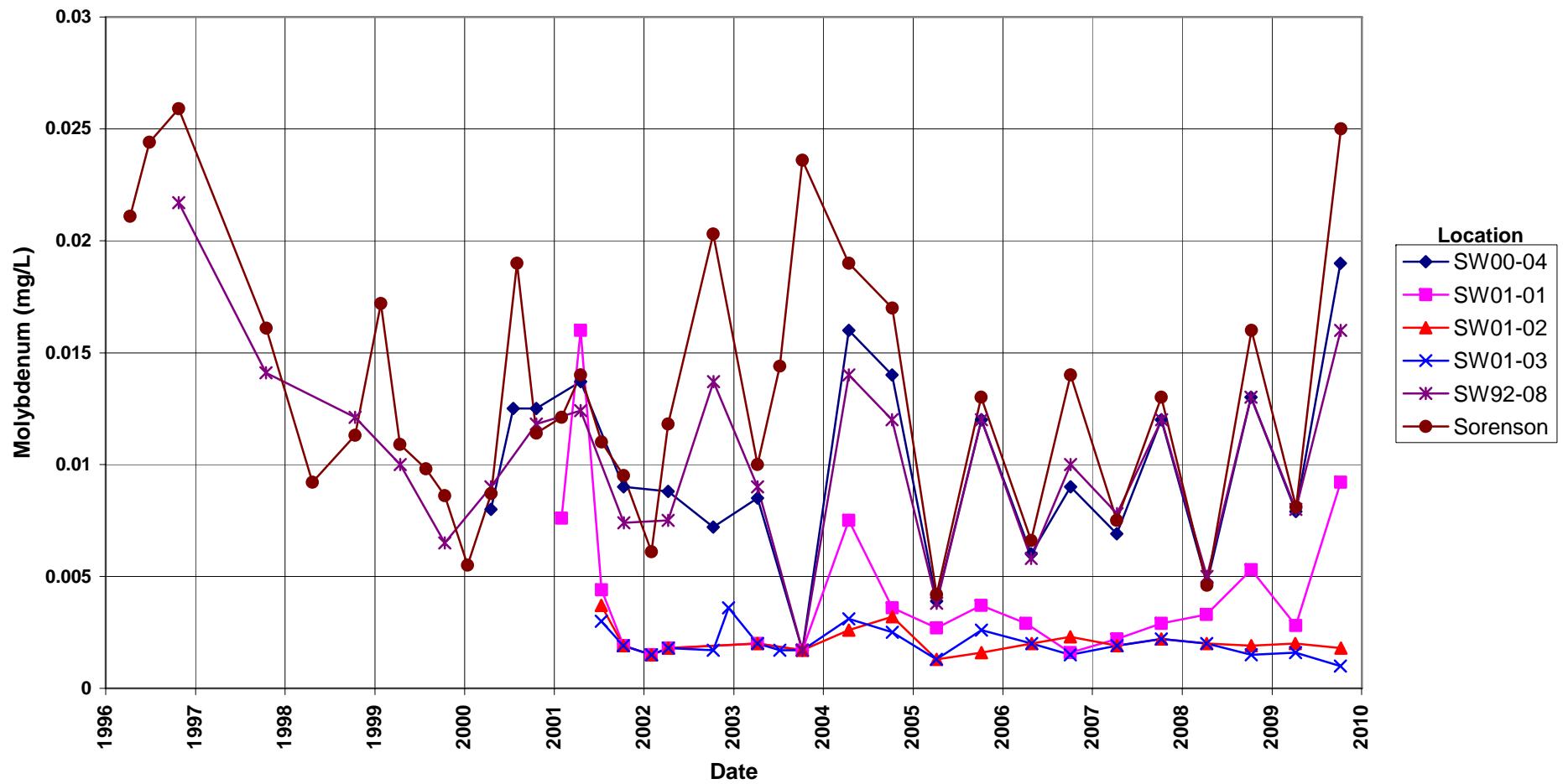
Monticello Disposal & Process Sites
Surface Water Locations
Manganese Concentration



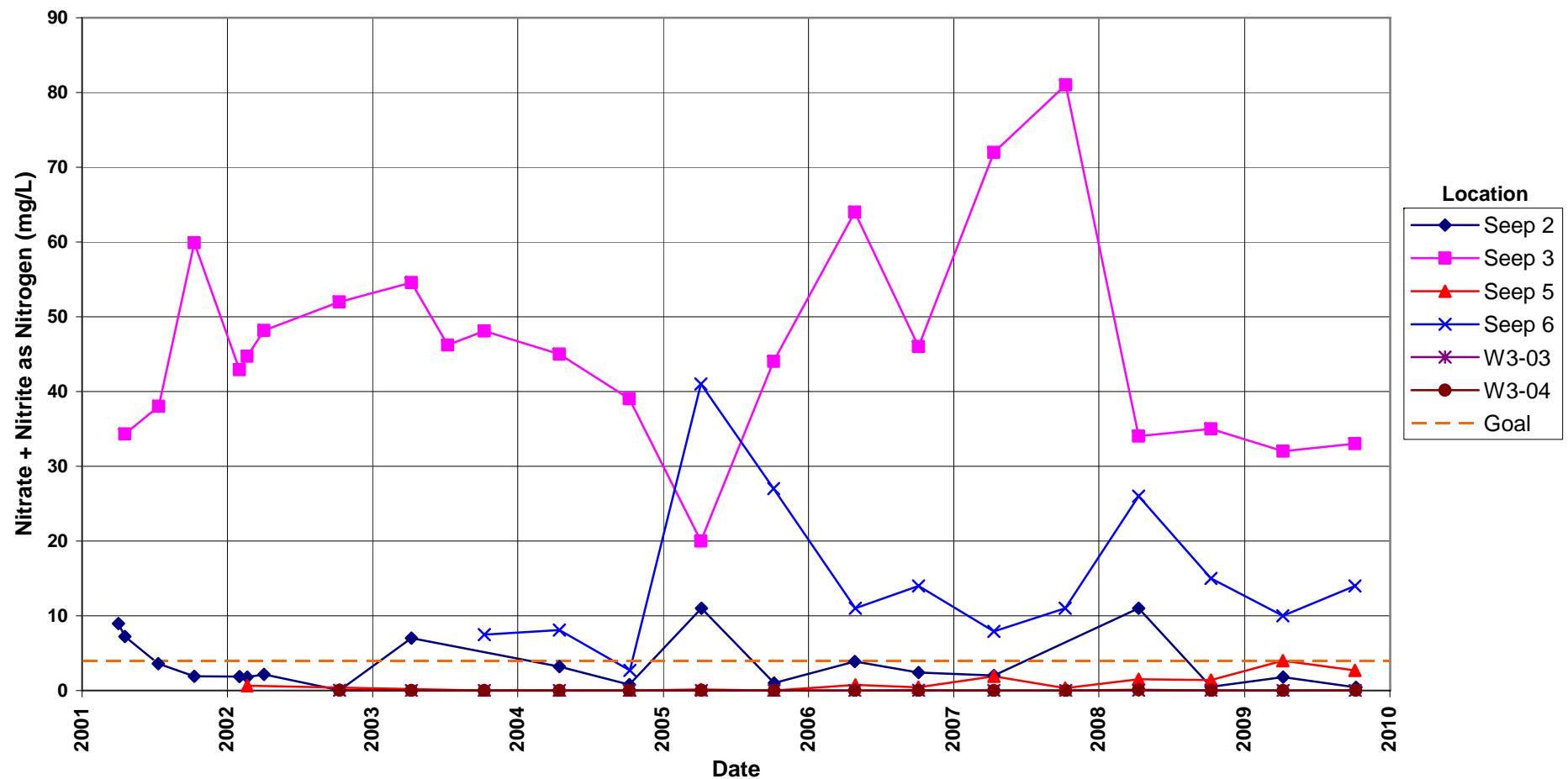
Monticello Disposal & Process Sites
Former Mill Site Seeps and Wetlands
Molybdenum Concentration



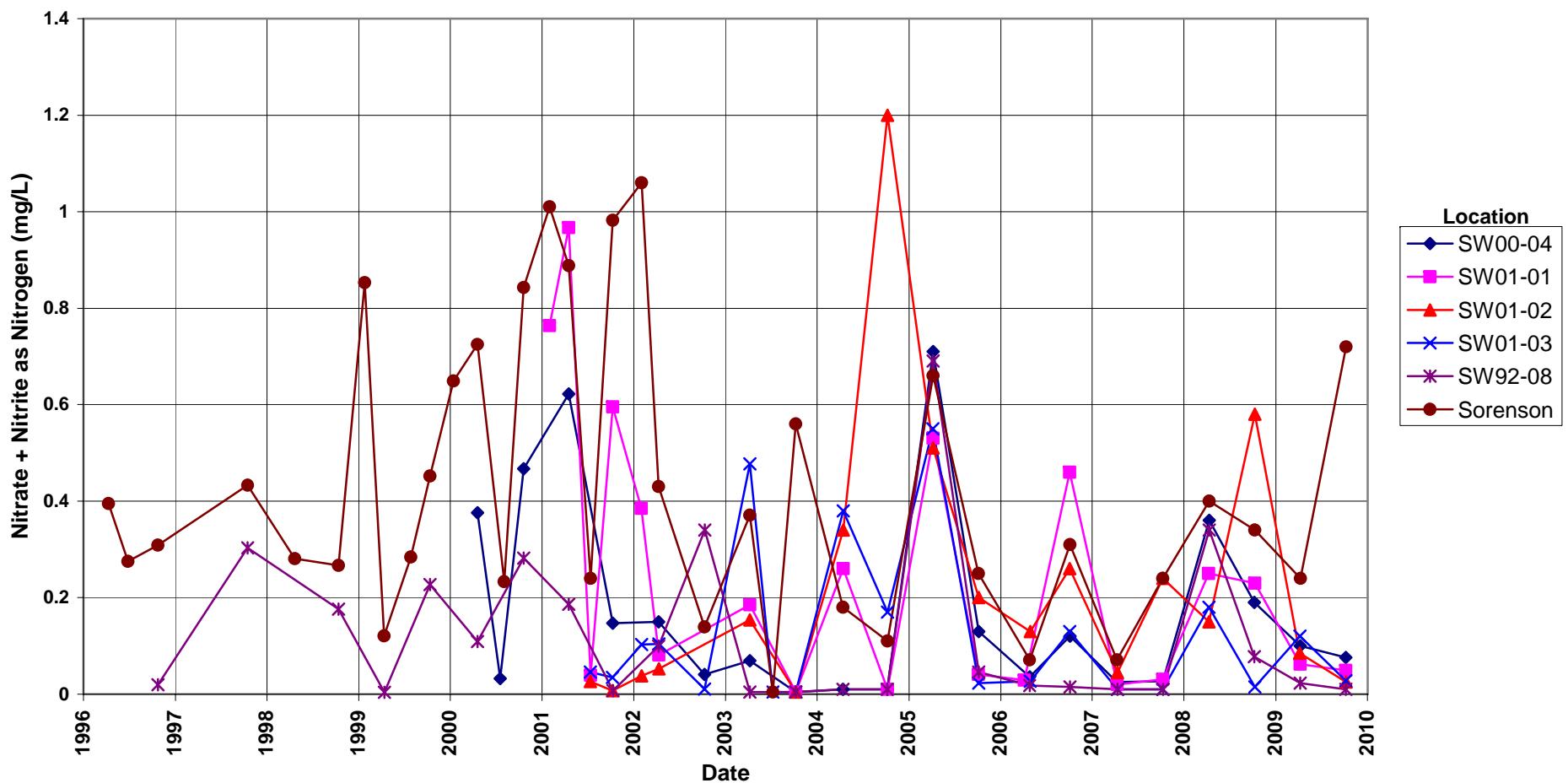
Monticello Disposal & Process Sites
Surface Water Locations
Molybdenum Concentration



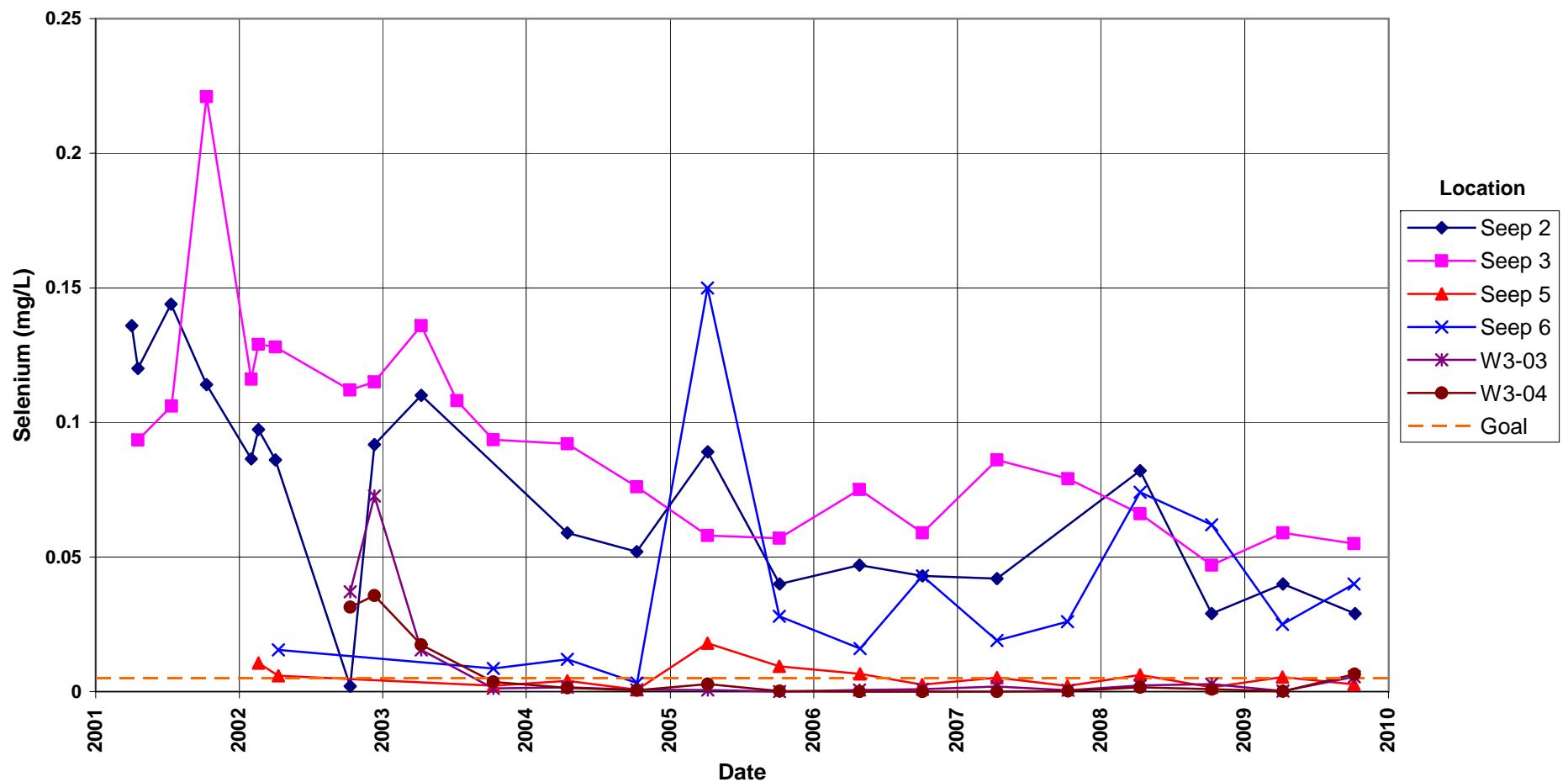
Monticello Disposal & Process Sites
Former Mill Site Seeps and Wetlands
Nitrate + Nitrite as Nitrogen Concentration
 Remediation Goal = 4.0 mg/L



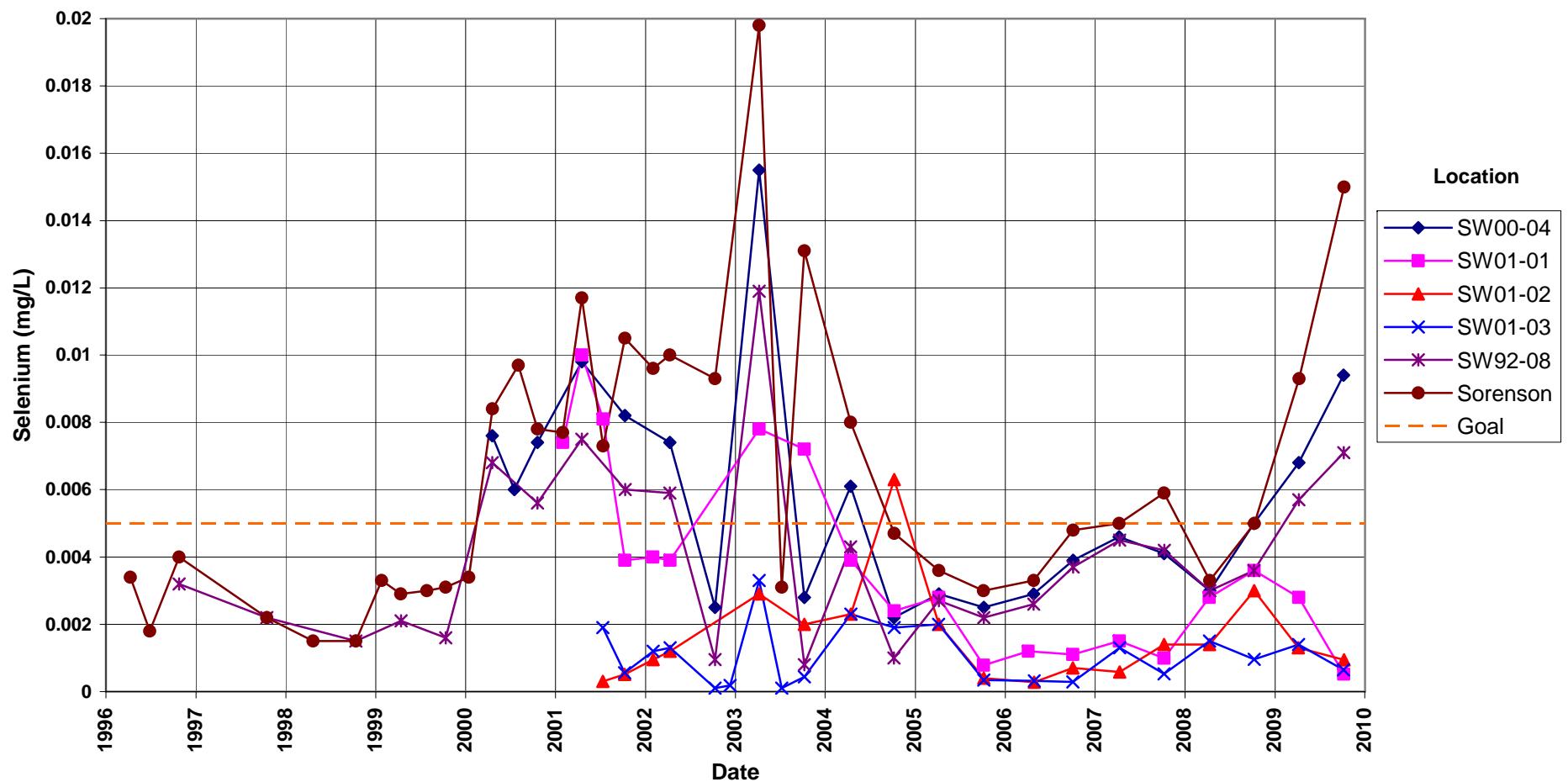
Monticello Disposal & Process Sites
Surface Water Locations
Nitrate + Nitrite as Nitrogen Concentration
 Remediation Goal = 4.0 mg/L



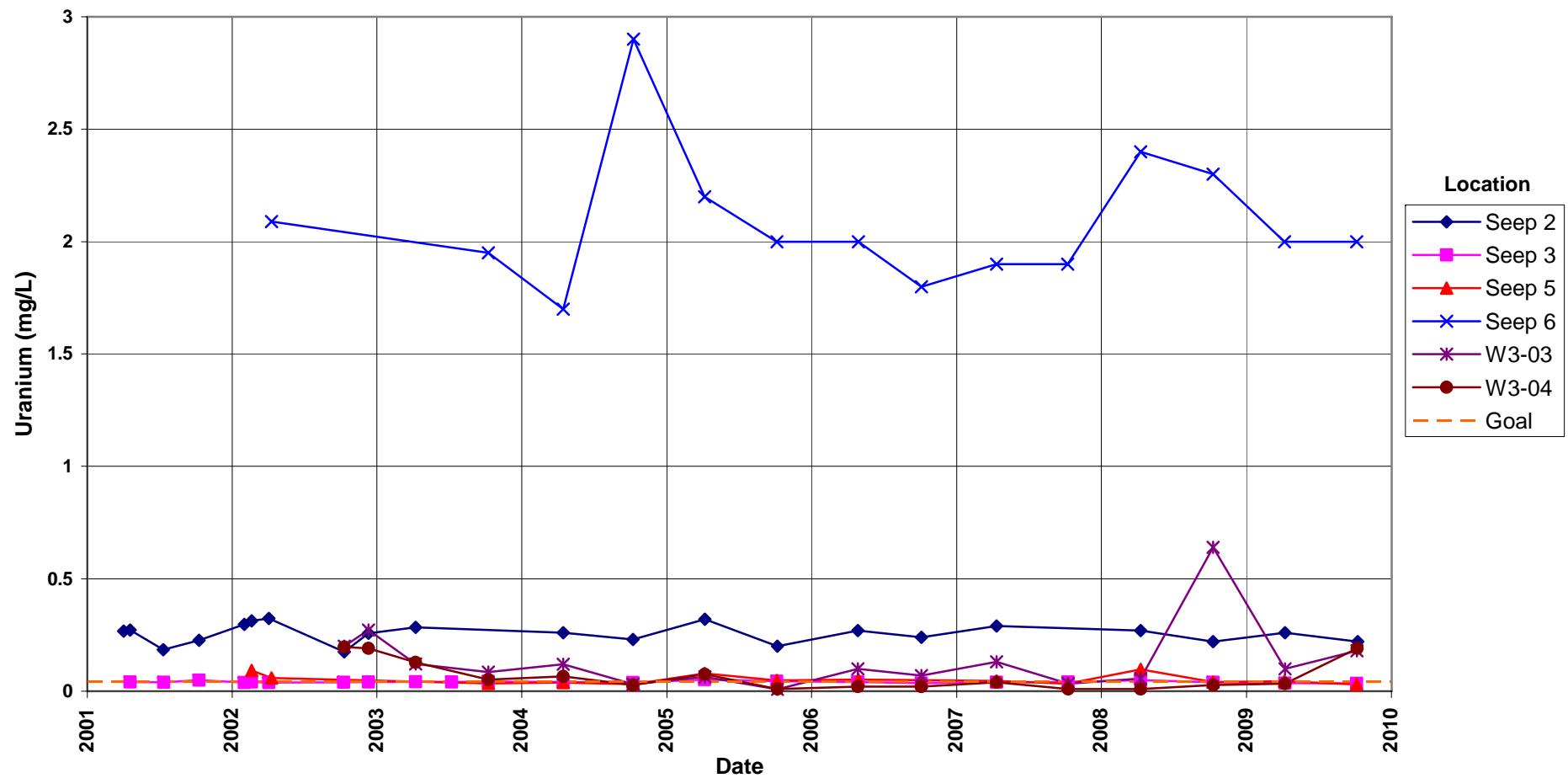
Monticello Disposal & Process Sites
Former Mill Site Seeps and Wetlands
Selenium Concentration
 Remediation Goal = 0.005 mg/L



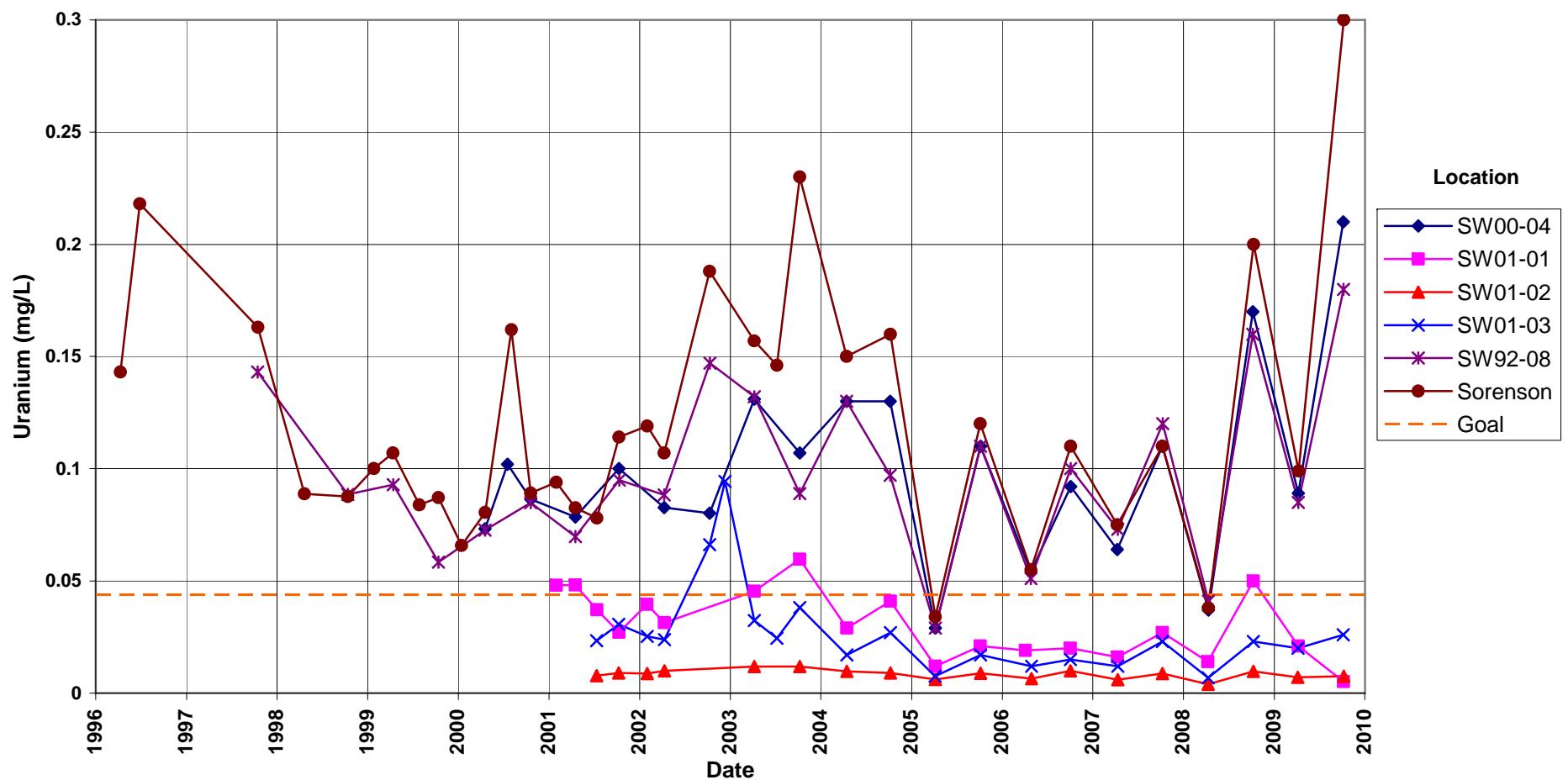
Monticello Disposal & Process Sites
Surface Water Locations
Selenium Concentration
 Remediation Goal = 0.005 mg/L



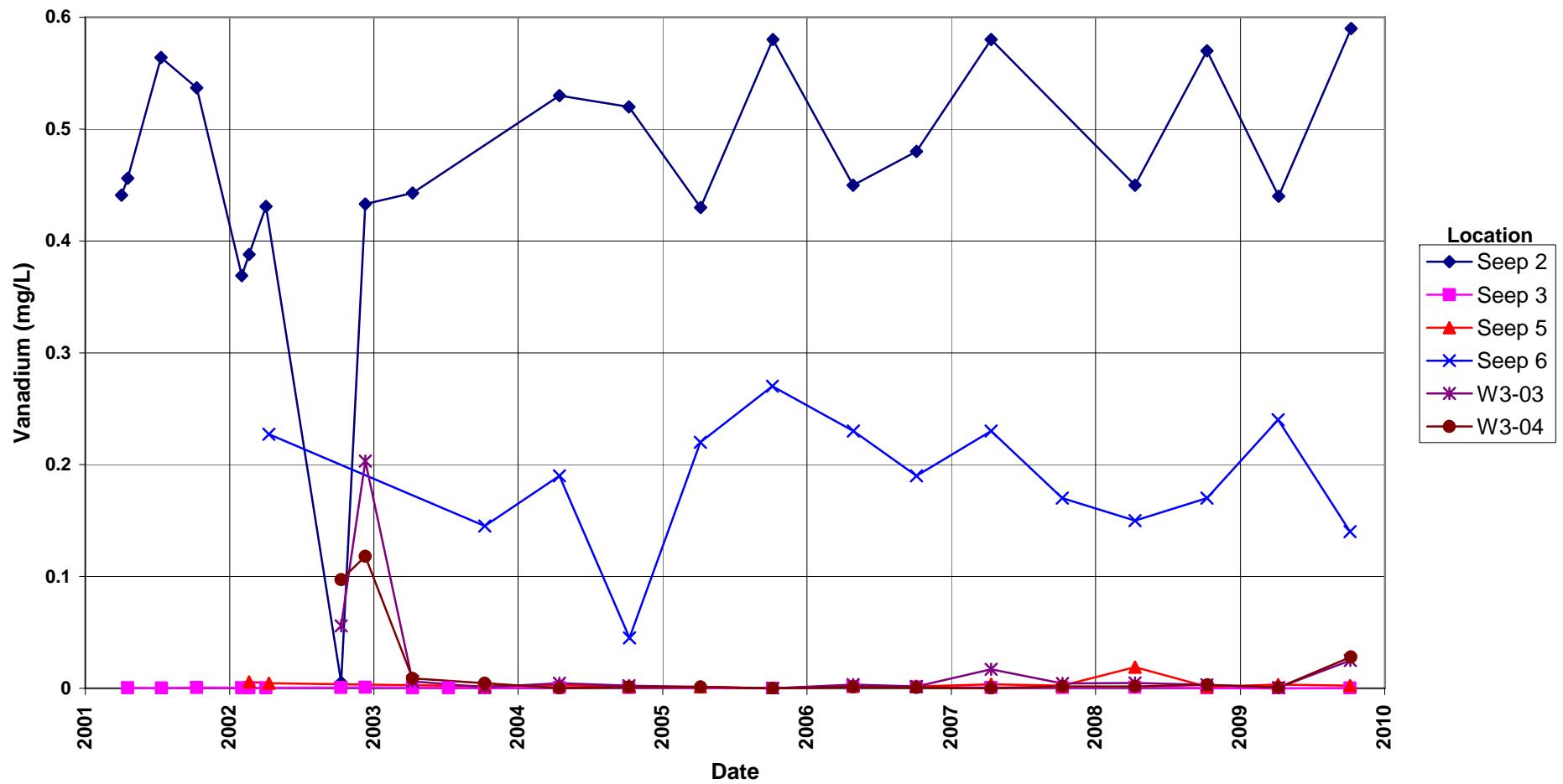
Monticello Disposal & Process Sites
Former Mill Site Seeps and Wetlands
Uranium Concentration
Remediation Goal = 0.044 mg/L



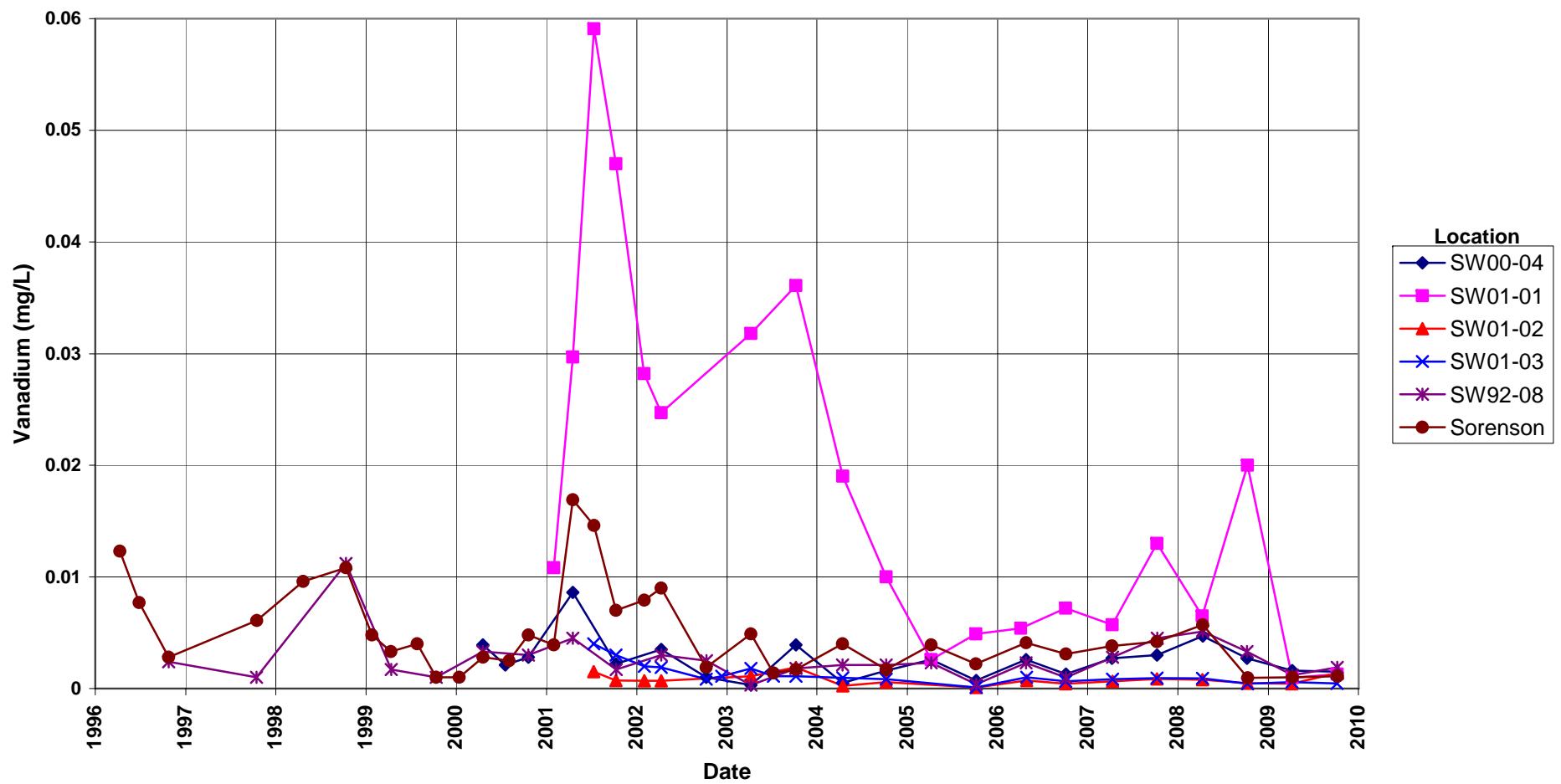
Monticello Disposal & Process Sites
Surface Water Locations
Uranium Concentration
 Remediation Goal = 0.044 mg/L



**Monticello Disposal & Process Sites
Former Mill Site Seeps and Wetlands
Vanadium Concentration**



Monticello Disposal & Process Sites
Surface Water Locations
Vanadium Concentration



Attachment 3

Sampling and Analysis Work Order

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established 1959

Task Order LM00-501
Control Number 09-1027

September 2, 2009

U.S. Department of Energy
Office of Legacy Management
ATTN: Jalena Dayvault
Site Manager
2597 B ½ Road
Grand Junction, CO 81503

SUBJECT: Contract No. DE-AM01-07LM00060, Stoller
October 2009 Environmental Sampling at the Monticello, Utah, Site

REFERENCE: Task Order LM00-501-06-502-402, Monticello, UT, Site

Dear Ms. Dayvault:

The purpose of this letter is to inform you of the upcoming sampling event at Monticello, Utah. Enclosed are the map and tables specifying sample locations and analytes for routine monitoring. Water quality data will be collected at this site as part of the environmental sampling currently scheduled to begin the week of October 5, 2009.

The following lists show the monitor wells and surface locations scheduled for sampling during this event.

Locations

Former Mill Site Wells

93-01	T00-04	T01-04	T01-12	T01-18	T01-20	T01-25
MW00-01	T01-01	T01-05	T01-13	T01-19	T01-23	T01-35
T00-01	T01-02	T01-07				

Downgradient Wells

82-08	92-07	92-10	95-03	MW00-06	P92-06	PW-17
83-70	92-08	92-11	0200	MW00-07	PW-10	PW-28
88-85	92-09	95-01	0202			

Downgradient PeRT Wells

R1-M3	R3-M2	R4-M3	R4-M6	R6-M3	R6-M4	R10-M1
R1-M4	R3-M3					

Former Millsite Seeps and Wetlands

Seep1	Seep 2	Seep 3	Seep 5	Seep 6	W3-03	W3-04
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Jalena Dayvault
Control Number 09-1027
Page 2

Surface Water Locations

SW00-01 SW01-02 SW01-03 SW01-01 Sorensen SW00-04 SW92-08
SW00-02

All samples will be collected as directed in the *Sampling and Analysis Plan for U.S. Department of Energy Office of Legacy Management Sites*. Access agreements are under review and are expected to be complete by the beginning of fieldwork.

Please contact me at (970) 248-6568 if you have any questions.

Sincerely,



Carl L. Jacobson
Site Lead

CLJ/lcg/lb

Enclosures (3)

cc: (electronic)

Cheri Bahrke, Stoller
Tim Bartlett, Stoller
Steve Donivan, Stoller
Bev Gallagher, Stoller
Lauren Goodknight, Stoller
Carl Jacobson, Stoller
EDD Delivery
rc-grandjunction

Constituent Sampling Breakdown

Site	Monticello				Required Detection Limit (mg/L)	Analytical Method	Line Item Code
Analyte	Groundwater	PeRT Wells	Surface Water	Seeps			
Approx. No. Samples/yr	57	18	16	14			
Field Measurements							
Alkalinity	X	X	X	X			
Dissolved Oxygen	88-85, 92-07, and 92-11 only	X					
Redox Potential	88-85, 92-07, and 92-11 only	X					
pH	X	X	X	X			
Specific Conductance	X	X	X	X			
Turbidity	X	X					
Temperature	X	X	X	X			
Laboratory Measurements							
Arsenic	X	X	X	X	0.0001	SW-846 6020	LMM-02
Calcium	X	X	X	X	5	SW-846 6010	LMM-01
Chloride	X	X	X	X	0.5	SW-846 9056	WCH-A-039
Chromium							
Fluoride	X	X	X	X	0.5	SW-846 9056	MIS-A-040
Iron	X	X	X	X	0.05	SW-846 6020	LMM-02
Lead							
Magnesium	X	X	X	X	5	SW-846 6010	LMM-01
Manganese	X	X	X	X	0.005	SW-846 6010	LMM-01
Molybdenum	X	X	X	X	0.003	SW-846 6020	LMM-02
Nickel							
Nitrate + Nitrite as N (NO3+NO2)-N	X	X	X	X	0.05	EPA 353.1	WCH-A-022
Potassium	X	X	X	X	1	SW-846 6010	LMM-01
Radium-226							
Radium-228							
Selenium	X	X	X	X	0.0001	SW-846 6020	LMM-02
Silica							
Sodium	X	X	X	X	1	SW-846 6010	LMM-01
Strontium							
Sulfate	X	X	X	X	0.5	SW-846 9056	MIS-A-044
Sulfide							
Total Dissolved Solids	T01-01, T01-12, 88-85, 82-08, and MW00-06 only		SW01-02, SW00-02, SW01-01, and Sorenson only	Seep 2 only	10	SM2540 C	WCH-A-033
Total Organic Carbon							
Uranium	X	X	X	X	0.0001	SW-846 6020	LMM-02
Vanadium	X	X	X	X	0.0003	SW-846 6020	LMM-02
Zinc							
Total No. of Analytes	16	15	16	16			

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.

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Attachment 4

Trip Report

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Memorandum

DATE: October 13, 2008

DATE: October 19, 2009

TO: Carl Jacobson

FROM: Jeff Price

SUBJECT: Sampling Trip Report

Site: Monticello, Utah, Mill Tailings Site

Dates of Sampling Event: October 5 - 8, 2009

Team Members: Kent Moe, Joe Trevino, David Atkinson, and Jeff Price.

Number of Locations Sampled: Water samples for metals, cations, anions, nitrate + nitrite as N, and total dissolved solids (at selected locations), were collected from 32 monitor wells, 9 PeRT wells, 4 seeps, and 25 surface water locations for a total of 70 locations. Four duplicate samples and three equipment blanks were collected for QA/QC purposes. Samples were collected as specified in the *Monticello Mill Tailings Site Operable Unit III Post-Record of Decision Monitoring Plan*. Further direction on sampling and purge criteria is given in the "Monticello Sampling Event Deviations from Normal Protocol" (see attached table).

Locations Not Sampled/Reason: Wells T00-01 and T00-04 were dry; surface water locations SW00-01 and SW00-02 were dry; and Seep 1 was dry.

Location Specific Information:

Location IDs	Comments
T01-18, T01-20, T01-25, MW00-07	Well went dry during purge; collected all sample aliquots after well recovered.
R6-M3, R6-M4, T01-19, 0202	Well went dry during purge; only partial sample collected (metals only).

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

False ID	Ticket Number	True ID	Sample Type	Associated Matrix
2585	HKS-205	P92-06	Duplicate	Groundwater
2586	HKS-206	92-08	Duplicate	Groundwater
2816	HKS-225	SW97-03	Duplicate	Surface water
2824	HLT-946	NA	Equipment Blank	Groundwater
2825	HLT-947	MW00-06	Duplicate (including TDS)	Groundwater
2826	HLT-948	NA	Equipment Blank	Surface water
2827	HLU-031	NA	Equipment Blank	Groundwater

RIN Number Assigned: All samples were assigned to RIN 09092614.

Sample Shipment: Samples were shipped overnight via FedEx to ALS Laboratory Group, Fort Collins, CO, from Grand Junction, CO, on October 9, 2009.

Well Inspection Summary: Well inspections were conducted at all sampled wells plus an additional set of wells where water levels only were measured. All wells were in good condition.

Equipment: Wells PW-10 and PW-17 were sampled with disposable bailers. All other wells were sampled with a peristaltic pump and dedicated tubing or a dedicated bladder pump. Surface water locations were sampled using a peristaltic pump and dedicated tubing or by container immersion.

Water Level Measurements: Water levels were collected in all sampled wells, plus an additional set of wells.

Field Variance: Wells PW-10 and PW-17 were collected with bailers because the water levels were too low for a peristaltic pump. Because a bailer was used, turbidity criteria could not be met. Because one of the small peristaltic pumps failed, the dedicated small pump head tubing at each well could not be used. Instead, a larger peristaltic pump with non-dedicated tubing was used, which resulted in the necessity to collect equipment blanks.

Institutional Controls: All gates were appropriately closed and locked during the sampling event.

Fences, Gates, Locks: All were in good condition.

Signs: No missing or vandalized signs were observed.

Trespassing/Site Disturbances: N/A.

Site Issues:

Disposal Cell/Drainage Structure Integrity: N/A.

Vegetation/Noxious Weed Concerns: N/A.

Maintenance Requirements: N/A.

Other: N/A.

Safety Issues: None.

Corrective Action Taken: None.

Instructions to the Sampling Team Members:

**Monticello Sampling Event
Deviations from Normal Protocol**

- Operational checks twice a day.
- Dissolved oxygen measured at PeRT wall and other selected wells.
- Purge criteria for monitor wells:
 - Temperature within 10 % over last 3 readings.
 - Turbidity \leq 5 NTUs on last reading.
 - No Cat II or III wells – if water level won't stabilize within 2 feet of drawdown at 100 mL/min flow rate, then pump well dry and sample upon recovery.
- Purge criteria for PeRT wall wells:
 - Place tubing 2-3 feet off the bottom
 - Purge 1 liter
 - Fill the flow cell after the one purge and take readings
 - Fill bottles after field measurements
- If a well is pumped dry, it must recover at least 75% within 2 hours. If it does not meet the recovery criteria, do not collect a sample.
- If a well is purged dry and water is limited, collect samples in this order: metals, nitrate, anions, gross alpha/beta.
- **All samples are filtered, regardless of turbidity.**

(JEP/lcg)

cc: (electronic)
Jalena Dayvault, DOE
Tim Bartlett, Stoller
Steve Donivan, Stoller
EDD Delivery

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