

Office of Environmental Management – Grand Junction



January 2007 Water Sampling

**Validation Data Package
for Performance Assessment of
the Monthly Sampling for the
Ground Water Interim Action
Moab, Utah**

April 2007



U.S. Department
of Energy

Office of Environmental Management

January 2007 Water Sampling

**Validation Data Package
for Performance Assessment of
the Monthly Sampling for the
Ground Water Interim Action
Moab, Utah**

April 2007

Moab, Utah

January 2007

Data Package Contents

This data package includes the following information:

<u>Item No.</u>	<u>Description of Contents</u>
1.	Sampling Event Summary
2.	Sample Location Maps
3.	Data Assessment Summary
	Water Sampling Field Activities Verification Checklist
	Laboratory Performance Assessments
	Certification
	Field Analyses/Activities

Attachment 1—Data Presentation

Minimums and Maximums Report
Anomalous Data Review Checksheet
Water Quality Data
Water Level Data
Blanks Report
Time Versus Concentration Graphs

Attachment 2—Trip Report

End of current text

Sampling Event Summary

Site: Moab, Utah

Sampling Period: January 2–11, 2007

The purpose of this sampling was to collect data that can be used to evaluate the performance of all configurations of the Interim Action well field.

SUMMARY CRITERIA

1. As a result of this sampling event, is there any indication of anomalous data that may be related to well field pump rate changes, river flow, or other known causes?

Yes. Ammonia and uranium concentrations increased this event or continued to increase from the previous month's event at several locations, most notably near Configuration 1 at downgradient well 0483 18 feet (ft) below ground surface (bgs) in the well field and piezometers 0562 and 0563. Although the contaminant concentrations have increased, especially in the piezometers, the surface water concentrations remained much lower than ground water. For example, ammonia was 2.9 milligrams per liter (mg/L) in surface water at location 0216, 8.6 mg/L at adjacent piezometer 0562 (2.3 ft bgs), and 71 mg/L at piezometer 0563 (5.6 ft bgs).

The increase concentrations are attributed to two factors, one is that the Interim Action well field was shut down for the winter season in mid-December, and the other is the Colorado River is essentially at baseflow level. It is presumed that the lower river flow has greater influence on these piezometer locations, resulting in higher concentrations seen at even these shallow depths.

2. Were all Interim Action well field pumps operating within the planned parameters?

Yes. But the well field remains shut down for the winter season.

3. Was the evaporation pond functioning properly?

Yes. Water level has remained essentially static since system shutdown in December. Ample free board is available in case of precipitation events.

4. Were all proposed well (ground water) and surface water locations sampled during this event?

No. Some surface water locations were dry due to low river levels.

5. Were there any site activities that have impacted or may impact the Interim Action system?

Nothing this month.

Executive Summary

In mid-December 2006 the Interim Action ground water well field was shut down for the winter season. A summary of the operational data for the Interim Action ground water remediation system and cumulative data to date is presented in the following table.

Interim Action Well Field	
Total feed volume to sprinklers this month:	0 gallons (gal)
Total feed volume to sprinklers cumulative to date:	58,455,378 gal
Total feed volume to pond this month:	0 gal
Total feed volume to pond cumulative to date:	70,425,609 gal
Ammonia removed this month:	0 kilograms (kg)
Ammonia removed cumulative to date:	156,200 kg
Uranium removed this month:	0 kg
Uranium removed cumulative to date:	663 kg

Time versus concentration graphs for selected key performance indicator wells and major contaminants of concern are included. Data presented in these graphs indicate that contaminant concentrations generally remain at expected levels. Ammonia and uranium concentrations have generally stabilized, but as observed during the past year a few wells show increased concentrations from 2006 sampling events. Some of the wells with increased concentrations are located upgradient to the Interim Action well field and a few are the river piezometers (also known as well points). Data results for wells associated with the well field from north to south are described below.

Baseline Area

Overall, data for the Baseline Area wells indicate lower concentrations for the shallow zone ground water than the intermediate or deeper zones. This observation is most obvious on the ammonia, sulfate, and total dissolved solids (TDS) graphs when comparing well 0405 (18 ft bgs) with wells 0488 (39 ft bgs) and 0493 (54 ft bgs). The graph for uranium shows fluctuating concentrations during the past year for these wells. Concentrations for the four major constituents plotted on the graphs increased slightly in January.

Configuration 3

Observation well 0688, located on the downgradient side of Configuration 3, showed increasing ammonia concentrations since March 2006, from approximately 400 mg/L to nearly 900 mg/L in October and November. However, concentrations decreased to below 800 mg/L in December and to 410 mg/L in January 2007. This well is screened in the intermediate (31 ft) and deeper (39 ft) ground water zones, but the deeper one is not typically affected by the Interim Action well field. A review of the ammonia graph shows the concentration for wells 0682 (28 ft bgs) and 0683 (27 ft bgs), located on the upgradient side of Configuration 3, to be between 410 and 450 mg/L this month. Well 0687 located on the downgradient side of Configuration 3 was sampled from approximately 28 ft and also had an ammonia concentration of 450 mg/L. This is in the range of other shallow to intermediate wells in this area. One explanation of the similar concentrations upgradient and downgradient of the well field is that the system was shut down for the winter in mid-December.

Uranium concentrations have generally remained between 2 and 3 mg/L the past several months for the shallow and intermediate depth wells both upgradient and downgradient of Configuration 3.

Configuration 2

Ammonia concentrations in wells near Configuration 2 have increased during the past 18 months. As shown on the graph, concentrations in well 0408 (upgradient to Configuration 2 and sampled at 26 ft) have risen from less than 100 mg/L to 560 mg/L this month. Downgradient well 0588, also sampled at 26 ft, had shown only a slight increase until December 2006 when it was reported with a concentration of 460 mg/L. It was measured at 470 mg/L this month (January 2007). In contrast, downgradient well 0587 (not shown on the ammonia graph), which is sampled from the shallow ground water zone at 18 ft, had an ammonia concentration of 95 mg/L this month.

Observation well 0408, upgradient to Configuration 2, showed a marked increase in uranium concentration (4 mg/L) in May from previous months. The uranium concentrations in this well have fluctuated slightly the past 5 months and were 3.3 mg/L in January 2007. This well will continue to be monitored in future monthly sampling events. Well 0408 is sampled from approximately 26 ft and is representative of the shallow to intermediate ground water zone. In contrast, well 0588 at 34 ft bgs (2.5 mg/L) and near-shore river piezometers 0590 (0.38 mg/L), 0591 (0.70 mg/L), and 0603 (1.1 mg/L), downgradient to Configuration 2, exhibit lower uranium concentrations.

Configuration 1

As with the Baseline Area, wells associated with Configuration 1 have been observed to exhibit stratification. Ammonia and uranium concentrations for well 0483 (18 ft bgs) generally are much lower than the intermediate (well 0484 [28 ft bgs]) and deeper (well 0558 [36 ft bgs]) ground water zones. However, the stratification is less pronounced this month than in recent sampling events. Typically, the deeper zones are not affected by the Interim Action well field. These same wells will continue to be sampled during future events.

Configuration 4

Configuration 4 is an expansion of the Interim Action ground water well field and its installation was completed in August 2006. This Data Validation Package represents the sixth sampling event for some Configuration 4 wells and the fifth event for others. The data for selected wells are included as time versus concentration graphs and all data are included in the attachments to this report. These graphs illustrate there is a slight difference in concentrations between the upgradient wells (0780, 0781, 0782) and downgradient wells (0786 and 0787) for ammonia and uranium. The TDS values are not as distinguishable by upgradient versus downgradient location as they are by depth, with the higher values at greater depths. This is expected due to the relatively shallow depth of the naturally occurring brine surface.

Piezometers

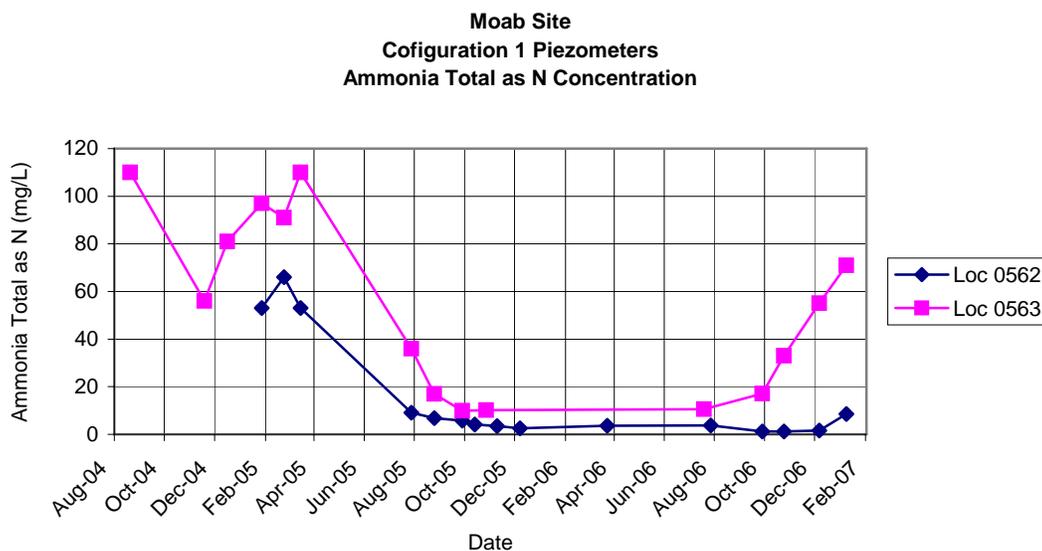
Some riverbed piezometers were sampled this month, including those downgradient of Configuration 1. Time versus concentration graphs for selected piezometers downgradient to the Interim Action well field illustrate the contaminant reductions for major contaminants of concern, such as ammonia and uranium. Graphs for piezometers 0562 and 0563 are provided below for illustration. There continues to be an increase in both ammonia and uranium concentrations at piezometer 0563 and less notably at piezometer 0562. Piezometers 0562 is

sampled from a depth of approximately 2.3 ft bgs, and piezometer 0563 from approximately 5.6 ft bgs. The increase concentrations are attributed to two factors, one is that the Interim Action well field was shut down for the winter season in mid-December, and the other is the Colorado River is essentially at baseflow level. It is presumed that the lower river flow has greater influence on these piezometer locations, resulting in higher concentrations seen at even these shallow depths. As noted below, there is some stratification of higher concentrations observed at depth in some wells and piezometers in the Interim Action ground water system. For the piezometers, the differences occur over a short vertical range. For example, the ammonia concentration was 2.9 mg/L in the surface water, 8.6 mg/L at piezometer 0562, and 71 mg/L at piezometer 0563. These concentrations are expected to decrease in the spring following a resumption of ground water extraction from the well field and the normal rise in spring river levels.

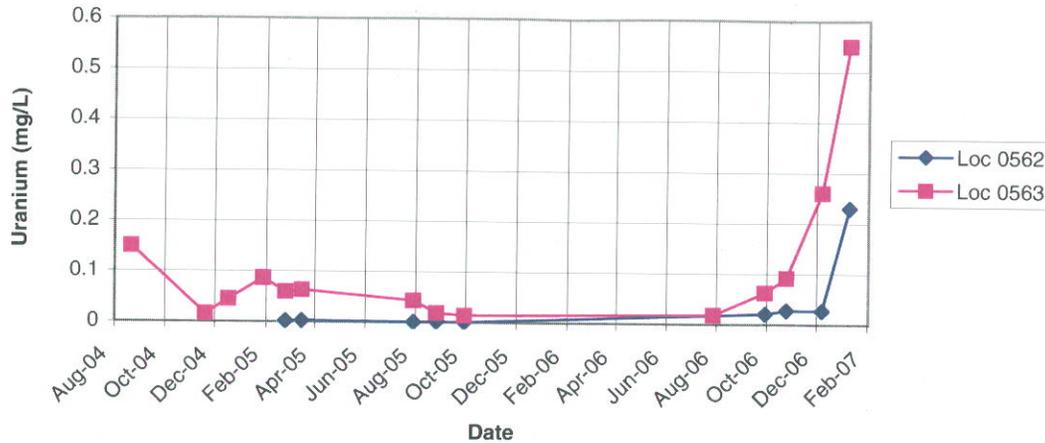
The time versus concentration graphs for Configuration 3 piezometers 0691 and 0692 show a slight increase in the four major constituents (ammonia, sulfate, TDS, and uranium) this month. Although the uranium concentrations have fluctuated, the ammonia and sulfate concentrations for piezometer 0691 (7.5 ft bgs) are less than the concentrations for 0692 (10.1 ft bgs).

The time versus concentrations graphs for Configuration 4 piezometers 0790, 0791, and 0792 show a decrease in the four major constituents (ammonia, sulfate, TDS, and uranium) this month as compared to September 2006. The mid-point of the screened interval for these piezometers is 2.5, 4.8, and 9.8 ft bgs, respectively. The graphs are included in the attachment section of this report. The ammonia concentrations in all three piezometers, 0790 (35 mg/L), 0791 (33 mg/L), and 0792 (560 mg/L) is less than the concentration in observation well 0786 (760 mg/L) which is downgradient of the well field.

The stratification of higher concentrations observed at depth in some Configuration 1 and Baseline Area wells is also observed in some piezometers, but with a shorter vertical difference. The data indicates TDS values of 980 mg/L at piezometer 0790 and 16,000 mg/L at 0792. This is attributed to the upwelling of the brine surface close to and beneath the Colorado River.



**Moab Site
Configuration 1 Piezometers
Uranium Concentration**



Sampling and Analysis

Sampling and analysis were conducted in accordance with the *Operations, Maintenance, and Performance Monitoring Plan for the Interim Action Ground Water Treatment System, June 2006*. Although not listed here, the normal set of locations were sampled. Please refer to the attached trip reports for specific sampled locations and an explanation of why some locations were not sampled, such as lack of recharge for some piezometers.

The data validations indicate that the data meet the quality-control criteria specified for this project. No significant discrepancies were noted regarding sample shipping and receiving, preservation and holding times, instrument calibration, method blanks, or matrix spikes, etc., except as qualified.

There were three locations with anomalous data points. Piezometers 0562 and 0563, near Configuration 1, had historic high concentrations for uranium (0.23 mg/L and 55 mg/L, respectively). Piezometer 0598, near the Baseline Area and sampled from a depth of approximately 10 ft, had historic low concentrations for ammonia (120 mg/L), chloride (260 mg/L), sulfate (2,500 mg/L), and TDS (4,200 mg/L).

According to the U.S. Geological Survey (USGS) Cisco Gaging Station, the mean daily Colorado River flow rates varied between 3,890 and 4,210 cubic feet per second during this sampling period.

John R. Ford
 John R. Ford
 Ground Water Lead

 5-1-2007
 Date

End of current text

Sample Location Maps

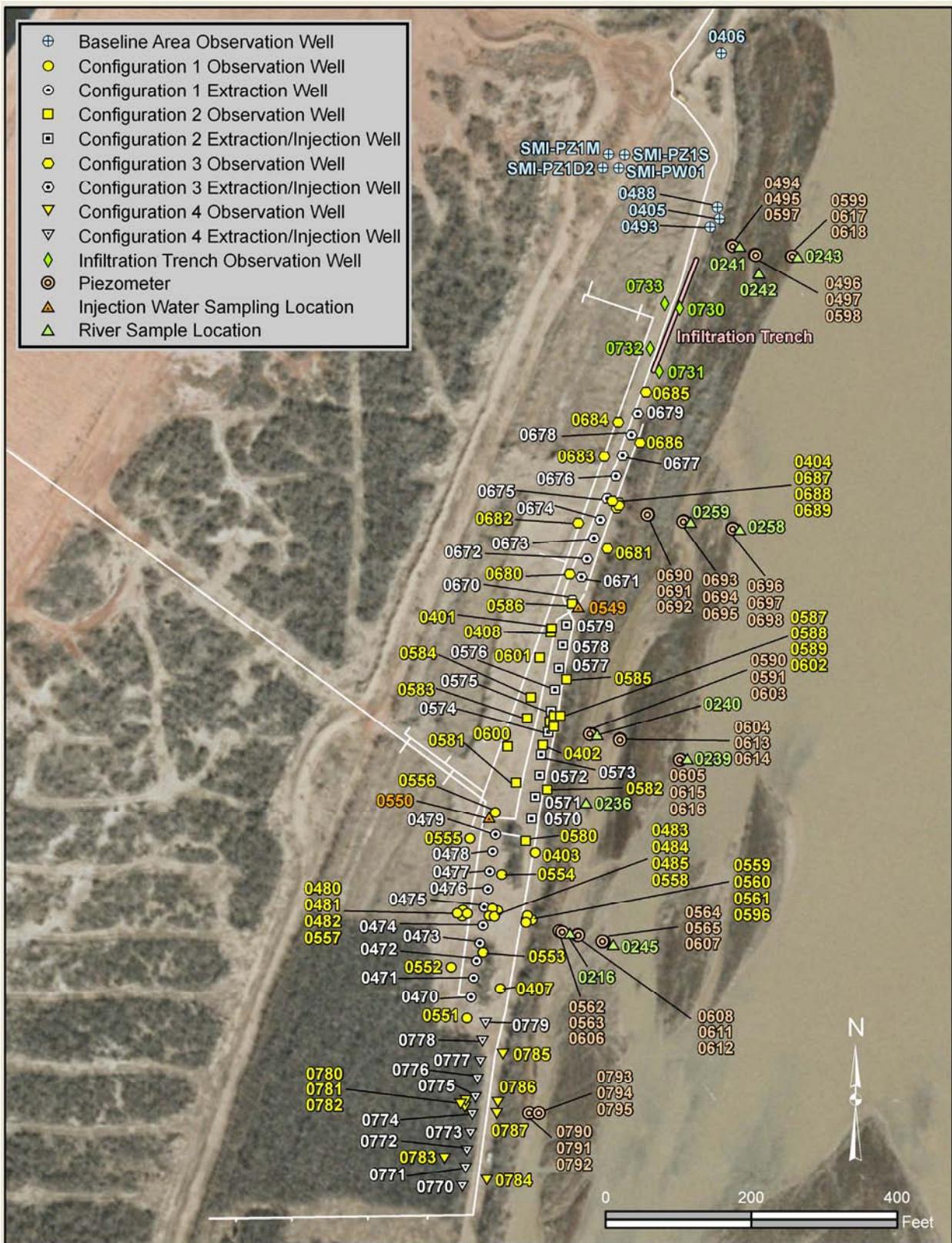


Figure 1. Sample Locations at the Interim Action Well Field and Baseline Area (may include locations not sampled)

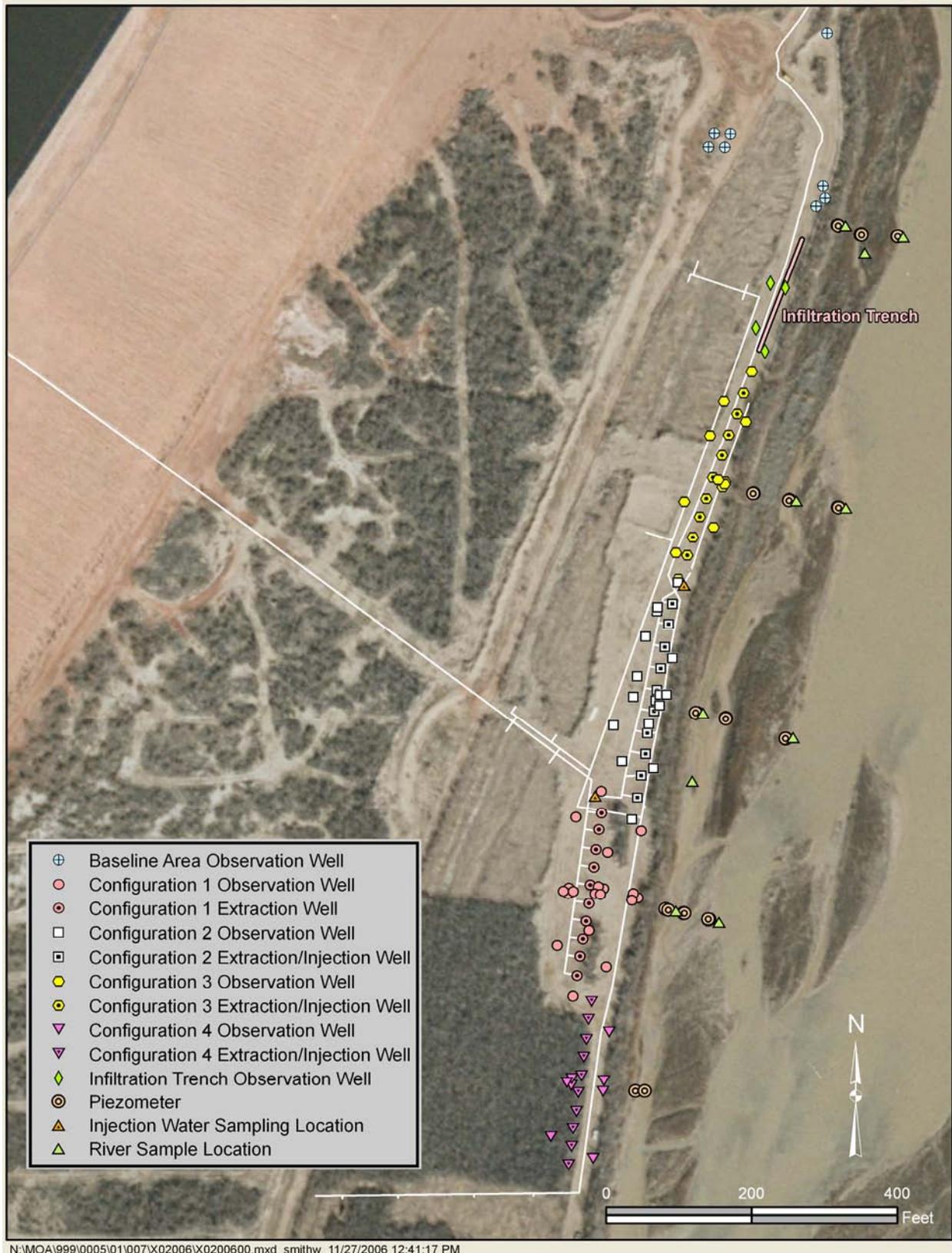


Figure 2. Existing Well Locations

Data Assessment Summary

Water Sampling Field Activities Verification Checklist

Project	<u>Moab, Utah</u>	Date(s) of Water Sampling	<u>January 2–11, 2007</u>
Date(s) of Verification	<u>March 28, 2007</u>	Name of Verifier	<u>Jeff Price</u>

	Response (Yes, No, NA)	Comments
1. Is the SAP the primary document directing field procedures?	<u>Yes</u>	
List other documents, standard operating procedures, instructions.	<u>NA</u>	
2. Were the sampling locations specified in the planning documents sampled?	<u>No</u>	<u>See trip reports for explanation.</u>
3. Was a pre-trip calibration conducted as specified in the aforementioned documents?	<u>Yes</u>	
4. Was an operational check of the field equipment conducted twice daily?	<u>Yes</u>	
Did the operational checks meet criteria?	<u>Yes</u>	
5. Were the number and types (alkalinity, temperature, electrical conductivity, pH, turbidity, dissolved oxygen, oxidation reduction potential) of field measurements taken as specified?	<u>Yes</u>	
6. Was the category of the well documented?	<u>Yes</u>	
7. Were the following conditions met when purging a Category I well:		
Was one pump/tubing volume purged prior to sampling?	<u>Yes</u>	
Did the water level stabilize prior to sampling?	<u>Yes</u>	
Did pH, specific conductance, and turbidity measurements stabilize prior to sampling?	<u>Yes</u>	
Was the flow rate less than 500 milliliters per minute (mL/min)?	<u>Yes</u>	
If a portable pump was used, was there a 4-hour delay between pump installation and sampling?	<u>NA</u>	

Water Sampling Field Activities Verification Checklist (continued)

- 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
- 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 volatile organic compound samples? NA
- 12. Were Quality Control samples assigned a fictitious site identification number? Yes
 - Was the true identity of the samples recorded on the Quality Assurance Sample Log? Yes
- 13. Were samples collected in the containers specified? Yes
- 14. Were samples filtered and preserved as specified? Yes
- 15. Were the number and types of samples collected as specified? Yes
- 16. Were chain-of-custody (COC) records completed, and was sample custody maintained? Yes
- 17. Are field data sheets signed and dated by both team members? 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

Requisition No. (RIN): 06120631
Sample Event: January 2–11, 2007
Site(s): Moab, Utah; Interim Action
Laboratory: Paragon Analytics, Fort Collins, Colorado
Work Order No.: 0701019
Analysis: Metals and Inorganics
Validator: Steve Donovan
Review Date: February 12, 2007

This validation was performed according to the *Environmental Procedures Catalog* (STO 6), “Standard Practice for Validation of Laboratory Data,” GT-9(P) (2006). The procedure was applied at Level 3, Data Deliverables Verification. 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 1.

Table 1. Analytes and Methods

Analyte	Line Item Code	Prep Method	Analytical Method
Ammonia as N, NH ₃ -N	WCH-A-005	MCAWW 350.1	MCAWW 350.1
Bromide, Br	MIS-A-038	SW-846 9056	SW-846 9056
Chloride, Cl	MIS-A-039	SW-846 9056	SW-846 9056
Sulfate, SO ₄	MIS-A-044	SW-846 9056	SW-846 9056
Total Dissolved Solids, TDS	WCH-A-033	MCAWW 160.1	MCAWW 160.1
Uranium, U	GJO-01	SW-846 3005A	SW-846 6020A

Data Qualifier Summary

Analytical results were qualified as listed in Table 2. Refer to the attached validation worksheets and the sections below for an explanation of the data qualifiers applied.

Table 2. Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
0701019-52	2446 (Equip Blank)	U	U	Less than 5 times the calibration blank

Sample Shipping/Receiving

Paragon Analytics in Fort Collins, Colorado, received 54 samples between January 5 and 12, 2007 under Airbill numbers 8566 6390 1268 and 8566 6390 1257, accompanied by Chain of Custody (COC) forms. The COC forms were checked to confirm that all of the samples were

listed on the forms with sample collection dates and times, and that signatures and dates were present, indicating sample relinquishment and receipt. The sample submittal documents, including the COC forms and the sample tickets, had no errors or omissions.

Preservation and Holding Times

The sample shipments were received intact with the temperature within the coolers of 1.2, 0.8, 0.6, and 2.1°C, which complies with requirements. All samples were received in the correct container types and had been preserved correctly for the requested analyses. All samples were analyzed within the applicable holding times.

Laboratory Instrument Calibration

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

Method SW-846 6020A, Uranium

Calibrations for uranium were performed on January 19, 2007. The initial calibrations were performed using six calibration standards, resulting in calibration curves with correlation coefficient (r^2) values greater than 0.995. The absolute values of the curve 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 (ICV and CCV) checks were made at the required frequency, resulting in seven CCVs. All calibration checks met the acceptance criteria. A reporting limit verification check (CRI) was made at the required frequency to verify the linearity of the calibration curve near the practical quantitation limit. The CRI checks were within the acceptance criteria range. Mass calibration and resolution verifications were performed at the beginning of each analytical run in accordance with the analytical procedure. Internal standard recoveries were stable and within acceptable ranges.

Method MCAWW 350.1, Ammonia as N

Initial calibrations for ammonia as N were performed using six calibration standards on January 18, 2007, resulting in calibration curves with r^2 values greater than 0.995, and intercepts less than 3 times the MDL. ICV and CCV checks were made at the required frequency, resulting in nine CCVs. All calibration check results were within the acceptance criteria.

Method SW-846 9056, Bromide, Chloride, and Sulfate

The initial calibrations for bromide, chloride, and sulfate were performed using five calibration standards each on January 5 and 8, 2007. The calibration curve r^2 values were greater than 0.995, and intercepts were less than 3 times the MDL. Initial calibration and calibration check standards were prepared from independent sources. ICV and CCV checks were made at the required

frequency, resulting in 23 CCVs for bromide and 20 CCVs for chloride and sulfate. All calibration checks met the acceptance criteria.

Method MCAWW 160.1, Total Dissolved Solids

There is no initial or continuing calibration requirement associated with the determination of Total Dissolved Solids (TDS).

Method and Calibration Blanks

Method blanks are analyzed to assess any contamination that may have occurred during sample preparation. Calibration blanks are analyzed to assess instrument contamination prior to and during sample analysis. All initial and continuing calibration blank (ICB and CCB) results were below the practical quantitation limits for all analytes.

In cases where a blank concentration exceeds the instrument detection limit, 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. The uranium result for one sample was less than 5 times the concentration of the associated CCB and is qualified as “U.”

Inductively Coupled Plasma Interference Check Sample Analysis

Inductively coupled plasma 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) pairs were analyzed for uranium, ammonia-N, and bromide as a measure of method performance in the sample matrix. The MS/MSD data are not evaluated when the concentration of the unspiked sample is greater than 4 times the spike concentration. The spike recoveries met the recovery and precision criteria for all analytes evaluated.

Laboratory Replicate Analysis

The laboratory replicate sample results demonstrate acceptable laboratory precision. The relative percent difference (RPD) values for the laboratory replicate sample and MSD sample results for all analytes were less than 20 percent, indicating acceptable laboratory precision.

Laboratory Control Sample

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

Metals Serial Dilution

Serial dilutions were performed during the uranium analysis to monitor physical or chemical interferences that may exist in the sample matrix. The results were not evaluated in cases where the original sample concentration is less than 100 times the reporting limit. The results were within the acceptance range for all results evaluated.

Detection Limits/Dilutions

Samples were diluted in a consistent and acceptable manner when required. The samples were diluted prior to analysis of uranium to reduce interferences. The required detection limits (RDL) were achieved for all analytes.

Completeness

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

Chromatography Peak Integration

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

Electronic Data Deliverable File

The Electronic Data Deliverable (EDD) file arrived on February 2, 2007. 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.

Equipment Blank

Equipment blanks were collected after completion of decontamination and prior to collection of environmental samples. These blanks are useful in documenting adequate decontamination of sampling equipment. All equipment blank results were less than the practical quantitation limit.

Field Duplicate Analysis

Field duplicate samples are collected and analyzed as an indication of overall precision of the measurement process. The precision observed includes both field and laboratory precision and has more variability than laboratory duplicates, which measure only laboratory performance. Duplicate samples were collected from locations 0493, 0559, and 0683. The results met the U.S. Environmental Protection Agency (EPA) recommended laboratory duplicate criteria of less than 20 percent relative difference for results that are greater than 5 times the practical quantitation limit, indicating acceptable overall precision, with the exception of the ammonia results from location 0493. There were no analytical errors identified during the review of the data.

Certification

Results were reported in correct units for all analytes requested. Appropriate contract-required laboratory qualifiers and target analyte lists were used. The RDLs were met when possible or an explanation of why they were not met was given in the laboratory case narrative. All analytical quality control criteria were met except as qualified on the Ground Water Quality Data by Parameter, Surface Water Quality by Parameter, or equipment/trip blank database printouts. The meaning of data qualifiers is defined on the database printouts or defined in the EPA Contract Laboratory Program Statement of Work for Inorganic Analysis, Multi-Media Multi-Concentration, Document Number ILMO2.0, 1991. All data in this package are considered validated and may be treated as final results.

Laboratory Validation Lead:

Steve Donivan
Steve Donivan

5-1-2007
Date

Stand for
Field Activities Validation Lead:

Jeff Price
Jeff Price

4-30-2007
Date

End of current text

Field Analyses/Activities

The following information summarizes the field analyses and activities for this sampling event period.

Field Activities

All monitor well results were purged and sampled using the low-flow sampling method; extraction wells are not sampled using the low-flow sampling method. Two equipment blanks were collected and analyzed for the same constituents as the Moab environmental samples. Analyte concentrations measured in the equipment blanks were below or equivalent to their respective RDLs and are considered acceptable. Four duplicate samples were collected. There are no established regulatory criteria for the evaluation of field duplicate samples; therefore, U.S. Environmental Protection Agency (EPA) guidance for laboratory duplicates (which is conservative for field duplicates) was used to assess the precision of the field duplicates. All results met the criteria of ± 20 RPD and are considered acceptable.

End of current text

Attachment 1

Data Presentation

Minimums and Maximums Report

Minimums and Maximums Report

The Minimums and Maximums Report is generated by a data validation application (DataVal) used to query the SEEPro database. The DataVal compares the new data set with historical data and lists all new data that fall outside the historical data range. Values listed in the report are further screened, and the results are not considered anomalous if: (1) identified low concentrations are the result of low detection limits; (2) the concentration detected is within 50 percent of historical minimum or maximum values; or (3) there were fewer than five historical samples for comparison.

Data Validation Minimums and Maximums Report - No Field Parameters
 Laboratory: PARAGON (Fort Collins, CO)
 RIN: 06120631
 Comparison: All Historical Data
 Report Date: 3/28/2007

Site Code	Location Code	Sample Date	Analyte	Current			Historical Maximum			Historical Minimum			Count	
				Result	Qualifiers		Result	Qualifiers		Result	Qualifiers		N	N Below Detect
MOA01	0239	01/09/2007	Sulfate	210			320			240			8	0
MOA01	0239	01/09/2007	Total Dissolved Solids	640			830			690			8	0
MOA01	0243	01/11/2007	Sulfate	210			350			230			9	0
MOA01	0243	01/11/2007	Total Dissolved Solids	600			840			690			9	0
MOA01	0245	01/08/2007	Total Dissolved Solids	1000			990			630			12	0
MOA01	0245	01/08/2007	Uranium	0.072			0.054			0.0066			12	0
MOA01	0259	01/10/2007	Total Dissolved Solids	620			820			629			8	0
MOA01	0496	01/11/2007	Ammonia Total as N	180		QF	380		QF	330		QF	6	0
MOA01	0496	01/11/2007	Chloride	1500		QF	2900		FQ	2200		QF	6	0
MOA01	0496	01/11/2007	Sulfate	6000		QF	11000		FQ	7700		QF	6	0
MOA01	0496	01/11/2007	Total Dissolved Solids	11000		QF	20000		FQ	14000		FQ	6	0
MOA01	0560	01/03/2007	Chloride	56000		F	41000		F	8300		F	30	0
MOA01	0562	01/08/2007	Uranium	0.23		QF	0.0328		QF	0.00045		QF	9	0
MOA01	0563	01/08/2007	Uranium	0.55		QF	0.26		QF	0.014		QF	16	0
MOA01	0583	01/03/2007	Sulfate	8700		F	8400		F	1600		F	24	0
MOA01	0589	01/03/2007	Chloride	58000		F	43400		F	2700		F	41	0
MOA01	0590	01/09/2007	Ammonia Total as N	36		QF	680		F	38		QF	16	0
MOA01	0590	01/09/2007	Chloride	230		QF	2000		F	250		FQ	12	0
MOA01	0590	01/09/2007	Sulfate	740		QF	5300		F	850		FQ	12	0
MOA01	0598	01/11/2007	Ammonia Total as N	120		QF	560		QF	460		F	9	0

Data Validation Minimums and Maximums Report - No Field Parameters
 Laboratory: PARAGON (Fort Collins, CO)
 RIN: 06120631
 Comparison: All Historical Data
 Report Date: 3/28/2007

Site Code	Location Code	Sample Date	Analyte	Current			Historical Maximum			Historical Minimum			Count	
				Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect
MOA01	0598	01/11/2007	Chloride	260		QF	2500		F	775		JQF	9	0
MOA01	0598	01/11/2007	Sulfate	2500		QF	10000		FQ	8200		QF	9	0
MOA01	0598	01/11/2007	Total Dissolved Solids	4200		QF	18000		F	14000		QF	9	0
MOA01	0603	01/09/2007	Ammonia Total as N	530		QF	500		QF	169		F	10	0
MOA01	0603	01/09/2007	Sulfate	7200		QF	6230		JQF	1770		F	10	0
MOA01	0682	01/09/2007	Uranium	2		F	3.1		F	2.5		F	12	0
MOA01	0683	01/09/2007	Sulfate	8500		F	9900		F	8600		F	14	0
MOA01	0683	01/09/2007	Uranium	2.1		F	3.2		F	2.3		F	14	0
MOA01	0683	01/09/2007	Uranium	2		F	3.2		F	2.3		F	14	0
MOA01	0687	01/09/2007	Chloride	1900		F	4900		F	2000		F	13	0
MOA01	0687	01/09/2007	Total Dissolved Solids	12000		F	23000		F	16000		F	12	0
MOA01	0687	01/09/2007	Uranium	1.9		F	3.9	E	FJ	2.2		F	13	0
MOA01	0688	01/09/2007	Chloride	2000		F	20000		F	2300		F	17	0
MOA01	0688	01/09/2007	Total Dissolved Solids	16000		F	46000		F	17000		F	17	0
MOA01	0688	01/09/2007	Uranium	2.3		F	4.1		F	2.6		F	17	0
MOA01	0780	01/02/2007	Chloride	5400		F	4700		F	3700		F	6	0
MOA01	0780	01/02/2007	Sulfate	13000		F	12000		F	9300		F	6	0
MOA01	0781	01/02/2007	Chloride	57000		F	53000		F	37000		F	7	0
MOA01	0782	01/02/2007	Chloride	53000		F	52000		F	7200		F	7	0
MOA01	0786	01/02/2007	Ammonia Total as N	760		F	620		F	410		F	6	0

Data Validation Minimums and Maximums Report - No Field Parameters

Laboratory: PARAGON (Fort Collins, CO)

RIN: 06120631

Comparison: All Historical Data

Report Date: 3/28/2007

Site Code	Location Code	Sample Date	Analyte	Current			Historical Maximum			Historical Minimum			Count	
				Result	Lab	Data	Result	Lab	Data	Result	Lab	Data	N	N Below Detect
MOA01	0786	01/02/2007	Chloride	8600		F	5900		F	3700		F	6	0
MOA01	0786	01/02/2007	Sulfate	12000		F	11000		F	5400		F	6	0
MOA01	0786	01/02/2007	Total Dissolved Solids	25000		F	22000		F	17000		F	6	0
MOA01	0787	01/02/2007	Chloride	56000		F	53000		F	41000		F	6	0

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

Anomalous Data Review Checksheet

Water Quality Data

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY	
Alkalinity, Total (As CaCO3	mg/L	0216	SL, RIV	01/08/2007	0001	0.00 - 0.00	299		#	-	-
	mg/L	0236	SL, RIV	01/09/2007	0001	0.00 - 0.00	220		#	-	-
	mg/L	0239	SL, RIV	01/09/2007	0001	0.00 - 0.00	180		#	-	-
	mg/L	0243	SL	01/11/2007	0001	0.00 - 0.00	200		#	-	-
	mg/L	0245	SL, RIV	01/08/2007	0001	0.00 - 0.00	206		#	-	-
	mg/L	0259	SL, RIV	01/10/2007	0001	0.00 - 0.00	150		#	-	-
	mg/L	0274	SL, RIV	01/08/2007	0001	0.00 - 0.00	260		#	-	-
	mg/L	0405	WL	01/11/2007	0001	18.00 - 18.00	420	F	#	-	-
	mg/L	0408	WL	01/04/2007	0001	26.00 - 26.00	976	F	#	-	-
	mg/L	0480	WL	01/02/2007	0001	18.00 - 18.00	960	F	#	-	-
	mg/L	0481	WL	01/02/2007	0001	28.00 - 28.00	926	F	#	-	-
	mg/L	0483	WL	01/02/2007	0001	18.00 - 18.00	656	F	#	-	-
	mg/L	0484	WL	01/03/2007	0001	28.00 - 28.00	802	F	#	-	-
	mg/L	0488	WL	01/11/2007	0001	39.00 - 39.00	986	F	#	-	-
	mg/L	0493	WL	01/11/2007	0001	54.00 - 54.00	1076	F	#	-	-
	mg/L	0496	WL, WP	01/11/2007	0001	3.20 - 3.20	660	QF	#	-	-
	mg/L	0557	WL	01/02/2007	0001	40.00 - 40.00	770	F	#	-	-
	mg/L	0558	WL	01/03/2007	0001	36.00 - 36.00	524	F	#	-	-
	mg/L	0559	WL	01/03/2007	0001	19.00 - 19.00	480	F	#	-	-
	mg/L	0560	WL	01/03/2007	0001	31.00 - 31.00	480	F	#	-	-
	mg/L	0562	WL, WP	01/08/2007	0001	2.30 - 2.30	300	QF	#	-	-
	mg/L	0563	WL, WP	01/08/2007	0001	5.60 - 5.60	360	QF	#	-	-
	mg/L	0583	WL	01/03/2007	0001	18.00 - 18.00	900	F	#	-	-
	mg/L	0584	WL	01/04/2007	0001	18.00 - 18.00	888	F	#	-	-
	mg/L	0587	WL	01/03/2007	0001	18.00 - 18.00	614	F	#	-	-
	mg/L	0588	WL	01/03/2007	0001	26.00 - 26.00	720	F	#	-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Alkalinity, Total (As CaCO3	mg/L	0589	WL	01/03/2007	0001	52.00 - 52.00	410	F	#	-	-	
	mg/L	0590	WL, WP	01/09/2007	0001	2.00 - 2.00	440	QF	#	-	-	
	mg/L	0591	WL, WP	01/09/2007	0001	4.90 - 4.90	510	QF	#	-	-	
	mg/L	0598	WL, WP	01/11/2007	0001	10.10 - 10.10	620	QF	#	-	-	
	mg/L	0603	WL, WP	01/09/2007	0001	10.20 - 10.20	420	QF	#	-	-	
	mg/L	0606	WL, WP	01/08/2007	0001	10.30 - 10.30	492	QF	#	-	-	
	mg/L	0682	WL	01/09/2007	0001	28.00 - 28.00	836	F	#	-	-	
	mg/L	0683	WL	01/09/2007	0001	27.00 - 27.00	866	F	#	-	-	
	mg/L	0687	WL	01/09/2007	0001	28.00 - 28.00	622	F	#	-	-	
	mg/L	0688	WL	01/09/2007	0001	39.00 - 39.00	896	F	#	-	-	
	mg/L	0688	WL	01/09/2007	0001	31.00 - 31.00	738	F	#	-	-	
	mg/L	0689	WL	01/09/2007	0001	46.00 - 46.00	950	F	#	-	-	
	mg/L	0689	WL	01/09/2007	0001	54.00 - 54.00	1038	F	#	-	-	
	mg/L	0690	WL, WP	01/10/2007	0001	4.30 - 4.30	916	QF	#	-	-	
	mg/L	0691	WL, WP	01/10/2007	0001	7.50 - 7.50	565	QF	#	-	-	
	mg/L	0692	WL, WP	01/10/2007	0001	10.10 - 10.10	630	QF	#	-	-	
	mg/L	0725	WL, WP	01/11/2007	0001	5.60 - 5.60	210	QF	#	-	-	
	mg/L	0780	WL	01/02/2007	0001	28.00 - 28.00	860	F	#	-	-	
	mg/L	0781	WL	01/02/2007	0001	46.00 - 46.00	260	F	#	-	-	
	mg/L	0782	WL	01/02/2007	0001	33.00 - 33.00	310	F	#	-	-	
	mg/L	0786	WL	01/02/2007	0001	30.00 - 30.00	940	F	#	-	-	
	mg/L	0787	WL	01/02/2007	0001	36.00 - 36.00	246	F	#	-	-	
	mg/L	0790	WL, WP	01/08/2007	0001	3.00 - 3.00	180	QF	#	-	-	
mg/L	0791	WL, WP	01/08/2007	0001	5.30 - 5.30	264	QF	#	-	-		
mg/L	0792	WL, WP	01/08/2007	0001	10.30 - 10.30	688	QF	#	-	-		
Ammonia Total as N	mg/L	0216	SL, RIV	01/08/2007	0001	0.00 - 0.00	2.9		#	0.1	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0236	SL, RIV	01/09/2007	0001	0.00 - 0.00	0.1	U #	0.1	-
	mg/L	0239	SL, RIV	01/09/2007	0001	0.00 - 0.00	0.12	#	0.1	-
	mg/L	0243	SL	01/11/2007	0001	0.00 - 0.00	0.1	U #	0.1	-
	mg/L	0245	SL, RIV	01/08/2007	0001	0.00 - 0.00	2.8	#	0.1	-
	mg/L	0259	SL, RIV	01/10/2007	0001	0.00 - 0.00	0.25	#	0.1	-
	mg/L	0274	SL, RIV	01/08/2007	0001	0.00 - 0.00	0.43	#	0.1	-
	mg/L	0405	WL	01/11/2007	0001	18.00 - 18.00	140	F #	20	-
	mg/L	0408	WL	01/04/2007	0001	26.00 - 26.00	560	F #	20	-
	mg/L	0480	WL	01/02/2007	0001	18.00 - 18.00	730	F #	20	-
	mg/L	0481	WL	01/02/2007	0001	28.00 - 28.00	710	F #	20	-
	mg/L	0483	WL	01/02/2007	0001	18.00 - 18.00	320	F #	20	-
	mg/L	0484	WL	01/03/2007	0001	28.00 - 28.00	1200	F #	50	-
	mg/L	0488	WL	01/11/2007	0001	39.00 - 39.00	710	F #	20	-
	mg/L	0493	WL	01/11/2007	0001	54.00 - 54.00	810	F #	20	-
	mg/L	0493	WL	01/11/2007	0002	54.00 - 54.00	1100	F #	50	-
	mg/L	0496	WL, WP	01/11/2007	0001	3.20 - 3.20	180	QF #	20	-
	mg/L	0557	WL	01/02/2007	0001	40.00 - 40.00	700	F #	20	-
	mg/L	0558	WL	01/03/2007	0001	36.00 - 36.00	1800	F #	50	-
	mg/L	0559	WL	01/03/2007	0001	19.00 - 19.00	140	F #	20	-
	mg/L	0559	WL	01/03/2007	0002	19.00 - 19.00	140	F #	20	-
	mg/L	0560	WL	01/03/2007	0001	31.00 - 31.00	1500	F #	50	-
	mg/L	0562	WL, WP	01/08/2007	0001	2.30 - 2.30	8.6	QF #	0.2	-
	mg/L	0563	WL, WP	01/08/2007	0001	5.60 - 5.60	71	QF #	20	-
	mg/L	0583	WL	01/03/2007	0001	18.00 - 18.00	350	F #	20	-
	mg/L	0584	WL	01/04/2007	0001	18.00 - 18.00	370	F #	20	-
	mg/L	0587	WL	01/03/2007	0001	18.00 - 18.00	95	F #	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN- CERTAINTY
				DATE	ID			LAB	DATA	QA	
Ammonia Total as N	mg/L	0588	WL	01/03/2007	0001	26.00 - 26.00	470	F	#	20	-
	mg/L	0589	WL	01/03/2007	0001	52.00 - 52.00	870	F	#	20	-
	mg/L	0590	WL, WP	01/09/2007	0001	2.00 - 2.00	36	QF	#	1	-
	mg/L	0591	WL, WP	01/09/2007	0001	4.90 - 4.90	250	QF	#	20	-
	mg/L	0598	WL, WP	01/11/2007	0001	10.10 - 10.10	120	QF	#	20	-
	mg/L	0603	WL, WP	01/09/2007	0001	10.20 - 10.20	530	QF	#	20	-
	mg/L	0606	WL, WP	01/08/2007	0001	10.30 - 10.30	82	QF	#	20	-
	mg/L	0682	WL	01/09/2007	0001	28.00 - 28.00	450	F	#	20	-
	mg/L	0683	WL	01/09/2007	0001	27.00 - 27.00	410	F	#	20	-
	mg/L	0683	WL	01/09/2007	0002	27.00 - 27.00	440	F	#	20	-
	mg/L	0687	WL	01/09/2007	0001	28.00 - 28.00	450	F	#	20	-
	mg/L	0688	WL	01/09/2007	0001	30.60 - 40.60	410	F	#	20	-
	mg/L	0689	WL	01/09/2007	0001	46.00 - 46.00	680	F	#	20	-
	mg/L	0690	WL, WP	01/10/2007	0001	4.30 - 4.30	0.72	QF	#	0.1	-
	mg/L	0691	WL, WP	01/10/2007	0001	7.50 - 7.50	180	QF	#	20	-
	mg/L	0692	WL, WP	01/10/2007	0001	10.10 - 10.10	260	QF	#	20	-
	mg/L	0725	WL, WP	01/11/2007	0001	5.60 - 5.60	0.2	QF	#	0.1	-
	mg/L	0726	WL, WP	01/11/2007	0001	10.30 - 10.30	11	QF	#	0.5	-
	mg/L	0780	WL	01/02/2007	0001	28.00 - 28.00	660	F	#	20	-
	mg/L	0781	WL	01/02/2007	0001	46.00 - 46.00	68	F	#	20	-
	mg/L	0782	WL	01/02/2007	0001	33.00 - 33.00	300	F	#	20	-
	mg/L	0786	WL	01/02/2007	0001	30.00 - 30.00	760	F	#	20	-
	mg/L	0787	WL	01/02/2007	0001	36.00 - 36.00	69	F	#	20	-
mg/L	0790	WL, WP	01/08/2007	0001	3.00 - 3.00	35	QF	#	1	-	
mg/L	0791	WL, WP	01/08/2007	0001	5.30 - 5.30	33	QF	#	2	-	
mg/L	0792	WL, WP	01/08/2007	0001	10.30 - 10.30	560	QF	#	20	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Bromide	mg/L	0216	SL, RIV	01/08/2007	0001	0.00 - 0.00	0.4	U		#	0.4	-
	mg/L	0236	SL, RIV	01/09/2007	0001	0.00 - 0.00	0.4	U		#	0.4	-
	mg/L	0239	SL, RIV	01/09/2007	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	0243	SL	01/11/2007	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	0245	SL, RIV	01/08/2007	0001	0.00 - 0.00	0.4	U		#	0.4	-
	mg/L	0259	SL, RIV	01/10/2007	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	0274	SL, RIV	01/08/2007	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	0405	WL	01/11/2007	0001	18.00 - 18.00	2	U	F	#	2	-
	mg/L	0408	WL	01/04/2007	0001	26.00 - 26.00	4	U	F	#	4	-
	mg/L	0480	WL	01/02/2007	0001	18.00 - 18.00	4	U	F	#	4	-
	mg/L	0481	WL	01/02/2007	0001	28.00 - 28.00	4	U	F	#	4	-
	mg/L	0483	WL	01/02/2007	0001	18.00 - 18.00	4	U	F	#	4	-
	mg/L	0484	WL	01/03/2007	0001	28.00 - 28.00	10	U	F	#	10	-
	mg/L	0488	WL	01/11/2007	0001	39.00 - 39.00	4	U	F	#	4	-
	mg/L	0493	WL	01/11/2007	0001	54.00 - 54.00	10	U	F	#	10	-
	mg/L	0493	WL	01/11/2007	0002	54.00 - 54.00	10	U	F	#	10	-
	mg/L	0496	WL, WP	01/11/2007	0001	3.20 - 3.20	4	U	QF	#	4	-
	mg/L	0557	WL	01/02/2007	0001	40.00 - 40.00	10	U	F	#	10	-
	mg/L	0558	WL	01/03/2007	0001	36.00 - 36.00	20	U	F	#	20	-
	mg/L	0559	WL	01/03/2007	0001	19.00 - 19.00	4	U	F	#	4	-
	mg/L	0559	WL	01/03/2007	0002	19.00 - 19.00	4	U	F	#	4	-
	mg/L	0560	WL	01/03/2007	0001	31.00 - 31.00	20	U	F	#	20	-
	mg/L	0562	WL, WP	01/08/2007	0001	2.30 - 2.30	1	U	QF	#	1	-
	mg/L	0563	WL, WP	01/08/2007	0001	5.60 - 5.60	1	U	QF	#	1	-
	mg/L	0583	WL	01/03/2007	0001	18.00 - 18.00	4	U	F	#	4	-
	mg/L	0584	WL	01/04/2007	0001	18.00 - 18.00	4	U	F	#	4	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
				DATE	ID			LAB	DATA	QA		
Bromide	mg/L	0587	WL	01/03/2007	0001	18.00 - 18.00	4	U	F	#	4	-
	mg/L	0588	WL	01/03/2007	0001	26.00 - 26.00	10	U	F	#	10	-
	mg/L	0589	WL	01/03/2007	0001	52.00 - 52.00	20	U	F	#	20	-
	mg/L	0590	WL, WP	01/09/2007	0001	2.00 - 2.00	1	U	QF	#	1	-
	mg/L	0591	WL, WP	01/09/2007	0001	4.90 - 4.90	2	U	QF	#	2	-
	mg/L	0598	WL, WP	01/11/2007	0001	10.10 - 10.10	2	U	QF	#	2	-
	mg/L	0603	WL, WP	01/09/2007	0001	10.20 - 10.20	4	U	QF	#	4	-
	mg/L	0606	WL, WP	01/08/2007	0001	10.30 - 10.30	1	U	QF	#	1	-
	mg/L	0682	WL	01/09/2007	0001	28.00 - 28.00	4	U	F	#	4	-
	mg/L	0683	WL	01/09/2007	0001	27.00 - 27.00	4	U	F	#	4	-
	mg/L	0683	WL	01/09/2007	0002	27.00 - 27.00	4	U	F	#	4	-
	mg/L	0687	WL	01/09/2007	0001	28.00 - 28.00	4	U	F	#	4	-
	mg/L	0688	WL	01/09/2007	0001	30.60 - 40.60	4	U	F	#	4	-
	mg/L	0689	WL	01/09/2007	0001	46.00 - 46.00	10	U	F	#	10	-
	mg/L	0690	WL, WP	01/10/2007	0001	4.30 - 4.30	4	U	QF	#	4	-
	mg/L	0691	WL, WP	01/10/2007	0001	7.50 - 7.50	4	U	QF	#	4	-
	mg/L	0692	WL, WP	01/10/2007	0001	10.10 - 10.10	4	U	QF	#	4	-
	mg/L	0725	WL, WP	01/11/2007	0001	5.60 - 5.60	1	U	QF	#	1	-
	mg/L	0726	WL, WP	01/11/2007	0001	10.30 - 10.30	0.4	U	QF	#	0.4	-
	mg/L	0780	WL	01/02/2007	0001	28.00 - 28.00	10	U	F	#	10	-
	mg/L	0781	WL	01/02/2007	0001	46.00 - 46.00	20	U	F	#	20	-
	mg/L	0782	WL	01/02/2007	0001	33.00 - 33.00	20	U	F	#	20	-
	mg/L	0786	WL	01/02/2007	0001	30.00 - 30.00	10	U	F	#	10	-
	mg/L	0787	WL	01/02/2007	0001	36.00 - 36.00	20	U	F	#	20	-
	mg/L	0790	WL, WP	01/08/2007	0001	3.00 - 3.00	0.4	U	QF	#	0.4	-
	mg/L	0791	WL, WP	01/08/2007	0001	5.30 - 5.30	1	U	QF	#	1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Bromide	mg/L	0792	WL, WP	01/08/2007	0001	10.30 - 10.30	4	U	QF	#	4	-
Chloride	mg/L	0216	SL, RIV	01/08/2007	0001	0.00 - 0.00	130			#	4	-
	mg/L	0236	SL, RIV	01/09/2007	0001	0.00 - 0.00	160			#	4	-
	mg/L	0239	SL, RIV	01/09/2007	0001	0.00 - 0.00	120			#	2	-
	mg/L	0243	SL	01/11/2007	0001	0.00 - 0.00	110			#	2	-
	mg/L	0245	SL, RIV	01/08/2007	0001	0.00 - 0.00	150			#	4	-
	mg/L	0259	SL, RIV	01/10/2007	0001	0.00 - 0.00	110			#	2	-
	mg/L	0274	SL, RIV	01/08/2007	0001	0.00 - 0.00	130			#	2	-
	mg/L	0405	WL	01/11/2007	0001	18.00 - 18.00	770		F	#	20	-
	mg/L	0408	WL	01/04/2007	0001	26.00 - 26.00	2100		F	#	40	-
	mg/L	0480	WL	01/02/2007	0001	18.00 - 18.00	3200		F	#	40	-
	mg/L	0481	WL	01/02/2007	0001	28.00 - 28.00	6400		F	#	100	-
	mg/L	0483	WL	01/02/2007	0001	18.00 - 18.00	3400		F	#	40	-
	mg/L	0484	WL	01/03/2007	0001	28.00 - 28.00	17000		F	#	200	-
	mg/L	0488	WL	01/11/2007	0001	39.00 - 39.00	1700		F	#	40	-
	mg/L	0493	WL	01/11/2007	0001	54.00 - 54.00	4900		F	#	100	-
	mg/L	0493	WL	01/11/2007	0002	54.00 - 54.00	5100		F	#	100	-
	mg/L	0496	WL, WP	01/11/2007	0001	3.20 - 3.20	1500		QF	#	40	-
	mg/L	0557	WL	01/02/2007	0001	40.00 - 40.00	7400		F	#	100	-
	mg/L	0558	WL	01/03/2007	0001	36.00 - 36.00	39000		F	#	400	-
	mg/L	0559	WL	01/03/2007	0001	19.00 - 19.00	2600		F	#	40	-
mg/L	0559	WL	01/03/2007	0002	19.00 - 19.00	2500		F	#	40	-	
mg/L	0560	WL	01/03/2007	0001	31.00 - 31.00	56000		F	#	1000	-	
mg/L	0562	WL, WP	01/08/2007	0001	2.30 - 2.30	440		QF	#	10	-	
mg/L	0563	WL, WP	01/08/2007	0001	5.60 - 5.60	590		QF	#	20	-	
mg/L	0583	WL	01/03/2007	0001	18.00 - 18.00	1700		F	#	40	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Chloride	mg/L	0584	WL	01/04/2007	0001	18.00 - 18.00	1800	F #	40	-
	mg/L	0587	WL	01/03/2007	0001	18.00 - 18.00	1900	F #	40	-
	mg/L	0588	WL	01/03/2007	0001	26.00 - 26.00	5900	F #	100	-
	mg/L	0589	WL	01/03/2007	0001	52.00 - 52.00	58000	F #	1000	-
	mg/L	0590	WL, WP	01/09/2007	0001	2.00 - 2.00	230	QF #	10	-
	mg/L	0591	WL, WP	01/09/2007	0001	4.90 - 4.90	680	QF #	20	-
	mg/L	0598	WL, WP	01/11/2007	0001	10.10 - 10.10	260	QF #	20	-
	mg/L	0603	WL, WP	01/09/2007	0001	10.20 - 10.20	1500	QF #	40	-
	mg/L	0606	WL, WP	01/08/2007	0001	10.30 - 10.30	280	QF #	10	-
	mg/L	0682	WL	01/09/2007	0001	28.00 - 28.00	2000	F #	40	-
	mg/L	0683	WL	01/09/2007	0001	27.00 - 27.00	1900	F #	40	-
	mg/L	0683	WL	01/09/2007	0002	27.00 - 27.00	1800	F #	40	-
	mg/L	0687	WL	01/09/2007	0001	28.00 - 28.00	1900	F #	40	-
	mg/L	0688	WL	01/09/2007	0001	30.60 - 40.60	2000	F #	40	-
	mg/L	0689	WL	01/09/2007	0001	46.00 - 46.00	7300	F #	100	-
	mg/L	0690	WL, WP	01/10/2007	0001	4.30 - 4.30	1900	QF #	40	-
	mg/L	0691	WL, WP	01/10/2007	0001	7.50 - 7.50	1200	QF #	40	-
	mg/L	0692	WL, WP	01/10/2007	0001	10.10 - 10.10	1500	QF #	40	-
	mg/L	0725	WL, WP	01/11/2007	0001	5.60 - 5.60	100	QF #	10	-
	mg/L	0726	WL, WP	01/11/2007	0001	10.30 - 10.30	100	QF #	4	-
	mg/L	0780	WL	01/02/2007	0001	28.00 - 28.00	5400	F #	100	-
	mg/L	0781	WL	01/02/2007	0001	46.00 - 46.00	57000	F #	1000	-
	mg/L	0782	WL	01/02/2007	0001	33.00 - 33.00	53000	F #	1000	-
	mg/L	0786	WL	01/02/2007	0001	30.00 - 30.00	8600	F #	100	-
	mg/L	0787	WL	01/02/2007	0001	36.00 - 36.00	56000	F #	1000	-
	mg/L	0790	WL, WP	01/08/2007	0001	3.00 - 3.00	180	QF #	10	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Chloride	mg/L	0791	WL, WP	01/08/2007	0001	5.30 - 5.30	700	QF #	10	-
	mg/L	0792	WL, WP	01/08/2007	0001	10.30 - 10.30	5100	QF #	100	-
Dissolved Oxygen	mg/L	0216	SL, RIV	01/08/2007	N001	0.00 - 0.00	15.35	#	-	-
	mg/L	0236	SL, RIV	01/09/2007	N001	0.00 - 0.00	16.34	#	-	-
	mg/L	0239	SL, RIV	01/09/2007	N001	0.00 - 0.00	16.75	#	-	-
	mg/L	0243	SL	01/11/2007	N001	0.00 - 0.00	14.05	#	-	-
	mg/L	0245	SL, RIV	01/08/2007	N001	0.00 - 0.00	15.99	#	-	-
	mg/L	0259	SL, RIV	01/10/2007	N001	0.00 - 0.00	13.15	#	-	-
	mg/L	0274	SL, RIV	01/08/2007	N001	0.00 - 0.00	16.16	#	-	-
	mg/L	0405	WL	01/11/2007	N001	18.00 - 18.00	3.11	F #	-	-
	mg/L	0408	WL	01/04/2007	N001	26.00 - 26.00	1.05	F #	-	-
	mg/L	0480	WL	01/02/2007	N001	18.00 - 18.00	1.77	F #	-	-
	mg/L	0481	WL	01/02/2007	N001	28.00 - 28.00	1.04	F #	-	-
	mg/L	0483	WL	01/02/2007	N001	18.00 - 18.00	1.45	F #	-	-
	mg/L	0484	WL	01/03/2007	N001	28.00 - 28.00	0.80	F #	-	-
	mg/L	0488	WL	01/11/2007	N001	39.00 - 39.00	0.97	F #	-	-
	mg/L	0493	WL	01/11/2007	N001	54.00 - 54.00	0.80	F #	-	-
	mg/L	0496	WL, WP	01/11/2007	N001	3.20 - 3.20	5.02	QF #	-	-
	mg/L	0497	WL, WP	01/11/2007	N001	4.90 - 4.90	4.74	F #	-	-
	mg/L	0557	WL	01/02/2007	N001	40.00 - 40.00	0.96	F #	-	-
	mg/L	0558	WL	01/03/2007	N001	36.00 - 36.00	1.30	F #	-	-
	mg/L	0559	WL	01/03/2007	N001	19.00 - 19.00	0.99	F #	-	-
mg/L	0560	WL	01/03/2007	N001	31.00 - 31.00	0.54	F #	-	-	
mg/L	0562	WL, WP	01/08/2007	N001	2.30 - 2.30	4.47	QF #	-	-	
mg/L	0563	WL, WP	01/08/2007	N001	5.60 - 5.60	3.02	QF #	-	-	
mg/L	0583	WL	01/03/2007	N001	18.00 - 18.00	2.18	F #	-	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Dissolved Oxygen	mg/L	0584	WL	01/04/2007	N001	18.00 - 18.00	1.42	F	#	-	-	
	mg/L	0587	WL	01/03/2007	N001	18.00 - 18.00	1.75	F	#	-	-	
	mg/L	0588	WL	01/03/2007	N001	26.00 - 26.00	1.37	F	#	-	-	
	mg/L	0589	WL	01/03/2007	N001	52.00 - 52.00	0.59	F	#	-	-	
	mg/L	0590	WL, WP	01/09/2007	N001	2.00 - 2.00	7.63	QF	#	-	-	
	mg/L	0591	WL, WP	01/09/2007	N001	4.90 - 4.90	3.62	QF	#	-	-	
	mg/L	0598	WL, WP	01/11/2007	N001	10.10 - 10.10	2.06	QF	#	-	-	
	mg/L	0603	WL, WP	01/09/2007	N001	10.20 - 10.20	2.23	QF	#	-	-	
	mg/L	0606	WL, WP	01/08/2007	N001	10.30 - 10.30	5.43	QF	#	-	-	
	mg/L	0682	WL	01/09/2007	N001	28.00 - 28.00	1.44	F	#	-	-	
	mg/L	0683	WL	01/09/2007	N001	27.00 - 27.00	1.32	F	#	-	-	
	mg/L	0687	WL	01/09/2007	N001	28.00 - 28.00	1.96	F	#	-	-	
	mg/L	0688	WL	01/09/2007	N001	39.00 - 39.00	1.54	F	#	-	-	
	mg/L	0688	WL	01/09/2007	N001	31.00 - 31.00	1.78	F	#	-	-	
	mg/L	0689	WL	01/09/2007	N001	54.00 - 54.00	1.44	F	#	-	-	
	mg/L	0689	WL	01/09/2007	N001	46.00 - 46.00	1.09	F	#	-	-	
	mg/L	0690	WL, WP	01/10/2007	N001	4.30 - 4.30	3.66	QF	#	-	-	
	mg/L	0691	WL, WP	01/10/2007	N001	7.50 - 7.50	5.37	QF	#	-	-	
	mg/L	0692	WL, WP	01/10/2007	N001	10.10 - 10.10	4.07	QF	#	-	-	
	mg/L	0725	WL, WP	01/11/2007	N001	5.60 - 5.60	9.75	QF	#	-	-	
	mg/L	0726	WL, WP	01/11/2007	N001	10.30 - 10.30	6.03	QF	#	-	-	
	mg/L	0780	WL	01/02/2007	N001	28.00 - 28.00	1.57	F	#	-	-	
	mg/L	0781	WL	01/02/2007	N001	46.00 - 46.00	0.61	F	#	-	-	
mg/L	0782	WL	01/02/2007	N001	33.00 - 33.00	0.78	F	#	-	-		
mg/L	0786	WL	01/02/2007	N001	30.00 - 30.00	0.85	F	#	-	-		
mg/L	0787	WL	01/02/2007	N001	36.00 - 36.00	0.83	F	#	-	-		

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Dissolved Oxygen	mg/L	0790	WL, WP	01/08/2007	N001	3.00 - 3.00	4.90	QF	#	-	-	
	mg/L	0791	WL, WP	01/08/2007	N001	5.30 - 5.30	3.61	QF	#	-	-	
	mg/L	0792	WL, WP	01/08/2007	N001	10.30 - 10.30	3.92	QF	#	-	-	
Oxidation Reduction Potent	mV	0216	SL, RIV	01/08/2007	N001	0.00 - 0.00	-3		#	-	-	
	mV	0236	SL, RIV	01/09/2007	N001	0.00 - 0.00	38		#	-	-	
	mV	0239	SL, RIV	01/09/2007	N001	0.00 - 0.00	54		#	-	-	
	mV	0243	SL	01/11/2007	N001	0.00 - 0.00	53		#	-	-	
	mV	0245	SL, RIV	01/08/2007	N001	0.00 - 0.00	15		#	-	-	
	mV	0259	SL, RIV	01/10/2007	N001	0.00 - 0.00	43		#	-	-	
	mV	0274	SL, RIV	01/08/2007	N001	0.00 - 0.00	-90		#	-	-	
	mV	0405	WL	01/11/2007	N001	18.00 - 18.00	211	F	#	-	-	
	mV	0408	WL	01/04/2007	N001	26.00 - 26.00	227	F	#	-	-	
	mV	0480	WL	01/02/2007	N001	18.00 - 18.00	243	F	#	-	-	
	mV	0481	WL	01/02/2007	N001	28.00 - 28.00	172	F	#	-	-	
	mV	0483	WL	01/02/2007	N001	18.00 - 18.00	90	F	#	-	-	
	mV	0484	WL	01/03/2007	N001	28.00 - 28.00	146	F	#	-	-	
	mV	0488	WL	01/11/2007	N001	39.00 - 39.00	240	F	#	-	-	
	mV	0493	WL	01/11/2007	N001	54.00 - 54.00	151	F	#	-	-	
	mV	0496	WL, WP	01/11/2007	N001	3.20 - 3.20	67	QF	#	-	-	
	mV	0497	WL, WP	01/11/2007	N001	4.90 - 4.90	34	F	#	-	-	
	mV	0557	WL	01/02/2007	N001	40.00 - 40.00	62	F	#	-	-	
	mV	0558	WL	01/03/2007	N001	36.00 - 36.00	186	F	#	-	-	
	mV	0559	WL	01/03/2007	N001	19.00 - 19.00	75	F	#	-	-	
mV	0560	WL	01/03/2007	N001	31.00 - 31.00	195	F	#	-	-		
mV	0562	WL, WP	01/08/2007	N001	2.30 - 2.30	-28	QF	#	-	-		
mV	0563	WL, WP	01/08/2007	N001	5.60 - 5.60	71	QF	#	-	-		

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA QA		
Oxidation Reduction Potent	mV	0583	WL	01/03/2007	N001	18.00 - 18.00	259	F	#	-	-
	mV	0584	WL	01/04/2007	N001	18.00 - 18.00	256	F	#	-	-
	mV	0587	WL	01/03/2007	N001	18.00 - 18.00	113	F	#	-	-
	mV	0588	WL	01/03/2007	N001	26.00 - 26.00	80	F	#	-	-
	mV	0589	WL	01/03/2007	N001	52.00 - 52.00	136	F	#	-	-
	mV	0590	WL, WP	01/09/2007	N001	2.00 - 2.00	115	QF	#	-	-
	mV	0591	WL, WP	01/09/2007	N001	4.90 - 4.90	157	QF	#	-	-
	mV	0598	WL, WP	01/11/2007	N001	10.10 - 10.10	73	QF	#	-	-
	mV	0603	WL, WP	01/09/2007	N001	10.20 - 10.20	1.48	QF	#	-	-
	mV	0606	WL, WP	01/08/2007	N001	10.30 - 10.30	-16	QF	#	-	-
	mV	0682	WL	01/09/2007	N001	28.00 - 28.00	230	F	#	-	-
	mV	0683	WL	01/09/2007	N001	27.00 - 27.00	118	F	#	-	-
	mV	0687	WL	01/09/2007	N001	28.00 - 28.00	136	F	#	-	-
	mV	0688	WL	01/09/2007	N001	31.00 - 31.00	119	F	#	-	-
	mV	0688	WL	01/09/2007	N001	39.00 - 39.00	143	F	#	-	-
	mV	0689	WL	01/09/2007	N001	46.00 - 46.00	120	F	#	-	-
	mV	0689	WL	01/09/2007	N001	54.00 - 54.00	166	F	#	-	-
	mV	0690	WL, WP	01/10/2007	N001	4.30 - 4.30	178	QF	#	-	-
	mV	0691	WL, WP	01/10/2007	N001	7.50 - 7.50	83	QF	#	-	-
	mV	0692	WL, WP	01/10/2007	N001	10.10 - 10.10	66	QF	#	-	-
	mV	0725	WL, WP	01/11/2007	N001	5.60 - 5.60	31	QF	#	-	-
	mV	0726	WL, WP	01/11/2007	N001	10.30 - 10.30	58	QF	#	-	-
	mV	0780	WL	01/02/2007	N001	28.00 - 28.00	118	F	#	-	-
	mV	0781	WL	01/02/2007	N001	46.00 - 46.00	138	F	#	-	-
	mV	0782	WL	01/02/2007	N001	33.00 - 33.00	131	F	#	-	-
	mV	0786	WL	01/02/2007	N001	30.00 - 30.00	125	F	#	-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB DATA	QA		
Oxidation Reduction Potent	mV	0787	WL	01/02/2007	N001	36.00 - 36.00	127	F	#	-	-
	mV	0790	WL, WP	01/08/2007	N001	3.00 - 3.00	-52	QF	#	-	-
	mV	0791	WL, WP	01/08/2007	N001	5.30 - 5.30	-128	QF	#	-	-
	mV	0792	WL, WP	01/08/2007	N001	10.30 - 10.30	-174	QF	#	-	-
pH	s.u.	0216	SL, RIV	01/08/2007	N001	0.00 - 0.00	7.93		#	-	-
	s.u.	0236	SL, RIV	01/09/2007	N001	0.00 - 0.00	7.98		#	-	-
	s.u.	0239	SL, RIV	01/09/2007	N001	0.00 - 0.00	8.64		#	-	-
	s.u.	0243	SL	01/11/2007	N001	0.00 - 0.00	8.57		#	-	-
	s.u.	0245	SL, RIV	01/08/2007	N001	0.00 - 0.00	7.99		#	-	-
	s.u.	0259	SL, RIV	01/10/2007	N001	0.00 - 0.00	8.61		#	-	-
	s.u.	0274	SL, RIV	01/08/2007	N001	0.00 - 0.00	8.51		#	-	-
	s.u.	0405	WL	01/11/2007	N001	18.00 - 18.00	7.48	F	#	-	-
	s.u.	0408	WL	01/04/2007	N001	26.00 - 26.00	6.75	F	#	-	-
	s.u.	0480	WL	01/02/2007	N001	18.00 - 18.00	6.73	F	#	-	-
	s.u.	0481	WL	01/02/2007	N001	28.00 - 28.00	6.73	F	#	-	-
	s.u.	0483	WL	01/02/2007	N001	18.00 - 18.00	6.85	F	#	-	-
	s.u.	0484	WL	01/03/2007	N001	28.00 - 28.00	6.92	F	#	-	-
	s.u.	0488	WL	01/11/2007	N001	39.00 - 39.00	6.91	F	#	-	-
	s.u.	0493	WL	01/11/2007	N001	54.00 - 54.00	6.86	F	#	-	-
	s.u.	0496	WL, WP	01/11/2007	N001	3.20 - 3.20	8.22	QF	#	-	-
	s.u.	0497	WL, WP	01/11/2007	N001	4.90 - 4.90	8.65	F	#	-	-
	s.u.	0557	WL	01/02/2007	N001	40.00 - 40.00	6.76	F	#	-	-
	s.u.	0558	WL	01/03/2007	N001	36.00 - 36.00	6.89	F	#	-	-
	s.u.	0559	WL	01/03/2007	N001	19.00 - 19.00	7.16	F	#	-	-
	s.u.	0560	WL	01/03/2007	N001	31.00 - 31.00	6.95	F	#	-	-
	s.u.	0562	WL, WP	01/08/2007	N001	2.30 - 2.30	7.48	QF	#	-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
pH	s.u.	0563	WL, WP	01/08/2007	N001	5.60 - 5.60	8.06	QF	#	-	-	
	s.u.	0583	WL	01/03/2007	N001	18.00 - 18.00	6.76	F	#	-	-	
	s.u.	0584	WL	01/04/2007	N001	18.00 - 18.00	6.78	F	#	-	-	
	s.u.	0587	WL	01/03/2007	N001	18.00 - 18.00	6.76	F	#	-	-	
	s.u.	0588	WL	01/03/2007	N001	26.00 - 26.00	6.87	F	#	-	-	
	s.u.	0589	WL	01/03/2007	N001	52.00 - 52.00	6.76	F	#	-	-	
	s.u.	0590	WL, WP	01/09/2007	N001	2.00 - 2.00	8.24	QF	#	-	-	
	s.u.	0591	WL, WP	01/09/2007	N001	4.90 - 4.90	8.70	QF	#	-	-	
	s.u.	0598	WL, WP	01/11/2007	N001	10.10 - 10.10	8.01	QF	#	-	-	
	s.u.	0603	WL, WP	01/09/2007	N001	10.20 - 10.20	7.95	QF	#	-	-	
	s.u.	0606	WL, WP	01/08/2007	N001	10.30 - 10.30	8.71	QF	#	-	-	
	s.u.	0682	WL	01/09/2007	N001	28.00 - 28.00	6.76	F	#	-	-	
	s.u.	0683	WL	01/09/2007	N001	27.00 - 27.00	6.79	F	#	-	-	
	s.u.	0687	WL	01/09/2007	N001	28.00 - 28.00	6.77	F	#	-	-	
	s.u.	0688	WL	01/09/2007	N001	39.00 - 39.00	6.83	F	#	-	-	
	s.u.	0688	WL	01/09/2007	N001	31.00 - 31.00	6.85	F	#	-	-	
	s.u.	0689	WL	01/09/2007	N001	54.00 - 54.00	6.79	F	#	-	-	
	s.u.	0689	WL	01/09/2007	N001	46.00 - 46.00	6.82	F	#	-	-	
	s.u.	0690	WL, WP	01/10/2007	N001	4.30 - 4.30	8.24	QF	#	-	-	
	s.u.	0691	WL, WP	01/10/2007	N001	7.50 - 7.50	7.53	QF	#	-	-	
	s.u.	0692	WL, WP	01/10/2007	N001	10.10 - 10.10	7.89	QF	#	-	-	
	s.u.	0725	WL, WP	01/11/2007	N001	5.60 - 5.60	7.40	QF	#	-	-	
	s.u.	0726	WL, WP	01/11/2007	N001	10.30 - 10.30	8.30	QF	#	-	-	
	s.u.	0780	WL	01/02/2007	N001	28.00 - 28.00	6.72	F	#	-	-	
	s.u.	0781	WL	01/02/2007	N001	46.00 - 46.00	6.77	F	#	-	-	
s.u.	0782	WL	01/02/2007	N001	33.00 - 33.00	6.69	F	#	-	-		

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA QA		
pH	s.u.	0786	WL	01/02/2007	N001	30.00 - 30.00	6.66	F	#	-	-
	s.u.	0787	WL	01/02/2007	N001	36.00 - 36.00	6.75	F	#	-	-
	s.u.	0790	WL, WP	01/08/2007	N001	3.00 - 3.00	7.75	QF	#	-	-
	s.u.	0791	WL, WP	01/08/2007	N001	5.30 - 5.30	8.07	QF	#	-	-
	s.u.	0792	WL, WP	01/08/2007	N001	10.30 - 10.30	8.27	QF	#	-	-
Specific Conductance	umhos/cm	0216	SL, RIV	01/08/2007	N001	0.00 - 0.00	1511		#	-	-
	umhos/cm	0236	SL, RIV	01/09/2007	N001	0.00 - 0.00	1693		#	-	-
	umhos/cm	0239	SL, RIV	01/09/2007	N001	0.00 - 0.00	1026		#	-	-
	umhos/cm	0243	SL	01/11/2007	N001	0.00 - 0.00	1060		#	-	-
	umhos/cm	0245	SL, RIV	01/08/2007	N001	0.00 - 0.00	1533		#	-	-
	umhos/cm	0259	SL, RIV	01/10/2007	N001	0.00 - 0.00	1138		#	-	-
	umhos/cm	0274	SL, RIV	01/08/2007	N001	0.00 - 0.00	2130		#	-	-
	umhos/cm	0405	WL	01/11/2007	N001	18.00 - 18.00	8641	F	#	-	-
	umhos/cm	0408	WL	01/04/2007	N001	26.00 - 26.00	18943	F	#	-	-
	umhos/cm	0480	WL	01/02/2007	N001	18.00 - 18.00	20691	F	#	-	-
	umhos/cm	0481	WL	01/02/2007	N001	28.00 - 28.00	28341	F	#	-	-
	umhos/cm	0483	WL	01/02/2007	N001	18.00 - 18.00	17190	F	#	-	-
	umhos/cm	0484	WL	01/03/2007	N001	28.00 - 28.00	44506	F	#	-	-
	umhos/cm	0488	WL	01/11/2007	N001	39.00 - 39.00	22031	F	#	-	-
	umhos/cm	0493	WL	01/11/2007	N001	54.00 - 54.00	35167	F	#	-	-
	umhos/cm	0496	WL, WP	01/11/2007	N001	3.20 - 3.20	13787	QF	#	-	-
	umhos/cm	0497	WL, WP	01/11/2007	N001	4.90 - 4.90	8403	F	#	-	-
	umhos/cm	0557	WL	01/02/2007	N001	40.00 - 40.00	30593	F	#	-	-
	umhos/cm	0558	WL	01/03/2007	N001	36.00 - 36.00	87792	F	#	-	-
	umhos/cm	0559	WL	01/03/2007	N001	19.00 - 19.00	12342	F	#	-	-
umhos/cm	0560	WL	01/03/2007	N001	31.00 - 31.00	90416	F	#	-	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
				DATE	ID			LAB	DATA	QA		
Specific Conductance	umhos/cm	0562	WL, WP	01/08/2007	N001	2.30 - 2.30	3141	QF	#	-	-	
	umhos/cm	0563	WL, WP	01/08/2007	N001	5.60 - 5.60	3881	QF	#	-	-	
	umhos/cm	0583	WL	01/03/2007	N001	18.00 - 18.00	15458	F	#	-	-	
	umhos/cm	0584	WL	01/04/2007	N001	18.00 - 18.00	16572	F	#	-	-	
	umhos/cm	0587	WL	01/03/2007	N001	18.00 - 18.00	12714	F	#	-	-	
	umhos/cm	0588	WL	01/03/2007	N001	26.00 - 26.00	24627	F	#	-	-	
	umhos/cm	0589	WL	01/03/2007	N001	52.00 - 52.00	98990	F	#	-	-	
	umhos/cm	0590	WL, WP	01/09/2007	N001	2.00 - 2.00	9579	QF	#	-	-	
	umhos/cm	0591	WL, WP	01/09/2007	N001	4.90 - 4.90	7403	QF	#	-	-	
	umhos/cm	0598	WL, WP	01/11/2007	N001	10.10 - 10.10	6796	QF	#	-	-	
	umhos/cm	0603	WL, WP	01/09/2007	N001	10.20 - 10.20	14694	QF	#	-	-	
	umhos/cm	0606	WL, WP	01/08/2007	N001	10.30 - 10.30	3055	QF	#	-	-	
	umhos/cm	0682	WL	01/09/2007	N001	28.00 - 28.00	18596	F	#	-	-	
	umhos/cm	0683	WL	01/09/2007	N001	27.00 - 27.00	18296	F	#	-	-	
	umhos/cm	0687	WL	01/09/2007	N001	28.00 - 28.00	18098	F	#	-	-	
	umhos/cm	0688	WL	01/09/2007	N001	31.00 - 31.00	18646	F	#	-	-	
	umhos/cm	0688	WL	01/09/2007	N001	39.00 - 39.00	20689	F	#	-	-	
	umhos/cm	0689	WL	01/09/2007	N001	46.00 - 46.00	35429	F	#	-	-	
	umhos/cm	0689	WL	01/09/2007	N001	54.00 - 54.00	63275	F	#	-	-	
	umhos/cm	0690	WL, WP	01/10/2007	N001	4.30 - 4.30	17196	QF	#	-	-	
	umhos/cm	0691	WL, WP	01/10/2007	N001	7.50 - 7.50	10997	QF	#	-	-	
	umhos/cm	0692	WL, WP	01/10/2007	N001	10.10 - 10.10	12900	QF	#	-	-	
	umhos/cm	0725	WL, WP	01/11/2007	N001	5.60 - 5.60	2903	QF	#	-	-	
	umhos/cm	0726	WL, WP	01/11/2007	N001	10.30 - 10.30	1419	QF	#	-	-	
	umhos/cm	0780	WL	01/02/2007	N001	28.00 - 28.00	27379	F	#	-	-	
	umhos/cm	0781	WL	01/02/2007	N001	46.00 - 46.00	113714	F	#	-	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA QA		
Specific Conductance	umhos/cm	0782	WL	01/02/2007	N001	33.00 - 33.00	106753	F	#	-	-
	umhos/cm	0786	WL	01/02/2007	N001	30.00 - 30.00	33174	F	#	-	-
	umhos/cm	0787	WL	01/02/2007	N001	36.00 - 36.00	112368	F	#	-	-
	umhos/cm	0790	WL, WP	01/08/2007	N001	3.00 - 3.00	1663	QF	#	-	-
	umhos/cm	0791	WL, WP	01/08/2007	N001	5.30 - 5.30	3606	QF	#	-	-
	umhos/cm	0792	WL, WP	01/08/2007	N001	10.30 - 10.30	22758	QF	#	-	-
Sulfate	mg/L	0216	SL, RIV	01/08/2007	0001	0.00 - 0.00	370		#	10	-
	mg/L	0236	SL, RIV	01/09/2007	0001	0.00 - 0.00	440		#	10	-
	mg/L	0239	SL, RIV	01/09/2007	0001	0.00 - 0.00	210		#	5	-
	mg/L	0243	SL	01/11/2007	0001	0.00 - 0.00	210		#	5	-
	mg/L	0245	SL, RIV	01/08/2007	0001	0.00 - 0.00	400		#	10	-
	mg/L	0259	SL, RIV	01/10/2007	0001	0.00 - 0.00	220		#	5	-
	mg/L	0274	SL, RIV	01/08/2007	0001	0.00 - 0.00	230		#	5	-
	mg/L	0405	WL	01/11/2007	0001	18.00 - 18.00	3500	F	#	50	-
	mg/L	0408	WL	01/04/2007	0001	26.00 - 26.00	9900	F	#	100	-
	mg/L	0480	WL	01/02/2007	0001	18.00 - 18.00	9600	F	#	100	-
	mg/L	0481	WL	01/02/2007	0001	28.00 - 28.00	10000	F	#	100	-
	mg/L	0483	WL	01/02/2007	0001	18.00 - 18.00	6600	F	#	100	-
	mg/L	0484	WL	01/03/2007	0001	28.00 - 28.00	9900	F	#	500	-
	mg/L	0488	WL	01/11/2007	0001	39.00 - 39.00	11000	F	#	100	-
	mg/L	0493	WL	01/11/2007	0001	54.00 - 54.00	14000	F	#	250	-
	mg/L	0493	WL	01/11/2007	0002	54.00 - 54.00	15000	F	#	250	-
	mg/L	0496	WL, WP	01/11/2007	0001	3.20 - 3.20	6000	QF	#	100	-
	mg/L	0557	WL	01/02/2007	0001	40.00 - 40.00	11000	F	#	250	-
	mg/L	0558	WL	01/03/2007	0001	36.00 - 36.00	9900	F	#	1000	-
	mg/L	0559	WL	01/03/2007	0001	19.00 - 19.00	4600	F	#	100	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Sulfate	mg/L	0559	WL	01/03/2007	0002	19.00 - 19.00	4600	F	#		100	-
	mg/L	0560	WL	01/03/2007	0001	31.00 - 31.00	9500	F	#		50	-
	mg/L	0562	WL, WP	01/08/2007	0001	2.30 - 2.30	980	QF	#		25	-
	mg/L	0563	WL, WP	01/08/2007	0001	5.60 - 5.60	1300	QF	#		50	-
	mg/L	0583	WL	01/03/2007	0001	18.00 - 18.00	8700	F	#		100	-
	mg/L	0584	WL	01/04/2007	0001	18.00 - 18.00	9200	F	#		100	-
	mg/L	0587	WL	01/03/2007	0001	18.00 - 18.00	5800	F	#		100	-
	mg/L	0588	WL	01/03/2007	0001	26.00 - 26.00	8600	F	#		250	-
	mg/L	0589	WL	01/03/2007	0001	52.00 - 52.00	8500	F	#		50	-
	mg/L	0590	WL, WP	01/09/2007	0001	2.00 - 2.00	740	QF	#		25	-
	mg/L	0591	WL, WP	01/09/2007	0001	4.90 - 4.90	2500	QF	#		50	-
	mg/L	0598	WL, WP	01/11/2007	0001	10.10 - 10.10	2500	QF	#		50	-
	mg/L	0603	WL, WP	01/09/2007	0001	10.20 - 10.20	7200	QF	#		100	-
	mg/L	0606	WL, WP	01/08/2007	0001	10.30 - 10.30	750	QF	#		25	-
	mg/L	0682	WL	01/09/2007	0001	28.00 - 28.00	9400	F	#		100	-
	mg/L	0683	WL	01/09/2007	0001	27.00 - 27.00	9000	F	#		100	-
	mg/L	0683	WL	01/09/2007	0002	27.00 - 27.00	8500	F	#		100	-
	mg/L	0687	WL	01/09/2007	0001	28.00 - 28.00	8900	F	#		100	-
	mg/L	0688	WL	01/09/2007	0001	30.60 - 40.60	9200	F	#		100	-
	mg/L	0689	WL	01/09/2007	0001	46.00 - 46.00	12000	F	#		250	-
	mg/L	0690	WL, WP	01/10/2007	0001	4.30 - 4.30	7300	QF	#		100	-
	mg/L	0691	WL, WP	01/10/2007	0001	7.50 - 7.50	4200	QF	#		100	-
	mg/L	0692	WL, WP	01/10/2007	0001	10.10 - 10.10	5300	QF	#		100	-
	mg/L	0725	WL, WP	01/11/2007	0001	5.60 - 5.60	1500	QF	#		25	-
	mg/L	0726	WL, WP	01/11/2007	0001	10.30 - 10.30	420	QF	#		10	-
	mg/L	0780	WL	01/02/2007	0001	28.00 - 28.00	13000	F	#		250	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	0781	WL	01/02/2007	0001	46.00 - 46.00	6200	F #	50	-
	mg/L	0782	WL	01/02/2007	0001	33.00 - 33.00	8300	F #	50	-
	mg/L	0786	WL	01/02/2007	0001	30.00 - 30.00	12000	F #	250	-
	mg/L	0787	WL	01/02/2007	0001	36.00 - 36.00	6000	F #	50	-
	mg/L	0790	WL, WP	01/08/2007	0001	3.00 - 3.00	400	QF #	25	-
	mg/L	0791	WL, WP	01/08/2007	0001	5.30 - 5.30	830	QF #	25	-
	mg/L	0792	WL, WP	01/08/2007	0001	10.30 - 10.30	5700	QF #	250	-
Temperature	C	0216	SL, RIV	01/08/2007	N001	0.00 - 0.00	3.25	#	-	-
	C	0236	SL, RIV	01/09/2007	N001	0.00 - 0.00	1.50	#	-	-
	C	0239	SL, RIV	01/09/2007	N001	0.00 - 0.00	0.61	#	-	-
	C	0243	SL	01/11/2007	N001	0.00 - 0.00	1.47	#	-	-
	C	0245	SL, RIV	01/08/2007	N001	0.00 - 0.00	1.65	#	-	-
	C	0259	SL, RIV	01/10/2007	N001	0.00 - 0.00	0.55	#	-	-
	C	0274	SL, RIV	01/08/2007	N001	0.00 - 0.00	2.24	#	-	-
	C	0405	WL	01/11/2007	N001	18.00 - 18.00	14.34	F #	-	-
	C	0408	WL	01/04/2007	N001	26.00 - 26.00	14.98	F #	-	-
	C	0480	WL	01/02/2007	N001	18.00 - 18.00	15.49	F #	-	-
	C	0481	WL	01/02/2007	N001	28.00 - 28.00	14.82	F #	-	-
	C	0483	WL	01/02/2007	N001	18.00 - 18.00	14.71	F #	-	-
	C	0484	WL	01/03/2007	N001	28.00 - 28.00	13.66	F #	-	-
	C	0488	WL	01/11/2007	N001	39.00 - 39.00	14.13	F #	-	-
	C	0493	WL	01/11/2007	N001	54.00 - 54.00	14.75	F #	-	-
	C	0496	WL, WP	01/11/2007	N001	3.20 - 3.20	9.25	QF #	-	-
	C	0497	WL, WP	01/11/2007	N001	4.90 - 4.90	11.85	F #	-	-
	C	0557	WL	01/02/2007	N001	40.00 - 40.00	14.51	F #	-	-
C	0558	WL	01/03/2007	N001	36.00 - 36.00	12.12	F #	-	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	0559	WL	01/03/2007	N001	19.00 - 19.00	14.81	F #	-	-
	C	0560	WL	01/03/2007	N001	31.00 - 31.00	13.05	F #	-	-
	C	0562	WL, WP	01/08/2007	N001	2.30 - 2.30	4.69	QF #	-	-
	C	0563	WL, WP	01/08/2007	N001	5.60 - 5.60	7.90	QF #	-	-
	C	0583	WL	01/03/2007	N001	18.00 - 18.00	14.72	F #	-	-
	C	0584	WL	01/04/2007	N001	18.00 - 18.00	13.36	F #	-	-
	C	0587	WL	01/03/2007	N001	18.00 - 18.00	14.39	F #	-	-
	C	0588	WL	01/03/2007	N001	26.00 - 26.00	13.72	F #	-	-
	C	0589	WL	01/03/2007	N001	52.00 - 52.00	13.52	F #	-	-
	C	0590	WL, WP	01/09/2007	N001	2.00 - 2.00	5.79	QF #	-	-
	C	0591	WL, WP	01/09/2007	N001	4.90 - 4.90	7.20	QF #	-	-
	C	0598	WL, WP	01/11/2007	N001	10.10 - 10.10	11.89	QF #	-	-
	C	0603	WL, WP	01/09/2007	N001	10.20 - 10.20	10.08	QF #	-	-
	C	0606	WL, WP	01/08/2007	N001	10.30 - 10.30	9.77	QF #	-	-
	C	0682	WL	01/09/2007	N001	28.00 - 28.00	15.84	F #	-	-
	C	0683	WL	01/09/2007	N001	27.00 - 27.00	12.56	F #	-	-
	C	0687	WL	01/09/2007	N001	28.00 - 28.00	14.93	F #	-	-
	C	0688	WL	01/09/2007	N001	31.00 - 31.00	14.18	F #	-	-
	C	0688	WL	01/09/2007	N001	39.00 - 39.00	14.34	F #	-	-
	C	0689	WL	01/09/2007	N001	54.00 - 54.00	12.12	F #	-	-
	C	0689	WL	01/09/2007	N001	46.00 - 46.00	12.71	F #	-	-
	C	0690	WL, WP	01/10/2007	N001	4.30 - 4.30	8.91	QF #	-	-
	C	0691	WL, WP	01/10/2007	N001	7.50 - 7.50	10.71	QF #	-	-
	C	0692	WL, WP	01/10/2007	N001	10.10 - 10.10	11.01	QF #	-	-
	C	0725	WL, WP	01/11/2007	N001	5.60 - 5.60	9.41	QF #	-	-
	C	0726	WL, WP	01/11/2007	N001	10.30 - 10.30	10.53	QF #	-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Temperature	C	0780	WL	01/02/2007	N001	28.00 - 28.00	13.88	F	#	-	-	
	C	0781	WL	01/02/2007	N001	46.00 - 46.00	13.19	F	#	-	-	
	C	0782	WL	01/02/2007	N001	33.00 - 33.00	12.94	F	#	-	-	
	C	0786	WL	01/02/2007	N001	30.00 - 30.00	12.94	F	#	-	-	
	C	0787	WL	01/02/2007	N001	36.00 - 36.00	11.46	F	#	-	-	
	C	0790	WL, WP	01/08/2007	N001	3.00 - 3.00	8.57	QF	#	-	-	
	C	0791	WL, WP	01/08/2007	N001	5.30 - 5.30	10.48	QF	#	-	-	
	C	0792	WL, WP	01/08/2007	N001	10.30 - 10.30	11.42	QF	#	-	-	
Total Dissolved Solids	mg/L	0216	SL, RIV	01/08/2007	0001	0.00 - 0.00	960		#	40	-	
	mg/L	0236	SL, RIV	01/09/2007	0001	0.00 - 0.00	1100		#	40	-	
	mg/L	0239	SL, RIV	01/09/2007	0001	0.00 - 0.00	640		#	20	-	
	mg/L	0243	SL	01/11/2007	0001	0.00 - 0.00	600		#	20	-	
	mg/L	0245	SL, RIV	01/08/2007	0001	0.00 - 0.00	1000		#	40	-	
	mg/L	0259	SL, RIV	01/10/2007	0001	0.00 - 0.00	620		#	20	-	
	mg/L	0274	SL, RIV	01/08/2007	0001	0.00 - 0.00	690		#	20	-	
	mg/L	0405	WL	01/11/2007	0001	18.00 - 18.00	6000	F	#	200	-	
	mg/L	0408	WL	01/04/2007	0001	26.00 - 26.00	16000	F	#	400	-	
	mg/L	0480	WL	01/02/2007	0001	18.00 - 18.00	17000	F	#	400	-	
	mg/L	0481	WL	01/02/2007	0001	28.00 - 28.00	22000	F	#	400	-	
	mg/L	0483	WL	01/02/2007	0001	18.00 - 18.00	13000	F	#	400	-	
	mg/L	0484	WL	01/03/2007	0001	28.00 - 28.00	32000	F	#	1000	-	
	mg/L	0488	WL	01/11/2007	0001	39.00 - 39.00	18000	F	#	400	-	
	mg/L	0493	WL	01/11/2007	0001	54.00 - 54.00	28000	F	#	2000	-	
	mg/L	0493	WL	01/11/2007	0002	54.00 - 54.00	28000	F	#	400	-	
	mg/L	0496	WL, WP	01/11/2007	0001	3.20 - 3.20	11000	QF	#	400	-	
	mg/L	0557	WL	01/02/2007	0001	40.00 - 40.00	23000	F	#	400	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Total Dissolved Solids	mg/L	0558	WL	01/03/2007	0001	36.00 - 36.00	61000	F	#		2000	-
	mg/L	0559	WL	01/03/2007	0001	19.00 - 19.00	9500	F	#		400	-
	mg/L	0559	WL	01/03/2007	0002	19.00 - 19.00	9400	F	#		400	-
	mg/L	0560	WL	01/03/2007	0001	31.00 - 31.00	65000	F	#		2000	-
	mg/L	0562	WL, WP	01/08/2007	0001	2.30 - 2.30	2400	QF	#		80	-
	mg/L	0563	WL, WP	01/08/2007	0001	5.60 - 5.60	3100	QF	#		80	-
	mg/L	0583	WL	01/03/2007	0001	18.00 - 18.00	14000	F	#		400	-
	mg/L	0584	WL	01/04/2007	0001	18.00 - 18.00	14000	F	#		400	-
	mg/L	0587	WL	01/03/2007	0001	18.00 - 18.00	11000	F	#		400	-
	mg/L	0588	WL	01/03/2007	0001	26.00 - 26.00	19000	F	#		400	-
	mg/L	0589	WL	01/03/2007	0001	52.00 - 52.00	73000	F	#		2000	-
	mg/L	0590	WL, WP	01/09/2007	0001	2.00 - 2.00	1700	QF	#		80	-
	mg/L	0591	WL, WP	01/09/2007	0001	4.90 - 4.90	4500	QF	#		200	-
	mg/L	0598	WL, WP	01/11/2007	0001	10.10 - 10.10	4200	QF	#		200	-
	mg/L	0603	WL, WP	01/09/2007	0001	10.20 - 10.20	11000	QF	#		400	-
	mg/L	0606	WL, WP	01/08/2007	0001	10.30 - 10.30	1600	QF	#		80	-
	mg/L	0682	WL	01/09/2007	0001	28.00 - 28.00	17000	F	#		400	-
	mg/L	0683	WL	01/09/2007	0001	27.00 - 27.00	16000	F	#		400	-
	mg/L	0683	WL	01/09/2007	0002	27.00 - 27.00	15000	F	#		400	-
	mg/L	0687	WL	01/09/2007	0001	28.00 - 28.00	12000	F	#		400	-
	mg/L	0688	WL	01/09/2007	0001	30.60 - 40.60	16000	F	#		400	-
	mg/L	0689	WL	01/09/2007	0001	46.00 - 46.00	28000	F	#		1000	-
	mg/L	0690	WL, WP	01/10/2007	0001	4.30 - 4.30	14000	QF	#		400	-
	mg/L	0691	WL, WP	01/10/2007	0001	7.50 - 7.50	7800	QF	#		200	-
	mg/L	0692	WL, WP	01/10/2007	0001	10.10 - 10.10	9900	QF	#		400	-
	mg/L	0725	WL, WP	01/11/2007	0001	5.60 - 5.60	2600	QF	#		80	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:		DETECTION LIMIT	UN- CERTAINTY
				DATE	ID			LAB	DATA QA		
Total Dissolved Solids	mg/L	0726	WL, WP	01/11/2007	0001	10.30 - 10.30	900	QF	#	80	-
	mg/L	0780	WL	01/02/2007	0001	28.00 - 28.00	22000	F	#	400	-
	mg/L	0781	WL	01/02/2007	0001	46.00 - 46.00	87000	F	#	2000	-
	mg/L	0782	WL	01/02/2007	0001	33.00 - 33.00	81000	F	#	2000	-
	mg/L	0786	WL	01/02/2007	0001	30.00 - 30.00	25000	F	#	1000	-
	mg/L	0787	WL	01/02/2007	0001	36.00 - 36.00	84000	F	#	2000	-
	mg/L	0790	WL, WP	01/08/2007	0001	3.00 - 3.00	980	QF	#	40	-
	mg/L	0791	WL, WP	01/08/2007	0001	5.30 - 5.30	2300	QF	#	80	-
	mg/L	0792	WL, WP	01/08/2007	0001	10.30 - 10.30	16000	QF	#	400	-
Turbidity	NTU	0405	WL	01/11/2007	N001	18.00 - 18.00	3.79	F	#	-	-
	NTU	0408	WL	01/04/2007	N001	26.00 - 26.00	9.98	F	#	-	-
	NTU	0480	WL	01/02/2007	N001	18.00 - 18.00	3.80	F	#	-	-
	NTU	0481	WL	01/02/2007	N001	28.00 - 28.00	10.0	F	#	-	-
	NTU	0483	WL	01/02/2007	N001	18.00 - 18.00	1.32	F	#	-	-
	NTU	0484	WL	01/03/2007	N001	28.00 - 28.00	10.0	F	#	-	-
	NTU	0488	WL	01/11/2007	N001	39.00 - 39.00	6.93	F	#	-	-
	NTU	0493	WL	01/11/2007	N001	54.00 - 54.00	10.0	F	#	-	-
	NTU	0557	WL	01/02/2007	N001	40.00 - 40.00	2.13	F	#	-	-
	NTU	0558	WL	01/03/2007	N001	36.00 - 36.00	0.86	F	#	-	-
	NTU	0559	WL	01/03/2007	N001	19.00 - 19.00	5.38	F	#	-	-
	NTU	0560	WL	01/03/2007	N001	31.00 - 31.00	4.31	F	#	-	-
	NTU	0562	WL, WP	01/08/2007	N001	2.30 - 2.30	219	QF	#	-	-
	NTU	0563	WL, WP	01/08/2007	N001	5.60 - 5.60	19.5	QF	#	-	-
	NTU	0583	WL	01/03/2007	N001	18.00 - 18.00	4.07	F	#	-	-
	NTU	0584	WL	01/04/2007	N001	18.00 - 18.00	5.45	F	#	-	-
NTU	0587	WL	01/03/2007	N001	18.00 - 18.00	2.58	F	#	-	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA QA		
Turbidity	NTU	0588	WL	01/03/2007	N001	26.00 - 26.00	7.90	F	#	-	-
	NTU	0589	WL	01/03/2007	N001	52.00 - 52.00	23.2	F	#	-	-
	NTU	0591	WL, WP	01/09/2007	N001	4.90 - 4.90	78.5	QF	#	-	-
	NTU	0598	WL, WP	01/11/2007	N001	10.10 - 10.10	68.8	QF	#	-	-
	NTU	0603	WL, WP	01/09/2007	N001	10.20 - 10.20	48.9	QF	#	-	-
	NTU	0606	WL, WP	01/08/2007	N001	10.30 - 10.30	279	QF	#	-	-
	NTU	0682	WL	01/09/2007	N001	28.00 - 28.00	4.14	F	#	-	-
	NTU	0683	WL	01/09/2007	N001	27.00 - 27.00	2.90	F	#	-	-
	NTU	0687	WL	01/09/2007	N001	28.00 - 28.00	2.48	F	#	-	-
	NTU	0688	WL	01/09/2007	N001	39.00 - 39.00	2.56	F	#	-	-
	NTU	0688	WL	01/09/2007	N001	31.00 - 31.00	3.44	F	#	-	-
	NTU	0689	WL	01/09/2007	N001	54.00 - 54.00	2.25	F	#	-	-
	NTU	0689	WL	01/09/2007	N001	46.00 - 46.00	7.92	F	#	-	-
	NTU	0725	WL, WP	01/11/2007	N001	5.60 - 5.60	147	QF	#	-	-
	NTU	0780	WL	01/02/2007	N001	28.00 - 28.00	4.55	F	#	-	-
	NTU	0781	WL	01/02/2007	N001	46.00 - 46.00	2.78	F	#	-	-
	NTU	0782	WL	01/02/2007	N001	33.00 - 33.00	2.27	F	#	-	-
	NTU	0786	WL	01/02/2007	N001	30.00 - 30.00	5.80	F	#	-	-
	NTU	0787	WL	01/02/2007	N001	36.00 - 36.00	5.04	F	#	-	-
	NTU	0790	WL, WP	01/08/2007	N001	3.00 - 3.00	33.5	QF	#	-	-
NTU	0791	WL, WP	01/08/2007	N001	5.30 - 5.30	19.5	QF	#	-	-	
NTU	0792	WL, WP	01/08/2007	N001	10.30 - 10.30	182	QF	#	-	-	
Uranium	mg/L	0216	SL, RIV	01/08/2007	0001	0.00 - 0.00	0.071	#		4.5E-05	-
	mg/L	0236	SL, RIV	01/09/2007	0001	0.00 - 0.00	0.045	#		4.5E-05	-
	mg/L	0239	SL, RIV	01/09/2007	0001	0.00 - 0.00	0.0087	#		9E-06	-
	mg/L	0243	SL	01/11/2007	0001	0.00 - 0.00	0.010	#		9E-06	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Uranium	mg/L	0245	SL, RIV	01/08/2007	0001	0.00 - 0.00	0.072	#	4.5E-05	-
	mg/L	0259	SL, RIV	01/10/2007	0001	0.00 - 0.00	0.012	#	9E-06	-
	mg/L	0274	SL, RIV	01/08/2007	0001	0.00 - 0.00	0.014	#	9E-06	-
	mg/L	0405	WL	01/11/2007	0001	18.00 - 18.00	2.100	F #	0.00045	-
	mg/L	0408	WL	01/04/2007	0001	26.00 - 26.00	3.300	F #	0.0009	-
	mg/L	0480	WL	01/02/2007	0001	18.00 - 18.00	3.700	F #	0.0009	-
	mg/L	0481	WL	01/02/2007	0001	28.00 - 28.00	3.100	F #	0.0009	-
	mg/L	0483	WL	01/02/2007	0001	18.00 - 18.00	2.100	F #	0.00045	-
	mg/L	0484	WL	01/03/2007	0001	28.00 - 28.00	3.000	F #	0.0009	-
	mg/L	0488	WL	01/11/2007	0001	39.00 - 39.00	2.500	F #	0.0009	-
	mg/L	0493	WL	01/11/2007	0001	54.00 - 54.00	3.100	F #	0.0009	-
	mg/L	0493	WL	01/11/2007	0002	54.00 - 54.00	3.100	F #	0.0009	-
	mg/L	0496	WL, WP	01/11/2007	0001	3.20 - 3.20	5.800	QF #	0.0018	-
	mg/L	0557	WL	01/02/2007	0001	40.00 - 40.00	3.100	F #	0.0009	-
	mg/L	0558	WL	01/03/2007	0001	36.00 - 36.00	1.900	F #	0.00045	-
	mg/L	0559	WL	01/03/2007	0001	19.00 - 19.00	1.200	F #	0.00045	-
	mg/L	0559	WL	01/03/2007	0002	19.00 - 19.00	1.200	F #	0.00045	-
	mg/L	0560	WL	01/03/2007	0001	31.00 - 31.00	1.700	F #	0.00045	-
	mg/L	0562	WL, WP	01/08/2007	0001	2.30 - 2.30	0.230	QF #	0.00009	-
	mg/L	0563	WL, WP	01/08/2007	0001	5.60 - 5.60	0.550	QF #	0.00045	-
	mg/L	0583	WL	01/03/2007	0001	18.00 - 18.00	3.600	F #	0.0009	-
	mg/L	0584	WL	01/04/2007	0001	18.00 - 18.00	3.200	F #	0.0009	-
	mg/L	0587	WL	01/03/2007	0001	18.00 - 18.00	2.200	F #	0.0009	-
	mg/L	0588	WL	01/03/2007	0001	26.00 - 26.00	2.500	F #	0.0009	-
	mg/L	0589	WL	01/03/2007	0001	52.00 - 52.00	1.400	F #	0.00045	-
	mg/L	0590	WL, WP	01/09/2007	0001	2.00 - 2.00	0.380	QF #	0.00045	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Uranium	mg/L	0591	WL, WP	01/09/2007	0001	4.90 - 4.90	0.700	QF #	0.00045	-
	mg/L	0598	WL, WP	01/11/2007	0001	10.10 - 10.10	1.800	QF #	0.00045	-
	mg/L	0603	WL, WP	01/09/2007	0001	10.20 - 10.20	1.100	QF #	0.00045	-
	mg/L	0606	WL, WP	01/08/2007	0001	10.30 - 10.30	0.310	QF #	0.00009	-
	mg/L	0682	WL	01/09/2007	0001	28.00 - 28.00	2.000	F #	0.00045	-
	mg/L	0683	WL	01/09/2007	0001	27.00 - 27.00	2.000	F #	0.00045	-
	mg/L	0683	WL	01/09/2007	0002	27.00 - 27.00	2.100	F #	0.0009	-
	mg/L	0687	WL	01/09/2007	0001	28.00 - 28.00	1.900	F #	0.00045	-
	mg/L	0688	WL	01/09/2007	0001	30.60 - 40.60	2.300	F #	0.00045	-
	mg/L	0689	WL	01/09/2007	0001	46.00 - 46.00	3.100	F #	0.0009	-
	mg/L	0690	WL, WP	01/10/2007	0001	4.30 - 4.30	2.800	QF #	0.0009	-
	mg/L	0691	WL, WP	01/10/2007	0001	7.50 - 7.50	1.300	QF #	0.00045	-
	mg/L	0692	WL, WP	01/10/2007	0001	10.10 - 10.10	1.500	QF #	0.00045	-
	mg/L	0725	WL, WP	01/11/2007	0001	5.60 - 5.60	0.210	QF #	0.00009	-
	mg/L	0726	WL, WP	01/11/2007	0001	10.30 - 10.30	0.360	QF #	0.00009	-
	mg/L	0780	WL	01/02/2007	0001	28.00 - 28.00	3.500	F #	0.0009	-
	mg/L	0781	WL	01/02/2007	0001	46.00 - 46.00	0.250	F #	0.00009	-
	mg/L	0782	WL	01/02/2007	0001	33.00 - 33.00	0.600	F #	0.00045	-
	mg/L	0786	WL	01/02/2007	0001	30.00 - 30.00	3.000	F #	0.0009	-
	mg/L	0787	WL	01/02/2007	0001	36.00 - 36.00	0.160	F #	4.5E-05	-
	mg/L	0790	WL, WP	01/08/2007	0001	3.00 - 3.00	0.100	QF #	0.00009	-
	mg/L	0791	WL, WP	01/08/2007	0001	5.30 - 5.30	0.160	QF #	0.00009	-
	mg/L	0792	WL, WP	01/08/2007	0001	10.30 - 10.30	0.830	QF #	0.00045	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site

REPORT DATE: 3/28/2007 10:54 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
-----------	-------	-------------	-------------------	--------------	----	----------------------	--------	-------------------------	-----------------	--------------

RECORDS: SELECTED FROM USEE200 WHERE site_code='MOA01' AND quality_assurance = TRUE AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%N%' AND data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND DATE_SAMPLED between #1/2/2007# and #1/11/2007#

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

LOCATION TYPES: SL SURFACE LOCATION WL WELL

LOCATION SUBTYPES: RIV River WP Well Point

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- > Result above upper detection limit.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: 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
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Z Laboratory defined (USEPA CLP organic) 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. | N Presumptive evidence that analyte is present. The analyte is "tentatively identified". | 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.

Water Level Data

STATIC WATER LEVELS (USEE700) FOR SITE MOA01, Moab Site
REPORT DATE: 3/28/2007

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Measurement Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)	Water Level Flag
0405	O	3968.47	01/11/2007	09:13:00	14.1	3954.37	
0408	O	3969.17	01/04/2007	10:02:00	15.4	3953.77	
0480		3968.65	01/02/2007	13:37:00	15.79	3952.86	
0481		3968.83	01/02/2007	14:03:00	15.69	3953.14	
0483		3968.9	01/02/2007	15:03:00	16.07	3952.83	
0484		3969.19	01/03/2007	08:45:00	16.32	3952.87	
0488		3968.48	01/11/2007	08:42:00	13.99	3954.49	
0493		3967.89	01/11/2007	09:40:00	13.59	3954.3	
0496		3956.98	01/11/2007	10:35:00	2.87	3954.11	
0497		3957.73	01/11/2007	10:28:00	3.96	3953.77	
0557		3968.85	01/02/2007	14:37:00	15.45	3953.4	
0558		3968.79	01/03/2007	10:00:00	16.08	3952.71	
0559		3969.92	01/03/2007	11:27:00	17.15	3952.77	
0560		3968.77	01/03/2007	10:37:00	15.88	3952.89	
0562		3955.37	01/08/2007	14:20:00	2.81	3952.56	
0563		3958.04	01/08/2007	13:45:00	3.23	3954.81	
0583		3969.64	01/03/2007	14:02:00	16.1	3953.54	
0584		3969.13	01/04/2007	09:22:00	15.47	3953.66	
0587		3968.89	01/03/2007	15:36:00	15.33	3953.56	
0588		3968.82	01/03/2007	16:05:00	15.28	3953.54	
0589		3968.87	01/03/2007	14:39:00	15.02	3953.85	
0590		3956.19	01/09/2007	09:33:00	3.24	3952.95	
0591		3955.2	01/09/2007	08:54:00	1.97	3953.23	
0598		3957.01	01/11/2007	10:54:00	2.92	3954.09	
0603		3955.1	01/09/2007	09:05:00	1.63	3953.47	
0606		3955.69	01/08/2007	14:00:00	3.08	3952.61	
0682		3970.18	01/09/2007	14:08:00	16.15	3954.03	
0683		3970.73	01/09/2007	16:15:00	16.56	3954.17	
0687		3969.09	01/09/2007	15:03:00	15.02	3954.07	

STATIC WATER LEVELS (USEE700) FOR SITE MOA01, Moab Site
REPORT DATE: 3/28/2007

Location Code	Flow Code	Top of Casing Elevation (Ft)	Measurement Date	Measurement Time	Depth From Top of Casing (Ft)	Water Elevation (Ft)	Water Level Flag
0688		3968.66	01/09/2007	14:29:00	14.64	3954.02	
0689		3968.66	01/09/2007	15:22:00	14.82	3953.84	
0690		3963.83	01/10/2007	14:43:00	5.64	3958.19	
0691		3962.7	01/10/2007	15:13:00	4.55	3958.15	
0692		3962.29	01/10/2007	15:02:00	4.02	3958.27	
0724		3959.11	01/11/2007	12:30:00			D
0725		3959.95	01/11/2007	12:08:00	5.57	3954.38	
0726		3958.81	01/11/2007	11:42:00	4.36	3954.45	
0780		3968.45	01/02/2007	10:15:00	16.4		
0781		3968.56	01/02/2007	11:12:00	16.46		
0782		3968.46	01/02/2007	10:48:00	16.22		
0786		3968.14	01/02/2007	09:24:00	15.91		
0787		3968.43	01/02/2007	09:53:00	16.5		
0790		3955.2	01/08/2007	09:48:00	3.1	3952.1	
0791		3954.76	01/08/2007	10:03:00	2.65	3952.11	
0792		3954.84	01/08/2007	10:18:00	2.6	3952.24	

FLOW CODES: B BACKGROUND C CROSS GRADIENT D DOWN GRADIENT O ON SITE
 U UPGRADIENT

WATER LEVEL FLAGS: D Dry

Blanks Report

BLANKS REPORT
LAB: PARAGON (Fort Collins, CO)
RIN: 06120631
Report Date: 3/28/2007

Parameter	Site Code	Location ID	Sample		Units	Result	Qualifiers		Detection Limit	Uncertainty	Sample Type
			Date	ID			Lab	Data			
Ammonia Total as N	MOA01	0999	01/11/2007	0001	mg/L	.1	U		.1		E
Bromide	MOA01	0999	01/11/2007	0001	mg/L	.2	U		.2		E
Chloride	MOA01	0999	01/11/2007	0001	mg/L	.2	U		.2		E
Sulfate	MOA01	0999	01/11/2007	0001	mg/L	.63			.5		E
Total Dissolved Solids	MOA01	0999	01/11/2007	0001	mg/L	20	U		20		E
Uranium	MOA01	0999	01/11/2007	0001	mg/L	.000062	B U		.000009		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:

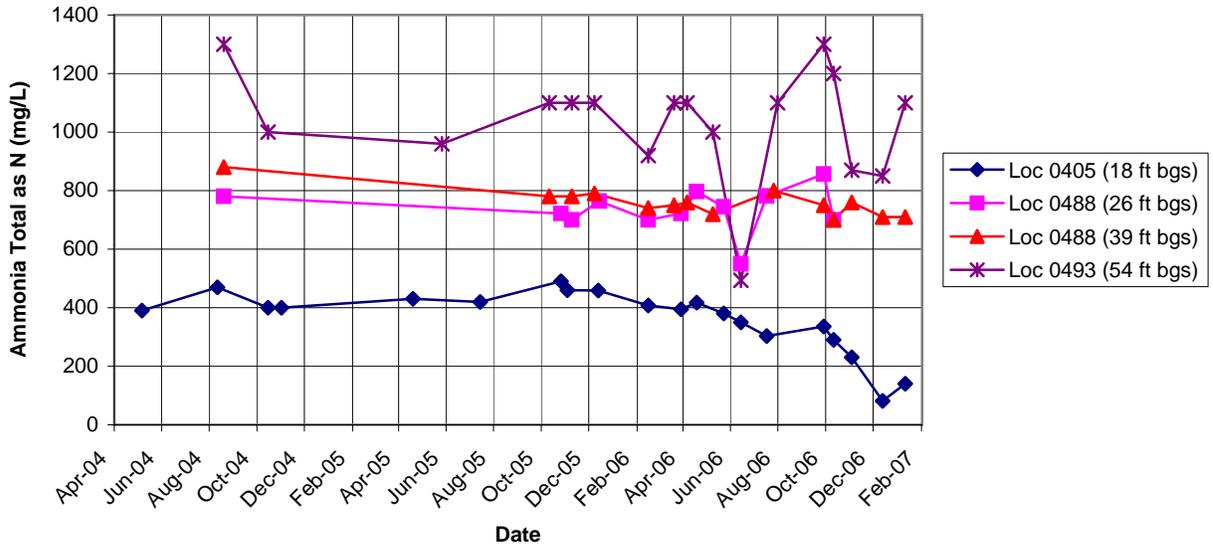
- F Low flow sampling method used.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- G Possible grout contamination, pH > 9.
- Q Qualitative result due to sampling technique.
- X Location is undefined.
- J Estimated value.
- R Unusable result.

SAMPLE TYPES:

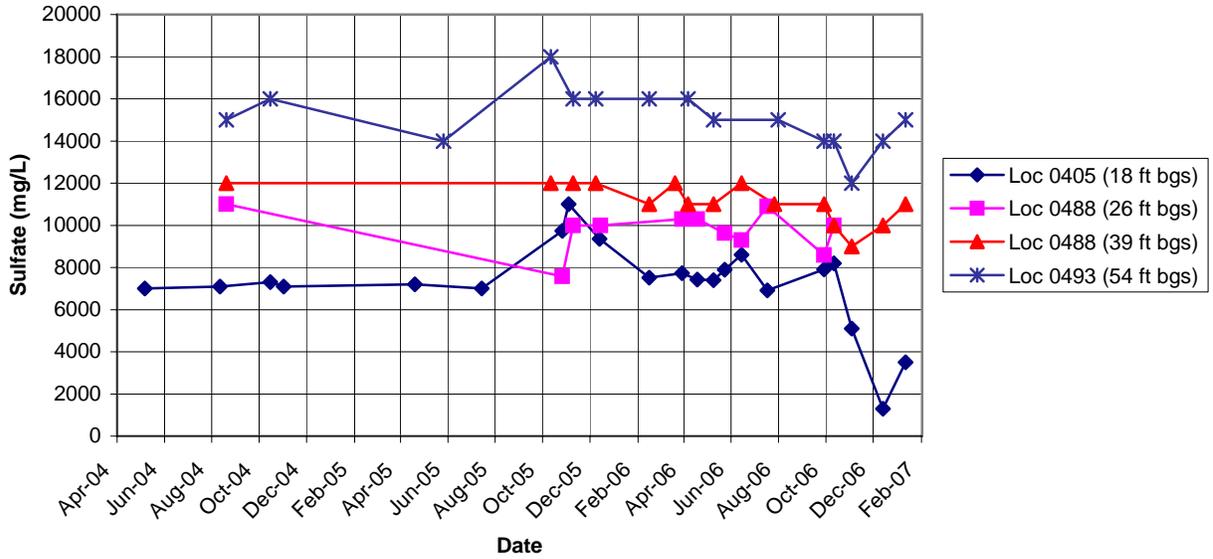
- E Equipment Blank.

Time Versus Concentration Graphs

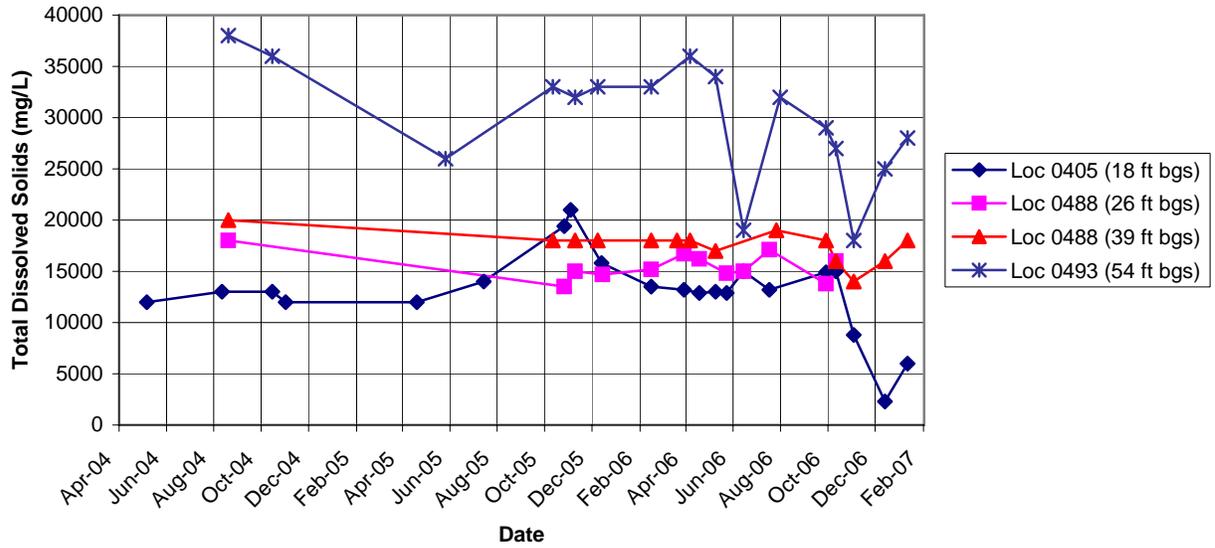
**Moab Site
Baseline Area
Ammonia Total as N Concentration**



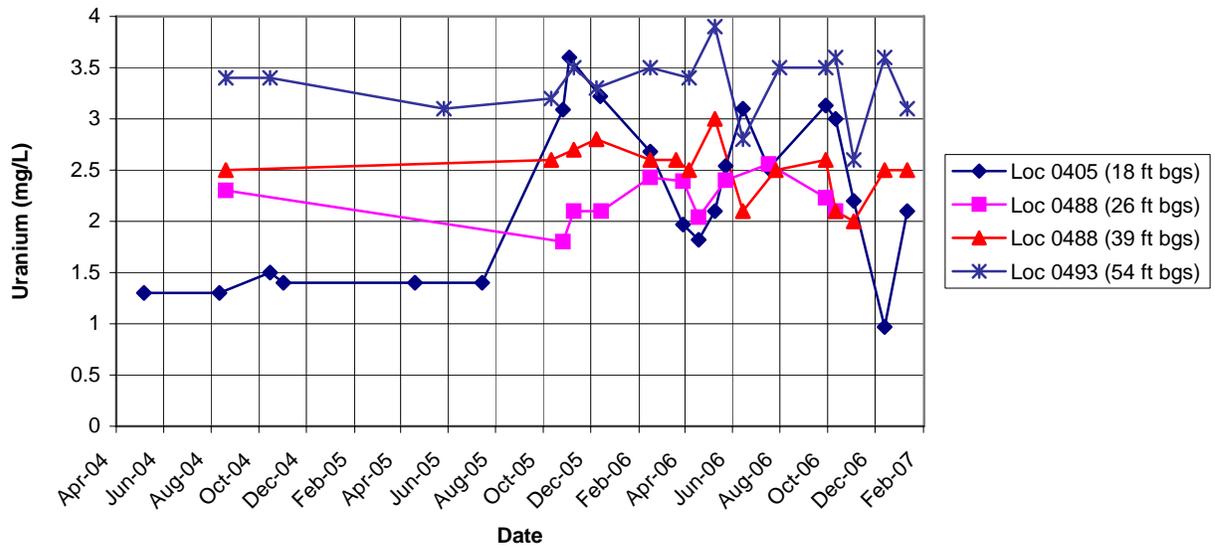
**Moab Site
Baseline Area
Sulfate Concentration**



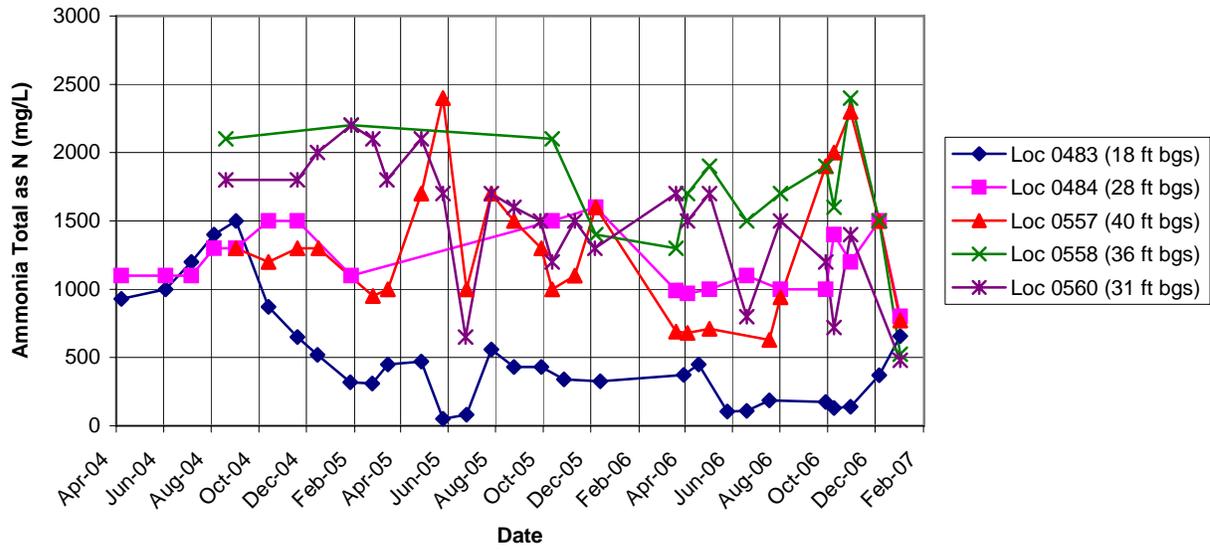
**Moab Site
Baseline Area
Total Dissolved Solids Concentration**



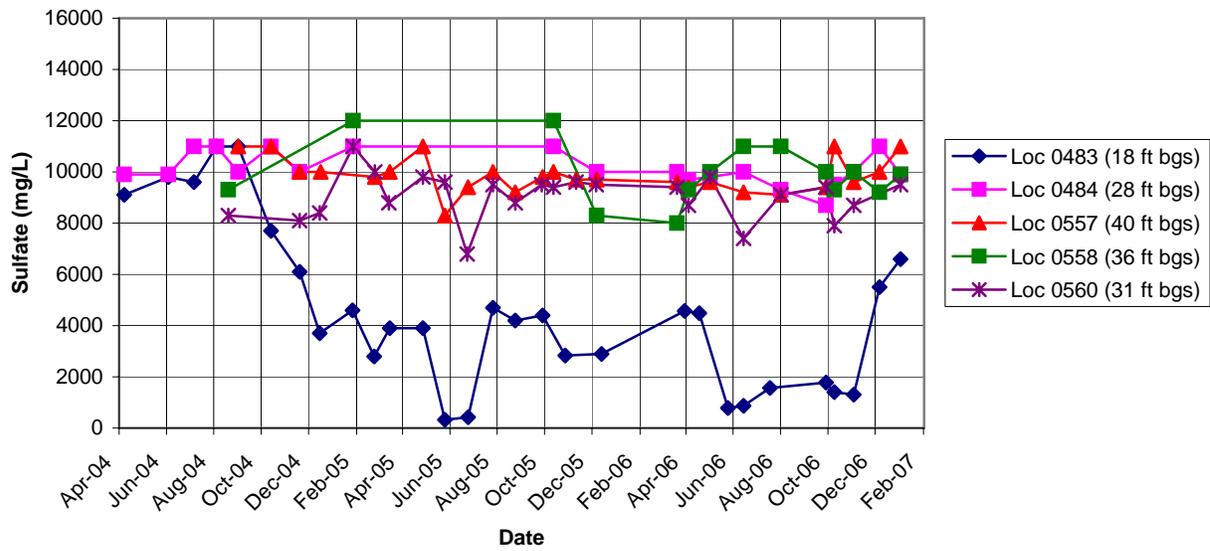
**Moab Site
Baseline Area
Uranium Concentration**



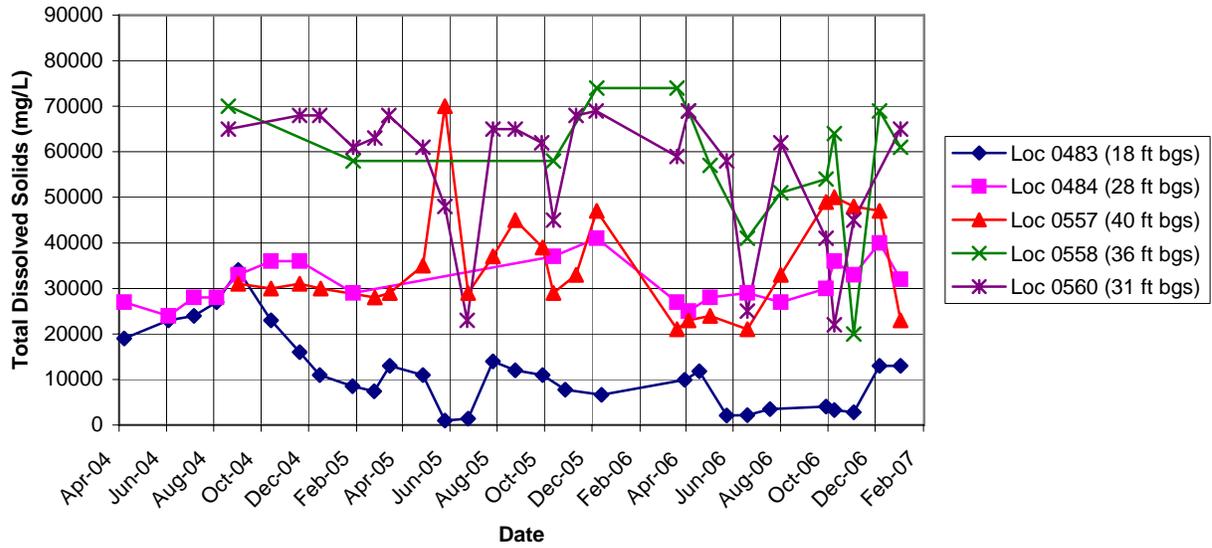
Moab Site
Configuration 1 Observation Wells
Ammonia Total as N



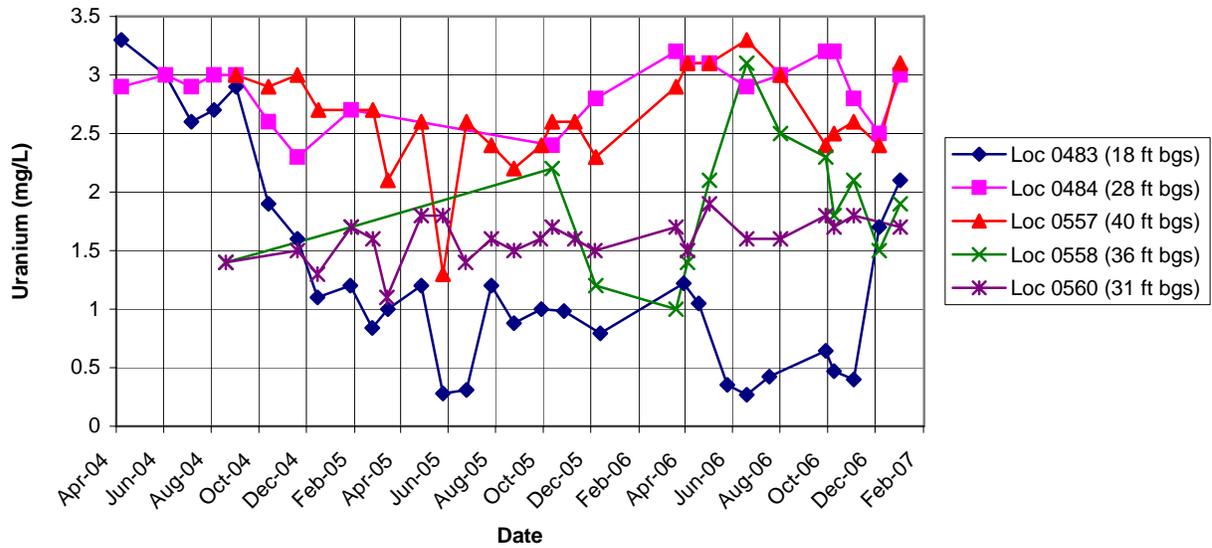
Moab Site
Configuration 1 Observation Wells
Sulfate



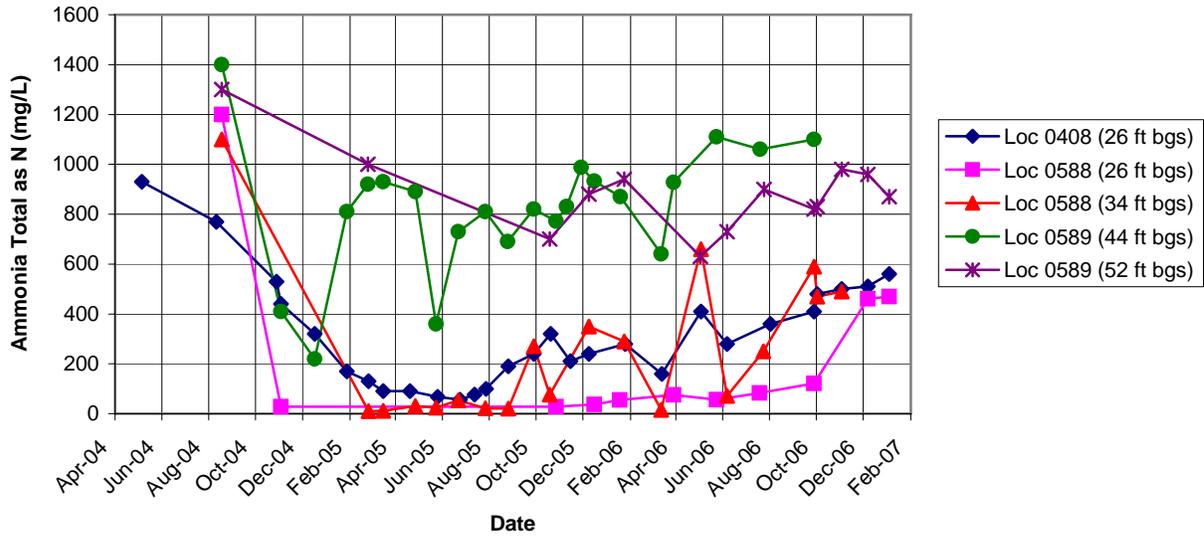
**Moab Site
Configuration 1 Observation Wells
Total Dissolved Solids**



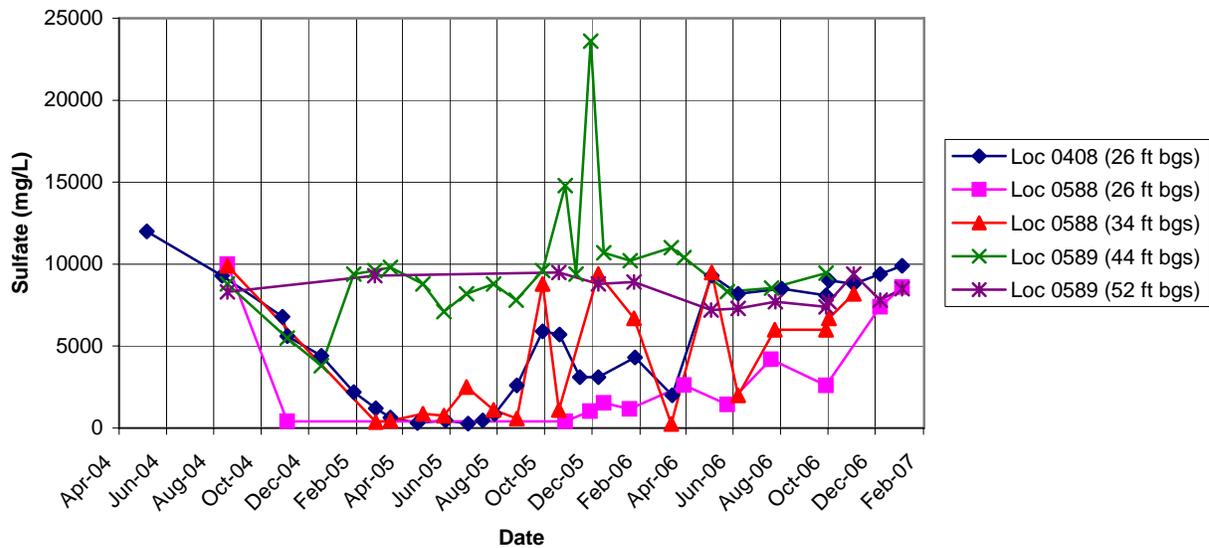
**Moab Site
Configuration 1 Observation Wells
Uranium**



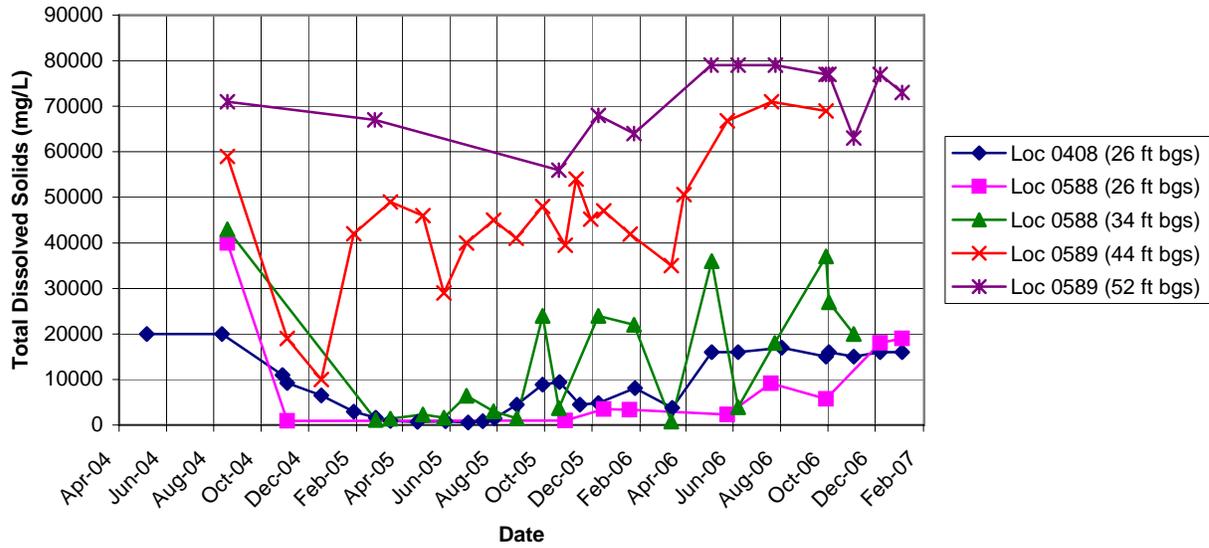
**Moab Site
Configuration 2 Well Field
Ammonia Total as N Concentration**



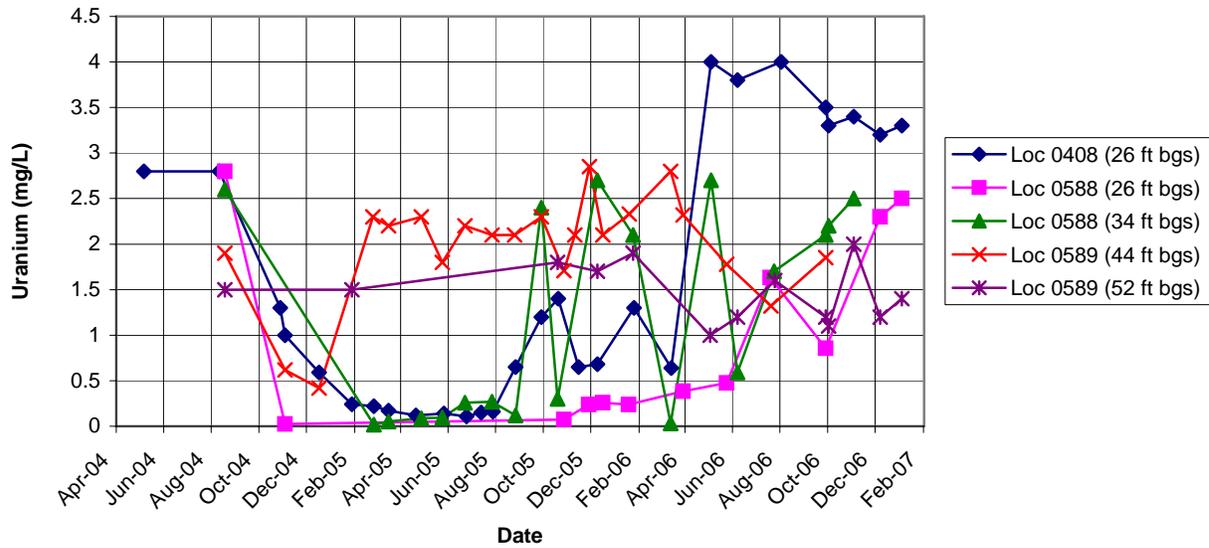
**Moab Site
Configuration 2 Well Field
Sulfate Concentration**



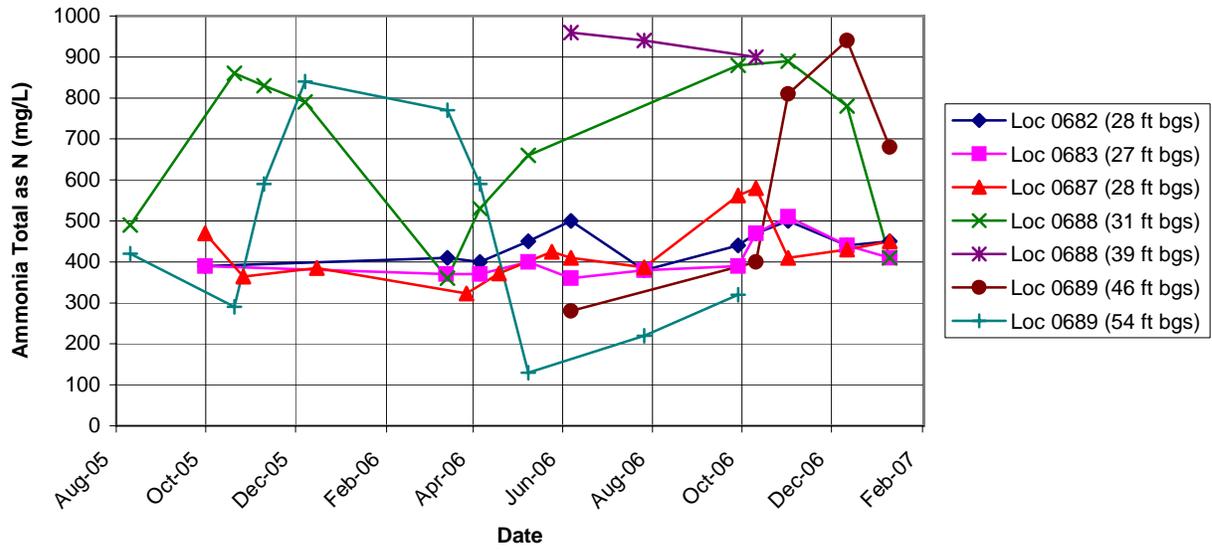
**Moab Site
Configuration 2 Well Field
Total Dissolved Solids Concentration**



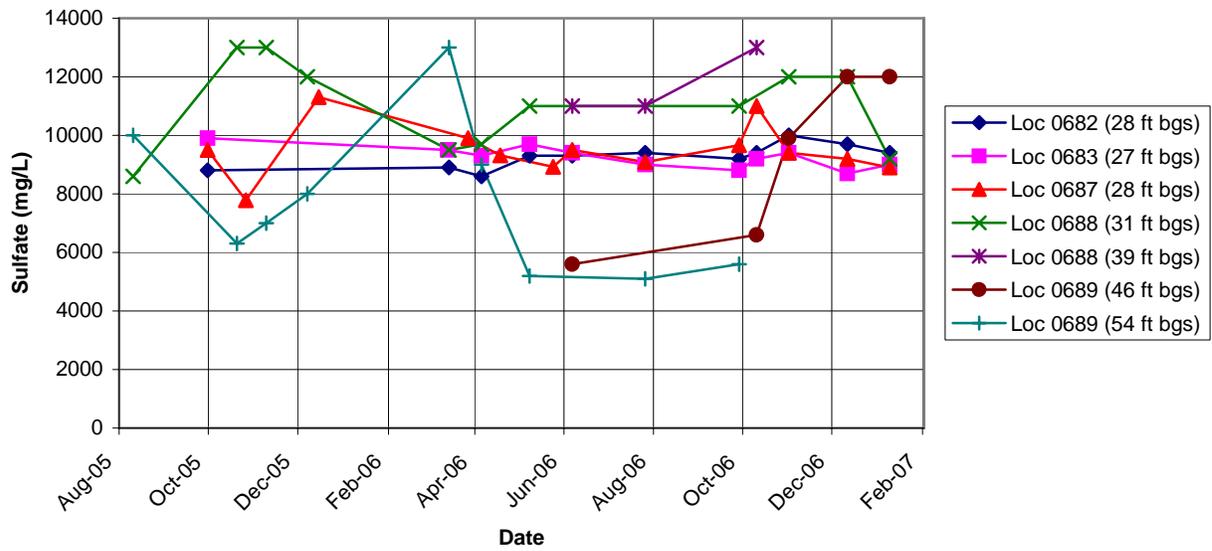
**Moab Site
Configuration 2 Well Field
Uranium Concentration**



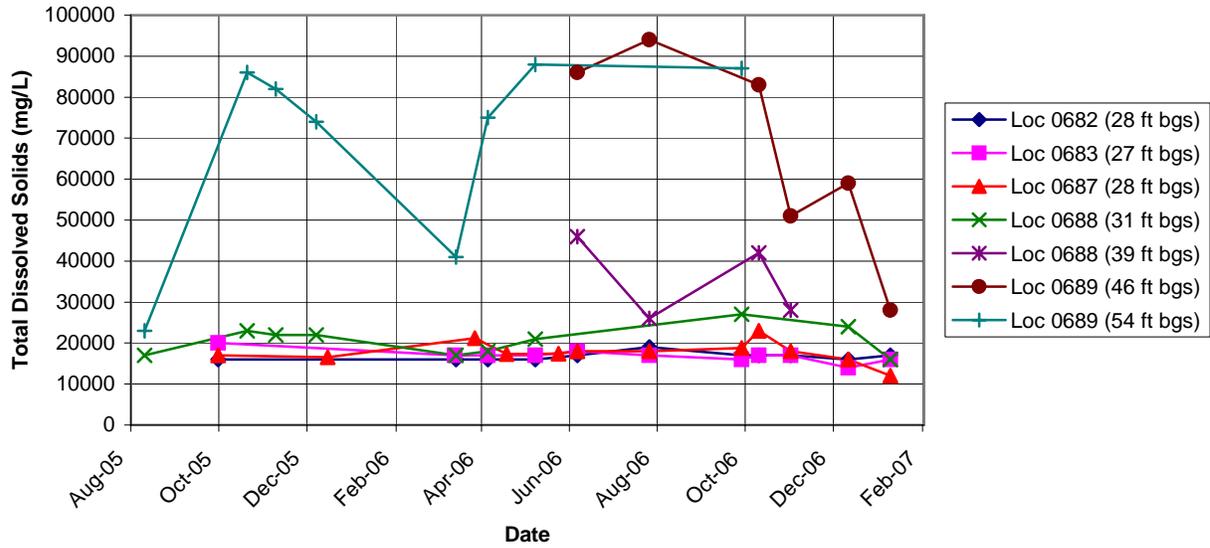
Moab Site
Configuration 3 Observation Wells
Ammonia Total as N



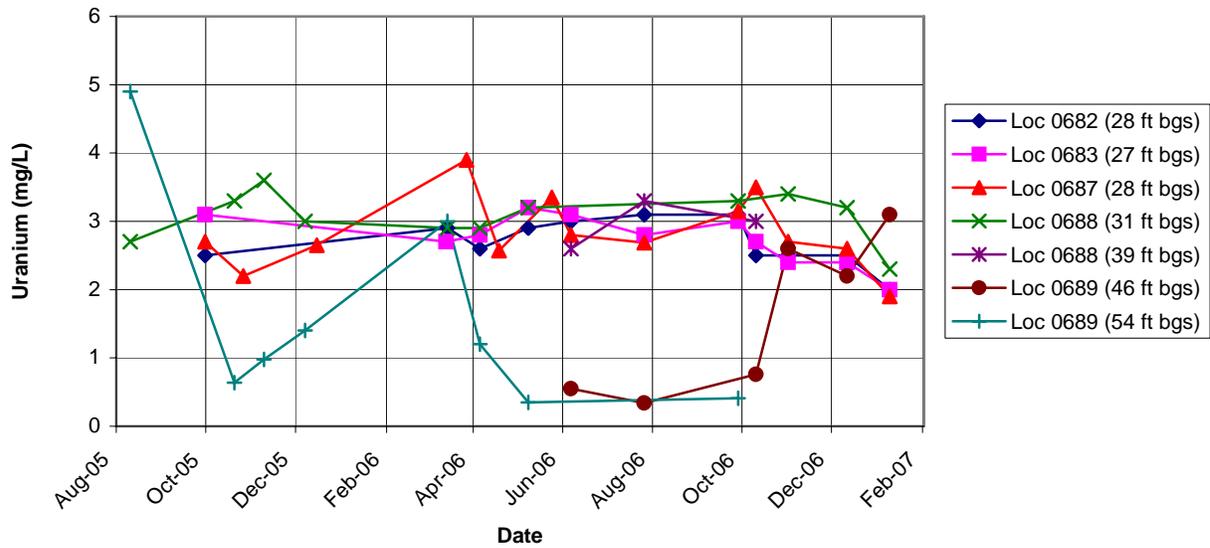
Moab Site
Configuration 3 Observation Wells
Sulfate



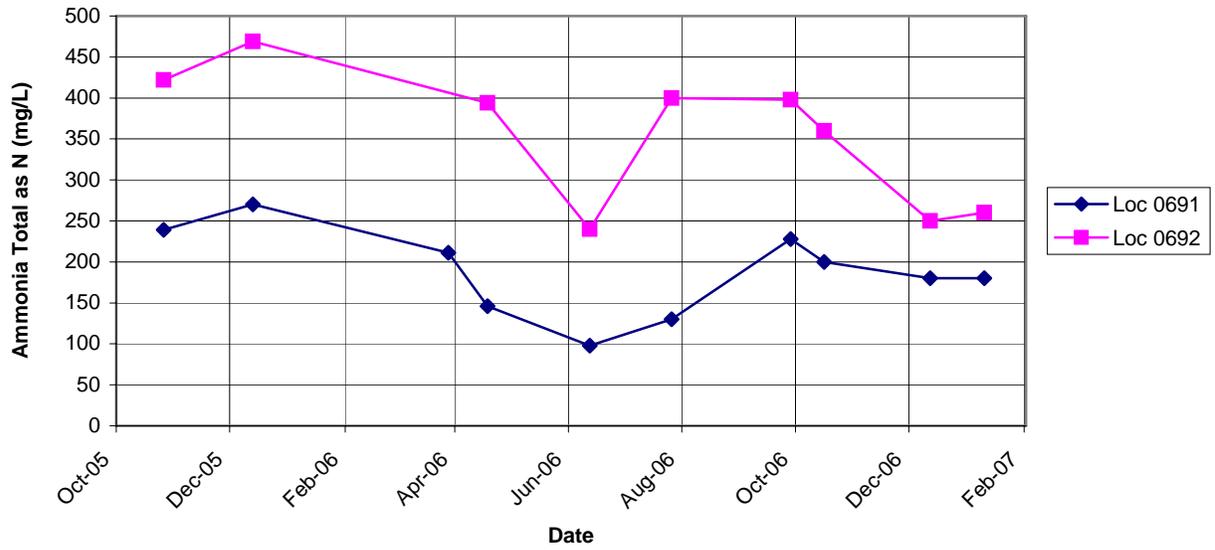
**Moab Site
Configuration 3 Observation Wells
Total Dissolved Solids**



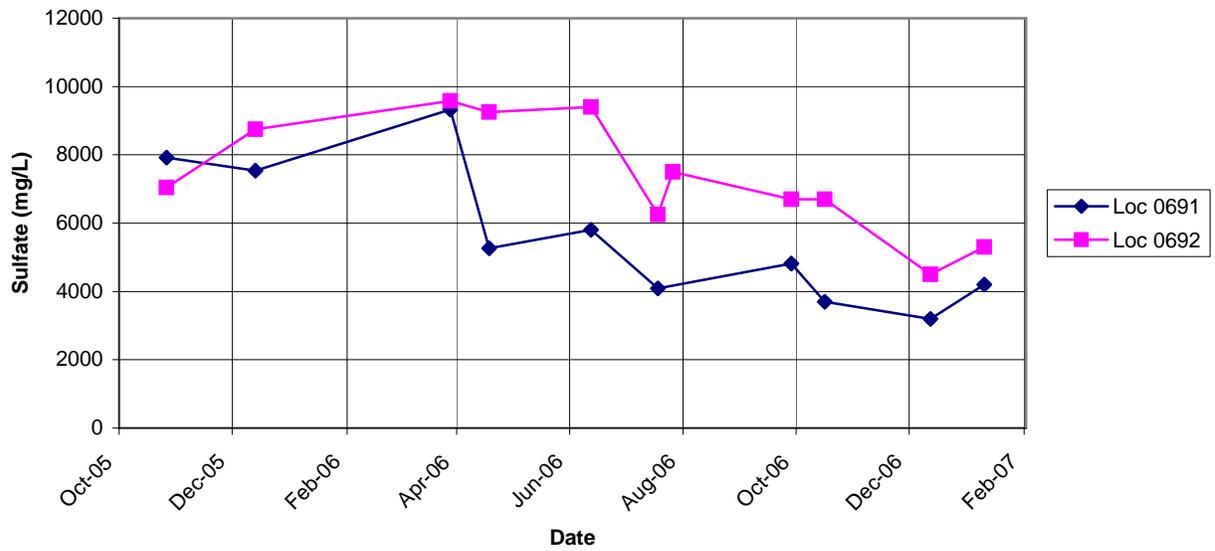
**Moab Site
Configuration 3 Observation Wells
Uranium**



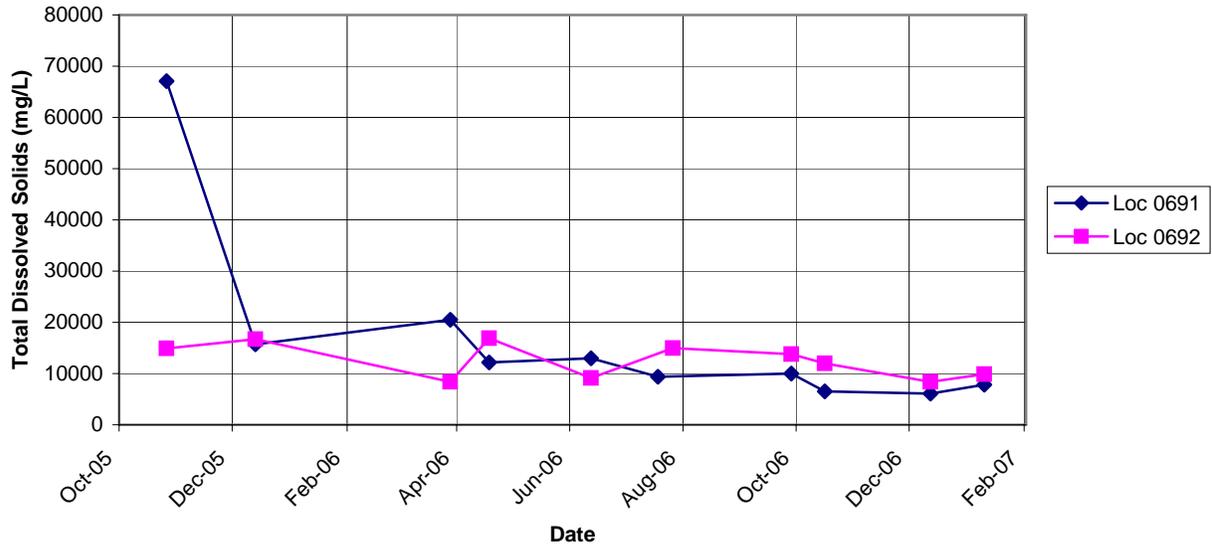
**Moab Site
Configuration 3 Piezometers
Ammonia Total as N Concentration**



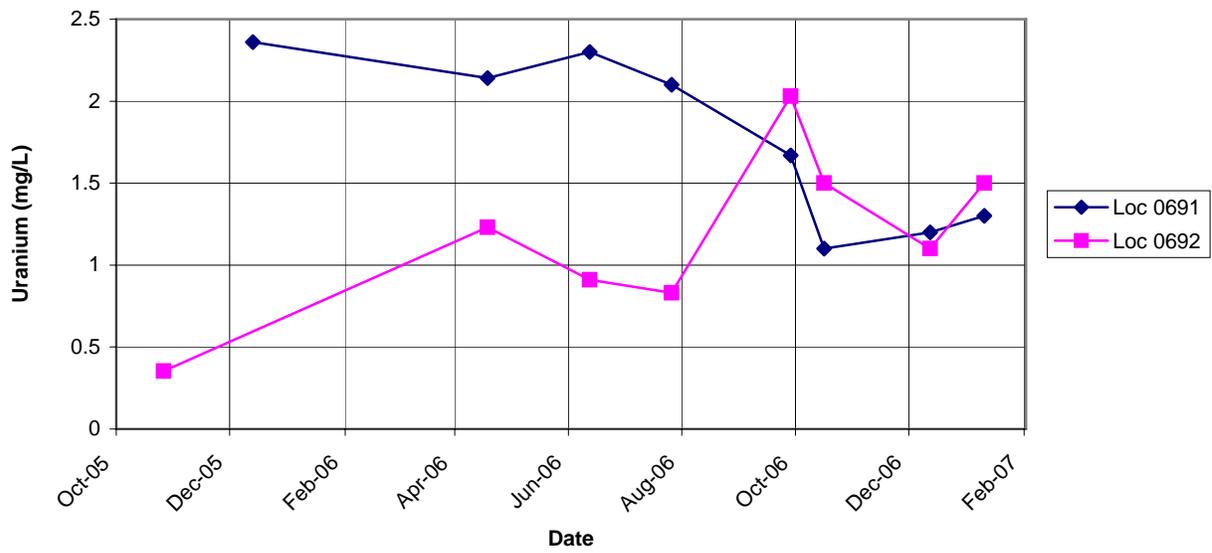
**Moab Site
Configuration 3 Piezometers
Sulfate Concentration**



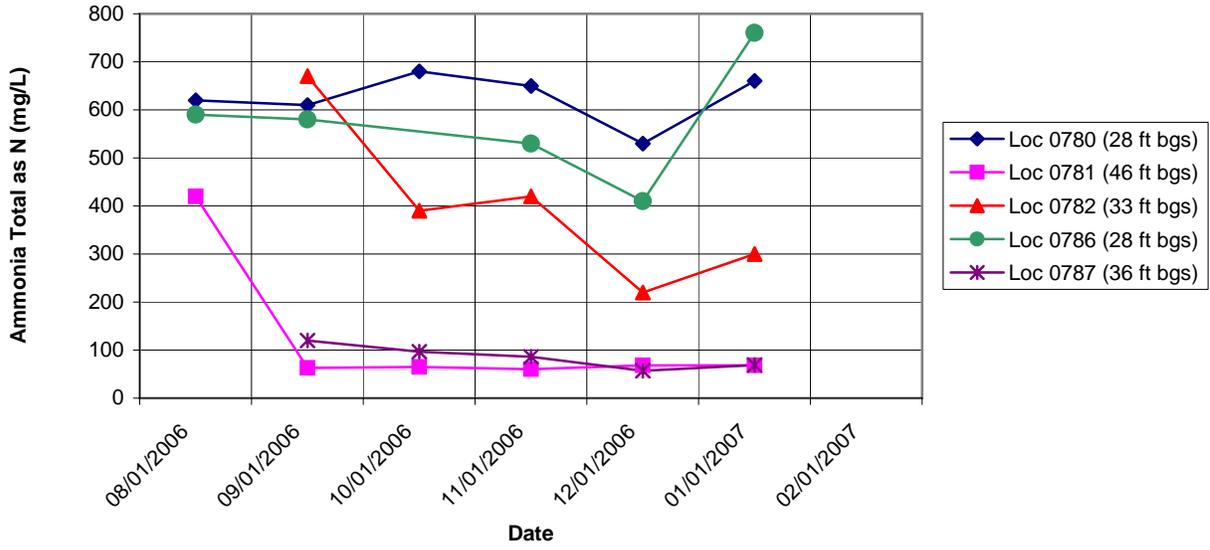
Moab Site
Configuration 3 Piezometers
Total Dissolved Solids Concentration



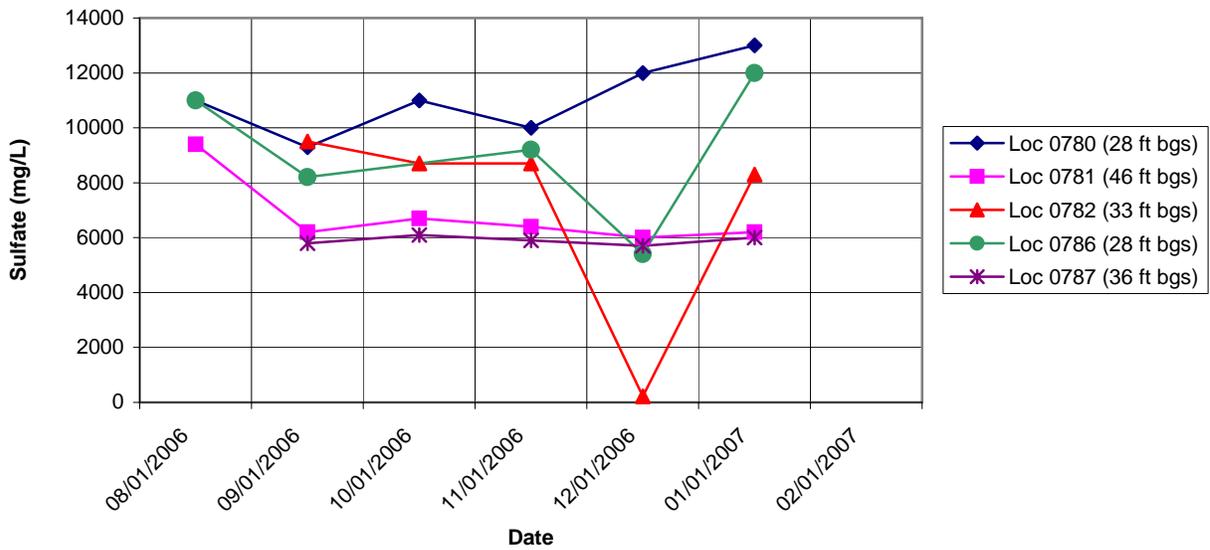
Moab Site
Configuration 3 Piezometers
Uranium Concentration



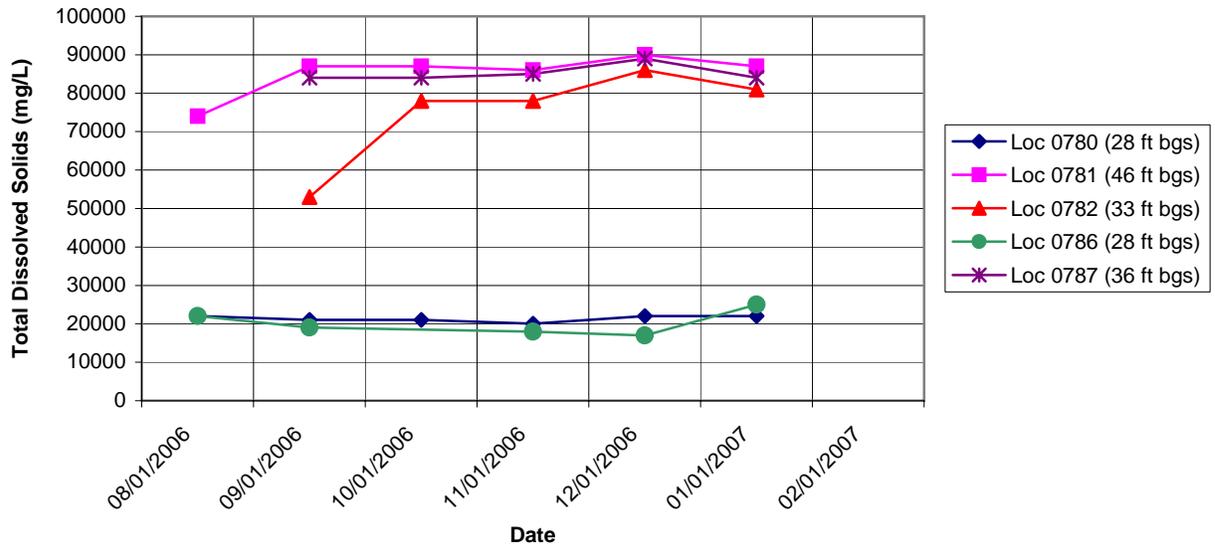
Moab Site
Configuration 4 Observation Wells
Ammonia Total as N



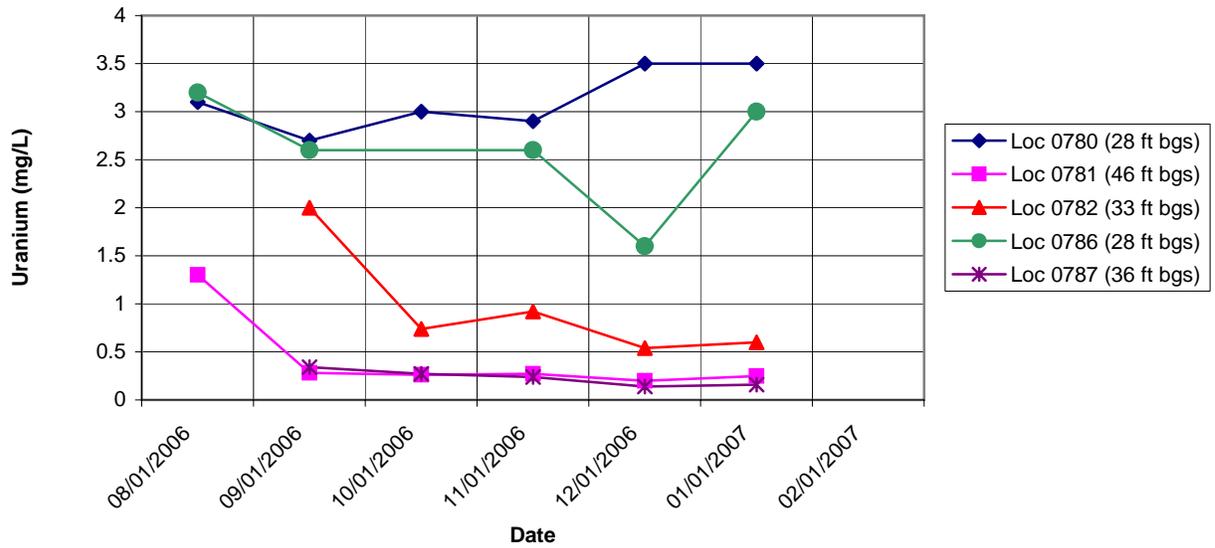
Moab Site
Configuration 4 Observation Wells
Sulfate



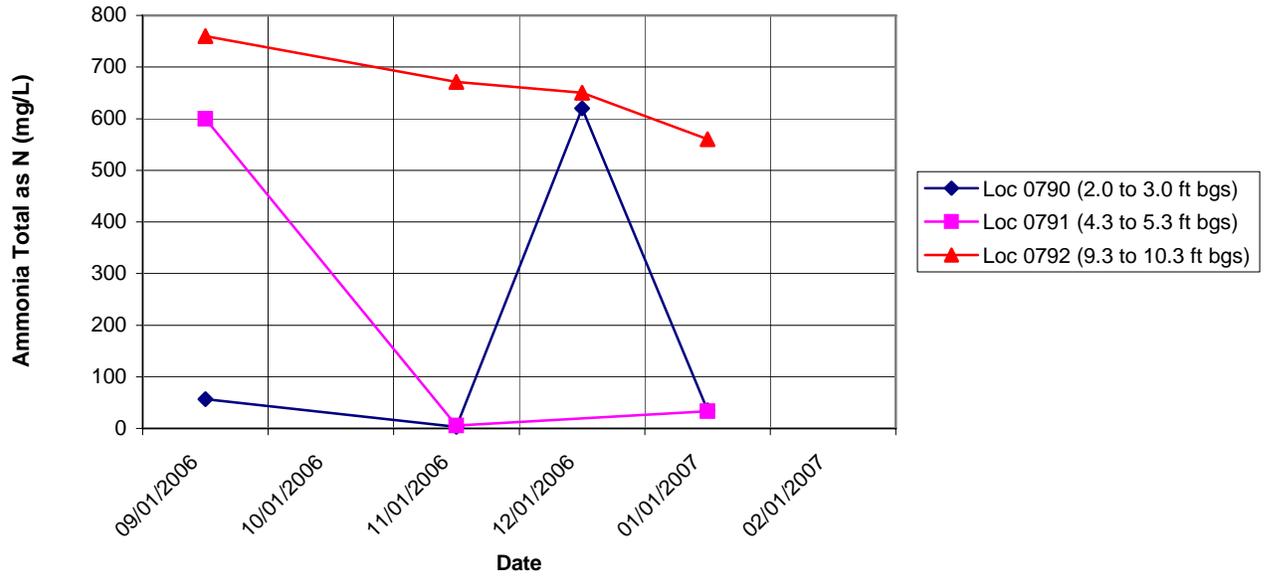
**Moab Site
Configuration 4 Observation Wells
Total Dissolved Solids**



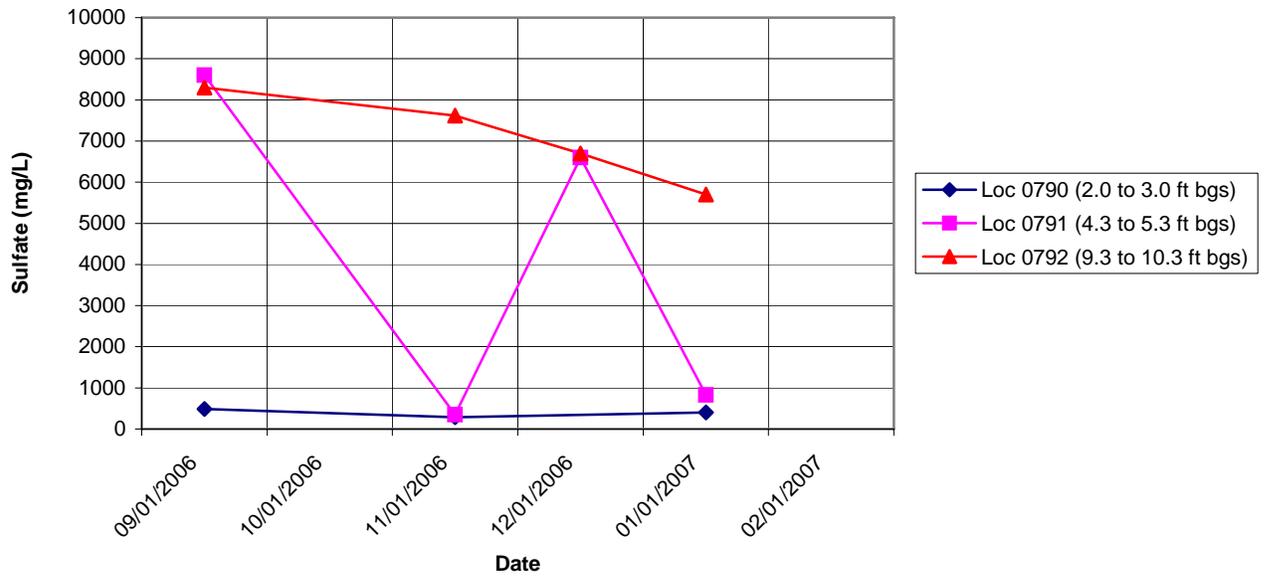
**Moab Site
Configuration 4 Observation Wells
Uranium**



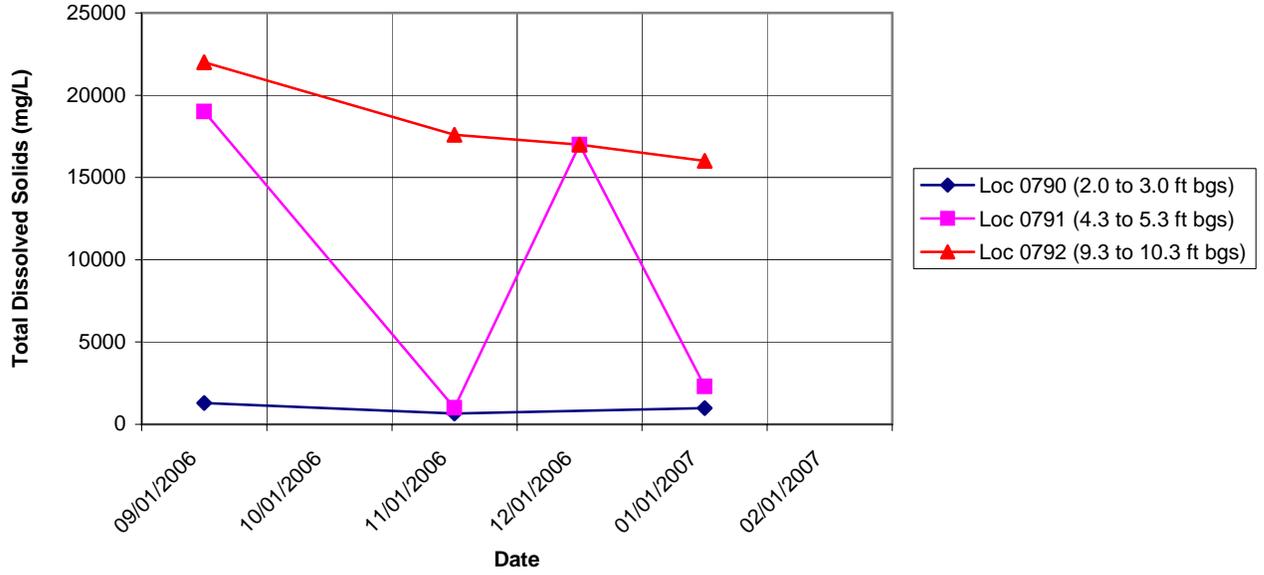
Moab Site
Configuration 4 Piezometers
Ammonia Total as N



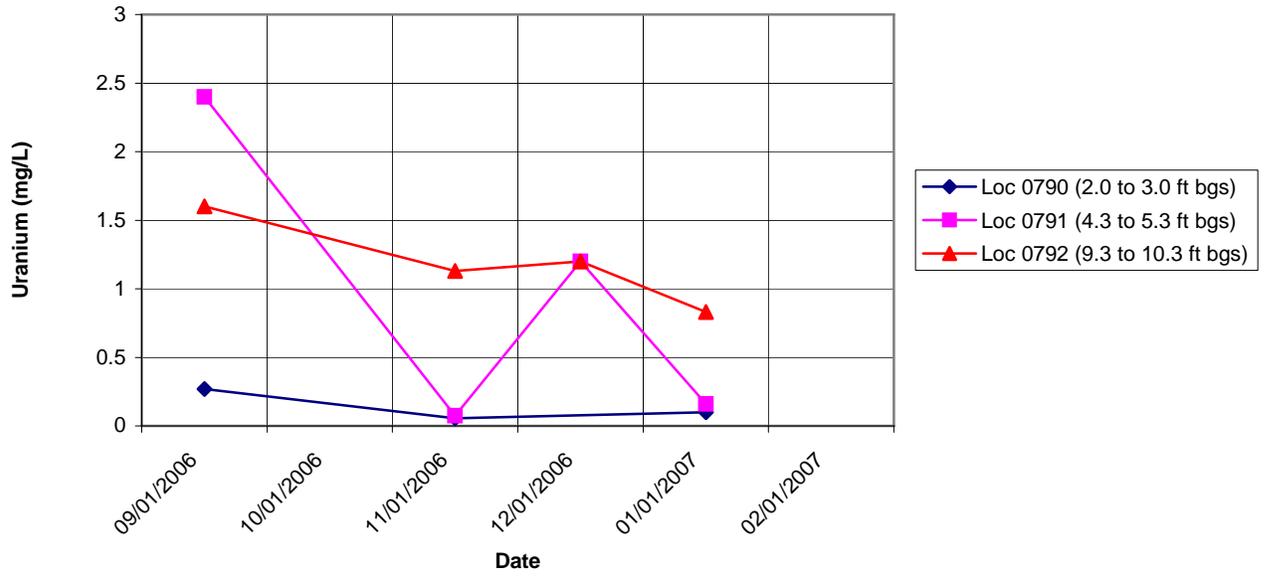
Moab Site
Configuration 4 Piezometers
Sulfate



Moab Site
Configuration 4 Piezometers
Total Dissolved Solids



Moab Site
Configuration 4 Piezometers
Uranium



Attachment 2

Trip Report

DATE: January 17, 2007

TO: John Ford

FROM: E. M. Glowiak

SUBJECT: Trip Report

Site: Moab – Interim Action Well Field Monthly Sampling – January 2007

Date of Sampling Event: January 2–11, 2007

Team Members: Elizabeth Glowiak, Steve Back

RIN Number Assigned: All samples were assigned to RIN 06120631.

Sample Shipment: All samples were shipped in a cooler overnight FedEx to Paragon Analytics, Inc. from Moab, Utah, on January 4 and 11, 2007 (Airbill Nos. 8566 6390 1257 and 8566 6390 1268).

January 2007 Configuration 1 Sampling

Number of Locations Sampled: Eight observation wells (0480, 0481, 0483, 0484, 0557, 0558, 0560, 0559), three piezometers (0562, 0563, 0606), and two surface water locations (0216, 0245) were sampled. Including one duplicate, a total of 14 samples were collected.

Locations Not Sampled/Reason: The Interim Action well field system was not running in the month of January; therefore, the remediation wells and locations 0547 and 0548 (evaporation pond inlet and outlet) were not sampled.

Field Variance: None.

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

False ID	True ID	Sample Type	Associated Matrix	Ticket Number
2449	0559	Duplicate from 19 ft bgs	Ground water	NEV 114

Location-Specific Information – Observation Wells: All observation wells were sampled using micro-purge techniques with a peristaltic pump and dedicated downhole tubing. New pump-head tubing was used to sample each well. Sample depths and water levels for each observation well are listed below.

Well No.	Date	Time	Depth to Water (ft btoc)	Sample Depth (ft bgs)
0480	01/02/2007	13:37	15.79	18
0481	01/02/2007	14:03	15.69	28
0483	01/02/2007	15:03	16.07	18
0484	01/03/2007	08:45	16.32	28
0557	01/02/2007	14:37	15.45	40
0558	01/03/2007	10:00	16.08	36
0559	01/03/2007	11:27	17.15	19
0560	01/03/2007	10:37	15.88	31

btoc = below top of casing

Location-Specific Information – Piezometer Sampling: The table below presents the water level, stick-up height, and depth to the river surface prior to the initial purge. The following Configuration 1 piezometers were sampled.

PZ No.	Date	Time	Depth to Water (ft btoc)	Stick-Up Height (ft)	Depth to River Surface (ft btoc)
0562	01/08/2007	14:20	2.81	2.12	Dry at base
0563	01/08/2007	13:45	3.23	0.75	Dry at base
0606	01/08/2007	14:00	3.08	1.14	Dry at base



Configuration 1 river edge piezometers and surface water location 0216.



Surface water location 0245.

January 2007 Configuration 2 Sampling

Number of Locations Sampled: Six Configuration 2 observation wells (0408, 0583, 0584, 0587, 0588, 0589), three piezometers (0590, 0591, 0603), and two surface water locations (0236, 0239) were sampled. A total of 11 samples were collected.

Locations Not Sampled/Reason: The Interim Action well field system was not running in the month of January; therefore, the remediation wells were not sampled. Surface water location 0240 was dry.

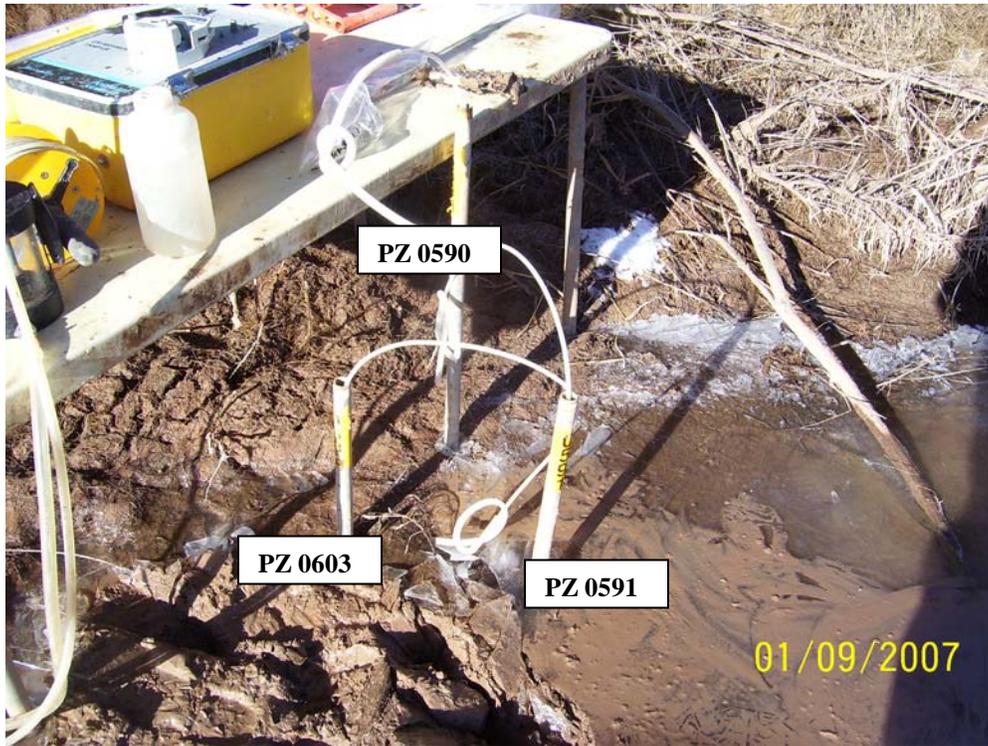
Field Variance: None.

Location-Specific Information – Observation Wells: All observation wells were sampled using micro-purge techniques with a peristaltic pump and dedicated downhole tubing. New pump-head tubing was used to sample each well. Sample depths and water levels for each observation well are listed below.

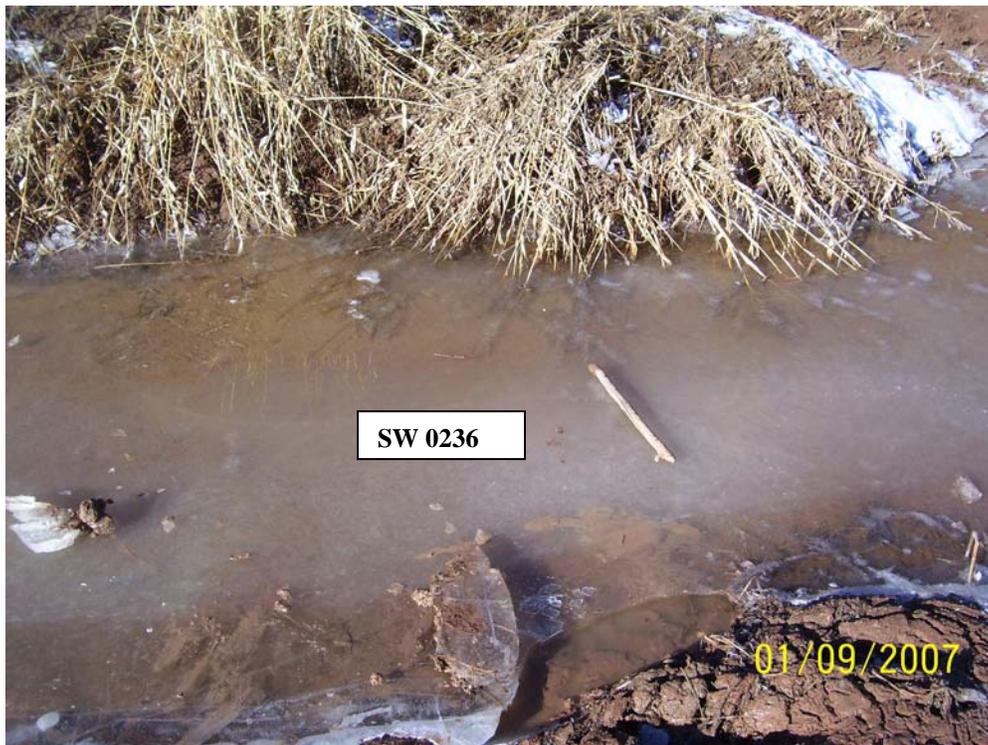
Well No.	Date	Time	Depth to Water (ft btoc)	Sample Depth (ft bgs)
0408	01/04/2007	10:02	15.40	26
0583	01/03/2007	14:02	16.10	18
0584	01/04/2007	09:22	15.47	18
0587	01/03/2007	15:36	15.33	18
0588	01/03/2007	16:05	15.28	26
0589	01/03/2007	14:39	15.02	52

Location-Specific Information – Piezometer Sampling: The table below presents the water level, stick-up height, and depth to the river surface prior to the initial purge. The following Configuration 2 piezometers were sampled.

PZ No.	Date	Time	Depth to Water (ft btoc)	Stick-Up Height (ft)	Depth to River Surface (ft btoc)
0590	01/09/2007	09:33	3.24	2.21	Dry at base
0591	01/09/2007	08:54	1.97	1.31	Dry at base
0603	01/09/2007	09:05	1.63	1.20	Dry at base



Configuration 2 riverbank piezometers.



Surface water location 0236.



Surface water location 0239.

January 2007 Configuration 3 Sampling

Number of Locations Sampled: Five observation wells (0682, 0683, 0687, 0688 at 31ft, 0689 at 46 ft), three piezometers (0690, 0691, 0692), and one surface water location (0259) were sampled. Including one duplicate, a total of 10 samples were collected.

Locations in Which Field Parameters Were Measured Only: Parameters were measured at locations 0688 at 39 ft and 0689 at 54 ft.

Well No.	Date	Time	Depth (ft bgs)	Depth to Water (ft btoc)	Field Parameters					
					Temp (°C)	Spec Cond (µS/cm)	D.O. (mg/L)	pH	ORP	Turb. (NTUs)
0688	01/09/2007	14:29	39	14.64	14.34	20,689	1.54	6.83	143	2.56
0689	01/09/2007	15:53	54	14.82	12.12	63,275	1.44	6.79	166	2.25

Locations Not Sampled/Reason: The Interim Action well field system was not running in the month of January; therefore, the remediation wells were not sampled. Surface water locations 0257 and 0258 were dry.

Field Variance: None.

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

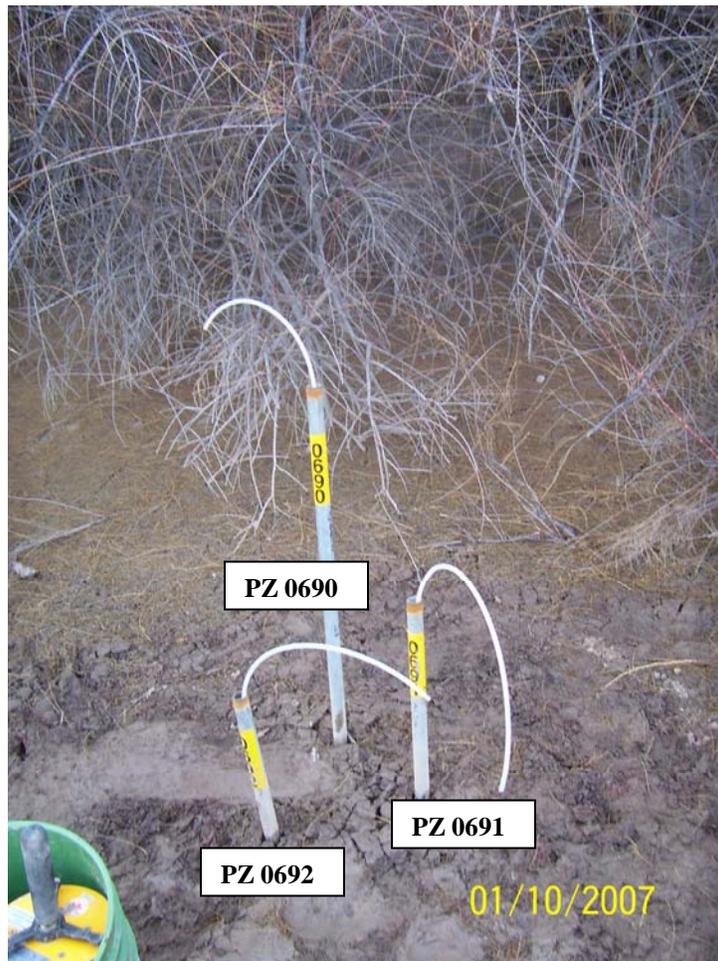
False ID	True ID	Sample Type	Associated Matrix	Ticket Number
2248	0683	Duplicate from 27 ft bgs	Ground water	NEV 020

Location-Specific Information – Observation Wells: All observation wells were sampled using micro-purge techniques with a peristaltic pump and dedicated downhole tubing. Sample depths and water levels for each observation well are listed below.

Well No.	Date	Time	Depth to Water (ft btoc)	Sample Depth (ft bgs)
0682	01/09/2007	14:08	16.15	28
0683	01/09/2007	16:15	16.56	27
0687	01/09/2007	15:03	15.02	28
0688-31	01/09/2007	14:41	14.64	31
0689-46	01/09/2007	15:22	14.82	46

Location-Specific Information – Piezometer Sampling: The table below presents the water level, stick-up height, and depth to the river surface prior to the initial purge. The following Configuration 3 piezometers were sampled.

PZ No.	Date	Time	Depth to Water (ft btoc)	Stick-Up Height (ft)	Depth to River Surface (ft btoc)
0690	01/10/2007	14:43	5.64	2.36	Dry at base
0691	01/10/2007	15:13	4.55	1.40	Dry at base
0692	01/10/2007	15:02	4.02	0.99	Dry at base



Configuration 3 riverbank piezometers.



Surface water location 0259.

January 2007 Configuration 4 Sampling

Number of Locations Sampled: Five observation wells (0780, 0781, 0782, 0786, 0787), three piezometers (0790, 0791, 0792), and one surface water location (0274) were sampled. A total of nine locations were sampled.

Locations Not Sampled/Reason: The Interim Action well field system was not running in the month of January; therefore, the remediation wells were not sampled.

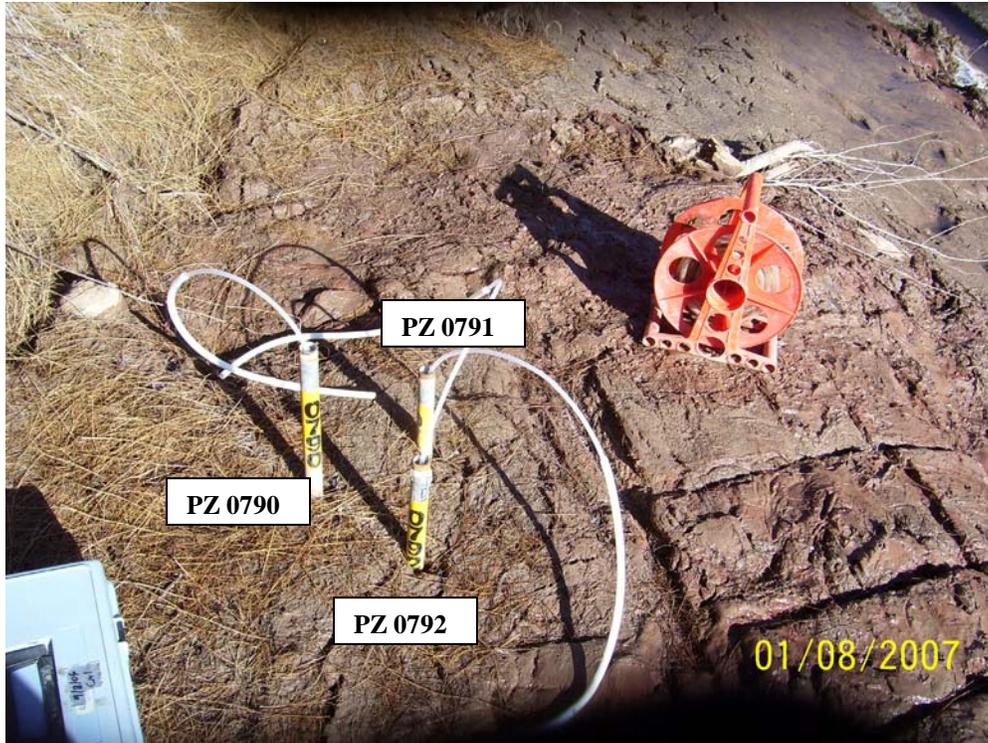
Field Variance: None.

Location-Specific Information – Observation Wells: All observation wells were sampled using micro-purge techniques with a peristaltic pump and dedicated downhole tubing. New pump-head tubing was used to sample each well. Sample depths and water levels for each observation well are listed below.

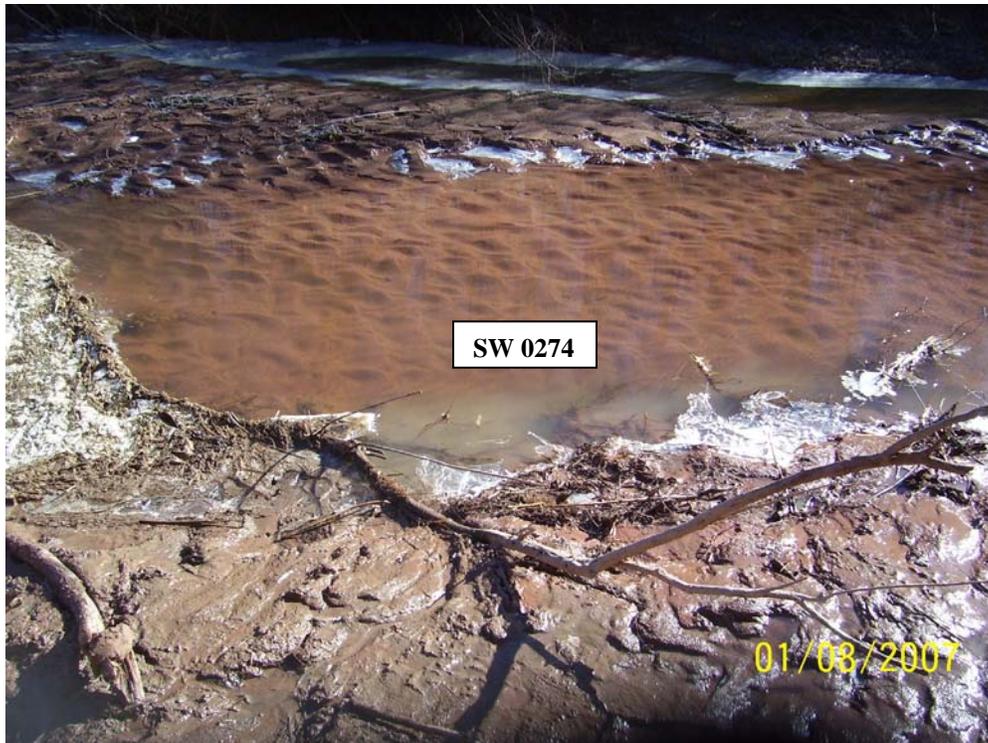
Well No.	Date	Time	Depth to Water (ft btoc)	Sample Depth (ft bgs)
0780	01/02/2007	10:15	16.40	28
0781	01/02/2007	11:12	16.46	46
0782	01/02/2007	10:48	16.22	33
0786	01/02/2007	09:24	15.91	30
0787	01/02/2007	09:53	16.50	36

Location-Specific Information – Piezometer Sampling: The table below presents the water level, stick-up height, and depth to the river surface prior to the initial purge. The following Configuration 4 piezometers were sampled.

PZ No.	Date	Time	Depth to Water (ft btoc)	Stick-Up Height (ft)	Depth to River Surface (ft btoc)
0790	01/08/2007	09:48	3.10	0.95	Dry at base
0791	01/08/2007	10:03	2.65	0.57	Dry at base
0792	01/08/2007	10:18	2.60	0.77	Dry at base



Configuration 4 riverbank piezometers.



Configuration 4 surface water location 0274.

January 2007 Baseline Sampling

Number of Locations Sampled: Three observation wells (0405, 0488, 0493), one surface water location (0243), and two piezometer locations (0598, 0496) were sampled. Including one duplicate and one equipment blank, a total of eight samples were collected.

Locations Not Sampled/Reason: After the initial purge, piezometer 0497 did not recharge, and therefore was not sampled. Surface water locations 0241 and 0242 were dry.

Field Variance: Due to a lack of recharge volume, the sample collected from piezometer 0496 consists of limited volume.

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

False ID	True ID	Sample Type	Associated Matrix	Ticket Number
2447	0493	Duplicate from 54 ft bgs	Ground Water	NEV 124
2446	N/A	Equipment Blank	DI Water	NEV 605

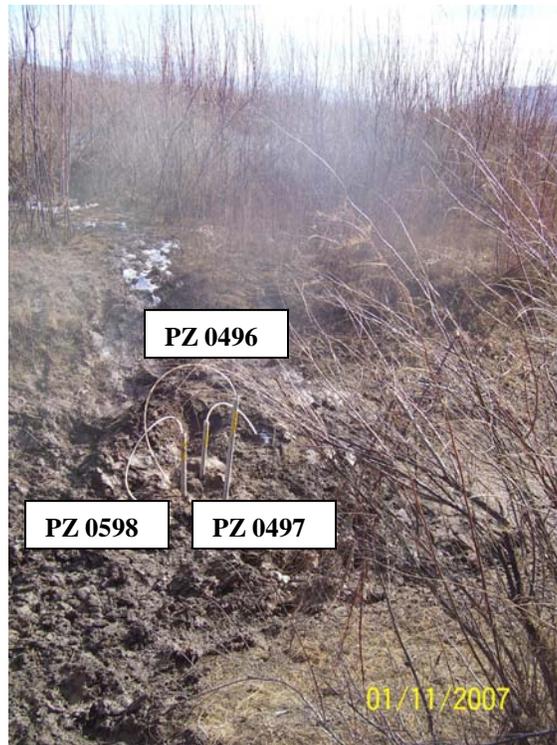
Location-Specific Information – Observation Wells: All observation wells were sampled using micro-purge techniques with a peristaltic pump and dedicated downhole tubing. Sample depths and water levels for each observation well are listed below.

Well No.	Date	Time	Depth to Water (ft btoc*)	Sample Depth (ft bgs)
0405	01/11/2007	09:13	14.10	18
0488	01/11/2007	08:42	13.99	39
0493	01/11/2007	09:40	13.59	54

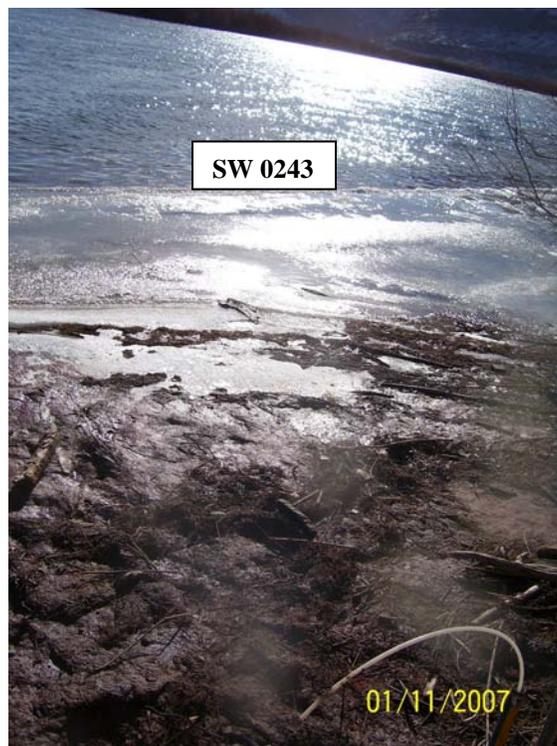
*Below top of casing

Location-Specific Information – Piezometer Sampling: The table below presents the water level, stick-up height, and depth to the river surface prior to the initial purge. Piezometer 0497 did not recharge after the initial purge, and therefore was not sampled.

PZ No.	Date	Time	Depth to Water (ft btoc)	Stick-Up Height (ft)	Depth to River Surface (ft btoc)
0496	01/11/2007	10:35	2.87	1.20	Dry at base
0497	01/11/2007	10:28	3.96	2.22	Dry at base
0598	01/11/2007	10:54	2.92	1.31	Dry at base



Baseline bank piezometers.



Baseline surface water location 0243.

January 2007 Infiltration Trench Sampling

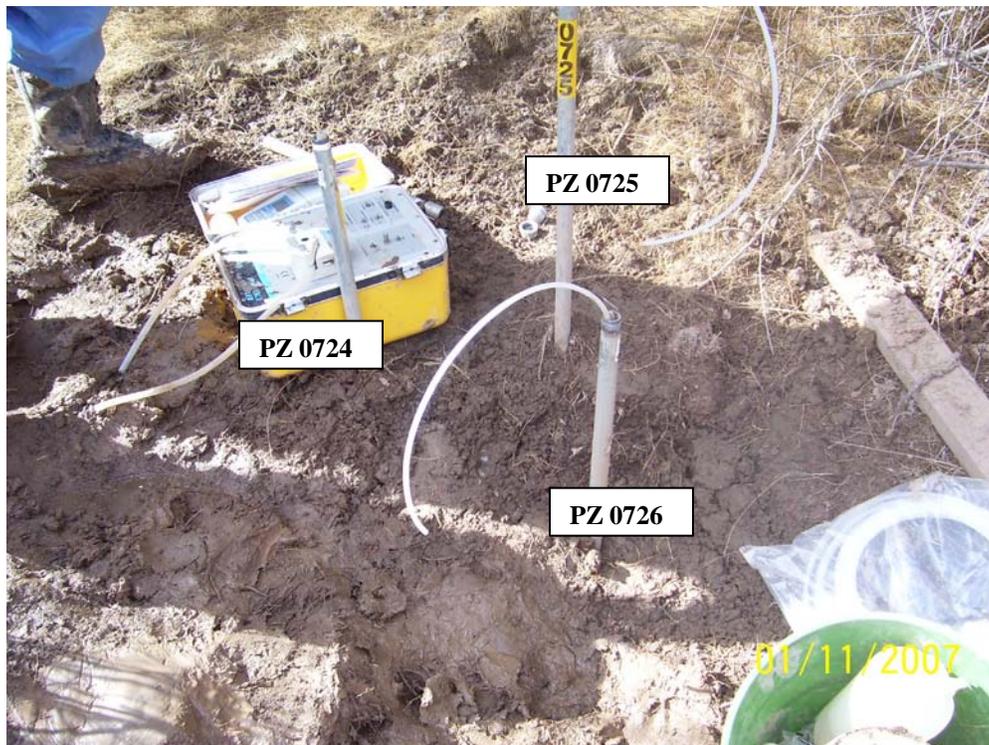
Number of Locations Sampled: Two piezometers (0725, 0726) were sampled.

Locations Not Sampled/Reason: After the initial purge, piezometer 0724 did not recharge, and therefore, was not sampled.

Field Variance: Due to a lack of recharge volume, the sample collected from piezometer 0726 consists of limited volume.

Location-Specific Information – Piezometer Sampling: The table below presents the water level, stick-up height, and depth to the river surface prior to the initial purge. Piezometer 0724 was dry and not sampled.

PZ No.	Date	Time	Depth to Water (ft btoc)	Stick-Up Height (ft)	Depth to River Surface (ft btoc)
0724	01/11/2007	12:30	Dry	1.43	Dry at base
0725	01/11/2007	12:08	5.57	2.25	Dry at base
0726	01/11/2007	11:42	4.36	1.44	Dry at base

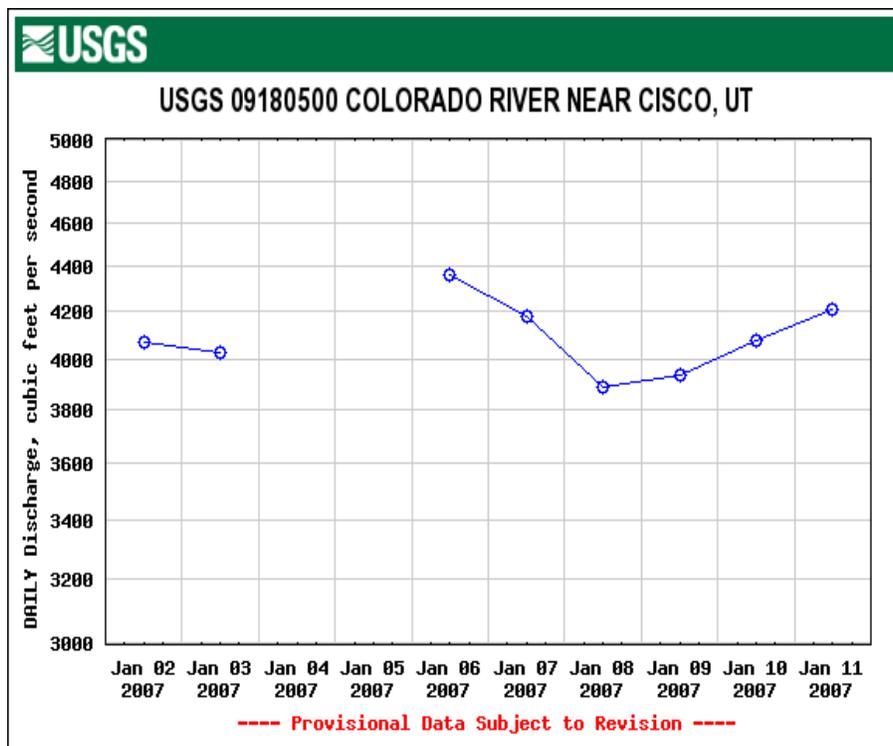


The infiltration trench piezometers.

Well Inspection Summary: A well inspection was not conducted.

Site Issues: According to the USGS Cisco Gaging Station (Station No. 09180500), the mean daily Colorado River flows during this sampling event are provided below:

Date	Daily Mean Flow (cfs)
01/02/2007	4,070
01/03/2007	4,030
01/04/2007	No data
01/08/2007	3,890
01/09/2007	3,940
01/10/2007	4,080
01/11/2007	4,210



Equipment Issues: None.

Corrective Action Required/Taken: None.

- | | | |
|-----|----------------------------|---------------------------|
| cc: | E. B. Baker, Stoller (e) | K. E. Karp, Stoller (e) |
| | L. E. Cummins, Stoller (e) | K. E. Miller, Stoller (e) |
| | S. E. Donivan, Stoller (e) | K. G. Pill, Stoller (e) |
| | J. R. Ford, Stoller (e) | J. E. Price, Stoller (e) |
| | E. M. Glowiak, Stoller (e) | Document Production (e) |