

Office of Environmental Management – Grand Junction



June 2006 Water Sampling

**Validation Data Package for the
Matheson Wetlands Preserve Sampling
Moab, Utah**

September 2006



**U.S. Department
of Energy**

Office of Environmental Management

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Data Package Contents

This data package includes the following information:

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4.	Data Assessment Summary
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Water Quality Data
Water Level Data
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Attachment 2—Trip Report

End of current text

Sampling Event Summary

Site: Matheson Wetlands Preserve, Moab, Utah

Sampling Period: June 22–29, 2006

A review of the recent data shows the concentrations of major analytes detected are generally in the range of previous events, where available, and that the site conceptual model, as presented in the Site Observational Work Plan (DOE 2003), is valid. Tables 1–4 on the following pages provide a summary of analytical results for some of the constituents. A summary report of the data collected in fiscal year 2006 along with a comparison to the Moab Site will be provided in fall 2006.

This sampling event represents the third time Matheson Wetlands Preserve well locations have been sampled by the U.S. Department of Energy (DOE) since March 2003. This event is intended to collect surface water and ground water that correspond with the decreasing river stage following the spring runoff. Four of the planned locations (N8-3, N2-1.5, N2-4.3, and W1-10) were not sampled due to a lack of recharge after the initial purge.

Thirty wells/piezometers and two surface water locations were sampled. Additional laboratory analyses were performed on samples collected during this event as compared to previous events in 2003 and 2005. The complete analyte list is provided in a table in the attached trip report. The expanded suite of analytes was intended for comparison to the Moab Uranium Mill Tailings Remedial Action (UMTRA) Project Site site-wide values.

Because there is such a limited data set for these sampled well locations at this time, there is no minimums versus maximums table. This type of table is typically included in the data validation reports for the adjacent Moab site. However, time versus concentration graphs for selected wells are included. These graphs include concentrations based on data collected by the University of Utah in 2003, but that data has not been validated by DOE. It is presented only for comparison.

Two locations, N3-8.3 and W1-4.3, have uranium concentrations that exceed the UMTRA standard of 0.044 mg/L. Analysis of ground water from these two piezometer locations indicated total uranium at 0.054 and 0.048 mg/L, respectively. Concentrations from location N3-8.3 are consistent with previous sampling events (see Table 3). Location W1-4.3 results are similar to last month's value (0.05 mg/L), but higher than in March 2003 (0.0021 mg/L). This location was dry in December 2005. These data will be further evaluated in a forthcoming summary report in fall 2006, and a brief discussion is provided in the following three paragraphs.

The relatively high concentrations of uranium at wells N3-8.3 are attributed to natural discharge of bedrock ground water along bedrock/alluvium interface that parallels Highway 191 north-northeast of the wetlands (Weir et al. 1983, Steiger and Susong 1997). Dissolved uranium appears to be elevated in the discharge relative to uranium concentrations in northwestward-moving ground water in the shallow alluvial aquifer on the Moab Valley floor because of the presence of relatively oxidizing conditions in the discharged water. The water resulting from the mixing of the bedrock discharge and the alluvial ground water subsequently migrates to the Colorado River (Steiger and Susong 1997), where it becomes part of the surface water domain.

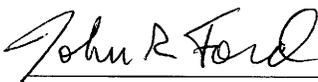
Though the mixed water remains mostly in the shallow portion of the alluvial saturated zone, it appears to pass through an environment approximately midway between N3-8.3 at W1-4.3, in the vicinity of well cluster BL-1, wherein chemical conditions are inclined to be more chemically

reducing than in the upgradient area near N3-8.3. This environment has the potential to cause some of the dissolved uranium to precipitate out of solution, thus producing uranium concentrations locally that are somewhat smaller than those observed at N3-8.3. Further along the migration path, such as in the vicinity of W1 wells, ground water tends to migrate upward to accommodate its discharge to the river. Accordingly, in the shallow saturated zone just to the east of the river, ground water is occasionally recharged by oxygenated water that can originate either as precipitation or bank storage of river water during high runoff months in the spring. This influx of oxygenated water temporarily creates more oxidizing conditions just east of the river, thus allowing uranium sorbed to alluvial sediments to re-dissolve and, for a period of up to several months, produce elevated uranium concentrations. The relatively high uranium concentrations observed at shallow well W1-4.3 in May and June 2006 are explained by this phenomenon.

The oxidizing conditions that are periodically created in shallow groundwater at the W1 series of wells occur despite the fact TDS levels here exceed the concentration of brine (TDS = 35,000 mg/L) (Table 3). The upwelling of brine at this locale is a natural phenomenon resulting from the fact that the Colorado River acts as a site of regional ground water discharge in the Moab Valley (DOE 2006). The discharge of bedrock ground water near the upgradient bedrock/alluvial interface, which is also a natural process, explains why uranium levels in both wells sampled at the N3 well cluster (N3-4.3 and N3-8.3) tend to consistently exhibit relatively high uranium concentrations (Table 3).

According to the United States Geological Survey (USGS) Cisco Gaging Station (Station No. 09180500), the mean daily Colorado River flows during the sampling event decreased from 7,170 to 5,130 cubic feet per second.

The data validations indicate the data meet the quality control criteria specified for this project. No significant discrepancies were noted regarding sample shipping/receiving, preservation and holding times, instrument calibration, method blanks, matrix spikes, etc., except as qualified. The exceptions were two sample coolers that were received by the laboratory at temperatures exceeding the specified range. However, the laboratory deemed the out-of-compliance temperatures did not impact the requested analyses. Also, seven samples for radon analysis were received with headspace in the sample vials. The results for those samples were qualified with a "J" flag as estimated values.



John R. Ford
Ground Water Lead



Date

References

DOE, 2006. *Fall 2005 Performance Assessment of the Ground Water Interim Action Well Fields at the Moab, Utah, Project Site*, DOE-EM/GJ1190-2006.

Steiger, J.I., and D.D. Susong, 1997. *Recharge Areas and Quality of Ground Water for the Glen Canyon and Valley Fill Aquifers, Spanish Valley Area, Grand and San Juan Counties, Utah*, U.S. Geological Survey, Water Resources Investigations Report 97-4206.

Weir, J.E. Jr., E.B. Maxfield, and I.M. Hart, 1983. *Reconnaissance of the Geohydrology of the Moab-Monticello Area, Western Paradox Basin, Grand and San Juan Counties, Utah*, U.S. Geological Survey, Water Resources Investigations Report 83-4098.

Data Summary Tables

Table 1. Ammonia as N and Bromide Concentrations

Matheson Location			Ammonia as N (mg/L)					Bromide (mg/L)				
Number	Type	sample depth (ft bgs)	DOE Sampling				U of U	DOE Sampling				U of U
			Jun-06	May-06	Dec-05	Mar-03	Jul-Aug 03	Jun-06	May-06	Dec-05	Mar-03	Jul-Aug 03
BL1-S	obs well	53	0.49	0.37	0.51		1.53	12	10	42		
BL1-M	obs well	97	0.62	0.63	0.66		1.71	20	20	20		
BL1-D	obs well	138	2.1	2.2	2.2		3.72	20	20	20		
BL2-S	obs well	54	2	2.1	2.1		4.30	20	20	40		
BL2-M	obs well	98	2.7	2.8	2.9		4.40	20	20	40		
BL2-D	obs well	141	3	3.1	3.1		4.30	21	20	20		
BL3-M	obs well	44	2.5	2.3	2.4		2.55	20	20	20		
BL3-D	obs well	97	3.5	3.5	3.6		4.60	23	20	20		
M11-4.8	pz	13	0.44	0.21	0.5	0.46		2	1	2		
M11-7	pz	20	0.24	0.15	0.28	0.48	0.28*	1	0.4	1		
M11-12	pz	38	0.44	0.33	0.47	0.35	0.35*	4	4	4		
M11-14 ^a	pz	48	2.2	1.9	2.2	48 1.55	1.13*	20	20	40		
N2-1.5 ^c	pz	5	dry	no sample	dry			dry	no sample	dry		
N2-4.3 ^{b,c}	pz	14	dry	no sample	11			dry	no sample			
N2-6.5	pz	20	0.1	0.1	0.37			1	0.4	0.4		
N2-12.8	pz	34	0.2	0.11	0.21			1	0.4	1		
N3-4.3	pz	13	0.1	0.1	6.6		<0.1*	1	1	1		
N3-8.3	pz	24	0.1	0.1	0.1		0.3*	1	0.4	1		
N4-3.2	pz	9	0.25	0.1	0.41			0.2	0.2	0.2		
N4-12	pz	37	0.65	0.1	0.47		<0.1*	0.2	0.2	0.2		
N5-4.4 ^{b,*}	pz	13	no sample	0.1	0.21			no sample				
N5-7.2 ^e	pz	24	no sample	0.17	0.18		0.27*	no sample	0.2	0.2		
N5-14	pz	48	no sample	0.1	0.1		<0.1*	no sample	0.2	0.4		
N6-6.4	pz	12	0.1	0.1	0.1		<0.1*	1	0.4	1		
N7-7	pz	20	1.2	1.1	1.1	1.27	0.87*	2	2	1		
N7-10 ^a	pz	31	2.2	1.3	1.7	1.52	1.44*	40	10	20		
N7-11	pz	35	3.7	3.1	3.3	3		20	20	40		
N8-3 ^c	pz	8	dry	no sample	dry			dry	no sample	dry		
N8-6	pz	20	0.45	0.1	dry			0.4	0.4	dry		
N8-14	pz	48	0.25	0.1	dry		<0.1*	1	1	dry		
W1-4.3	pz	14	0.2	0.17	dry	0.174	0.11*	11	20	dry		
W1-7 ^a	pz	19	0.42	0.36	0.35	0.257	0.25*	10	20	10		
W1-10 ^c	pz	19	no sample	no sample	no sample	3		no sample	no sample	no sample		

obs well = observation well

pz = piezometer

Sample depth refers to discrete depth for obs wells, and total depth of pzs

Dec 2005 data not validated at time spreadsheet generated

a - Locations sampled in December 2002 and March 2003, average result provided

b - Limited sample volume collected in December 2005, full analyte suite not available

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e - not able to purge location prior to sampling in May 06 event

* - Result obtained using Hach Colorimeter

** - TDS result estimated based on Specific Conductance measurement

*** - Sample collected March 2002

DOE March 2003 data taken from SOWP, U of U data from Gardner and Solomon, Dec 2003

DOE sampling conducted using micro-purge technique

U of U sampling conducted by removing 3 casing volumes prior to sampling

Table 2. Chloride and Sulfate Concentrations

Matheson Location			Chloride (mg/L)					Sulfate (mg/L)				
Number	Type	sample depth (ft bgs)	DOE Sampling				U of U	DOE Sampling				U of U
			Jun-06	May-06	Dec-05	Mar-03	Jul-Aug 03	Jun-06	May-06	Dec-05	Mar-03	Jul-Aug 03
BL1-S	obs well	53	17,000	17,000	21,000		17,700	1,100	1,000	1,300		1,420
BL1-M	obs well	97	38,000	39,000	49,000		37,500	2,800	2,600	3,000		2,490
BL1-D	obs well	138	57,000	45,000	59,000		51,400	4,600	4,300	4,800		4,650
BL2-S	obs well	54	38,000	40,000	47,000		40,300	3,600	3,800	4,000		3,710
BL2-M	obs well	98	50,000	41,000	58,000		52,400	4,300	4,200	4,600		4,360
BL2-D	obs well	141	50,000	46,000	62,000		54,200	4,500	4,200	4,600		4,430
BL3-M	obs well	44	47,000	41,000	49,000		34,700	5,200	4,400	5,200		4,180
BL3-D	obs well	97	61,000	57,000	71,000		62,400	5,500	5,400	5,700		5,340
M11-4.8	pz	13	1,200	1,100	1,200	1,620		940	910	960	1,440	
M11-7	pz	20	670	640	710	1,320	1,170*	490	480	560	995	612*
M11-12	pz	38	8,100	8,200	8,000	2,550	9,500*	1,200	1,100	1,200	614	766*
M11-14 ^a	pz	48	41,000	35,000	52,000	23,300	39,300*	3,700	3,400	3,900	2,500	2,570*
N2-1.5 ^c	pz	5	dry	no sample	dry			dry	no sample	dry		
N2-4.3 ^{b,c}	pz	14	dry	no sample				dry	no sample			
N2-6.5	pz	20	120	110	120			1,100	1,100	1,100		
N2-12.8	pz	34	220	250	220			1,200	1,200	1,200		
N3-4.3	pz	13	630	670	770		1,190*	160	150	130		328*
N3-8.3	pz	24	350	390	480		591*	250	240	240		450*
N4-3.2	pz	9	14	17	30			21	8	5		
N4-12	pz	37	27	59	14		98*	58	53	62		147*
N5-4.4 ^{b,a}	pz	13	no sample					no sample				
N5-7.2 ^a	pz	24	no sample	22	22		690*	no sample	400	410		582*
N5-14	pz	48	no sample	17	17		54*	no sample	420	420		730*
N6-6.4	pz	12	550	610	790		1,220*	240	240	250		340*
N7-7	pz	20	2,600	2,100	1,700	905	907*	620	560	590	336	695*
N7-10 ^a	pz	31	47,000	30,000	40,000	28,300	56,800*	4,700	3,200	3,800	2,460	4,640*
N7-11	pz	35	50,000	55,000	60,000	52,400		5,000	4,900	5,000	5,270	
N8-3 ^c	pz	8	dry	no sample	dry			dry	no sample	dry		
N8-6	pz	20	120	81	dry			350	330	dry		
N8-14	pz	48	1,400	650	dry		229*	520	440	dry		386*
W1-4.3	pz	14	32,000	30,000	dry	29,700	34,800*	3,300	3,100	dry	2,940	1,610*
W1-7 ^a	pz	19	29,000	27,000	37,000	28,700	44,800*	3,100	2,900	3,200	3,010	1,570*
W1-10 ^c	pz	19	no sample	no sample	no sample	23,000		no sample	no sample	no sample	2,360	

obs well = observation well

pz = piezometer

Sample depth refers to discrete depth for obs wells, and total depth of pzs

Dec 2005 data not validated at time spreadsheet generated

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c - Location did not recharge after initial purge, not able to collect sample

d - Samples were collected for this analyte from limited specific locations only

e - not able to purge location prior to sampling in May 06 event

* - Result obtained using Hach Colorimeter

** - TDS result estimated based on Specific Conductance measurement

*** - Sample collected March 2002

DOE March 2003 data taken from SOWP, U of U data taken from Gardner and Solomon report, Dec 2003

DOE sampling conducted using micro-purge technique

U of U sampling conducted by removing 3 casing volumes prior to sampling

Table 3. Total Dissolved Solids and Uranium Concentrations

Matheson Location			TDS (mg/L)					Uranium (mg/L)				
Number	Type	sample depth (ft bgs)	DOE Sampling				U of U	DOE Sampling				U of U
			Jun-06	May-06	Dec-05	Mar-03	Jul-Aug 03	Jun-06	May-06	Dec-05	Mar-03	Jul-Aug 03
BL1-S	obs well	53	40,000	35,000	33,000		40,500	0.0078	0.0062	0.0070		0.0116
BL1-M	obs well	97	84,000	78,000	77,000		80,300	0.0023	0.0024	0.0020		0.0038
BL1-D	obs well	138	97,000	95,000	80,000		95,100	0.0010	0.0012	0.0011		0.0018
BL2-S	obs well	54	78,000	81,000	80,000		78,800**	0.0030	0.0025	0.0027		0.0024
BL2-M	obs well	98	95,000	95,000	94,000		105,000**	0.0031	0.003	0.0030		0.0027
BL2-D	obs well	141	100,000	98,000	98,000		109,000**	0.0029	0.0029	0.0028		0.0024
BL3-M	obs well	44	91,000	84,000	82,000		66,000**	0.0002	0.0002	0.0002		0.0005
BL3-D	obs well	97	120,000	110,000	120,000		124,000**	0.0002	0.00007	0.0001		<0.0003
M11-4.8	pz	13	3,800	3,500	3,900	5,490		0.0022	0.0024	0.0030	0.0037	
M11-7	pz	20	2,500	2,300	2,500	4,230	3,960**	0.0030	0.0028	0.0028	0.0044	0.0055
M11-12	pz	38	16,000	16,000	14,000	5,510	10,500**	0.0012	0.0016	0.0012	0.001	0.0018
M11-14 ^a	pz	48	78,000	67,000	75,000	41,700	44,300**	0.0011	0.001	0.0009	0.001	0.0023
N2-1.5 ^c	pz	5	dry	no sample	dry			dry	no sample	dry		
N2-4.3 ^{b,c}	pz	14	dry	no sample				dry	no sample	0.0002		
N2-6.5	pz	20	2,200	1,900	1,800			0.0002	0.0002	0.0001		
N2-12.8	pz	34	2,400	2,200	2,200			0.0003	0.0003	0.0002		
N3-4.3	pz	13	1,800	1,600	1,900		3,870**	0.0320	0.027	0.0180		0.023
N3-8.3	pz	24	1,500	1,400	1,600		2,290**	0.0540	0.048	0.0450		0.0592
N4-3.2	pz	9	350	79	310			0.0002	0.00009	0.0001		
N4-12	pz	37	600	590	560		636**	0.0024	0.0013	0.0019		0.002
N5-4.4 ^{b,*}	pz	13	no sample		780			no sample	0.00009	0.0002		
N5-7.2 ^e	pz	24	no sample	880	890		1,090**	no sample	0.0004	0.0003		
N5-14	pz	48	no sample	960	960		1,030**	no sample	0.0028	0.0026		0.0031
N6-6.4	pz	12	1,600	1,600	1,700		3,170**	0.0065	0.0072	0.0066		0.0069
N7-7	pz	20	5,900	4,300	3,400	2,250	2,250**	0.0004	0.00097	0.0002	0.001	0.0004
N7-10 ^a	pz	31	100,000	56,000	67,000	50,400	108,000**	0.0035	0.0025	0.0024	0.0033	0.008
N7-11	pz	35	100,000	99,000	99,000	97,000		0.0002	0.00049	<0.0001	0.0007	
N8-3 ^c	pz	8	dry	no sample	dry			dry	no sample	dry		
N8-6	pz	20	1,300	1,200	dry			0.0009	0.00054	dry		
N8-14	pz	48	3,400	1,900	dry		1,650**	0.0002	0.00029	dry		0.0008
W1-4.3	pz	14	70,000	62,000	dry	50,500	61,700**	0.0480	0.05	dry	0.0021	
W1-7 ^a	pz	19	66,000	57,000	56,000	52,300	59,400**	0.0250	0.022	0.0170	0.0231	0.0353
W1-10 ^c	pz	19	no sample	no sample	no sample	40,900		no sample	no sample	no sample	0.0159	

obs well = observation well

pz = piezometer

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DOE sampling conducted using micro-purge technique

U of U sampling conducted by removing 3 casing volumes prior to sampling

Table 4. Radon-222 and Radium-226 Concentrations

Matheson Location			Rn 222 (pCi/L) ^d					Ra 226 (pCi/L) ^d				
Number	Type	sample depth (ft bgs)	DOE Sampling				U of U	DOE Sampling				U of U
			Jun-06	May-06	Dec-05	Mar-03	Jul-Aug 03	Jun-06	May-06	Dec-05	Dec-02	Jul-Aug 03
BL1-S	obs well	53	181	167				-0.174	0.184			
BL1-M	obs well	97	108	80.1				-0.555	-0.248			
BL1-D	obs well	138	101	84.1				0.0451	0.329			
BL2-S	obs well	54	51.5	76.5				0.183	0.542			
BL2-M	obs well	98	131	146				0.617	0.803			
BL2-D	obs well	141	142	120				0.91	0.972			
BL3-M	obs well	44	192	117				8.46	8.78			
BL3-D	obs well	97	125	159				21.8	20.9			
M11-4.8	pz	13										
M11-7	pz	20										
M11-12	pz	38										
M11-14 ^a	pz	48	129	142				0.0509	0.32		0.32	
N2-1.5 ^c	pz	5	dry	no sample	dry			dry	no sample	dry		
N2-4.3 ^{b,c}	pz	14	dry	no sample				dry	no sample			
N2-6.5	pz	20										
N2-12.8	pz	34									0.14 ^{***}	
N3-4.3	pz	13										
N3-8.3	pz	24	34					-0.293				
N4-3.2	pz	9										
N4-12	pz	37										
N5-4.4 ^{b,e}	pz	13	no sample					no sample				
N5-7.2 ^e	pz	24	no sample					no sample				
N5-14	pz	48	no sample	148				no sample	0.0167			
N6-6.4	pz	12										
N7-7	pz	20										
N7-10 ^a	pz	31									9.26	
N7-11	pz	35										
N8-3 ^c	pz	8	dry	no sample	dry			dry	no sample	dry		
N8-6	pz	20			dry					dry		
N8-14	pz	48			dry					dry		
W1-4.3	pz	14			dry					dry		
W1-7 ^a	pz	19									0.29	
W1-10 ^c	pz	19	no sample	no sample	no sample			no sample	no sample	no sample		

obs well = observation well

pz = piezometer

Sample depth refers to discrete depth for obs wells, and total depth of pzs

Dec 2005 data not validated at time spreadsheet generated

a - Locations sampled in December 2002 and March 2003, average result provided

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DOE sampling conducted using micro-purge technique

U of U sampling conducted by removing 3 casing volumes prior to sampling

Sample Location Map

Data Assessment Summary

Water Sampling Field Activities Verification Checklist

Project	<u>Moab, Utah</u>	Date(s) of Water Sampling	<u>June 22–29, 2006</u>
Date(s) of Verification	<u>September 15, 2006</u>	Name of Verifier	<u>Jeff Price</u>

	Response (Yes, No, NA)	Comments
1. Is the SAP the primary document directing field procedures? List other documents, SOP's, instructions.	<u>Yes</u> <u>NA</u>	
2. Were the sampling locations specified in the planning documents sampled?	<u>No</u>	<u>See trip report for explanation.</u>
3. Was a pre-trip calibration conducted as specified in the above-named documents?	<u>Yes</u>	
4. Was an operational check of the field equipment conducted twice daily? Did the operational checks meet criteria?	<u>Yes</u> <u>Yes</u>	
5. Were the number and types (alkalinity, temperature, Ec, pH, turbidity, DO, ORP) 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>No</u>	<u>Turbidity criteria could not be met at well BL3-M.</u>
Was the flow rate less than 500 milliliters per minute (mL/min)? If a portable pump was used, was there a 4-hour delay between pump installation and sampling?	<u>Yes</u> <u>NA</u>	

Water Sampling Field Activities Verification Checklist (continued)

	Response (Yes, No, NA)	Comments
8. Were the following conditions met when purging a Category II well:		
Was the flow rate less than 500 mL/min?	Yes	
Was one pump/tubing volume removed prior to sampling?	Yes	
9. Were duplicates taken at a frequency of one per 20 samples?	Yes	
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment?	Yes	
11. Were trip blanks prepared and included with each shipment of VOC samples?	NA	
12. Were QC samples assigned a fictitious site identification number?	Yes	
Was the true identity of the samples recorded on the Quality Assurance Sample Log?	Yes	
13. Were samples collected in the containers specified?	Yes	
14. Were samples filtered and preserved as specified?	Yes	
15. Were the number and types of samples collected as specified?	Yes	
16. Were chain of custody records completed and was sample custody maintained?	Yes	
17. 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): 06060408
 Sample Event: June 22–29, 2006
 Site(s): Moab, Utah, Matheson Preserve
 Laboratory: Paragon Analytics, Inc.
 Work Order No.: 0606183
 Analysis: Metals, Inorganics, and Radiochemistry
 Validator: Steve Donivan
 Review Date: August 15, 2006

This validation was performed according to the *Environmental Procedures Catalog (STO 6)*, “Standard Practice for Validation of Laboratory Data”, GT-9(P). 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 5.

Table 5. 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
Dissolved Organic Carbon	WCH-A-024	MCAWW 415.1	MCAWW 415.1
Fluoride, F	MIS-A-040	SW-846 9056	SW-846 9056
Gross Alpha/Beta	GPC-A-001	SOP 702R17	SOP 724R8
Metals - Al, B, Ca, Co, Fe, K, Li, Mg, Mn, Na, Sr	MET-A-020	SW-846 3005A	SW-846 6010
Molybdenum, Mo	GJO-15	SW-846 3005A	SW-846 6020A
Nitrate, NO ₃ -N	WCH-A-022	MCAWW 353.2	MCAWW 353.2
Ortho Phosphate, PO ₄	MIS-A-043	SW-846 9056	SW-846 9056
Radium-226, Ra-226	ASP-A-016		
Radon-222, Rn-222	ASP-A-012	SOP 799R6	SOP 704R6
Selenium, Se	GJO-14	SW-846 3005A	SW-846 6020A
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
Total Organic Carbon, TOC	WCH-A-025	MCAWW 415.1	MCAWW 415.1
Uranium Isotopes	ASP-A-024	SOP 776R9	SOP 714R9
Uranium, U	GJO-01	SW-846 3005A	SW-846 6020A

Data Qualifier Summary

Analytical results were qualified as listed in Table 6. Refer to the attached validation worksheets and the sections below for an explanation of the data qualifiers applied.

Table 6. Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
0606183-1	0271	Gross Alpha	J	Less than 3 times the MDC
0606183-1	0271	Gross Beta	J	Less than 3 times the MDC
0606183-2	0273	Gross Beta	J	Less than 3 times the MDC
0606183-2	0273	U-235	J	Less than 3 times the MDC
0606183-3	2320	Mg	U	Less than 5 times the calibration blank
0606183-3	2320	Na	U	Less than 5 times the calibration blank
0606183-3	2320	U	U	Less than 5 times the calibration blank
0606183-5	M11-12	PO ₄	J	Calibration and matrix spike failures
0606183-5	M11-12	Se	U	Less than 5 times the method blank
0606183-7	N7-10	Mo	U	Less than 5 times the calibration blank
0606183-7	N7-10	Se	U	Less than 5 times the method blank
0606183-8	BL2-D	Rn-222	J	Sample received with headspace
0606183-9	BL2-M	Rn-222	J	Sample received with headspace
0606183-10	BL2-S	Rn-222	J	Sample received with headspace
0606183-11	BL3-D	Rn-222	J	Sample received with headspace
0606183-12	BL3-M	Rn-222	J	Sample received with headspace
0606183-13	2247	Rn-222	J	Sample received with headspace
0606183-14	BL1-D	Rn-222	J	Sample received with headspace
0606183-15	BL1-M	Rn-222	J	Sample received with headspace
0606183-16	BL1-S	Rn-222	J	Sample received with headspace
0606183-17	M11-14.0	Rn-222	J	Sample received with headspace
0606183-18	2322	Mg	U	Less than 5 times the calibration blank
0606183-18	2322	Na	U	Less than 5 times the calibration blank
0606183-18	2322	Se	U	Less than 5 times the method blank
0606183-18	2322	Na	U	Less than 5 times the calibration blank
0606183-18	2322	U	U	Less than 5 times the method blank
0606183-20	BL1-M	B	U	Less than 5 times the calibration blank
0606183-20	BL1-M	PO ₄	J	Calibration and matrix spike failures
0606183-20	BL1-M	Se	U	Less than 5 times the method blank
0606183-20	BL1-M	U-235	J	Less than 3 times the MDC
0606183-21	BL1-S	B	U	Less than 5 times the calibration blank
0606183-21	BL1-S	Gross Beta	J	Less than 3 times the MDC
0606183-21	BL1-S	Se	U	Less than 5 times the method blank
0606183-21	BL1-S	U-235	J	Less than 3 times the MDC
0606183-22	BL2-D	Gross Beta	J	Less than 3 times the MDC
0606183-22	BL2-D	Se	U	Less than 5 times the method blank
0606183-22	BL2-D	U-235	J	Less than 3 times the MDC
0606183-23	BL2-M	Gross Beta	J	Less than 3 times the MDC
0606183-23	BL2-M	Ra-226	J	Less than 3 times the MDC
0606183-23	BL2-M	Se	U	Less than 5 times the method blank

0606183-24	BL2-S	Gross Beta	J	Less than 3 times the MDC
0606183-24	BL2-S	Se	U	Less than 5 times the method blank
0606183-24	BL2-S	U-235	J	Less than 3 times the MDC
0606183-25	BL3-D	Gross Beta	J	Less than 3 times the MDC
0606183-25	BL3-D	Mn	U	Less than 5 times the calibration blank
0606183-25	BL3-D	Mo	U	Less than 5 times the calibration blank
0606183-25	BL3-D	U	U	Less than 5 times the calibration blank
0606183-25	BL3-D	U-234	J	Less than 3 times the MDC
0606183-26	BL3-M	Mo	U	Less than 5 times the calibration blank
0606183-26	BL3-M	U-234	J	Less than 3 times the MDC
0606183-27	M11-14.0	Gross Beta	J	Less than 3 times the MDC
0606183-27	M11-14.0	Se	U	Less than 5 times the method blank
0606183-29	M11-7.0	Se	U	Less than 5 times the method blank
0606183-30	N2-12.8	Se	U	Less than 5 times the method blank
0606183-31	N2-6.5	Se	U	Less than 5 times the method blank
0606183-32	N3-4.3	Fe	U	Less than 5 times the calibration blank
0606183-33	N3-8.3	Gross Beta	J	Less than 3 times the MDC
0606183-35	N4-3.2	U	U	Less than 5 times the calibration blank
0606183-36	N7-11	Mo	U	Less than 5 times the calibration blank
0606183-36	N7-11	Se	U	Less than 5 times the method blank
0606183-36	N7-11	U	U	Less than 5 times the method blank
0606183-37	N7-7	Mo	U	Less than 5 times the calibration blank
0606183-37	N7-7	Se	U	Less than 5 times the method blank
0606183-38	N8-14	U	U	Less than 5 times the calibration blank
0606183-40	W1-4.3	Fe	U	Less than 5 times the calibration blank
0606183-41	W1-7	PO ₄	J	Calibration and matrix spike failures
0606183-41	W1-7	Se	U	Less than 5 times the method blank
0606183-42	2247	Gross Beta	J	Less than 3 times the MDC
0606183-42	2247	Se	U	Less than 5 times the method blank
0606183-42	2247	U-235	J	Less than 3 times the MDC

Sample Shipping/Receiving

Paragon Analytics, Inc., in Fort Collins, Colorado, received 44 samples between June 23, 2006, and June 29, 2006, 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 form and the sample tickets, had no errors or omissions.

Preservation and Holding Times

The sample shipment was received cool and intact, with the temperature within the coolers of 1.4, 5.4, 0.4, 6.0, 12.0, 4.4, and 1.6 °C, which does not comply with requirements in all cases. The out-of-compliance temperature did not impact the requested analyses. All samples were received in the correct container types and had been preserved correctly for the requested analyses, with the following exceptions: radon samples from locations BL2-D, BL2-M, BL2-S,

BL3-D, BL3-M, BL1-D, and 2247 were received with a visible headspace in the vials. The Rn-222 results from these locations are qualified with a “J” flag as estimated values. 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 6010

Calibrations for method 6010 metals were performed on July 10, 2006, July 11, 2006, and July 14, 2006. 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 (CCV) checks were made at the required frequency resulting in 23 CCVs. All calibration check results met the acceptance criteria. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the practical quantitation limit. The check was within the acceptance criteria range.

Method SW-846 6020A

Calibrations for selenium were performed on June 28, 2006, and July 10, 2006; and for molybdenum and uranium on July 6, 2006, and July 12, 2006. The initial calibrations were performed using six calibration standards, resulting in calibration curves with r^2 values greater than 0.995. The absolute values of the curve intercepts were less than 3 times the MDL. Calibration and laboratory spike standards were prepared from independent sources. Initial and CCV checks were made at the required frequency, resulting in 29 CCVs. All calibration check results met the acceptance criteria, with the exception of two CCVs for molybdenum. There were no samples associated with these CCVs. A reporting limit verification check was made at the required frequency to verify the linearity of the calibration curve near the practical quantitation limit. The checks were within the acceptance criteria range, with the exception of molybdenum. Molybdenum results that are less than 5 times the practical quantitation limit are qualified with a “J” flag as estimated values. 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 SW-846 9056

The initial calibrations for bromide, chloride, fluoride, phosphate, and sulfate were performed using five calibration standards each on May 13, 2006. 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. Initial and continuing calibration checks were made at the required frequency resulting in 17 CCVs. The calibration checks met the acceptance criteria with the exception of three CCVs for phosphate. Phosphate results that are greater than the MDL are qualified with a “J” flag as estimated values.

Method MCAWW 160.1

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

Method MCAWW 350.1

The initial calibrations for ammonia as N were performed using six calibration standards on June 28, 2006 and July 11, 2006 resulting in calibration curves with r^2 values greater than 0.995 and intercepts less than 3 times the MDL. Initial and continuing calibration checks were made at the required frequency, resulting in 16 CCVs. All calibration check results were within the acceptance criteria.

Method MCAWW 353.2

The initial calibration for nitrate as N were performed using six calibration standards on June 28, 2006, and July 10, 2006, resulting in calibration curves with r^2 values greater than 0.995 and intercepts less than 3 times the MDL. Initial and continuing calibration checks were made at the required frequency, resulting in 14 CCVs. All calibration check results were within the acceptance criteria.

Method MCAWW 415.1

The initial calibration for organic carbon was performed using seven calibration standards on May 12, 2006, resulting in a calibration curve with r^2 value greater than 0.995 and an intercept less than 3 times the MDL. Initial and continuing calibration checks were made at the required frequency, resulting in eight CCVs. All calibration check results were within the acceptance criteria.

Radiochemical Analysis

All radiochemical results reported included the calculated two-sigma total propagated uncertainty (TPU) and minimum detectable concentration (MDC). Radiochemical results are qualified with a “J” flag (estimated) when the result is greater than the MDC, but less than three times the MDC. Radiochemical results are qualified with a “U” flag (not detected) when the result is greater than the MDC but less than the TPU.

Gross Alpha/Beta

Plateau calibrations were performed on October 31, 2005. Alpha and beta attenuation calibrations were performed on November 3, 2005, covering a range of 0 to 204 milligrams (mg). All standards were counted to a minimum of 10,000 counts. All calibration and background checks met acceptance criteria. The residual mass was between 30 mg and 100 mg for all samples.

Radon-222

Instrument calibration was performed on June 22, 2006. Daily instrument checks were performed on June 22, 2006, June 25–30, 2006, and July 3, 2006. All daily instrument checks met the acceptance criteria.

Radium-226

Emanation cell plateau voltage determinations were performed on May 25, 2006, and cell efficiency calibrations were performed on June 6, 2006. Daily efficiency calibration and background checks were performed on July 27, 2006. All calibration data met the acceptance criteria. The chemical recoveries met the acceptance criteria of 40 to 110 percent for all samples.

Uranium Isotopes

Alpha spectrometry calibrations were performed on July 6, 2006. Instrument background was determined on July 6, 2006. All daily instrument calibration and background checks met the acceptance criteria. The chemical recoveries met the acceptance criteria of 40 to 110 percent for all samples. The full width at half maximum (FWHM) was reviewed for all analyses to evaluate the spectral resolution. All FWHM values were below 100, demonstrating acceptable resolution. All internal standard peaks were within 50 kiloelectron-Volts of the expected position.

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 (CCB) results were below the practical quantitation limits for all analytes, with the exception of two molybdenum CCB results that were above the MDL. There were no samples associated with these CCBs. Three CCB results for phosphate were above the MDL. Phosphate results that are greater than the MDL are qualified with a “J” flag as estimated values. In cases where 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. All radiochemical method blank results were below the MDC.

Inductively Coupled Plasma Interference Check Sample Analysis

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

Matrix Spike Analysis

Matrix spike and matrix spike duplicate (MS/MSD) pairs were analyzed for metals, ammonia as N, bromide, fluoride, gross alpha, gross beta, nitrate as N, phosphate, and sulfate 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 with the exception of phosphate. Phosphate results that are greater than the MDL are qualified with a "J" flag as estimated values.

Laboratory Replicate Analysis

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 metals analysis to monitor physical or chemical interferences that may exist in the sample matrix. Serial dilution data were not evaluated when the concentration of the undiluted sample is less than 50 times the reporting limit. The results that were evaluated were all within the acceptance range.

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 were achieved for all analytes with the following exceptions: the required detection limits were not met for gross alpha, gross beta, radium-226, and radon-222 in all cases because of matrix interferences due to the high dissolved solids content.

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 August 8, 2006. 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.

General Information

Requisition No. (RIN): 06060409
 Sample Event: June 22–28, 2006
 Site(s): Moab, Utah
 Laboratory: Microseeps, Pittsburgh, PA
 Work Order No.: P0604376
 Analysis: Dissolved Gasses, Reduced Metals
 Validator: Steve Donovan
 Review Date: June 13, 2006

This validation was performed according to the *Environmental Procedures Catalog (STO 6)*, “Standard Practice for Validation of Laboratory Data,” GT-9(P) rev1 (2006). The procedure was applied at Level 2, 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 7.

Table 7. Analytes and Methods

Analyte	Line Item Code	Prep Method	Analytical Method
Manganese (II)	GJO-53	Mod.7199	Mod.7199
Iron (II)	GJO-54	Mod.7199	Mod.7199

Data Qualifier Summary

Analytical results were qualified as listed in Table 8. Refer to the attached validation worksheets and the sections below for an explanation of the data qualifiers applied.

Table 8. Data Qualifiers

Sample Number	Location	Analyte	Flag	Reason
P0606453-01	BL2-D	Fe	J	Matrix spike failure
P0606453-01	BL2-D	Mn	J	Matrix spike failure
P0606453-02	BL2-M	Fe	J	Matrix spike failure
P0606453-02	BL2-M	Mn	J	Matrix spike failure
P0606453-03	BL2-S	Fe	J	Matrix spike failure
P0606453-03	BL2-S	Mn	J	Matrix spike failure
P0606453-04	BL3-D	Fe	J	Matrix spike failure
P0606453-04	BL3-D	Mn	J	Matrix spike failure
P0606453-05	BL3-M	Fe	J	Matrix spike failure
P0606453-05	BL3-M	Mn	J	Matrix spike failure

Sample Shipping/Receiving

Microseeps, in Pittsburgh, Pennsylvania, received 14 water samples between June 22, 2006, and June 28, 2006, accompanied by a COC form. The COC form was checked to confirm that all of the samples were listed, with sample collection dates and times, and that signatures and dates were present, indicating sample relinquishment and receipt. The COC form was complete, with no errors or omissions.

Preservation and Holding Times

The sample shipment was received cool and intact. All samples were received in the correct container types and had been preserved correctly for the requested analyses. There are no standard holding times for these analytes, and the analyses were completed as quickly as possible.

Laboratory Instrument Calibration

Data for this RIN were reported at Analysis Service Level C (results plus quality control) and do not include calibration data.

Method Blanks

All method blank results were below the practical quantitation limits.

Matrix Spike Analysis

MS/MSD samples were analyzed for iron (II) and manganese (II) as a measure of method performance in the sample matrix. Spike data are not evaluated when the concentration of the unspiked sample is greater than four times the spike concentration. The MS and MSD recoveries failed to meet the acceptance for the samples analyzed on June 27, 2006. Sample results from June 27, 2006, are qualified with a "J" flag as estimated values.

Laboratory Replicate Analysis

The RPD values for the laboratory control sample duplicate samples and MSD sample results for all analytes were less than 20 percent, indicating acceptable precision.

Laboratory Control Sample

Laboratory control samples (LCS) 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 LCS results were acceptable for all analysis categories.

Detection Limits/Dilutions

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

Completeness

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

Electronic Data Deliverable File

The EDD file arrived on July 7, 2006. 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.

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. Two equipment blanks were collected and analyzed for the same constituents as the Moab samples. Analyte concentrations measured in the equipment blanks, with the exception of one nitrate result, were below their respective contract-required detection limits and are considered acceptable. Two duplicate samples were collected. There are no established regulatory criteria for the evaluation of field duplicate samples; therefore, U.S. Environmental Protection Agency guidance for laboratory duplicates (which is conservative for field duplicates) was used to assess the precision of the field duplicates. Duplicate results, with the exception of one lithium, manganese, nitrate, and uranium-234, met the laboratory criteria of +/- 20 RPD and are considered acceptable.

Certification

Results were reported in correct units for all analytes requested. Appropriate contract-required laboratory qualifiers and target analyte lists were used. The required detection limits 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 9-27-2006
Steve Donivan Date

Field Activities Validation Lead: John Ford 9-27-2006
for Jeff Price Date

End of current text

Attachment 1

Data Presentation

Water Quality Data

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	150			#	-	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	320			#	-	-
	mg/L	BL1-D	WL	06/27/2006	0001	0.00 - 0.00	126	F		#	-	-
	mg/L	BL1-M	WL	06/27/2006	0001	0.00 - 0.00	170	F		#	-	-
	mg/L	BL1-S	WL	06/27/2006	0001	0.00 - 0.00	250	F		#	-	-
	mg/L	BL2-D	WL	06/26/2006	0001	0.00 - 0.00	112	F		#	-	-
	mg/L	BL2-M	WL	06/26/2006	0001	0.00 - 0.00	125	F		#	-	-
	mg/L	BL2-S	WL	06/26/2006	0001	0.00 - 0.00	206	F		#	-	-
	mg/L	BL3-D	WL	06/26/2006	0001	0.00 - 0.00	208	F		#	-	-
	mg/L	BL3-M	WL	06/26/2006	0001	0.00 - 0.00	250	F		#	-	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	0.00 - 0.00	440	F		#	-	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	174	F		#	-	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	0.00 - 0.00	242	FQ		#	-	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	0.00 - 0.00	258	F		#	-	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	0.00 - 0.00	170	F		#	-	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	0.00 - 0.00	236	F		#	-	-
Aluminum	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0068	U		#	0.0068	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0068	U		#	0.0068	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.140	U	F	#	0.14	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.140	U	F	#	0.14	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.140	U	F	#	0.14	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.068	U	F	#	0.068	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.140	U	F	#	0.14	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.140	U	F	#	0.14	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.140	U	F	#	0.14	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.140	U	F	#	0.14	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Aluminum	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.140	U	F	#	0.14	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.034	U	F	#	0.034	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.140	U	F	#	0.14	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.020	U	FQ	#	0.02	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.014	U	FQ	#	0.014	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.0068	U	FQ	#	0.0068	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.0068	U	FQ	#	0.0068	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.0068	U	FQ	#	0.0068	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.0068	U	FQ	#	0.0068	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.0068	U	FQ	#	0.0068	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.0068	U	FQ	#	0.0068	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.0068	U	F	#	0.0068	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.0068	U	F	#	0.0068	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.140	U	F	#	0.14	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.140	U	FQ	#	0.14	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.020	U	FQ	#	0.02	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.014	U	FQ	#	0.014	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.0068	U	FQ	#	0.0068	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.140	U	FQ	#	0.14	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.140	U	F	#	0.14	-
Ammonia Total as N	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.25			#	0.1	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	2.1		F	#	0.1	-
	mg/L	BL1-D	+WL	06/27/2006	0002	140.00 - 140.00	2.3		F	#	0.1	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.62		F	#	0.1	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.49		F	#	0.1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY	
				DATE	ID			LAB	DATA	QA			
Ammonia Total as N	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	3		F	#	0.1	-	
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	2.7		F	#	0.1	-	
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	2		F	#	0.1	-	
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	3.5		F	#	0.1	-	
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	2.5		F	#	0.1	-	
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.44		F	#	0.1	-	
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	2.2		F	#	0.1	-	
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.44		FQ	#	0.1	-	
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.24		FQ	#	0.1	-	
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.2		FQ	#	0.1	-	
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.1	U	FQ	#	0.1	-	
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.1	U	FQ	#	0.1	-	
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.1	U	FQ	#	0.1	-	
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.65		FQ	#	0.1	-	
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.25		FQ	#	0.1	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.1	U	F	#	0.1	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.1	U	F	#	0.1	-	
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	2.2		F	#	0.1	-	
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	3.7		FQ	#	0.1	-	
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	1.2		FQ	#	0.1	-	
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.25		FQ	#	0.1	-	
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.45		FQ	#	0.1	-	
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.2	U	FQ	#	0.2	-	
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.42		F	#	0.1	-	
	Boron	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.040			#	0.0012	-
		mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.043			#	0.0012	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Boron	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	2.400	F	#		0.023	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	2.400	F	#		0.023	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.067	B	UF	#	0.023	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.042	B	UF	#	0.012	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	3.600	F	#		0.023	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	3.200	F	#		0.023	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	1.000	F	#		0.023	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	4.300	F	#		0.023	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	2.300	F	#		0.023	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.590	F	#		0.0058	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	2.200	F	#		0.023	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.320	FQ	#		0.0034	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.260	FQ	#		0.0023	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.110	FQ	#		0.0012	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.120	FQ	#		0.0012	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.190	FQ	#		0.0012	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.160	FQ	#		0.0012	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.100	E	FQ	#	0.0012	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.170	FQ	#		0.0012	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.072	F	#		0.0012	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.073	F	#		0.0012	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	2.400	F	#		0.023	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	2.900	FQ	#		0.023	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.140	FQ	#		0.0034	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.220	FQ	#		0.0023	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.210	FQ	#		0.0012	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Boron	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.470	B	FQ	#	0.023	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.480	B	F	#	0.023	-
Bromide	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	20	U	F	#	20	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	20	U	F	#	20	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	20	U	F	#	20	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	12		F	#	10	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	21		F	#	20	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	20	U	F	#	20	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	20	U	F	#	20	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	23		F	#	20	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	20	U	F	#	20	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	4	U	F	#	4	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	20	U	F	#	20	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	2	U	FQ	#	2	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	1	U	FQ	#	1	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	1	U	FQ	#	1	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	1	U	FQ	#	1	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	1	U	FQ	#	1	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	1	U	FQ	#	1	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.2	U	FQ	#	0.2	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.2	U	FQ	#	0.2	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	1	U	F	#	1	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	1	U	F	#	1	-
mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	40	U	F	#	40	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	20		FQ	#	20	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	2	U	FQ	#	2	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	1	U	FQ	#	1	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.4	U	FQ	#	0.4	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	11		FQ	#	10	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	10		F	#	10	-
Calcium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	69.000			#	0.0056	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	69.000			#	0.0056	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	1500.000		F	#	0.11	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	1500.000		F	#	0.11	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	2600.000		F	#	0.11	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	2200.000		F	#	0.056	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	1300.000		F	#	0.11	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	1300.000		F	#	0.11	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	2200.000		F	#	0.11	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	1700.000		F	#	0.11	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	1600.000		F	#	0.11	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	370.000		F	#	0.028	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	1400.000		F	#	0.11	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	88.000		FQ	#	0.017	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	120.000		FQ	#	0.011	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	470.000		FQ	#	0.0056	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	430.000		FQ	#	0.0056	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	4.500		FQ	#	0.0056	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	4.300		FQ	#	0.0056	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	120.000		FQ	#	0.0056	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Calcium	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	29.000	FQ	#	0.0056	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	110.000	F	#	0.0056	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	110.000	F	#	0.0056	-	
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	1900.000	F	#	0.11	-	
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	1700.000	FQ	#	0.11	-	
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	390.000	FQ	#	0.017	-	
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	130.000	FQ	#	0.011	-	
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	96.000	FQ	#	0.0056	-	
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	2600.000	FQ	#	0.11	-	
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	2700.000	F	#	0.11	-	
Chloride	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	48		#	2	-	
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	48		#	2	-	
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	57000	F	#	1000	-	
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	50000	F	#	1000	-	
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	38000	F	#	1000	-	
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	17000	F	#	400	-	
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	50000	F	#	1000	-	
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	50000	F	#	1000	-	
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	38000	F	#	1000	-	
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	61000	F	#	1000	-	
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	47000	F	#	1000	-	
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	8100	F	#	100	-	
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	41000	F	#	1000	-	
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	1200	FQ	#	20	-	
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	670	FQ	#	10	-	
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	220	FQ	#	10	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Chloride	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	120		FQ	#	10	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	630		FQ	#	10	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	350		FQ	#	10	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	27		FQ	#	2	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	14		FQ	#	0.2	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	550		F	#	10	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	550		F	#	10	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	47000		F	#	2000	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	50000		FQ	#	1000	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	2600		FQ	#	40	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	1400		FQ	#	20	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	120		FQ	#	4	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	32000		FQ	#	1000	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	29000		F	#	1000	-
Cobalt	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.00075	U		#	0.00075	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.00075	U		#	0.00075	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.031	B	F	#	0.015	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.041	B	F	#	0.015	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.015	U	F	#	0.015	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.0075	U	F	#	0.0075	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.015	U	F	#	0.015	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.015	U	F	#	0.015	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.015	U	F	#	0.015	-
	mg/L	BL3-D	*WL	06/26/2006	0001	99.00 - 99.00	0.015	U	F	#	0.015	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.015	U	F	#	0.015	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.0054	B	F	#	0.0037	-

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

REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Cobalt	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.015	U	F	#	0.015	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.0023	B	FQ	#	0.0022	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.0015	U	FQ	#	0.0015	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.00075	U	FQ	#	0.00075	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.00075	U	FQ	#	0.00075	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.00075	B	FQ	#	0.00075	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.00078	B	FQ	#	0.00075	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.00075	U	FQ	#	0.00075	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.00075	U	FQ	#	0.00075	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.00075	U	F	#	0.00075	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.0014	B	F	#	0.00075	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.015	U	F	#	0.015	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.021	B	FQ	#	0.015	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.0022	U	FQ	#	0.0022	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.0015	B	FQ	#	0.0015	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.00085	B	FQ	#	0.00075	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.015	U	FQ	#	0.015	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.015	U	F	#	0.015	-
Dissolved Organic Carbon	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	2.5			#	1	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	7.9			#	1	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	1	U	F	#	1	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	1	U	F	#	1	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	1	U	F	#	1	-
	mg/L	BL1-S	*WL	06/27/2006	0001	55.00 - 55.00	1	U	F	#	1	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	1	U	F	#	1	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	1	U	F	#	1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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 Organic Carbon	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	1	U	F	#	1	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	1	U	F	#	1	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	1	U	F	#	1	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	1	U	F	#	1	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	2.2		FQ	#	1	-
Dissolved Oxygen	mg/L	0271	SL, RIV	06/22/2006	N001	0.00 - 0.00	6.41			#	-	-
	mg/L	0273	SL, RIV	06/22/2006	N001	0.00 - 0.00	6.25			#	-	-
	mg/L	BL1-D	WL	06/27/2006	N001	0.00 - 0.00	0.77		F	#	-	-
	mg/L	BL1-M	WL	06/27/2006	N001	0.00 - 0.00	0.69		F	#	-	-
	mg/L	BL1-S	WL	06/27/2006	N001	0.00 - 0.00	1.06		F	#	-	-
	mg/L	BL2-D	WL	06/26/2006	N001	0.00 - 0.00	0.97		F	#	-	-
	mg/L	BL2-M	WL	06/26/2006	N001	0.00 - 0.00	0.44		F	#	-	-
	mg/L	BL2-S	WL	06/26/2006	N001	0.00 - 0.00	1.08		F	#	-	-
	mg/L	BL3-D	WL	06/26/2006	N001	0.00 - 0.00	-0.07		F	#	-	-
	mg/L	BL3-M	WL	06/26/2006	N001	0.00 - 0.00	1.28		F	#	-	-
	mg/L	M11-12	WL, PZ	06/23/2006	N001	0.00 - 0.00	2.46		F	#	-	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	0.61		F	#	-	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	N001	0.00 - 0.00	5.02		FQ	#	-	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	3.53		FQ	#	-	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	N001	0.00 - 0.00	7.96		FQ	#	-	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	N001	0.00 - 0.00	5.70		FQ	#	-	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	N001	0.00 - 0.00	5.29		FQ	#	-	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	N001	0.00 - 0.00	2.01		FQ	#	-	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	N001	0.00 - 0.00	7.67		FQ	#	-	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	N001	0.00 - 0.00	8.72		FQ	#	-	-
mg/L	N6-6.4	WL, PZ	06/23/2006	N001	0.00 - 0.00	1.04		F	#	-	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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	N7-10	WL, PZ	06/23/2006	N001	0.00 - 0.00	1.39	F	#	-	-	
	mg/L	N7-11	WL, PZ	06/28/2006	N001	0.00 - 0.00	1.98	FQ	#	-	-	
	mg/L	N7-7	WL, PZ	06/28/2006	N001	0.00 - 0.00	5.63	FQ	#	-	-	
	mg/L	N8-14	WL, PZ	06/28/2006	N001	0.00 - 0.00	4.42	FQ	#	-	-	
	mg/L	N8-6	WL, PZ	06/28/2006	N001	0.00 - 0.00	8.26	FQ	#	-	-	
	mg/L	W1-4.3	WL	06/27/2006	N001	0.00 - 0.00	1.76	FQ	#	-	-	
	mg/L	W1-7	WL, PZ	06/27/2006	N001	0.00 - 0.00	4.29	F	#	-	-	
Fluoride	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.23		#	0.1	-	
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.25		#	0.1	-	
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	10	U	F	#	10	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	10	U	F	#	10	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	10	U	F	#	10	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	5	U	F	#	5	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	10	U	F	#	10	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	10	U	F	#	10	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	10	U	F	#	10	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	10	U	F	#	10	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	10	U	F	#	10	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	2	U	F	#	2	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	10	U	F	#	10	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	1	U	FQ	#	1	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.61		FQ	#	0.5	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.5	U	FQ	#	0.5	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.5	U	FQ	#	0.5	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	1.4		FQ	#	0.5	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	2.5		FQ	#	0.5	-

GENERAL WATER QUALITY DATA BY PARAMETER (USee205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Fluoride	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.1	U FQ #	0.1	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.24	FQ #	0.1	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.5	U F #	0.5	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.5	U F #	0.5	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	20	U F #	20	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	10	U FQ #	10	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	1	U FQ #	1	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.5	U FQ #	0.5	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.2	U FQ #	0.2	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	5	U FQ #	5	-
mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	5	U F #	5	-	
Gross Alpha	pCi/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.94	J #	0.649	± 0.60
	pCi/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	3.1	#	0.803	± 0.89
	pCi/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	200	U F #	200	± 111.
	pCi/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	194	U F #	194	± 106.
	pCi/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	109	U F #	109	± 63.8
	pCi/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	46.2	U F #	46.2	± 30.7
	pCi/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	206	U F #	206	± 112.
	pCi/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	182	U F #	182	± 100.
	pCi/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	116	U F #	116	± 64.6
	pCi/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	189	U F #	189	± 119.
	pCi/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	153	U F #	153	± 92.3
	pCi/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	108	U F #	108	± 60.2
	pCi/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	27.4	FQ #	2.83	± 5.49
Gross Beta	pCi/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	3.5	J #	1.25	± 0.98
	pCi/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	3.05	J #	1.53	± 1.00

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Gross Beta	pCi/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	381	U F #	381	± 241.
	pCi/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	631	FJ #	385	± 262.
	pCi/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	193	U F #	193	± 119.
	pCi/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	115	FJ #	95.4	± 62.1
	pCi/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	490	FJ #	395	± 258.
	pCi/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	771	FJ #	383	± 273.
	pCi/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	346	FJ #	194	± 134.
	pCi/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	1010	FJ #	416	± 311.
	pCi/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	450	U F #	450	± 286.
	pCi/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	369	FJ #	193	± 136.
	pCi/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	20.9	FQJ #	7.04	± 5.66
Iron	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.014	U #	0.014	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.014	U #	0.014	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	7.500	F #	0.27	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	7.400	F #	0.27	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	22.000	F #	0.27	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	1.900	F #	0.14	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	4.400	F #	0.27	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	5.000	F #	0.27	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	22.000	F #	0.27	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.270	U F #	0.27	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.270	U F #	0.27	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	22.000	F #	0.068	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	20.000	F #	0.27	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	40.000	FQ #	0.041	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.870	FQ #	0.027	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Iron	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	12.000		FQ	#	0.014	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	7.400		FQ	#	0.014	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.022	B	UFQ	#	0.014	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.100		FQ	#	0.014	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.200		FQ	#	0.014	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.120		FQ	#	0.014	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.014	U	F	#	0.014	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.014	U	F	#	0.014	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	20.000		F	#	0.27	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	2.200		FQ	#	0.27	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	140.000		FQ	#	0.041	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.120		FQ	#	0.027	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.014	U	FQ	#	0.014	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.270	B	UFQ	#	0.27	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	56.000		F	#	0.27	-
Iron (II)	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.0	U		#	0.1	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.0	U		#	0.1	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	2.0		F	#	0.1	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	2.0		F	#	0.1	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	6.2		F	#	0.1	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.8	J	F	#	0.1	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	2.2	M	FJ	#	0.1	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	1.2	M	FJ	#	0.1	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	30.0	M	FJ	#	0.4	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	1.0	UM	FJ	#	0.1	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	1.0	UM	FJ	#	0.1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Iron (II)	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	5.7		F	#	0.1	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.4	J	F	#	0.1	-
Lithium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.019			#	0.0021	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.014			#	0.0021	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.360		F	#	0.042	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.023		F	#	0.0021	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.220		F	#	0.042	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.140		F	#	0.021	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.260		F	#	0.042	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.280		F	#	0.042	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.042	U	F	#	0.042	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.140	B	F	#	0.042	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.200	B	F	#	0.042	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.097		F	#	0.011	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.170	B	F	#	0.042	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.039		FQ	#	0.0042	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.022		FQ	#	0.0042	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.077		FQ	#	0.0021	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.065		FQ	#	0.0021	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.0021	U	FQ	#	0.0021	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.0083	B	FQ	#	0.0021	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.005	B	FQ	#	0.0021	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.0062	B	FQ	#	0.0021	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.017		F	#	0.0021	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.022		F	#	0.0021	-
mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.110		F	#	0.0021	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Lithium	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.350		FQ	#	0.042	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.020	B	FQ	#	0.0042	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.026		FQ	#	0.0042	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.0089	B	FQ	#	0.0021	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.360		FQ	#	0.042	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.026		F	#	0.0021	-
Magnesium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	17.000			#	0.0068	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	17.000			#	0.0068	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	470.000		F	#	0.14	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	480.000		F	#	0.14	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	600.000		F	#	0.14	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	410.000		F	#	0.068	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	470.000		F	#	0.14	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	450.000		F	#	0.14	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	470.000		F	#	0.14	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	530.000		F	#	0.14	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	430.000		F	#	0.14	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	120.000		F	#	0.034	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	400.000		F	#	0.14	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	76.000		FQ	#	0.02	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	86.000		FQ	#	0.014	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	110.000		FQ	#	0.0068	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	120.000		FQ	#	0.0068	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	2.600		FQ	#	0.0068	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	1.900		FQ	#	0.0068	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	48.000		FQ	#	0.0068	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Magnesium	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	38.000	FQ	#	0.0068	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	35.000	F	#	0.0068	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	34.000	F	#	0.0068	-	
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	540.000	F	#	0.14	-	
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	490.000	FQ	#	0.14	-	
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	160.000	FQ	#	0.02	-	
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	110.000	FQ	#	0.014	-	
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	59.000	FQ	#	0.0068	-	
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	2500.000	FQ	#	0.14	-	
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	2200.000	F	#	0.14	-	
Manganese	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0054		#	0.00023	-	
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0063		#	0.00023	-	
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	4.500	F	#	0.0046	-	
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	4.300	F	#	0.0046	-	
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	5.900	F	#	0.0046	-	
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	10.000	F	#	0.0023	-	
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	2.100	F	#	0.0046	-	
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	4.300	F	#	0.0046	-	
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	10.000	F	#	0.0046	-	
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.042	B	F	#	0.0046	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.430	F	#	0.0046	-	
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.710	F	#	0.0012	-	
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	3.500	F	#	0.0046	-	
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.790	FQ	#	0.00069	-	
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.350	FQ	#	0.00046	-	
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.950	FQ	#	0.00023	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Manganese	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.660	FQ	#	0.00023	-	
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.011	FQ	#	0.00023	-	
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.034	FQ	#	0.00023	-	
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.092	FQ	#	0.00023	-	
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.066	FQ	#	0.00023	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.0058	F	#	0.00023	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.0057	F	#	0.00023	-	
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.830	F	#	0.0046	-	
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.160	FQ	#	0.0046	-	
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	1.800	FQ	#	0.00069	-	
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.077	FQ	#	0.00046	-	
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.110	FQ	#	0.00023	-	
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.570	FQ	#	0.0046	-	
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	18.000	F	#	0.0046	-	
Manganese (II)	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.0	U	#	0.1	-	
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.0	U	#	0.1	-	
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	6.5	F	#	0.1	-	
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	1.2	F	#	0.1	-	
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	7.0	F	#	0.1	-	
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.9	J	F	#	0.1	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	3.0	M	FJ	#	0.1	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	1.1	M	FJ	#	0.1	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	14.0	M	FJ	#	0.6	-
	mg/L	BL3-D	*WL	06/26/2006	0001	99.00 - 99.00	0.2	JM	FJ	#	0.1	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.2	JM	FJ	#	0.1	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	3.0	F	#	0.1	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Manganese (II)	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.2	J F #	0.1	-
Molybdenum	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0038	#	0.00021	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0041	#	0.00021	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.0032	F #	0.00042	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.0041	F #	0.00042	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.0048	F #	0.00042	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.0041	F #	0.00021	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.0027	F #	0.00042	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.0036	F #	0.00042	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.0022	F #	0.00042	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.00058	B F #	0.00042	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.00043	B F #	0.00042	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.017	F #	0.00021	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.0058	F #	0.00042	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.031	FQ #	0.00021	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.040	FQ #	0.00021	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.0043	FQ #	0.00021	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.0029	FQ #	0.00021	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.022	FQ #	0.00021	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.018	FQ #	0.00021	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.0047	FQ #	0.00021	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.0026	FQ #	0.00021	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.014	F #	0.00021	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.013	F #	0.00021	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.0037	B F #	0.001	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.00045	B FQ #	0.00042	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Molybdenum	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.00087	B	FQ	#	0.00021	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.0039		FQ	#	0.00021	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.0093		FQ	#	0.00021	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.0099		FQ	#	0.00042	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.0076		F	#	0.00042	-
Nitrate + Nitrite as Nitrogen	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.21			#	0.01	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.58			#	0.01	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.83		F	#	0.01	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.057		F	#	0.05	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.47		F	#	0.01	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.36		F	#	0.01	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.11		F	#	0.01	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.05		F	#	0.05	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.21		F	#	0.01	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.15		F	#	0.05	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.18		F	#	0.01	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.2		F	#	0.01	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.046		F	#	0.01	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.33		FQ	#	0.01	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.55		FQ	#	0.01	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.067		FQ	#	0.01	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.07		FQ	#	0.01	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	3.3		FQ	#	0.02	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.27		FQ	#	0.01	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.027		FQ	#	0.01	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.12		FQ	#	0.01	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Nitrate + Nitrite as Nitrogen	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	8.6	F	#		0.05	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	7.7	F	#		0.05	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.058	F	#		0.02	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.44	FQ	#		0.01	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.053	FQ	#		0.01	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.19	FQ	#		0.01	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.079	FQ	#		0.01	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.36	FQ	#		0.01	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.062	F	#		0.02	-
ortho-Phosphate as Phosp	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.2	U		#	0.2	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	20	UN	F	#	20	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	20	U	F	#	20	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	34		FJ	#	20	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	10	U	F	#	10	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	20	U	F	#	20	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	20	U	F	#	20	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	20	U	F	#	20	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	20	U	F	#	20	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	20	U	F	#	20	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	7.7		FJ	#	4	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	20	U	F	#	20	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	2	U	FQ	#	2	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	1	U	FQ	#	1	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	1	U	FQ	#	1	-
mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	1	U	FQ	#	1	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
ortho-Phosphate as Phosp	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	1	U	FQ	#	1	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	1	U	FQ	#	1	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.2	U	FQ	#	0.2	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.2	U	FQ	#	0.2	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	1	U	F	#	1	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	1	UN	F	#	1	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	40	U	F	#	40	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	20	U	FQ	#	20	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	2	U	FQ	#	2	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	1	U	FQ	#	1	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.4	U	FQ	#	0.4	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	10	UN	FQ	#	10	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	19		FJ	#	10	-
	Oxidation Reduction Potent	mV	0271	SL, RIV	06/22/2006	N001	0.00 - 0.00	21			#	-
mV		0273	SL, RIV	06/22/2006	N001	0.00 - 0.00	-27			#	-	-
mV		BL1-D	WL	06/27/2006	N001	0.00 - 0.00	-87		F	#	-	-
mV		BL1-M	WL	06/27/2006	N001	0.00 - 0.00	-41		F	#	-	-
mV		BL1-S	WL	06/27/2006	N001	0.00 - 0.00	9		F	#	-	-
mV		BL2-D	WL	06/26/2006	N001	0.00 - 0.00	-161		F	#	-	-
mV		BL2-M	WL	06/26/2006	N001	0.00 - 0.00	-155		F	#	-	-
mV		BL2-S	WL	06/26/2006	N001	0.00 - 0.00	-61		F	#	-	-
mV		BL3-D	WL	06/26/2006	N001	0.00 - 0.00	-283		F	#	-	-
mV		BL3-M	WL	06/26/2006	N001	0.00 - 0.00	-273		F	#	-	-
mV		M11-12	WL, PZ	06/23/2006	N001	0.00 - 0.00	-85		F	#	-	-
mV		M11-14.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	-168		F	#	-	-
mV		M11-4.8	WL, PZ	06/27/2006	N001	0.00 - 0.00	-101		FQ	#	-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Oxidation Reduction Potent	mV	M11-7.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	-215	FQ #	-	-
	mV	N2-12.8	WL, PZ	06/28/2006	N001	0.00 - 0.00	-73	FQ #	-	-
	mV	N2-6.5	WL, PZ	06/28/2006	N001	0.00 - 0.00	-102	FQ #	-	-
	mV	N3-4.3	WL, PZ	06/29/2006	N001	0.00 - 0.00	-147.7	FQ #	-	-
	mV	N3-8.3	WL, PZ	06/28/2006	N001	0.00 - 0.00	-140	FQ #	-	-
	mV	N4-12.0	WL, PZ	06/28/2006	N001	0.00 - 0.00	-136	FQ #	-	-
	mV	N4-3.2	WL, PZ	06/29/2006	N001	0.00 - 0.00	-81	FQ #	-	-
	mV	N6-6.4	WL, PZ	06/23/2006	N001	0.00 - 0.00	-19	F #	-	-
	mV	N7-10	WL, PZ	06/23/2006	N001	0.00 - 0.00	-54	F #	-	-
	mV	N7-11	WL, PZ	06/28/2006	N001	0.00 - 0.00	91	FQ #	-	-
	mV	N7-7	WL, PZ	06/28/2006	N001	0.00 - 0.00	-0.4	FQ #	-	-
	mV	N8-14	WL, PZ	06/28/2006	N001	0.00 - 0.00	-51	FQ #	-	-
	mV	N8-6	WL, PZ	06/28/2006	N001	0.00 - 0.00	-54	FQ #	-	-
	mV	W1-4.3	WL	06/27/2006	N001	0.00 - 0.00	65	FQ #	-	-
	mV	W1-7	WL, PZ	06/27/2006	N001	0.00 - 0.00	-61	F #	-	-
pH	s.u.	0271	SL, RIV	06/22/2006	N001	0.00 - 0.00	8.31	#	-	-
	s.u.	0273	SL, RIV	06/22/2006	N001	0.00 - 0.00	8.22	#	-	-
	s.u.	BL1-D	WL	06/27/2006	N001	0.00 - 0.00	7.02	F #	-	-
	s.u.	BL1-M	WL	06/27/2006	N001	0.00 - 0.00	6.48	F #	-	-
	s.u.	BL1-S	WL	06/27/2006	N001	0.00 - 0.00	6.45	F #	-	-
	s.u.	BL2-D	WL	06/26/2006	N001	0.00 - 0.00	6.97	F #	-	-
	s.u.	BL2-M	WL	06/26/2006	N001	0.00 - 0.00	6.93	F #	-	-
	s.u.	BL2-S	WL	06/26/2006	N001	0.00 - 0.00	6.37	F #	-	-
	s.u.	BL3-D	* WL	06/26/2006	N001	0.00 - 0.00	6.38	F #	-	-
	s.u.	BL3-M	WL	06/26/2006	N001	0.00 - 0.00	6.63	F #	-	-
	s.u.	M11-12	WL, PZ	06/23/2006	N001	0.00 - 0.00	6.93	F #	-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
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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.	M11-14.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	6.69	F	#	-	-	
	s.u.	M11-4.8	WL, PZ	06/27/2006	N001	0.00 - 0.00	8.32	FQ	#	-	-	
	s.u.	M11-7.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	7.84	FQ	#	-	-	
	s.u.	N2-12.8	WL, PZ	06/28/2006	N001	0.00 - 0.00	7.81	FQ	#	-	-	
	s.u.	N2-6.5	WL, PZ	06/28/2006	N001	0.00 - 0.00	8.34	FQ	#	-	-	
	s.u.	N3-4.3	WL, PZ	06/29/2006	N001	0.00 - 0.00	8.76	FQ	#	-	-	
	s.u.	N3-8.3	WL, PZ	06/28/2006	N001	0.00 - 0.00	8.44	FQ	#	-	-	
	s.u.	N4-12.0	WL, PZ	06/28/2006	N001	0.00 - 0.00	8.08	FQ	#	-	-	
	s.u.	N4-3.2	WL, PZ	06/29/2006	N001	0.00 - 0.00	8.61	FQ	#	-	-	
	s.u.	N6-6.4	WL, PZ	06/23/2006	N001	0.00 - 0.00	7.32	F	#	-	-	
	s.u.	N7-10	WL, PZ	06/23/2006	N001	0.00 - 0.00	6.75	F	#	-	-	
	s.u.	N7-11	WL, PZ	06/28/2006	N001	0.00 - 0.00	6.93	FQ	#	-	-	
	s.u.	N7-7	WL, PZ	06/28/2006	N001	0.00 - 0.00	6.70	FQ	#	-	-	
	s.u.	N8-14	WL, PZ	06/28/2006	N001	0.00 - 0.00	7.81	FQ	#	-	-	
	s.u.	N8-6	WL, PZ	06/28/2006	N001	0.00 - 0.00	7.96	FQ	#	-	-	
	s.u.	W1-4.3	WL	06/27/2006	N001	0.00 - 0.00	6.76	FQ	#	-	-	
	s.u.	W1-7	WL, PZ	06/27/2006	N001	0.00 - 0.00	6.79	F	#	-	-	
	Potassium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	3.300		#	0.074	-
mg/L		0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	3.500		#	0.074	-	
mg/L		BL1-D	WL	06/27/2006	0001	140.00 - 140.00	810.000	F	#	1.5	-	
mg/L		BL1-D	WL	06/27/2006	0002	140.00 - 140.00	770.000	F	#	1.5	-	
mg/L		BL1-M	WL	06/27/2006	0001	99.00 - 99.00	200.000	F	#	1.5	-	
mg/L		BL1-S	WL	06/27/2006	0001	55.00 - 55.00	150.000	F	#	0.74	-	
mg/L		BL2-D	*WL	06/26/2006	0001	140.00 - 140.00	1100.000	F	#	1.5	-	
mg/L		BL2-M	WL	06/26/2006	0001	100.00 - 100.00	930.000	F	#	1.5	-	
mg/L		BL2-S	WL	06/26/2006	0001	54.00 - 54.00	310.000	F	#	1.5	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Potassium	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	1400.000	F	#		1.5	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	930.000	F	#		1.5	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	110.000	F	#		0.37	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	530.000	F	#		1.5	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	16.000	FQ	#		0.22	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	15.000	FQ	#		0.15	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	12.000	FQ	#		0.074	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	9.700	FQ	#		0.074	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	38.000	FQ	#		0.074	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	10.000	FQ	#		0.074	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	5.100	FQ	#		0.074	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	3.800	FQ	#		0.074	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	10.000	F	#		0.074	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	10.000	F	#		0.074	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	970.000	F	#		1.5	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	1100.000	FQ	#		1.5	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	57.000	FQ	#		0.22	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	16.000	FQ	#		0.15	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	14.000	FQ	#		0.074	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	300.000	FQ	#		1.5	-
mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	270.000	F	#		1.5	-	
Radium-226	pCi/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.907	U		#	0.907	± 0.56
	pCi/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.478	U		#	0.478	± 0.24
	pCi/L	BL1-D	*WL	06/27/2006	0001	140.00 - 140.00	1.06	U	F	#	1.06	± 0.58
	pCi/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	2.08	U	F	#	2.08	± 1.09
	pCi/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	3.47	U	F	#	3.47	± 1.91

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Radium-226	pCi/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.867	U	F	#	0.867	± 0.46
	pCi/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.91		F	#	0.228	± 0.37
	pCi/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.617		FJ	#	0.415	± 0.35
	pCi/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.526	U	F	#	0.526	± 0.31
	pCi/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	21.8		F	#	1.43	± 5.74
	pCi/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	8.46		F	#	0.498	± 2.38
	pCi/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.649	U	F	#	0.649	± 0.36
	pCi/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.952	U	FQ	#	0.952	± 0.50
Radon-222	pCi/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	43.6	U		#	43.6	± 24.7
	pCi/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	43.2	U		#	43.2	± 24.5
	pCi/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	101		FJ	#	36	± 27.3
	pCi/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	83.5		FJ	#	35.5	± 25.7
	pCi/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	108		FJ	#	35.8	± 27.7
	pCi/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	181		FJ	#	36.4	± 34.3
	pCi/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	142		FJ	#	38.5	± 31.8
	pCi/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	131		FJ	#	38.8	± 31.1
	pCi/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	51.5		FJ	#	39.1	± 25.6
	pCi/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	125		FJ	#	40.7	± 31.6
	pCi/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	192		FJ	#	40.7	± 37.4
	pCi/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	129		FJ	#	36.3	± 29.7
pCi/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	54.7	U	FQ	#	54.7	± 33.8	
Selenium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0016			#	0.00002	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0016			#	0.00002	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.00055	B	F	#	0.0002	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.00042	B	UF	#	0.0002	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.00041	B	UF	#	0.0002	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Selenium	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.00032	B	UF	#	0.0002	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.00039	B	UF	#	0.0002	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.00036	B	UF	#	0.0002	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.00035	B	UF	#	0.0002	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.0018		F	#	0.0002	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.0012		F	#	0.0002	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.00007	B	F	#	0.00004	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.00041	B	UF	#	0.0002	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.0001		FQ	#	0.00002	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.00009	B	UFQ	#	0.00002	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.00004	B	UFQ	#	0.00002	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.00002	B	UFQ	#	0.00002	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.017		FQ	#	0.0001	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.00056		FQ	#	0.00002	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.00032		FQ	#	0.00002	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.00012		FQ	#	0.00002	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.005		F	#	0.00002	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.0051		F	#	0.00002	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.00051	B	UF	#	0.0002	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.00057	B	UFQ	#	0.0002	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.00006	B	UFQ	#	0.00002	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.00037		FQ	#	0.00002	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.00018		FQ	#	0.00002	-
mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.0011		FQ	#	0.0002	-	
mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.00073	B	UF	#	0.0002	-	
Sodium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	43.000			#	0.0035	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Sodium	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	43.000			#	0.0035	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	27000.000	F		#	3.5	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	27000.000	F		#	3.5	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	18000.000	F		#	3.5	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	6500.000	F		#	1.8	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	27000.000	F		#	3.5	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	26000.000	F		#	3.5	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	19000.000	F		#	3.5	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	31000.000	F		#	3.5	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	24000.000	F		#	3.5	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	4300.000	F		#	0.35	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	21000.000	F		#	3.5	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	950.000	FQ		#	0.18	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	520.000	FQ		#	0.18	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	110.000	FQ		#	0.035	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	82.000	FQ		#	0.0035	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	560.000	FQ		#	0.18	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	440.000	FQ		#	0.18	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	30.000	FQ		#	0.0035	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	27.000	FQ		#	0.0035	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	330.000	F		#	0.035	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	330.000	F		#	0.035	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	28000.000	F		#	3.5	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	28000.000	FQ		#	3.5	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	1300.000	FQ		#	0.18	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	580.000	FQ		#	0.18	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Sodium	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	240.000	FQ	#	0.035	-	
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	12000.000	FQ	#	3.5	-	
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	11000.000	F	#	3.5	-	
Specific Conductance	umhos/cm	0271	SL, RIV	06/22/2006	N001	0.00 - 0.00	685		#	-	-	
	umhos/cm	0273	SL, RIV	06/22/2006	N001	0.00 - 0.00	689		#	-	-	
	umhos/cm	BL1-D	WL	06/27/2006	N001	0.00 - 0.00	124100	F	#	-	-	
	umhos/cm	BL1-M	WL	06/27/2006	N001	0.00 - 0.00	101900	F	#	-	-	
	umhos/cm	BL1-S	WL	06/27/2006	N001	0.00 - 0.00	47900	F	#	-	-	
	umhos/cm	BL2-D	WL	06/26/2006	N001	0.00 - 0.00	126800	F	#	-	-	
	umhos/cm	BL2-M	WL	06/26/2006	N001	0.00 - 0.00	122200	F	#	-	-	
	umhos/cm	BL2-S	WL	06/26/2006	N001	0.00 - 0.00	96700	F	#	-	-	
	umhos/cm	BL3-D	WL	06/26/2006	N001	0.00 - 0.00	142100	F	#	-	-	
	umhos/cm	BL3-M	WL	06/26/2006	N001	0.00 - 0.00	115500	F	#	-	-	
	umhos/cm	M11-12	WL, PZ	06/23/2006	N001	0.00 - 0.00	25660	F	#	-	-	
	umhos/cm	M11-14.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	101700	F	#	-	-	
	umhos/cm	M11-4.8	WL, PZ	06/27/2006	N001	0.00 - 0.00	6722	FQ	#	-	-	
	umhos/cm	M11-7.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	13520	FQ	#	-	-	
	umhos/cm	N2-12.8	WL, PZ	06/28/2006	N001	0.00 - 0.00	1745	FQ	#	-	-	
	umhos/cm	N2-6.5	WL, PZ	06/28/2006	N001	0.00 - 0.00	3405	FQ	#	-	-	
	umhos/cm	N3-4.3	WL, PZ	06/29/2006	N001	0.00 - 0.00	4146	FQ	#	-	-	
	umhos/cm	N3-8.3	WL, PZ	06/28/2006	N001	0.00 - 0.00	2544	FQ	#	-	-	
	umhos/cm	N4-12.0	WL, PZ	06/28/2006	N001	0.00 - 0.00	1027	FQ	#	-	-	
	umhos/cm	N4-3.2	WL, PZ	06/29/2006	N001	0.00 - 0.00	691	FQ	#	-	-	
	umhos/cm	N6-6.4	WL, PZ	06/23/2006	N001	0.00 - 0.00	2808	F	#	-	-	
	umhos/cm	N7-10	WL, PZ	06/23/2006	N001	0.00 - 0.00	126200	F	#	-	-	
	umhos/cm	N7-11	WL, PZ	06/28/2006	N001	0.00 - 0.00	124900	FQ	#	-	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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	N7-7	WL, PZ	06/28/2006	N001	0.00 - 0.00	7389	FQ	#	-	-	
	umhos/cm	N8-14	WL, PZ	06/28/2006	N001	0.00 - 0.00	3444	FQ	#	-	-	
	umhos/cm	N8-6	WL, PZ	06/28/2006	N001	0.00 - 0.00	1899	FQ	#	-	-	
	umhos/cm	W1-4.3	WL	06/27/2006	N001	0.00 - 0.00	78880	FQ	#	-	-	
	umhos/cm	W1-7	WL, PZ	06/27/2006	N001	0.00 - 0.00	74430	F	#	-	-	
Strontium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.580		#	7.3E-05	-	
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.580		#	7.3E-05	-	
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	32.000	F	#	0.0015	-	
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	30.000	F	#	0.0015	-	
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	44.000	F	#	0.0015	-	
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	41.000	F	#	0.00073	-	
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	27.000	F	#	0.0015	-	
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	29.000	F	#	0.0015	-	
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	34.000	F	#	0.0015	-	
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	30.000	F	#	0.0015	-	
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	27.000	F	#	0.0015	-	
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	7.500	F	#	0.00036	-	
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	29.000	F	#	0.0015	-	
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	2.500	FQ	#	0.00022	-	
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	3.100	FQ	#	0.00015	-	
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	2.900	FQ	#	7.3E-05	-	
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	3.000	FQ	#	7.3E-05	-	
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.160	FQ	#	7.3E-05	-	
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.120	FQ	#	7.3E-05	-	
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	2.600	FQ	#	7.3E-05	-	
mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	1.400	FQ	#	7.3E-05	-		

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Strontium	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	2.500	F	#	7.3E-05	-	
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	2.500	F	#	7.3E-05	-	
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	33.000	F	#	0.0015	-	
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	29.000	FQ	#	0.0015	-	
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	6.000	FQ	#	0.00022	-	
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	5.600	FQ	#	0.00015	-	
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	2.800	FQ	#	7.3E-05	-	
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	65.000	FQ	#	0.0015	-	
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	60.000	F	#	0.0015	-	
Sulfate	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	140		#	5	-	
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	140		#	5	-	
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	4600	N	F	#	50	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	4700		F	#	50	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	2800		F	#	50	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	1100		F	#	25	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	4500		F	#	50	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	4300		F	#	50	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	3600		F	#	50	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	5500		F	#	50	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	5200		F	#	50	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	1200		F	#	10	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	3700		F	#	50	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	940		FQ	#	5	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	490		FQ	#	25	-
mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	1200		FQ	#	25	-	
mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	1100		FQ	#	25	-	

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	160	FQ	#		2.5	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	250	FQ	#		2.5	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	58	FQ	#		0.5	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	21	FQ	#		0.5	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	240	F	#		2.5	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	240	F	#		2.5	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	4700	F	#		100	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	5000	FQ	#		50	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	620	FQ	#		5	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	520	FQ	#		25	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	350	FQ	#		10	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	3300	FQ	#		25	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	3100	F	#		25	-
Temperature	C	0271	SL, RIV	06/22/2006	N001	0.00 - 0.00	23.03		#		-	-
	C	0273	SL, RIV	06/22/2006	N001	0.00 - 0.00	24.43		#		-	-
	C	BL1-D	WL	06/27/2006	N001	0.00 - 0.00	15.51	F	#		-	-
	C	BL1-M	WL	06/27/2006	N001	0.00 - 0.00	16.95	F	#		-	-
	C	BL1-S	WL	06/27/2006	N001	0.00 - 0.00	15.93	F	#		-	-
	C	BL2-D	WL	06/26/2006	N001	0.00 - 0.00	19.32	F	#		-	-
	C	BL2-M	WL	06/26/2006	N001	0.00 - 0.00	18.87	F	#		-	-
	C	BL2-S	WL	06/26/2006	N001	0.00 - 0.00	18.22	F	#		-	-
	C	BL3-D	WL	06/26/2006	N001	0.00 - 0.00	14.31	F	#		-	-
	C	BL3-M	WL	06/26/2006	N001	0.00 - 0.00	14.34	F	#		-	-
	C	M11-12	WL, PZ	06/23/2006	N001	0.00 - 0.00	20.63	F	#		-	-
	C	M11-14.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	16.45	F	#		-	-
	C	M11-4.8	WL, PZ	06/27/2006	N001	0.00 - 0.00	28.21	FQ	#		-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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	M11-7.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	27.16	FQ #	-	-
	C	N2-12.8	WL, PZ	06/28/2006	N001	0.00 - 0.00	16.98	FQ #	-	-
	C	N2-6.5	WL, PZ	06/28/2006	N001	0.00 - 0.00	20.65	FQ #	-	-
	C	N3-4.3	WL, PZ	06/29/2006	N001	0.00 - 0.00	24.58	FQ #	-	-
	C	N3-8.3	WL, PZ	06/28/2006	N001	0.00 - 0.00	16.86	FQ #	-	-
	C	N4-12.0	WL, PZ	06/28/2006	N001	0.00 - 0.00	16.24	FQ #	-	-
	C	N4-3.2	WL, PZ	06/29/2006	N001	0.00 - 0.00	16.82	FQ #	-	-
	C	N6-6.4	WL, PZ	06/23/2006	N001	0.00 - 0.00	14.95	F #	-	-
	C	N7-10	WL, PZ	06/23/2006	N001	0.00 - 0.00	14.10	F #	-	-
	C	N7-11	WL, PZ	06/28/2006	N001	0.00 - 0.00	22.02	FQ #	-	-
	C	N7-7	WL, PZ	06/28/2006	N001	0.00 - 0.00	19.81	FQ #	-	-
	C	N8-14	WL, PZ	06/28/2006	N001	0.00 - 0.00	20.11	FQ #	-	-
	C	N8-6	WL, PZ	06/28/2006	N001	0.00 - 0.00	16.94	FQ #	-	-
	C	W1-4.3	WL	06/27/2006	N001	0.00 - 0.00	18.75	FQ #	-	-
	C	W1-7	WL, PZ	06/27/2006	N001	0.00 - 0.00	17.88	F #	-	-
Total Dissolved Solids	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	410	#	20	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	420	#	20	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	97000	F #	2000	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	97000	F #	2000	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	84000	F #	2000	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	40000	F #	1000	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	100000	F #	2000	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	95000	F #	2000	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	78000	F #	2000	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	120000	F #	2000	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	91000	F #	2000	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Total Dissolved Solids	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	16000	F #	400	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	78000	F #	2000	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	3800	FQ #	200	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	2500	FQ #	80	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	2400	FQ #	40	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	2200	FQ #	40	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	1800	FQ #	40	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	1500	FQ #	40	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	600	FQ #	20	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	350	FQ #	40	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	1600	F #	40	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	1600	F #	80	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	100000	F #	2000	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	100000	FQ #	2000	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	5900	FQ #	200	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	3400	FQ #	80	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	1300	FQ #	40	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	70000	FQ #	2000	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	66000	F #	2000	-
Total Organic Carbon	mg/L	0271	SL, RIV	06/22/2006	N001	0.00 - 0.00	2.6	#	1	-
	mg/L	0273	SL, RIV	06/22/2006	N001	0.00 - 0.00	2.9	#	1	-
	mg/L	BL1-D	WL	06/27/2006	N001	140.00 - 140.00	1	U F #	1	-
	mg/L	BL1-D	WL	06/27/2006	N002	140.00 - 140.00	1	U F #	1	-
	mg/L	BL1-M	* WL	06/27/2006	N001	99.00 - 99.00	1	U F #	1	-
	mg/L	BL1-S	WL	06/27/2006	N001	55.00 - 55.00	1	U F #	1	-
	mg/L	BL2-D	WL	06/26/2006	N001	140.00 - 140.00	1	U F #	1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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 Organic Carbon	mg/L	BL2-M	WL	06/26/2006	N001	100.00 - 100.00	1	U	F	#	1	-
	mg/L	BL2-S	WL	06/26/2006	N001	54.00 - 54.00	1	U	F	#	1	-
	mg/L	BL3-D	WL	06/26/2006	N001	99.00 - 99.00	1	U	F	#	1	-
	mg/L	BL3-M	WL	06/26/2006	N001	46.00 - 46.00	1	U	F	#	1	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	N001	48.00 - 48.00	1	U	F	#	1	-
	mg/L	N3-8.3	WL, PZ	06/28/2006	N001	24.00 - 24.00	2.2		FQ	#	1	-
Turbidity	NTU	0271	SL, RIV	06/22/2006	N001	0.00 - 0.00	19.8			#	-	-
	NTU	0273	SL, RIV	06/22/2006	N001	0.00 - 0.00	17.3			#	-	-
	NTU	BL1-D	WL	06/27/2006	N001	0.00 - 0.00	8.83		F	#	-	-
	NTU	BL1-M	WL	06/27/2006	N001	0.00 - 0.00	7.12		F	#	-	-
	NTU	BL1-S	WL	06/27/2006	N001	0.00 - 0.00	10.0		F	#	-	-
	NTU	BL2-D	WL	06/26/2006	N001	0.00 - 0.00	8.70		F	#	-	-
	NTU	BL2-M	WL	06/26/2006	N001	0.00 - 0.00	9.90		F	#	-	-
	NTU	BL2-S	WL	06/26/2006	N001	0.00 - 0.00	9.41		F	#	-	-
	NTU	BL3-D	WL	06/26/2006	N001	0.00 - 0.00	1.49		F	#	-	-
	NTU	BL3-M	WL	06/26/2006	N001	0.00 - 0.00	370		F	#	-	-
	NTU	M11-12	WL, PZ	06/23/2006	N001	0.00 - 0.00	17.5		F	#	-	-
	NTU	M11-14.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	15.8		F	#	-	-
	NTU	M11-4.8	WL, PZ	06/27/2006	N001	0.00 - 0.00	120		FQ	#	-	-
	NTU	M11-7.0	WL, PZ	06/27/2006	N001	0.00 - 0.00	7.70		FQ	#	-	-
	NTU	N2-12.8	WL, PZ	06/28/2006	N001	0.00 - 0.00	51.6		FQ	#	-	-
	NTU	N2-6.5	WL, PZ	06/28/2006	N001	0.00 - 0.00	16.4		FQ	#	-	-
	NTU	N3-4.3	WL, PZ	06/29/2006	N001	0.00 - 0.00	333		FQ	#	-	-
	NTU	N3-8.3	WL, PZ	06/28/2006	N001	0.00 - 0.00	11.3		FQ	#	-	-
	NTU	N4-12.0	WL, PZ	06/28/2006	N001	0.00 - 0.00	18.9		FQ	#	-	-
	NTU	N4-3.2	WL, PZ	06/29/2006	N001	0.00 - 0.00	28.8		FQ	#	-	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	N6-6.4	WL, PZ	06/23/2006	N001	0.00 - 0.00	2.52	F #	-	-
	NTU	N7-10	WL, PZ	06/23/2006	N001	0.00 - 0.00	105	F #	-	-
	NTU	N7-11	WL, PZ	06/28/2006	N001	0.00 - 0.00	127	FQ #	-	-
	NTU	N7-7	WL, PZ	06/28/2006	N001	0.00 - 0.00	127	FQ #	-	-
	NTU	N8-14	WL, PZ	06/28/2006	N001	0.00 - 0.00	600	FQ #	-	-
	NTU	N8-6	WL, PZ	06/28/2006	N001	0.00 - 0.00	40.7	FQ #	-	-
	NTU	W1-4.3	WL	06/27/2006	N001	0.00 - 0.00	5.53	FQ #	-	-
	NTU	W1-7	WL, PZ	06/27/2006	N001	0.00 - 0.00	2.45	F #	-	-
Uranium	mg/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0026	E #	3.4E-06	-
	mg/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0026	E #	3.4E-06	-
	mg/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.00098	F #	6.8E-06	-
	mg/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.0011	F #	6.8E-06	-
	mg/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.0023	F #	6.8E-06	-
	mg/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.0078	F #	3.4E-06	-
	mg/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.0029	F #	6.8E-06	-
	mg/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.0031	F #	6.8E-06	-
	mg/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.003	F #	6.8E-06	-
	mg/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.00015	B UF #	6.8E-06	-
	mg/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.00023	F #	6.8E-06	-
	mg/L	M11-12	WL, PZ	06/23/2006	0001	36.00 - 36.00	0.0012	F #	3.4E-06	-
	mg/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.0011	F #	6.8E-06	-
	mg/L	M11-4.8	WL, PZ	06/27/2006	0001	12.00 - 12.00	0.0022	FQ #	3.4E-06	-
	mg/L	M11-7.0	WL, PZ	06/27/2006	0001	0.00 - 0.00	0.003	FQ #	3.4E-06	-
	mg/L	N2-12.8	WL, PZ	06/28/2006	0001	33.00 - 33.00	0.00026	FQ #	3.4E-06	-
	mg/L	N2-6.5	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.00017	FQ #	3.4E-06	-
	mg/L	N3-4.3	WL, PZ	06/29/2006	0001	14.00 - 14.00	0.032	FQ #	3.4E-06	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
 REPORT DATE: 9/15/2006 11:59 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	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.054	FQ #	3.4E-06	-
	mg/L	N4-12.0	WL, PZ	06/28/2006	0001	0.00 - 0.00	0.0024	FQ #	3.4E-06	-
	mg/L	N4-3.2	WL, PZ	06/29/2006	0001	8.00 - 8.00	0.00024	UFQ #	3.4E-06	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0001	12.00 - 12.00	0.0065	F #	3.4E-06	-
	mg/L	N6-6.4	WL, PZ	06/23/2006	0002	12.00 - 12.00	0.0065	F #	3.4E-06	-
	mg/L	N7-10	WL, PZ	06/23/2006	0001	32.00 - 32.00	0.0035	F #	1.7E-05	-
	mg/L	N7-11	WL, PZ	06/28/2006	0001	34.00 - 34.00	0.00015	B UFQ #	6.8E-06	-
	mg/L	N7-7	WL, PZ	06/28/2006	0001	19.00 - 19.00	0.00042	FQ #	3.4E-06	-
	mg/L	N8-14	WL, PZ	06/28/2006	0001	47.00 - 47.00	0.00023	UFQ #	3.4E-06	-
	mg/L	N8-6	WL, PZ	06/28/2006	0001	7.00 - 7.00	0.00087	FQ #	3.4E-06	-
	mg/L	W1-4.3	WL	06/27/2006	0001	13.00 - 13.00	0.048	FQ #	6.8E-06	-
	mg/L	W1-7	WL, PZ	06/27/2006	0001	19.00 - 19.00	0.025	F #	6.8E-06	-
	Uranium-234	pCi/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.57	#	0.0968
pCi/L		0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.69	#	0.0877	± 0.38
pCi/L		BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.573	F #	0.0976	± 0.20
pCi/L		BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.615	F #	0.0857	± 0.20
pCi/L		BL1-M	WL	06/27/2006	0001	99.00 - 99.00	1.2	F #	0.0954	± 0.31
pCi/L		BL1-S	WL	06/27/2006	0001	55.00 - 55.00	2.96	F #	0.0917	± 0.60
pCi/L		BL2-D	WL	06/26/2006	0001	140.00 - 140.00	1.33	F #	0.0943	± 0.34
pCi/L		BL2-M	WL	06/26/2006	0001	100.00 - 100.00	1.8	F #	0.081	± 0.43
pCi/L		BL2-S	WL	06/26/2006	0001	54.00 - 54.00	1.36	F #	0.118	± 0.35
pCi/L		BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.118	UF #	0.112	± 0.09
pCi/L		BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.188	F #	0.138	± 0.12
pCi/L		M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.691	F #	0.181	± 0.23
pCi/L		N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	22.5	FQ #	0.0285	± 3.76
Uranium-235	pCi/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.0767	U #	0.0767	± 0.06

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

REPORT DATE: 9/15/2006 11:59 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-235	pCi/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.108	UJ #	0.0958	± 0.08
	pCi/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.0929	U F #	0.0929	± 0.05
	pCi/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.085	UFJ #	0.0384	± 0.07
	pCi/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.0719	UFJ #	0.039	± 0.07
	pCi/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	0.121	UFJ #	0.081	± 0.08
	pCi/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.0853	UFJ #	0.0385	± 0.07
	pCi/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	0.0953	U F #	0.0953	± 0.07
	pCi/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	0.0938	UFJ #	0.0925	± 0.08
	pCi/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.0882	U F #	0.0882	± 0.05
	pCi/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.129	U F #	0.129	± 0.08
	pCi/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.101	U F #	0.101	± 0.05
	pCi/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	0.785	FQ #	0.0782	± 0.24
Uranium-238	pCi/L	0271	SL, RIV	06/22/2006	0001	0.00 - 0.00	1.02	#	0.0884	± 0.28
	pCi/L	0273	SL, RIV	06/22/2006	0001	0.00 - 0.00	0.966	#	0.0877	± 0.26
	pCi/L	BL1-D	WL	06/27/2006	0001	140.00 - 140.00	0.314	F #	0.0891	± 0.14
	pCi/L	BL1-D	WL	06/27/2006	0002	140.00 - 140.00	0.474	F #	0.076	± 0.17
	pCi/L	BL1-M	WL	06/27/2006	0001	99.00 - 99.00	0.743	F #	0.0954	± 0.23
	pCi/L	BL1-S	WL	06/27/2006	0001	55.00 - 55.00	1.93	F #	0.103	± 0.43
	pCi/L	BL2-D	WL	06/26/2006	0001	140.00 - 140.00	0.93	F #	0.114	± 0.26
	pCi/L	BL2-M	WL	06/26/2006	0001	100.00 - 100.00	1.02	F #	0.081	± 0.28
	pCi/L	BL2-S	WL	06/26/2006	0001	54.00 - 54.00	1.13	F #	0.118	± 0.30
	pCi/L	BL3-D	WL	06/26/2006	0001	99.00 - 99.00	0.075	U F #	0.075	± 0.04
	pCi/L	BL3-M	WL	06/26/2006	0001	46.00 - 46.00	0.0974	U F #	0.0974	± 0.07
	pCi/L	M11-14.0	WL, PZ	06/27/2006	0001	48.00 - 48.00	0.409	F #	0.0945	± 0.16
pCi/L	N3-8.3	WL, PZ	06/28/2006	0001	24.00 - 24.00	14.2	FQ #	0.0553	± 2.42	

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

REPORT DATE: 9/15/2006 11:59 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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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 #6/22/2006# and #6/29/2006#

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

LOCATION TYPES: SL SURFACE LOCATION WL WELL

LOCATION SUBTYPES: PZ Piezometer RIV River

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.
- L Less than 3 bore volumes purged prior to sampling.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- N Presumptive evidence that analyte is present. The analyte is "tentatively identified".
- U Parameter analyzed for but was not detected.
- J Estimated value.
- Q Qualitative result due to sampling technique
- 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: 9/15/2006 12:00 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	WATER ELEVATION (FT)	WATER LEVEL FLAG
			DATE	TIME			
BL1-D		3967.33	06/27/2006	07:58	15.37	3951.96	
BL1-M		3967.21	06/27/2006	10:08	14.25	3952.96	
BL1-S		3966.91	06/27/2006	09:25	12.17	3954.74	
BL2-D		3967.96	06/26/2006	10:38	16.16	3951.80	
BL2-M		3967.78	06/26/2006	11:05	15.88	3951.90	
BL2-S		3967.67	06/26/2006	11:28	14.85	3952.82	
BL3-D		3965.02	06/26/2006	07:50	13.83	3951.19	
BL3-M		3964.93	06/26/2006	08:55	12.25	3952.68	
M11-12	C	3964.16	06/23/2006	10:47	10.97	3953.19	
M11-14.0	C	3964.57	06/26/2006	15:58	2.24	3962.33	
M11-4.8	C	3964.61	06/26/2006	16:20	11.95	3952.66	
M11-7.0	C	3964.56	06/26/2006	16:09	13.85	3950.71	
N2-1.5	C	3962.54	06/27/2006	17:30		-	
N2-12.8	C	3963.11	06/27/2006	16:53	14.53	3948.58	
N2-4.3	C	3962.87	06/27/2006	16:41		-	
N2-6.5	C	3963.01	06/27/2006	16:50	11.34	3951.67	
N3-4.3	C	3964.71	06/27/2006	15:02	8.36	3956.35	
N3-8.3	C	3965.03	06/27/2006	15:08	7.35	3957.68	
N4-12.0	C	3963.27	06/28/2006	08:46	15.21	3948.06	
N4-3.2	C	3962.35	06/28/2006	09:00	7.61	3954.74	
N6-6.4	C	3962.69	06/23/2006	13:48	5.40	3957.29	
N7-10	C	3964.41	06/23/2006	08:45	13.10	3951.31	
N7-11	C	3963.84	06/28/2006	08:14	7.31	3956.53	
N7-7	C	3964.37	06/28/2006	08:06	15.00	3949.37	
N8-14	C	3964.91	06/26/2006	16:38	21.42	3943.49	
N8-3	C	3965.03	06/26/2006	16:50		-	D
N8-6	C	3964.79	06/26/2006	16:45	9.34	3955.45	
W1-10	C	3965.56	06/27/2006	15:41	7.13	3958.43	
W1-4.3	C	3965.39	06/27/2006	16:08	11.21	3954.18	
W1-7	C	3965.43	06/27/2006	15:49	11.60	3953.83	

Blanks Report

BLANKS REPORT

LAB CODE: PAR, PARAGON (Fort Collins, CO)

LAB REQUISITION(S): 06060408

REPORT DATE: 09/15/06 08:41:42: AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE DATE	ID	UNITS	RESULT	QUALIFIERS LAB DATA	DETECTION LIMIT	UNCERTAINTY	SAMPLE TYPE
Aluminum	MOA01	0999	06/23/2006	0001	mg/L	0.0068	U	0.0068		E
Aluminum	MOA01	0999	06/28/2006	0001	mg/L	0.0068	U	0.0068		E
Ammonia Total as N	MOA01	0999	06/23/2006	0001	mg/L	0.1	U	0.1		E
Ammonia Total as N	MOA01	0999	06/28/2006	0001	mg/L	0.1	U	0.1		E
Boron	MOA01	0999	06/23/2006	0001	mg/L	0.0012	U	0.0012		E
Boron	MOA01	0999	06/28/2006	0001	mg/L	0.0012	U	0.0012		E
Bromide	MOA01	0999	06/23/2006	0001	mg/L	0.2	U	0.2		E
Bromide	MOA01	0999	06/28/2006	0001	mg/L	0.2	U	0.2		E
Calcium	MOA01	0999	06/23/2006	0001	mg/L	0.0056	U	0.0056		E
Calcium	MOA01	0999	06/28/2006	0001	mg/L	0.0056	U	0.0056		E
Chloride	MOA01	0999	06/23/2006	0001	mg/L	0.2	U	0.2		E
Chloride	MOA01	0999	06/28/2006	0001	mg/L	0.2	U	0.2		E
Cobalt	MOA01	0999	06/23/2006	0001	mg/L	0.00075	U	0.00075		E
Cobalt	MOA01	0999	06/28/2006	0001	mg/L	0.00075	U	0.00075		E
Dissolved Organic Carbon	MOA01	0999	06/28/2006	0001	mg/L	1	U	1		E
Fluoride	MOA01	0999	06/23/2006	0001	mg/L	0.1	U	0.1		E
Fluoride	MOA01	0999	06/28/2006	0001	mg/L	0.1	U	0.1		E
Gross Alpha	MOA01	0999	06/28/2006	0001	pCi/L	0.724	U	0.724	0.33	E
Gross Beta	MOA01	0999	06/28/2006	0001	pCi/L	1.5	U	1.5	0.76	E
Iron	MOA01	0999	06/23/2006	0001	mg/L	0.014	U	0.014		E
Iron	MOA01	0999	06/28/2006	0001	mg/L	0.014	U	0.014		E
Lithium	MOA01	0999	06/23/2006	0001	mg/L	0.0021	U	0.0021		E

BLANKS REPORT

LAB CODE: PAR, PARAGON (Fort Collins, CO)

LAB REQUISITION(S): 06060408

REPORT DATE: 09/15/06 08:41:42: AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE DATE	ID	UNITS	RESULT	QUALIFIERS LAB DATA	DETECTION LIMIT	UNCERTAINTY	SAMPLE TYPE
Lithium	MOA01	0999	06/28/2006	0001	mg/L	0.0021	U	0.0021		E
Magnesium	MOA01	0999	06/23/2006	0001	mg/L	0.029	B U	0.0068		E
Magnesium	MOA01	0999	06/28/2006	0001	mg/L	0.0081	B U	0.0068		E
Manganese	MOA01	0999	06/23/2006	0001	mg/L	0.00023	U	0.00023		E
Manganese	MOA01	0999	06/28/2006	0001	mg/L	0.00023	U	0.00023		E
Molybdenum	MOA01	0999	06/23/2006	0001	mg/L	0.00021	U	0.00021		E
Molybdenum	MOA01	0999	06/28/2006	0001	mg/L	0.00021	U	0.00021		E
Nitrate + Nitrite as Nitrogen	MOA01	0999	06/23/2006	0001	mg/L	0.45		0.01		E
Nitrate + Nitrite as Nitrogen	MOA01	0999	06/28/2006	0001	mg/L	0.01	U	0.01		E
ortho-Phosphate as Phosphorus	MOA01	0999	06/23/2006	0001	mg/L	0.2	U	0.2		E
ortho-Phosphate as Phosphorus	MOA01	0999	06/28/2006	0001	mg/L	0.2	U	0.2		E
Potassium	MOA01	0999	06/23/2006	0001	mg/L	0.27	B	0.074		E
Potassium	MOA01	0999	06/28/2006	0001	mg/L	0.074	U	0.074		E
Radium-226	MOA01	0999	06/28/2006	0001	pCi/L	0.327	U	0.327	0.15	E
Radon-222	MOA01	0999	06/28/2006	0001	pCi/L	53.2	U	53.2	30	E
Selenium	MOA01	0999	06/23/2006	0001	mg/L	0.00002	U	0.00002		E
Selenium	MOA01	0999	06/28/2006	0001	mg/L	0.000049	B U	0.00002		E
Sodium	MOA01	0999	06/23/2006	0001	mg/L	0.22	B U	0.0035		E
Sodium	MOA01	0999	06/28/2006	0001	mg/L	0.2	B U	0.0035		E
Strontium	MOA01	0999	06/23/2006	0001	mg/L	0.000073	U	0.000073		E
Strontium	MOA01	0999	06/28/2006	0001	mg/L	0.000073	U	0.000073		E
Sulfate	MOA01	0999	06/23/2006	0001	mg/L	0.5	U	0.5		E

BLANKS REPORT

LAB CODE: PAR, PARAGON (Fort Collins, CO)

LAB REQUISITION(S): 06060408

REPORT DATE: 09/15/06 08:41:42: AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE DATE	SAMPLE ID	UNITS	RESULT	QUALIFIERS LAB DATA	DETECTION LIMIT	UNCERTAINTY	SAMPLE TYPE
Sulfate	MOA01	0999	06/28/2006	0001	mg/L	0.5	U	0.5		E
Total Dissolved Solids	MOA01	0999	06/23/2006	0001	mg/L	20	U	20		E
Total Dissolved Solids	MOA01	0999	06/28/2006	0001	mg/L	20	U	20		E
Total Organic Carbon	MOA01	0999	06/28/2006	N001	mg/L	1	U	1		E
Uranium	MOA01	0999	06/23/2006	0001	mg/L	0.000059	B U	0.0000034		E
Uranium	MOA01	0999	06/28/2006	0001	mg/L	0.000019	B U	0.0000034		E
Uranium-234	MOA01	0999	06/28/2006	0001	pCi/L	0.112	U	0.112	0.06	E
Uranium-235	MOA01	0999	06/28/2006	0001	pCi/L	0.0869	U	0.0869	0.06	E
Uranium-238	MOA01	0999	06/28/2006	0001	pCi/L	0.0739	U	0.0739	0.05	E

BLANKS REPORT

LAB CODE: MSP, MICROSEEPS LABORATORY (Pittsburgh, PA)

LAB REQUISITION(S): 06060409

REPORT DATE: 09/15/06 11:27:14: AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE DATE	SAMPLE ID	UNITS	RESULT	QUALIFIERS LAB DATA	DETECTION LIMIT	UNCERTAINTY	SAMPLE TYPE
Iron (II)	MOA01	0999	06/28/2006	0001	mg/L	1	U	0.1		E
Manganese (II)	MOA01	0999	06/28/2006	0001	mg/L	1	U	0.1		E

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

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- 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.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- 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.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.
- J Estimated

DATA QUALIFIERS:

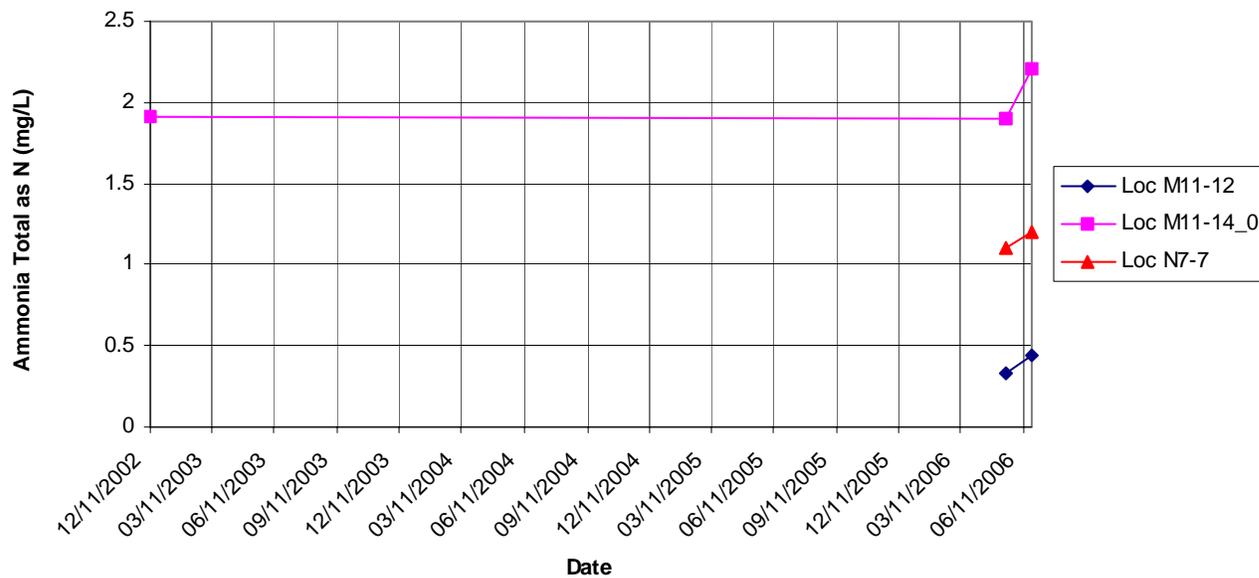
- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- Q Qualitative result due to sampling technique
- G Possible grout contamination, pH > 9.
- X Location is undefined.
-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

SAMPLE TYPES:

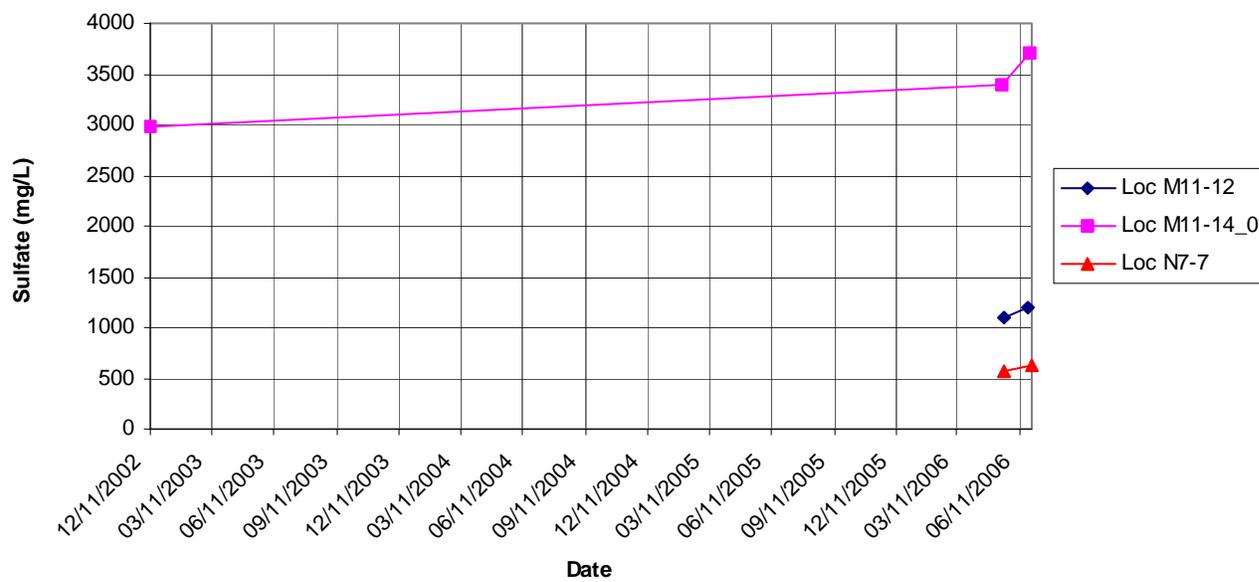
- E EQUIPMENT BLANK

Time Versus Concentration Graphs

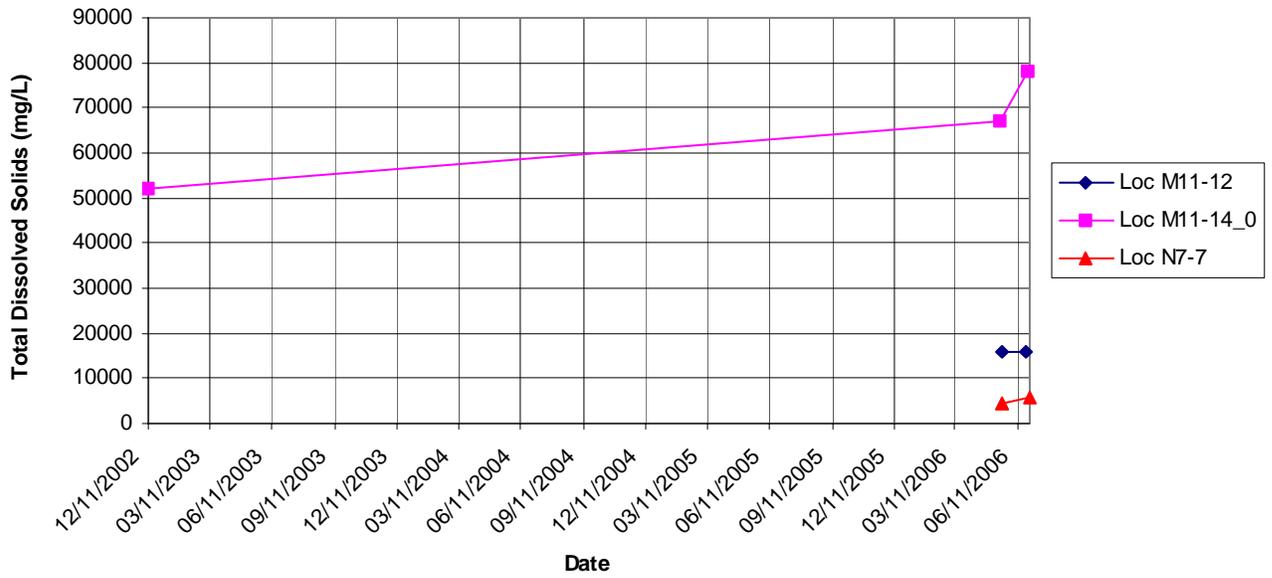
Moab Site
Matheson Wetland Preserve
Ammonia Total as N Concentration



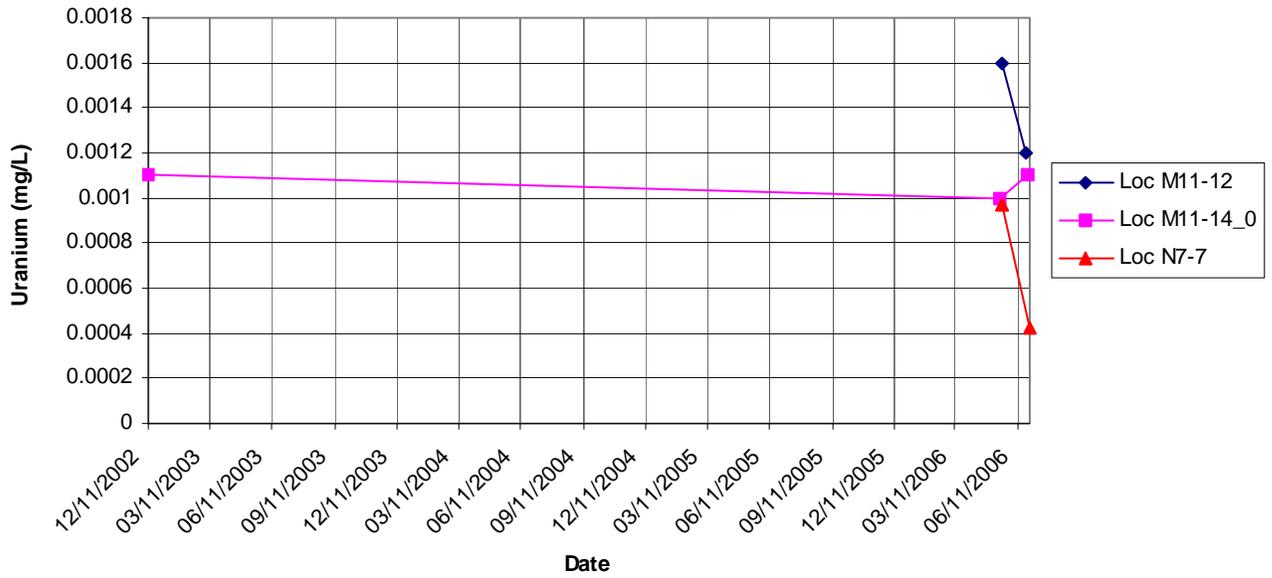
Moab Site
Matheson Wetland Preserve
Sulfate Concentration



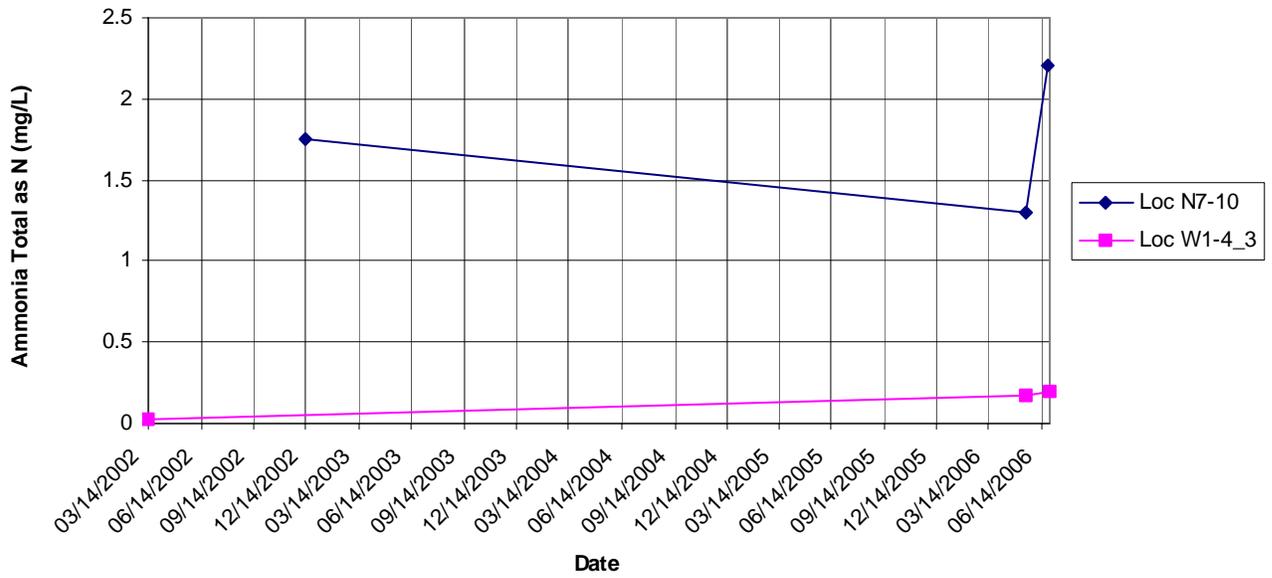
Moab Site
Matheson Wetland Preserve
Total Dissolved Solids Concentration



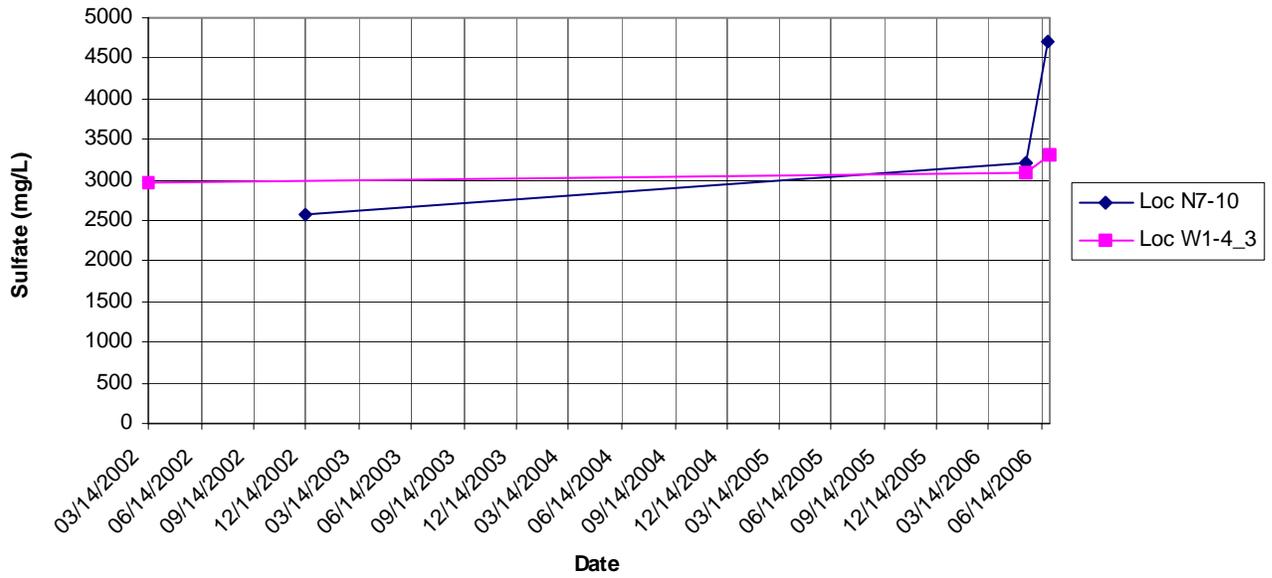
Moab Site
Matheson Wetland Preserve
Uranium Concentration



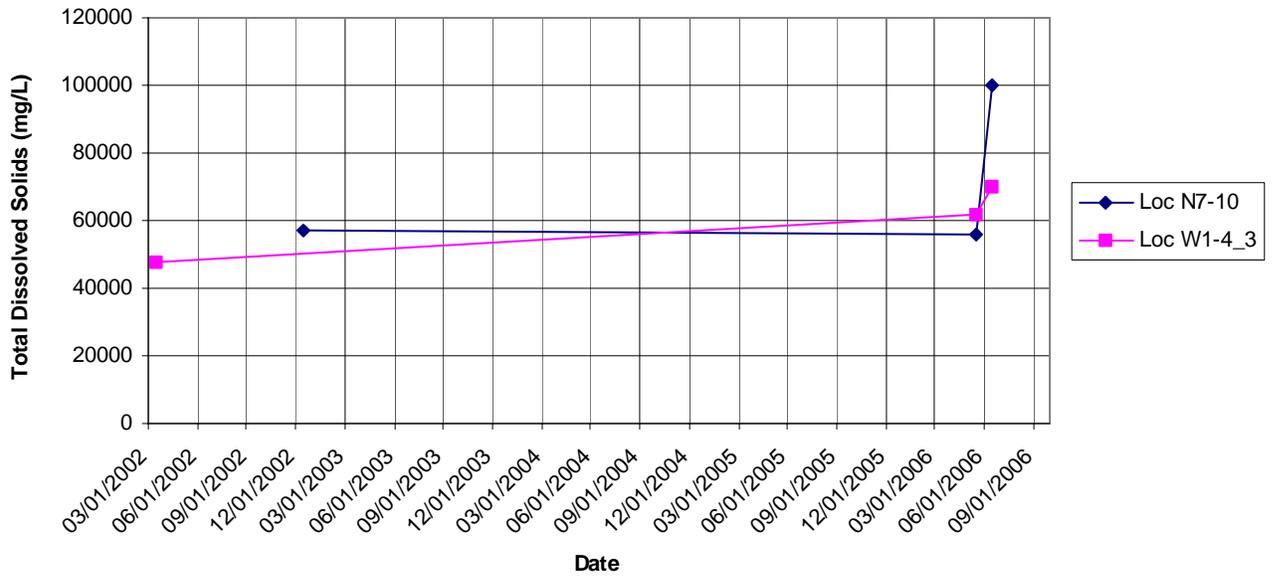
Moab Site
Matheson Wetland Preserve
Ammonia Total as N Concentration



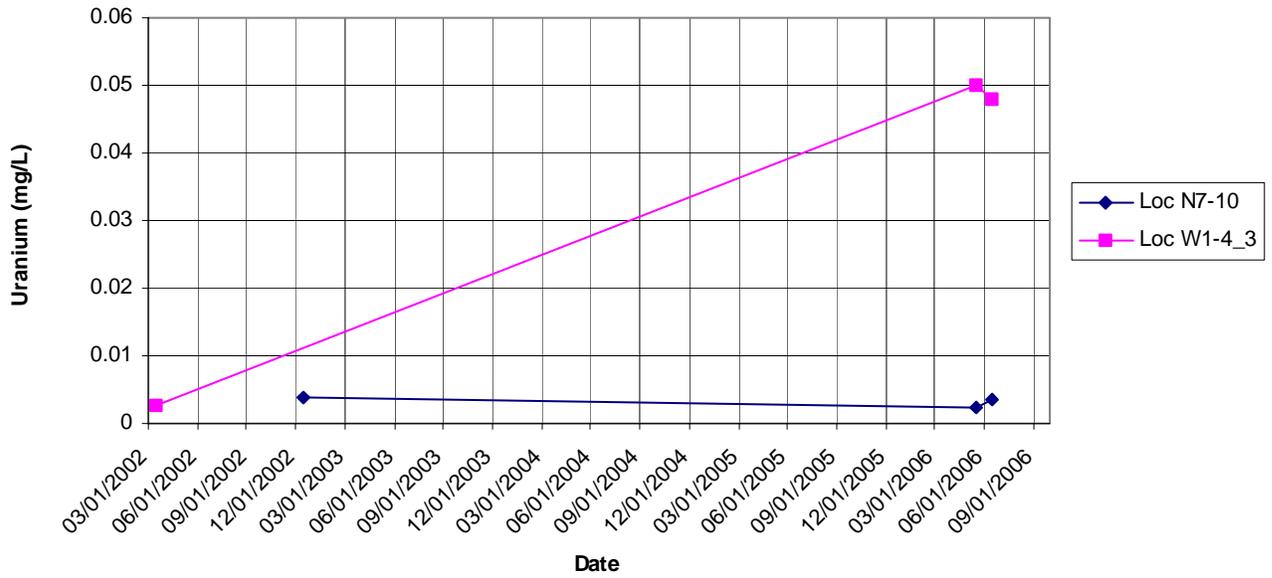
Moab Site
Matheson Wetland Preserve
Sulfate Concentration



**Moab Site
Matheson Wetland Preserve
Total Dissolved Solids Concentration**



**Moab Site
Matheson Wetland Preserve
Uranium Concentration**



Attachment 2

Trip Report

To: John Ford
From: E. M. Glowiak
Date: September 12, 2006
Subject: Trip Report

Site: Moab UMTRA Project – Matheson Wetland Preserve Ground Water and Surface Water Sampling Event – June 2006

Date of Sampling Event: June 22–29, 2006

Team Members: K. Pill, E. Bettez, E. Glowiak

Number of Locations Sampled: A total of 30 monitor wells/piezometers, two surface water locations, two duplicates, and two equipment blanks were sampled.

Locations Not Sampled/Reason: Four (N8-3, N2-1.5, N2-4.3, and W1-10) of the planned locations were not sampled due to a lack of recharge after the initial purge.

Sample Analysis: The full suite of well/surface water/piezometer analytes are listed in the table below. Most of the piezometers were only sampled for metals, total dissolved solids, anions, and NH₃-N, etc.

Analyte	Laboratory
Rn-222	Paragon Analytics
Mn (II), Fe (II)	Microseeps, Inc.
TOC	Paragon Analytics
DOC	Paragon Analytics
Gross alpha/beta	Paragon Analytics
U Iso	Paragon Analytics
Ra-226	Paragon Analytics
U, Se, Mo, Al, B, Ca, Co, Fe, K, Li, Mg, Mn, Na, Sr	Paragon Analytics
TDS	Paragon Analytics
NH ₃ -N, NO ₃ NO ₂ -N, P	Paragon Analytics
Br, Cl, F, PO ₄ , SO ₄	Paragon Analytics

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
2321	N6-6.4	Duplicate	Ground water	NFB 306
2247	BL1-D	Duplicate	Ground water	NFB 314
2320	NA	Equipment Blank – GW Equip	DI Water	NFB 325
2322	NA	Equipment Blank – GW Equip	DI Water	NFB 325

RIN Number Assigned: All of the samples sent to Paragon Analytics, Inc. were assigned a RIN of 06060408 and all of the samples sent to Microseeps, Inc. were assigned a RIN of 06060409.

Sample Shipment: The sample shipment is summarized in the table below:

Date	Airbill No.	Laboratory
06/22/2006	8531 4926 8402	Microseeps, Inc.
06/22/2006	8531 4926 8479	Paragon Analytics, Inc.
06/23/2006	8527 5847 7576	Paragon Analytics, Inc.
06/26/2006	8531 7064 2751	Microseeps, Inc.
06/26/2006	8531 4926 8468	Paragon Analytics, Inc.
06/27/2006	8531 4926 8480	Paragon Analytics, Inc.
06/27/2006	8553 8751 8997	Microseeps, Inc.
06/28/2006	8553 8751 8791	Paragon Analytics, Inc.
06/28/2006	8553 8751 8806	Microseeps, Inc.
06/29/2006	8553 8751 8817	Paragon Analytics, Inc.

Location Specific Information – Wells and Piezometers: All piezometers were sampled with a peristaltic pump using micro-purge sampling techniques with dedicated tubing. All wells (BL series) were sampled with a peristaltic pump using micropurge sampling techniques with downhole tubing deconned between locations. Water level, total depth, and sample depth data are provided in the table below:

Well/Pz No.	Date	Time	Depth to Water (ft btoc)	Total Depth (ft btoc)	Sample Depth (ft bgs)	Comments
BL1-S	06/27/2006	0925	12.17	57.4	55	
BL1-M	06/27/2006	1008	14.25	101.1	99	
BL1-D	06/27/2006	0758	15.37	142	140	
BL2-S	06/26/2006	1128	14.85	58.60	54	
BL2-M	06/26/2006	1105	15.88	104	100	
BL2-D	06/26/2006	1038	16.16	145	140	
BL3-M	06/26/2006	0855	12.25	48.0	46	Strong sulfur odor, high turbidity
BL3-D	06/26/2006	0750	13.83	103	99	Strong sulfur odor
M11-4.8	06/26/2006	1620	11.95	14.39	12	Limited volume; yellow tint
M11-7	06/26/2006	1609	13.85	21.41	19	Limited volume
M11-12	06/23/2006	1047	10.97	39.32	36	Yellowish tint on unpreserved samples

Well/Pz No.	Date	Time	Depth to Water (ft btoc)	Total Depth (ft btoc)	Sample Depth (ft bgs)	Comments
M11-14	06/26/2006	1558	2.24	49.54	48	Full suite of analytes sampled; dark color; sulfur odor
N2-1.5	06/27/2006	1730	5.04	5.04	N/A	Dry; not sampled
N2-4.3	06/27/2006	1641	12.90	14.57	N/A	Dry; not sampled
N2-6.5	06/27/2006	1650	11.34	21.03	19	Light gray; sulfur odor
N2-12.8	06/27/2006	1653	14.53	35.25	33	Dark gray, strong sulfur odor
N3-4.3	06/27/2006	1502	8.36	14	14	Limited volume
N3-8.3	06/27/2006	1508	7.35	25.38	24	Sulfur odor; full suite of analytes sampled
N4-3.2	06/28/2006	0900	7.61	10.47	8	Limited volume
N4-12	06/28/2006	0846	15.21	39.27	37	Light gray, sulfur odor
N6-6.4	06/23/2006	1348	5.40	14.19	12	Water has an odor
N7-7	06/28/2006	0806	15.0	21.33	19	Purged dry
N7-10	06/23/2006	0845	13.10	33.09	32	Strong sulfur odor
N7-11	06/28/2006	0814	7.31	35.52	34	Limited volume; dark gray
N8-3	06/26/2006	1650	9.65	9.65	N/A	Dry; not sampled
N8-6	06/26/2006	1645	9.34	9.23	7	
N8-14	06/26/2006	1638	21.42	49.63	47	Limited volume
W1-4.3	06/27/2006	1608	11.21	15.54	13	Not enough for alkalinity
W1-7	06/27/2006	1549	11.60	21.15	19	Yellowish tint
W1-10	06/27/2006	1541	7.13	21.34	N/A	Purged dry after 100 mL, never recharged; not sampled

ft btoc = ft below top of casing
 ft bgs = ft below ground surface

Location Specific Information – Surface Water Locations: Each surface water sample was collected using a peristaltic pump and hose reel. The sample from surface location 0271 was collected approximately 3 ft off the bank, from a depth of 1.5 ft below the surface. The sample from surface location 0273 was collected approximately 3 ft off the bank, from a depth of 2 ft below the surface.

Well Inspection Summary: A well inspection was not conducted during the sampling event.

Equipment: No problems to report.

Regulatory Issues: None.

Site Issues: According to the United States Geological Survey (USGS) Cisco Gaging Station (Station No. 09180500), the mean daily Colorado River flows during the sampling event were as follows:

Date	Stream-flow (ft ³ /s) (Daily Mean)
06/22/2006	7,170
06/23/2006	6,950
06/26/2006	6,000
06/27/2006	5,740
06/28/2006	5,430
06/29/2006	5,130

Corrective Action Required/Taken: None.

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



Surface water location 0271



Surface water location 0273