ATTACHMENT MU1 2-1
(under separate cover)

LOST CREEK HYDROLOGIC TESTING
MINE UNIT 1
NORTH AND SOUTH TESTS

LOST CREEK PROJECT
SWEETWATER COUNTY, WY
OCTOBER 2009

Attachment MU1 3-1

Lost Creek Project - Mine Unit One
Order 1 Soil Survey

Lost Creek ISR, LLC
July 2009

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Addendum MU1 A3-1-2 Field Data Sheets
Addendum MU1 A3-1-3a Soil Pit Photographs
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Addendum MU1 A3-1-4 Laboratory Report

ABBREVIATIONS AND ACRONYMS

AATA	AATA International, Inc.
GIS	Geographic Information System
LQD	Land Quality Division
NCSS	National Cooperative Soil Survey
NRCS	National Resource Conservation Service
Permit Area	Lost Creek Permit Area
Project	Lost Creek Project
SMU	Soil Mapping Unit
TFN	Temporary Filing Number
WDEQ	Wyoming Department of Environmental Quality

1.0 Introduction

The Lost Creek Project (Project), a proposed in-situ uranium mine, is located in Sweetwater County, on the northeastern edge of the Great Divide Basin of south-central Wyoming, approximately 38 miles northwest of Rawlins. This report describes the soils in Mine Unit 1 (MU1) of the Lost Creek Permit Area (**Figure MU1 A3-1-1**).

Soils in Sweetwater County have not been mapped as part of the National Cooperative Soil Survey (NCSS), although two empirical studies were conducted at the 1:100,000 and the 1:500,000 scales (Munn and Arneson, 1998 and 1999). AATA International, Inc. (AATA) of Fort Collins, Colorado completed an Order 3 field survey of the Permit Area in the summer of 2006. The results of the Order 3 survey were submitted to the Land Quality Division (LQD) of the Wyoming Department of Environmental Quality (WDEQ) in December 2007 as Appendix D7 of the Lost Creek Permit application (LQD Temporary Filing Number [TFN] 4 6/269).

In accordance with LQD Guideline No. 1 (WDEQ-LQD, 1994), a more detailed Order 1 soil survey is needed for the portions of the Permit Area, where mining-related surface disturbance is proposed. Order 1 soil surveys were conducted in 2008 and 2009 for the Plant site (2008), the deep injection well locations (2009), and MU1 (2008). The results of the surveys for the Plant site and the deep well locations are discussed briefly in Section D7.4 and in more detail in Attachments OP-5a and OP-5b to the Operations Plan in the main permit document. The results of the survey of MU1 are included in this addendum to the MU1 package. As the areas for additional mine units are delineated in more detail, Order 1 surveys will be conducted and the results submitted with the respective mine unit packages.

Before commencing the Order 1 soil survey in 2008, AATA discussed the scope of the survey, via e-mail, with WDEQ-LQD. The e-mail correspondence is included as **Addendum MU1 A3-1-1**.

2.0 Methodology

The Order 1 soil survey work plan was developed based on LQD Guideline No. 1 (WDEQ-LQD, 1994). The soil survey was conducted according to protocols in the National Soil Survey Handbook, which provides the major principles and practices used in standard soil surveys (Soil Survey Staff, 1993). Information was recorded on Soil Description Field Sheets. Copies of all the original sheets are included in **Addendum MU1 A3-1-2**.

Due to the irregular shape of MU1, the study area was defined and mapped as a geometric block for easier reference. The MU1 study area includes the MU1 pattern area and connecting roadways (**Figure MU1 A3-1-1**). Mine Unit 1 has an anticipated disturbance area of about 50 acres. The Mine Unit 1 study area includes approximately 140 acres. The exact boundaries of Mine Unit 1 depend on delineation drilling, which is still underway; hence, the study area is larger than the anticipated disturbance area to ensure adequate coverage.

The Order 1 soil survey fieldwork was completed in September 2008 by Dr. Jan Cipra with the assistance of Ethan Brown and Duncan Eccleston of AATA. The soil samples were analyzed by Energy Labs in Casper, Wyoming, in September and October 2008. The field survey data were digitized and incorporated in a Geographic Information System (GIS) database by AATA. The soil field mapping was done on high-resolution black and white satellite images of the study area at a scale of 1:4,800.

2.1 Soil Survey

A reconnaissance survey was conducted from September 2 through 5, 2008, in order to select locations for backhoe excavation of soil pits and profiles, and for soil sampling. The reconnaissance survey was conducted by traversing the MU1 study area and visually examining the surface variations. Soils were examined in more detail at 28 locations, where a 3-inch diameter hand-held soil auger and a 16-inch tile spade were used to excavate soil "pits". The pits were excavated to a depth of 60 inches, or to the C horizon. The soil characteristics were observed and recorded with depth. Photographs of all the soil pits are included as **Addendum MU1 A3-1-3a**. In addition to the 28 pit locations, observations were also made at several of the mud pits excavated for Project-related drilling in the Permit Area. Pits from the MU1 study area were also compared to pits at the Plant site, which were excavated during the same field session in September 2008 (Attachment OP-5a to the Operations Plan in the main permit document).

Based on the soil pit and the mud pit observations, ten soil "profile" locations were selected to describe and sample. Three soil mapping units (SMUs) were described and sampled: the Poposhia Loam, the Teagulf Sandy Loam, and the Pepal Sandy Loam. In the Poposhia Loam mapping unit, two locations were described and sampled. In the Teagulf Sandy Loam mapping unit, three locations were described and sampled. Five locations were described and sampled in the Pepal Sandy Loam mapping unit, which comprises the largest areal extent in the MU1 study area.

Some soil profile locations were selected to correspond with soil pit locations in order to ensure sampling was adequate to represent the spatial variability of the soils. The soil

profiles were excavated by a backhoe, which allowed for more detailed observations. Each excavation was approximately 15 feet in length, five feet in depth, and four to five feet in width, oriented in an east-west direction to provide good lighting on the north soil face for descriptions and pictures. The bottom of each profile was flat for a length of five feet, with a 45-degree slope at one end for access.

The profiles were excavated and described from September 8 through 10, 2008. Soil samples were collected from September 8 through 11, 2008. Between three and seven horizons or sub-horizons were described and sampled at each soil profile. The upper and lower boundary of each layer was delineated with a nail, and then representative, depth-integrated samples were collected by scraping the exposed soil into a Ziploc bag. Each sample was labeled with a unique identification code. Photographs of all the soil profiles are included in **Addendum MU1 3-1-3b**. A preliminary soil map was developed based on observations from the soil pits, profiles, and mud pits.

Four additional pits were excavated on September 12, 2008, to verify and fine-tune the soil map. **Table MU1 A3-1-1** lists all the pits and profiles in the MU1 study area.

2.2 Laboratory Analysis

After examining the soil profile descriptions, samples from four of the eight soil profiles were selected for laboratory analysis (The numbers of samples were not proportional to the areal extent of each SMU.). Laboratory analyses included the topsoil suitability criteria noted in LQD Guideline No. 1, soil texture, and soil fertility parameters. The analyses were performed by Energy Laboratories in Casper, Wyoming.

The soil profile samples were generally taken from a single horizon but, in some cases, adjacent horizons or sub-horizons were combined if morphologically similar. The sampling locations are shown on **Figure 1**. **Table 2** lists the sampling locations and depths. Samples from MU1PR23 (MU1PIT23) were selected for laboratory analysis. MU1PR23 occurs near the soil boundary between the Teagulf SMU and the Pepal SMU. However, examination of the soil profile indicated that MU1PR23 is representative of the Teagulf SMU.

3.0 Results and Discussion

3.1 Soil Survey

Three SMUs were identified in the MU1 study area: the Poposhia Loam, the Teagulf Sandy Loam, and the Pepal Sandy Loam as described below. The SMUs were identified based on comparable soils near the Permit Area that were officially surveyed and described by the National Resource Conservation Service (NRCS). The color of the SMUs is described as moist, crushed and broken.

Poposhia Loam: This soil formed in calcareous loamy alluvium. This deep, well-drained soil occurs in narrow swales and comprises a small proportion of the study area. Typically, the surface layer is about a six-inch-thick dark brown sandy loam. The next layer is about an 18-inch-thick dark yellowish brown clay loam or sandy clay loam. The substratum is a brown or yellowish brown loam or coarse sandy loam to a depth of 60 inches or more. Its slopes range from zero to one percent.

Teagulf Sandy Loam: This soil formed in calcareous loamy or sandy alluvium, and is influenced by sandstone, siltstone, and mudstone or shale bedrock. Comprising a small proportion of the study area, this shallow, well-drained soil occurs on side slopes and upland ridges of slightly dissected plains. Its slopes range from three to seven percent Typically, the surface layer is about a three-inch-thick brown or dark yellowish brown loam. The next layer is about a seven-inch-thick dark yellowish brown sandy clay loam or heavy sandy loam. The substratum is a brown or yellowish brown loamy coarse sand or coarse sand to a depth of 60 inches or more. Substrata consisting of silt loam or sandy clay loam, also occur but are less prevalent.

Pepal Sandy Loam: This soil formed in calcareous loamy alluvium. This moderately deep, well-drained soil occurs on gently (one- to three-percent slopes) undulating uplands and comprises a large proportion of the study area. Typically, the surface layer is about a four-inch-thick dark brown or brown coarse sandy loam. The next layer is about a 15-inch-thick dark yellowish brown clay loam or sandy clay loam. The substratum is a dark yellowish brown loamy coarse sand or coarse sandy loam to a depth of 60 inches or more.

3.2 Laboratory Analysis

The laboratory report is included as **Addendum MU1 A3-1-4**, and the laboratory results are summarized in **Table MU1 A3-1-2**. The term "topsoil" in this report refers to soil horizons that occur at the surface of undisturbed soils. The term "subsoil" refers to soil horizons that occur below the topsoil. All topsoil and subsoil laboratory samples were within the Suitability Criteria for topsoil listed in WDEQ-LQD Guideline No. 1 (shown in **Table MU1 A3-1-2**).

The analyzed topsoil samples had textures of loam and clay loam. The topsoil depths generally ranged from six to 12 inches, with the exception of one sample depth of 24 inches. The organic matter contents ranged from 0.8 to 5.6 percent. Although organic matter is not a criterion, a higher organic matter content is, in general, directly related to revegetation potential. The saturation values ranged from 27 to 54 percent, which is at the lower end of the prescribed range.

The subsoil samples were loams and sandy loams, with depths ranging from six to 60 inches. Their organic matter content ranged from 0.3 to 1.2 percent. The organic matter in subsoil samples taken outside the Poposhia Loam unit ranged from 0.3 to 0.5 percent. These values are low, and are not favorable to vegetation establishment. The percent saturation (ranging from 31 to 43 percent) of the subsurface samples was at the low end of the prescribed range.

4.0 Evaluation of Soil Suitability

The topsoil of all three SMUs provides a favorable medium for plant growth, though the depth of topsoil varies between units. The primary suitable characteristics are organic matter content and favorable water holding capacity due to texture. The Poposhia Loam provides about 19 to 24 inches of topsoil material favorable for plant growth. The Teagulf Sandy Loam provides about six to 12 inches of topsoil material favorable for plant growth. The Pepal Sandy Loam provides 14 to 18 inches of topsoil material favorable for plant growth.

REFERENCES

Munn LC, Arneson CS. 1998. Soils of Wyoming: A digital statewide map at 1:500,000 scale. Agr. Expt. Sta. Rpt. B-1069. University of Wyoming, College of Agriculture, Laramie (WY).

Munn LC, Arneson CS. 1999. Soils of Wyoming: A digital statewide map at 1:100,000 scale. Agr. Expt. Sta. Rpt. B-1071. University of Wyoming, College of Agriculture, Laramie (WY).

Soil Survey Staff. 1993. National Soil Survey Handbook. Soil Conservation Service. US Department of Agriculture. Washington (DC). Handbook 18. Title 430-VI.

WDEQ-LQD. 1994. Guideline No. 1, Topsoil and Overburden. Cheyenne (WY). Available from: http://deq.state.wy.us/lqd/guidelns/guide1.pdf. Accessed on 21 July 2009.

Table MU1 3a-1-1 Soil Sampling Locations (Page 1 of 2)

Pit or Profile Number [1]	Location	Soil Designation	Date Excavated
MU1PIT1	East end of Mine Unit 1. Near 2006 LCSP10.	Poposhia loam	9/2/08
MU1PIT2	East end of Mine Unit 1. Near 2006 LCSP10.	Poposhia loam	9/2/08
MU1PIT3	South central portion of Mine Unit 1.	Pepal sandy loam	9/2/08
MU1PIT5	Central portion of Mine Unit 1. Near 2006 LCSP9.	Pepal sandy loam	9/2/08
MU1PIT6	East portion of Mine Unit 1.	Pepal sandy loam	9/3/08
MU1PIT7	East portion of Mine Unit 1.	Pepal sandy loam	9/3/08
MU1PIT8	East portion of Mine Unit 1.	Pepal sandy loam	9/3/08
MU1PIT9	East portion of Mine Unit 1.	Pepal sandy loam	9/3/08
MU1PIT10	Central portion of Mine Unit 1.	Pepal sandy loam	9/3/08
MU1PIT11	Central portion of Mine Unit 1.	Pepal sandy loam	9/3/08
MU1PIT12	Northeast portion of Mine Unit 1.	Pepal sandy loam	9/3/08
MU1PIT13	North central portion of Mine Unit 1. Expanded to soil profile. Sampled for laboratory analyses.	Teagulf sandy loam	9/3/08 (Expanded 9/11/08; Sampled 9/11/08)
MU1PIT14	North central portion of Mine Unit 1.	Poposhia loam	9/3/08
MU1PIT15	Central portion of Mine Unit 1. Expanded to soil profile. Sampled for laboratory analyses.	Poposhia loam	9/3/08 (Expanded 9/11/08; Sampled 9/11/08)
MU1PIT16	Central portion of Mine Unit 1. Expanded to soil profile.	Teagulf sandy loam	9/3/08 (Expanded 9/8/08)
MU1PIT17	Central portion of Mine Unit 1.	Teagulf sandy loam	9/4/08
MU1PIT18	Central portion of Mine Unit 1.	Poposhia loam	9/4/08
MU1PIT19	Central portion of Mine Unit 1.	Pepal sandy loam	9/4/08

Table MU1 A3-1-1 Soil Sampling Locations (Page 2 of 2)

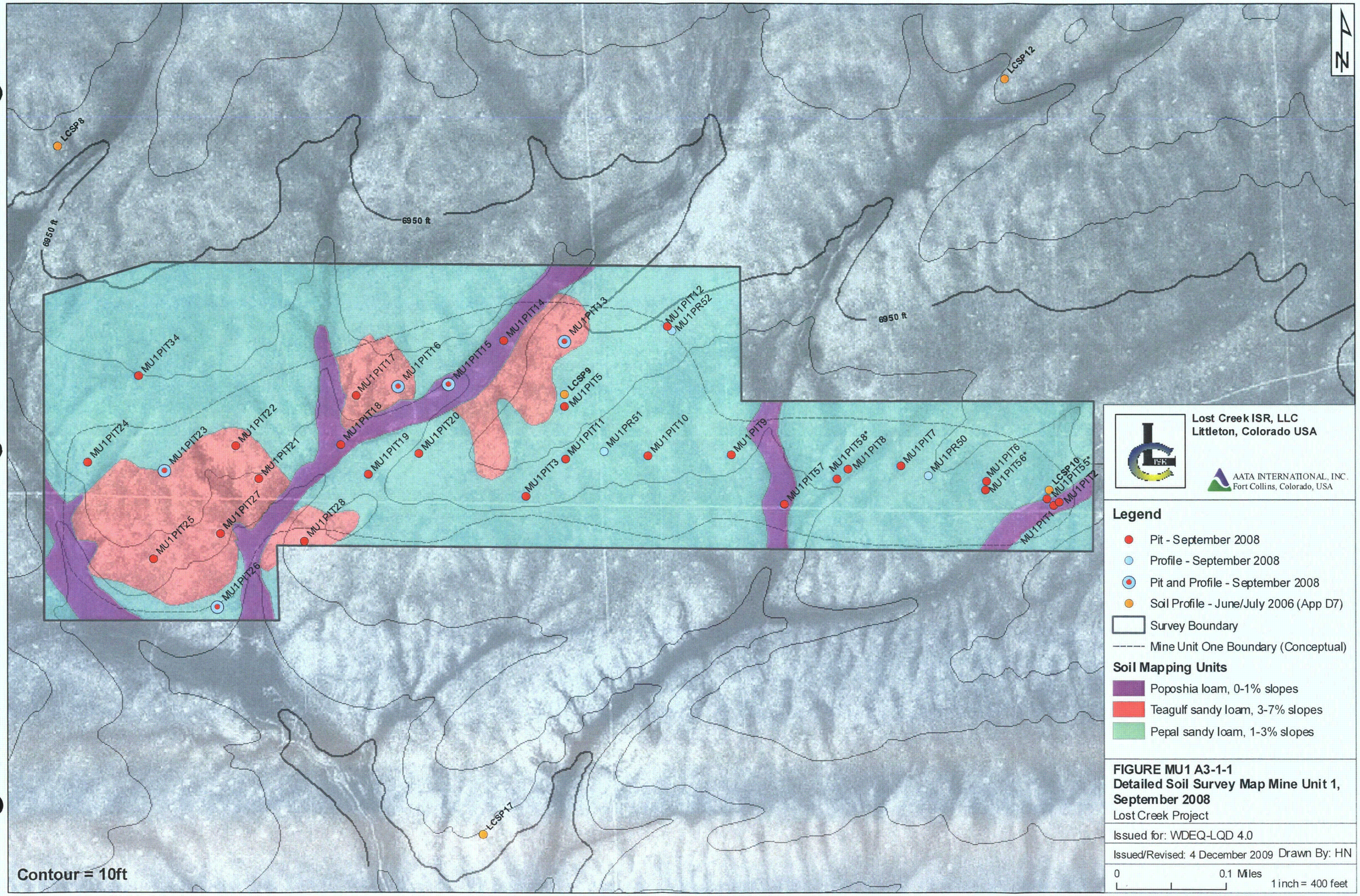
Pit or Profile Number [1]	Location	Soil Designation	Date Excavated
MU1PIT20	Central portion of Mine Unit 1.	Pepal sandy loam	9/4/08
MU1PIT21	West portion of Mine Unit 1.	Teagulf sandy loam	9/4/08
MU1PIT22	West portion of Mine Unit 1.	Teagulf sandy loam	9/4/08
MU1PIT23	West portion of Mine Unit 1. Expanded to soil profile. Sampled for laboratory analyses.	Teagulf sandy loam	9/4/08 (Expanded 9/11/08; Sampled 9/11/08)
MU1PIT24	West end of Mine Unit 1.	Pepal sandy loam	9/4/08
MU1PIT25	Southwest portion of Mine Unit 1.	Teagulf sandy loam	9/4/08
MU1PIT26	Southwest portion of Mine Unit 1. Expanded to soil profile.	Pepal sandy loam	9/4/08 (Expanded 9/11/08)
MU1PIT27	West portion of Mine Unit 1.	Teagulf sandy loam	9/4/08
MU1PIT28	Southwest portion of Mine Unit 1.	Teagulf sandy loam	9/4/08
MU1PIT34	West end of Mine Unit 1.	Pepal sandy loam	9/5/08
MUIPR50	East portion of Mine Unit 1. Sampled for laboratory analyses.	Pepal sandy loam	9/11/2008 (Sampled 9/11/08)
MUIPR51	Central portion of Mine Unit 1.	Pepal sandy loam	9/11/08
MUIPR52	Northeast portion of Mine Unit 1. Near MU1PIT12.	Pepal sandy loam	9/10/08
MU1PIT55	East end of Mine Unit 1. Near 2006 LCSP10.	Poposhia loam	9/12/08
MU1PIT56	East portion of Mine Unit 1.	Pepal sandy loam	9/12/08
MU1PIT57	Central portion of Mine Unit 1.	Poposhia loam	9/12/08
MU1PIT58	Central portion of Mine Unit 1.	Pepal sandy loam	9/12/08

[1] Pit/Profile Numbers 4 and 29 through 35 were located at the Plant site (see Attachment OP-5a in the main permit document). Pit/Profile Numbers 36 through 49 were not assigned to any sampling locations.

Table MU1 A3-1-2 Laboratory Analytical Results (Page 1 of 1)

Profile Number	Sample Depth (inches)	Soil Horizon	LQD Topsoil Suitability Parameters						Additional Fertility Analyses					Texture Information			
			pH (standard units)	Electrical Conductivity (mmhos/cm)	Saturation (%)	Sodium Adsorption Ratio	Selenium (ppm)	Boron (ppm)	Lime as $CaCO_3$ (%)	Calcium (meq/L)	Magnesium (meq/L)	Sodium (meq/L)	Organic Matter (%)	Sand (%)	Silt (%)	Clay (%)	Texture
Poposhia Loam (about 10% of Study Area)																	
MU1PR15	0-24	A, B	7.6	0.52	37.0	0.26	0.003	0.63	1.0	4.02	1.85	0.44	2.4	42	38	20	L
	24-60	C	6.9	0.57	31.6	0.34	0.004	0.29	0.7	4.14	1.69	0.58	0.9	52	28	20	L
Teagulf Sandy Loam (about 15% of Study Area)																	
MU1PR13	0-10	A, B	7.8	0.48	27.1	0.83	<0.002	0.23	0.8	3.22	1.03	1.20	1	66	16	18	SL
MU1PR23	0-10	A, B	7.3	0.55	31.7	0.52	0.005	<0.20	1.1	3.56	1.83	0.85	0.9	68	16	16	SL
	10-60	C	8.0	1.82	30.6	4.34	0.007	0.31	0.9	7.80	3.33	10.20	0.3	82	6	12	SL
Pepal Sandy Loam (about 75% of Study Area)																	
MU1PR50	0-6	A, B	7.8	0.47	41.5	0.84	0.007	<0.20	1.0	2.54	1.13	1.13	1.5	72	10	18	SL
	6-60	C	7.7	0.47	35.1	0.48	0.005	<0.20	0.7	2.94	1.30	0.70	0.5	80	6	14	SL
LQD Topsoil Suitability Criteria [1]			5.5 - 8.5	0-8	25-80	0 - 10	<0.1	<5.0	--	--	--	--	--	--	--	--	--

[1] Suitability criteria are from LQD Guideline No. 1 (WDEQ-LQD, 1994). Per the August 28, 2008, e-mail from M. Moxley (see Attachment 1), particle size was not applied as a suitability criterion.



Lost Creek ISR, LLC
Littleton, Colorado USA

AATA INTERNATIONAL, INC.
Fort Collins, Colorado, USA

Legend

- Pit - September 2008
- Profile - September 2008
- Pit and Profile - September 2008
- Soil Profile - June/July 2006 (App D7)
- Survey Boundary
- Mine Unit One Boundary (Conceptual)

Soil Mapping Units

- Poposhia loam, 0-1% slopes
- Teagulf sandy loam, 3-7% slopes
- Pepal sandy loam, 1-3% slopes

FIGURE MU1 A3-1-1
Detailed Soil Survey Map Mine Unit 1, September 2008
Lost Creek Project

Issued for: WDEQ-LQD 4.0

Issued/Revised: 4 December 2009 Drawn By: HN

0 0.1 Miles
1 inch = 400 feet

Addendum MU1 3-1-1

E-Mail Correspondence with WDEQ-LQD

From: Ethan Brown [mailto:ethan.brown@aata.com]
Sent: Wednesday, August 27, 2008 2:02 PM
To: Bautz, Melissa
Cc: Ping Wang; Roberta Hoy
Subject: Soil Survey at Lost Creek

Hello Melissa,
AATA has the opportunity to complete the Order One survey of the Lost Creek proposed facility site and Mine Unit One this coming week (September 2nd – 5th). The current plan is to walk the area and dig shallow pits to determine the quantity and distributions of the different soil types in the area. After approximately three days of evaluation, one to two locations per soil type will be chosen for profile excavation. Each profile will be approximately 5 feet deep and will be large enough to allow entry. Based on the previous Lost Creek Sub-Order Three survey, we expect to encounter relatively few soil types in the two areas. Therefore, we anticipate the need for approximately 5 to 10 soil profiles. Samples will be taken from at least one profile in each soil type. The samples will be collected from the middle portions of each main horizon down to the C Horizon. The samples will be sent to Energy Laboratories in Casper Wyoming where they will be analyzed for topsoil suitability. The parameters will include:

pH,
EC,
Saturation percentage,
Texture,
SAR,
Selenium,
Boron, and
Coarse fragments.

Because of the limited soil surveying in this area prior to Lost Creek's work, it may not be possible to correlate the soils with existing SCS soil series. Both the State Soil Scientist and the Sweetwater County Soil Scientist have expressed their willingness to help if necessary. However, we have been focusing on topsoil suitability rather than the identification of SCS soil series.

Please let us know if you have any questions or concerns.

Thank You,

Ethan Brown
Environmental Specialist
AATA International, Inc.
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Denver Colorado, USA 80205
Office Phone: 1-720-974-2550
Cell (Field Phone): 1-970-443-8448

From: Moxley, Mark [mailto:mmoxle@wyo.gov]
Sent: Thursday, August 28, 2008 1:09 PM
To: Ethan Brown
Cc: Bautz, Melissa
Subject: RE: Soil Survey at Lost Creek

Ethan,

I just reviewed the soils section of the permit application and I thought it might be good for you to see my draft comments. If you have any questions please feel free to contact me.

Mark Moxley

RE: Soils, Appendix D-7

1. Lands to be affected by the operation (plant site, parking/laydown areas, ponds, roads, wellfields, etc.) must be outlined on the soils map.
2. The soils map should be presented at a normal engineering scale (i.e. 1"=400' or 1"=500'). The township, range and county should be clearly noted on the map.
3. The soils on lands to be affected by the operation must be mapped at an Order 1-2 level.
4. A map must be presented to show topsoil suitability/stripping depths.
5. Coarse fragments is one of the criteria listed in Guideline No. 1 for establishing soil suitability. However, where soils resources are limited and marginal in quality LQD recommends that coarse fragments not be used as the determining factor for soil suitability.
6. The volumes of soil to be salvaged and stockpiled from the various major affected areas should be listed.
7. The person(s) who conducted the soils study should be identified.

From: Bautz, Melissa [mbautz@wyo.gov]
Sent: Thursday, August 28, 2008 8:42 AM
To: Ethan Brown
Cc: Moxley, Mark; Roberta Hoy
Subject: RE: Soil Survey at Lost Creek

Ethan
This seems like a reasonable, good plan to quantify and qualify the soil at Mine Unit 1. I have no problems with this approach. Thank you for the information.
Melissa

Addendum MU1 3-1-2

Field Data Sheets

Soil Description: Location MUIBIT

Site No. _____ Date 9/2 Time 12:55p Vegetation _____

Elevation _____ Slope _____ Aspect _____ Geomorphic Surface _____

Parent Material(s) _____ Described by _____

Depth (cm)	Horizon	Color (moist / dry)	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
~~0-3~~ 0-6	A	10YR 3/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25 prd cos	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
6-15	B	10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25 cos	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
15-34	C	10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25+ cos	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	violent
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MU1 PIT2 Comments - similar to MU1 PIT1

Site No. ____ Date 9/2 Time 1:30 Vegetation ____

Elevation ____ Slope ____ Aspect ____ Geomorphic Surface ____

Parent Material(s) ____ Described by ____

Depth (cm)	Horizon	Color (moist / dry)	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
~~0-6~~ 0-12		10YR 3/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25 probably because sand	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vf n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Ø
~~0-13~~ 12-23		7.5YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25 "	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vf n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Ø
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vf n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vf n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vf n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vf n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MUIPIT 3

Site No. ____ **Date** 9/2 **Time** 2:30 **Vegetation** <50% < 1' tall sage/grass

Elevation ____ **Slope** ____ **Aspect** ____ **Geomorphic Surface** ____

Parent Material(s) ____ **Described by** ____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6		10YR 3/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	10-15% gravel on surface
6-18		10YR 4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Ø
-31		10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	18-21-V 21-31 SI due to sand content
*	notes →		m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	18-31. horizon is coarse sandy <2mm
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MUI PIT 5

Site No. ____ Date 9/2 Time 4:10 Vegetation Same

Elevation ____ Slope ____ Aspect ____ Geomorphic Surface Near LCSP9

Parent Material(s) ____ Described by ____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
0-6		10YR 3/3	(m) vf (gr) sg (f) pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 (10) >75 (25)	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL (SL) SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	3/3 5/3 ∅ 4/4
6-15		10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 (10) >75 (25)	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL (SL) SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	∅
15-21		10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 (10) >75 (25)	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL (LS) SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	∅
21-33		10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 (10) >75 (25)	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	(S) SICL (LS) SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	s/l
		----------	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	No gravel of signif. throughout
		----------	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MU1 PIT6

Site No. ____ Date ____ Time 10:07 Vegetation ____

Elevation ____ Slope 0-1 Aspect ____ Geomorphic Surface ____

Parent Material(s) ____ Described by Clprq

Texture
H = heavy
C = coarse

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	Texture	Clay films	Boundaries	notes
0-6		10YR 3/3 All 10YR ↓	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo ss ps / vfr s p / fr vs vp / fl vfl efl	lo / so so / sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	H C	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	very (coarse) sandy
6-12		4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo ss ps / vfr s p / fr vs vp / fl vfl efl	lo / so so / sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	H	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
12-18		4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25 10 ~~25~~	so po / lo ss ps / vfr s p / fr vs vp / fl vfl efl	lo / so so / sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	~~4~~gs/
18-36		5/4 ~~4/6~~ 4/6	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25 20	so po / lo ss ps / vfr s p / fr vs vp / fl vfl efl	lo / so so / sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo ss ps / vfr s p / fr vs vp / fl vfl efl	lo / so so / sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo ss ps / vfr s p / fr vs vp / fl vfl efl	lo / so so / sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

TBE - #4

Soil Description: Location MU1 PIT 7

Site No. ____ Date ____ Time 10:50 Vegetation 30% - 35

Elevation ____ Slope 5% Aspect NW Geomorphic Surface ____

Parent Material(s) ____ Described by ____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
0-6		10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	eff=sl L/~~c~~vfsl/ sil
6-12		10YR/5/4 Bits of soft shale	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr lo ss ps / fr so s p / fl sh vs vp / vfl h efl vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-m sil flours
12-~~18~~ 24		10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr lo ss ps / fr so s p / fl sh vs vp / vfl h efl vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	v floury
24-30 (Cr) at 30"		10YR 5/4 9/26 JC wrong	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr lo ss ps / fr so s p / fl sh vs vp / vfl h efl vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	m vfsl
36+ 42-48		10YR 5/4 6/4 ~~7/6~~	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr lo ss ps / fr so s p / fl sh vs vp / vfl h efl vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ϕ ϕ
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr lo ss ps / fr so s p / fl sh vs vp / vfl h efl vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MULPIT 8 (70 m) typical coarse sandy sub stratum

Site No. ____ **Date** 9/3 **Time** 11:30 **Vegetation** ____

Elevation ____ **Slope** ____ **Aspect** ____ **Geomorphic Surface** ____

Parent Material(s) ____ **Described by** ____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
0-6		3/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 (<10) 75 10 >75 25	so po / lo vfr / lo ss ps / so fr / sh (s) p / fl / h vs vp / vfl / vh efl / eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
6-18		6-12 3/4 12-18 3/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 (<10) 75 10 >75 25	so po / lo vfr / lo ss ps / so fr / sh (s) p / fl / h vs vp / vfl / vh efl / eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
18-24		10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 (<10) 75 10 >75 25	so po / lo vfr / lo ss ps / so fr / sh (s) p / fl / h vs vp / vfl / vh efl / eh	S SICL LS SIL SL SI SCL SIC (L) H C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
24-30		10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 (<10) 75 10 >75 25	so po / lo vfr / lo ss ps / so fr / sh s p / fl / h vs vp / vfl / vh efl / eh	S SICL LS SIL (SL) SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
30-36+		10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr / lo ss ps / so fr / sh s p / fl / h vs vp / vfl / vh efl / eh	S SICL (LS) SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
36-42		10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo vfr / lo ss ps / so fr / sh s p / fl / h vs vp / vfl / vh efl / eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MUIPITG ssc sl. sticky

Site No. ____ Date 9/3 Time 12:38 Vegetation - ss sticky

Elevation ____ Slope ____ Aspect ____ Geomorphic Surface ____

Parent Material(s) ____ Described by ____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
0-6		3/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C H	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef ϕ
6-12 12-18		4/4 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC	<	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef ϕ
18-24 24-36 36-42	— Coarse	• 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL < SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-sl
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	S-V
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-~~sl~~ V
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MU1 PIT 10

Site No. _____ Date _____ Time _____ Vegetation _____

Elevation _____ Slope _____ Aspect _____ Geomorphic Surface _____

Parent Material(s) _____ Described by _____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6 ~~6-12~~		4/3	m vf gr sg (1) pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s o w g l d b	
12-18 ~~18-24~~		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s o w g l d b	very sandy + loose
18-24 24-30 30-36	chunks of hard platy rock	5/4 ~~24~~/4 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	H	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s o w g l d b	Possibly silt stone pm infl.
36+	can be augered Cr	5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s o w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s o w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s o w g l d b	

Soil Description: Location MUL PIT 11

Site No. _____ Date _____ Time _____ Vegetation _____

Elevation _____ Slope _____ Aspect _____ Geomorphic Surface _____

Parent Material(s) _____ Described by _____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6 6-12	A Bt ? 9/26	4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-φ
12-18 18-24	B_3 ? 9/26 Uolat	4/3 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C H	vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	~~ef-φ~~ ef- v
24-36		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef- v 30-36 ls-s
	NOTE 12-36 nearly gravelly v. coarse sandy loam to		m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
	to- loamy sand		m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MU1 PIT 12 m = medium

Site No: _____ Date 9/3 Time 2:30 Vegetation _____

Elevation _____ Slope _____ Aspect _____ Geomorphic Surface _____

Parent Material(s) _____ Described by _____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6 6-12		10YR 3/3 10YR 4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-p ef-p
12-18 18-24	Bt	10YR 4/4 10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-sl
24-30 30-36	Cr1 Cr2	5YR 4/4 10YR 6/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-v
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location M41 PIT 13

Site No. _____ Date _____ Time 3:05 Vegetation _____

Elevation _____ Slope _____ Aspect _____ Geomorphic Surface _____

Parent Material(s) _____ Described by _____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6 6-12		4/3 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC (L) C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef=Ø Loam ef=sl Hi Loam
12-18 18-24		10YR5/4 10YR5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS (SIL) SL SI SCL SIC (L) C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef=XV
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MULPIT 14 (MULPIT 15 was profile 2) will be profile (2) 14 (moved to 15

Site No. _____ **Date** _____ **Time** _____ **Vegetation** _____

Elevation _____ **Slope** _____ **Aspect** _____ **Geomorphic Surface** _____

Parent Material(s) _____ **Described by** _____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
	0-6	10YR 3/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	heavy. sticky
	6-12	10YR 3/4										sandy loam
												heavy loam
	12-18	10YR 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	very heavy sticky loam
	18-24	10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	xgr cos
	24-30	10YR 5/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	possible topsoil - 12"
	30-36	10YR 3/3										
	36+	10YR 5/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location #15 MU1 PIT 15 Prob. all topsoil

Site No. _____ Date _____ Time _____ Vegetation Dense Sage Comment - deep, dark, silty

Elevation _____ Slope _____ Aspect _____ Geomorphic Surface _____

Parent Material(s) _____ Described by _____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
	0-6 6-12	3/3 4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS (SIL) SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Need a ~~pit~~ here profile
	12-18 18-24	4/3 4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS (SIL) SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
	24-30	4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS (SIL) SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
	30-42	4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps (s) p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS (SIL) SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	very sticky
	Note	#15, #16, #17 are	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
		along fence	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk abk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MU1 Pit ~~#6~~ #16 GPS Recheck 9/4 point OK=16 location

Site No. ____ **Date** 9/3 **Time** 4:45 pm **Vegetation** sparse sage + grasses

Elevation ____ **Slope** 5% **Aspect** SE **Geomorphic Surface** ____

Parent Material(s) wind + water reworked alluvial fan **Described by** C. Pra

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6		10YR 3/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL (SL) SI SCL SIC L C CL SC	C	vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef-ϕ
6-12		10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po (ss) ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL (SL) SI SCL SIC L C CL SC	H C	vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Ef = ϕ
12-18	YB	10YR 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC (L) C CL SC	C	vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Ef = SL
18-21	B	7.5YR 5/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Ef = V
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Note 9/8 SC PM is probably not alluvial
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	rather sandstone + coarse grained

Soil Description: Location MUIPIT 17 picture Mud 1 - 32 m NE of pit 18

Site No. ____ **Date** 9/4 **Time** 9:15? **Vegetation** Very sparse - disturbed + eroded

Elevation ____ **Slope** ____ **Aspect** ____ **Geomorphic Surface** Perhaps a nose ? (pix 100-2802 2803 2804)

Parent Material(s) ____ **Described by** ____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
0-8 8-12		4/3 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C	vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
12-18 6-12 ~~18-24~~		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C	vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	12" ef-V
~~24-30~~ 12-15 ~~30-36~~		6/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25 N/a	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	shale/ss PM somewhat "silky" - silty
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MUL PIT 18 Buried soil B1-sequal profile

Site No. _____ **Date** _____ **Time** 10:50 **Vegetation** Dense Sage 10' west of deep gully (10 x 10')

Elevation _____ **Slope** _____ **Aspect** _____ **Geomorphic Surface** _____

Parent Material(s) _____ **Described by** _____

Depth (cm)	Horizon	Color moist	Color dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6	sil	10YR 3/3		m vf gr / sg f pl / 1 m pr / 2 c cpr / 3 vc ebk / sbk	0 50 / <10 75 / 10 >75 / 25	so po / ss ps / s p / vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL / LS SIL / SL SI / SCL SIC / L C / CL SC		vf n pf / 1 po / 2 mk br / 3 co / 4 k cobr	a s / c w / g l / d b	Buried A or B, very dark occurs at ≈ 36"
6-12	sicl	10YR 4/4											
12-18	scl	4/4		m vf gr / sg f pl / 1 m pr / 2 c cpr / 3 vc ebk / sbk	0 50 / <10 75 / 10 >75 / 25	so po / ss ps / s p / vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL / LS SIL / SL SI / SCL SIC / L C / CL SC		vf n pf / 1 po / 2 mk br / 3 co / 4 k cobr	a s / c w / g l / d b	
18-24	sl	5/4											
24-30	cl	4/3		m vf gr / sg f pl / 1 m pr / 2 c cpr / 3 vc ebk / sbk	0 50 / <10 75 / 10 >75 / 25	so po / ss ps / s p / vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL / LS SIL / SL SI / SCL SIC / L C / CL SC		vf n pf / 1 po / 2 mk br / 3 co / 4 k cobr	a s / c w / g l / d b	30" sand of medium size
30-36	sil	4/2											
36-42	sicl	10YR 3/1		m vf gr / sg f pl / 1 m pr / 2 c cpr / 3 vc ebk / sbk	0 50 / <10 75 / 10 >75 / 25	so po / ss ps / s p / vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL / LS SIL / SL SI / SCL SIC / L C / CL SC		vf n pf / 1 po / 2 mk br / 3 co / 4 k cobr	a s / c w / g l / d b	
42-48	sil	10YR 5/4											
48-60	sl	10YR 5/4		m vf gr / sg f pl / 1 m pr / 2 c cpr / 3 vc ebk / sbk	0 50 / <10 75 / 10 >75 / 25	so po / ss ps / s p / vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL / LS SIL / SL SI / SCL SIC / L C / CL SC		vf n pf / 1 po / 2 mk br / 3 co / 4 k cobr	a s / c w / g l / d b	
				m vf gr / sg f pl / 1 m pr / 2 c cpr / 3 vc ebk / sbk	0 50 / <10 75 / 10 >75 / 25	so po / ss ps / s p / vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL / LS SIL / SL SI / SCL SIC / L C / CL SC		vf n pf / 1 po / 2 mk br / 3 co / 4 k cobr	a s / c w / g l / d b	

Soil Description: Location MU 4 PIT 19

Site No. ____ **Date** 9/4 **Time** 11:43 **Vegetation** very sparse sage - hilltop appears severely eroded

Elevation ____ **Slope** 4-5% 5-2% **Aspect** NW **Geomorphic Surface** ~~shale~~ or siltstone

Parent Material(s) ____ **Described by** JCEB Revisited 9/12

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6	A	3/3 - 4/3 9/12	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo lo vfr so fr sh fl h vfl vh efl eh		S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a a c w g l d b	~~Stop~~ ≈24" to siltstone
6-12 12-18	B?	4/3 - 4/4 4/3 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo lo vfr so fr sh fl h vfl vh efl eh		S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a a c w g l d b	(maroon) (pulverized) perhaps Pmt (def) 9/12
18-24		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo lo vfr so fr sh fl h vfl vh efl eh		S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a a c w g l d b	
24-30 CV		10YR 5/3 4/4 - 5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo lo vfr so fr sh fl h vfl vh efl eh		S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a a c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo lo vfr so fr sh fl h vfl vh efl eh		S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a a c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo lo vfr so fr sh fl h vfl vh efl eh		S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pf 1 po 2 mk br 3 co 4 k cobr	a a c w g l d b	

Soil Description: Location MU Pit #20

Site No. _____ **Date** _____ **Time** 12:40 **Vegetation** Sparse grass & sage

Elevation _____ **Slope** 5% **Aspect** NW **Geomorphic Surface** hill crest – shoulder

Parent Material(s) Sandy/silty/shale ~24-30" **Described by** Cipra / Brown

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6		10YR 4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pl 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	Potential profile
6-12		10YR 4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pl 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
12-18		" 4/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pl 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	18-36 ef = V
18-24		" 6/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	CH	vl n pl 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	18-36 Uniform
24-36 Cr		" 6/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C	vl n pl 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	flaky dusty
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		vl n pl 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MUI PIT 21

Site No: _____ **Date** 9/4 **Time** 1:00 **Vegetation** Very sparce sage/grass - wind eroded hilltop

Elevation _____ **Slope** 5-7% **Aspect** SE **Geomorphic Surface** _____

Parent Material(s) _____ **Described by** _____

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet	Consistence Moist	Consistence Dry	Texture	pH	Clay films	Boundaries	notes
0-6		4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	C	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	~~possible profile~~
6-12		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef - φ
12-18	Evidence of shale at 12" 10YR 6/4		m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC	H	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef - V
18-24		7/3 maybe 7/2	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
24-30	Cr shale silt-stone	7/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po ss ps s p vs vp	lo vfr fr fl vfl efl	lo so sh h vh eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MU PIT 22

Site No. _____ **Date** 9/4 **Time** _____ **Vegetation** (denuded) eroded (hilltop) - very sparse

Elevation _____ **Slope** _____ **Aspect** _____ **Geomorphic Surface** _____

Parent Material(s) _____ **Described by** _____

Depth (cm)	Horizon	Color (moist / dry)	Structure	Gravel %	Consistence (Wet / Moist / Dry)	Texture	pH	Clay films	Boundaries	notes
0-6		10YR 4/3 / 4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	~~dt~~
6-12		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef = SI
12-18		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC	H	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	floury ef = U
18-24		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
24-36		6/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
36-48		6/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef = V

Soil Description: Location PIT23

Site No. ____ Date 9/4 Time 2100 Vegetation Sage/grass very sparse

Elevation ____ Slope 0%-1 Aspect — Geomorphic Surface Pit located on a broad flat

Parent Material(s) ____ Described by Cipra very sparse veg

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
0-6		4/3	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL (SL) SI SCL SIC L C CL SC	H C	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef = 0
6-12		4/4								ef = 0
12-18		5/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL (SL) SI SCL SIC L C CL SC	H C	v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	ef = V
18-24		10YR 6/4								V
24-30	gr	10YR 6/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 (10) >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL (LS) SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	sl
30-36	vgr	2.5Y 6/4	m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 (10) >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	(S) SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	vgr sl
36-42	vgr									gr
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	
			m vf gr sg f pl 1 m pr 2 c cpr 3 vc abk sbk	0 50 <10 75 10 >75 25	so po / lo lo ss ps / vfr so s p / fr sh vs vp / fl h vfl vh efl eh	S SICL LS SIL SL SI SCL SIC L C CL SC		v1 n pf 1 po 2 mk br 3 co 4 k cobr	a s c w g l d b	

Soil Description: Location MULPIT 24 Pit ~~dep~~ desc 0-36"

Site No. ____ Date 9/4 Time 2225 Vegetation Very sparse sagebrush

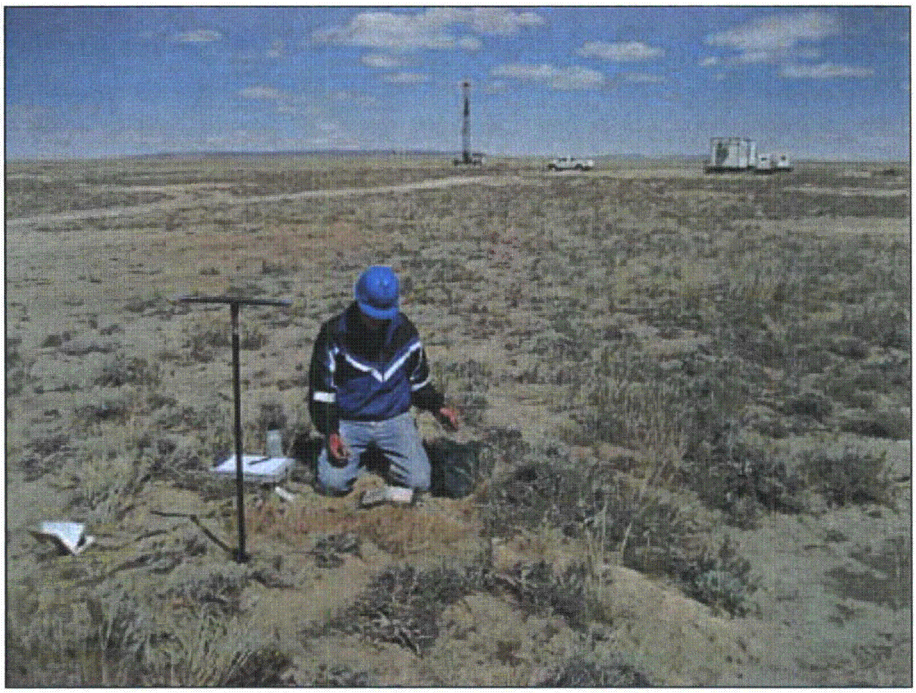
Elevation ____ Slope 0% Aspect — Geomorphic Surface Flat interfluve - sim. to 23

Parent Material(s) ____ Described by JC EB

Depth (cm)	Horizon	Color moist / dry	Structure	Gravel %	Consistence Wet / Moist / Dry	Texture	pH	Clay films	Boundaries	notes
0-6	S1	4/3	m vf gr / sg f pl / 1 m pr / 2 c cpr / 3 vc abk / sbk	0 50 / <10 75 / 10 >75 / 25	so po / ss ps / s p / vs vp / lo vfr fr fl vfl efl / lo so sh h vh eh	S SICL / LS SIL / SL SI / SCL SIC / L C / CL SC		vf n pf / 1 po / 2 mk br / 3 co / 4 k cobr	a s / c w / g l / d b	ϕ
6-12	SL	4/4								ϕ
12-18	SL (heavy) >15% gravel	5/4								V
18-24	LS	5/4								V
24-30	sand	5								V
30-36	sand	6/3								S1
36-42										Note —

Addendum MU1 3-1-3a

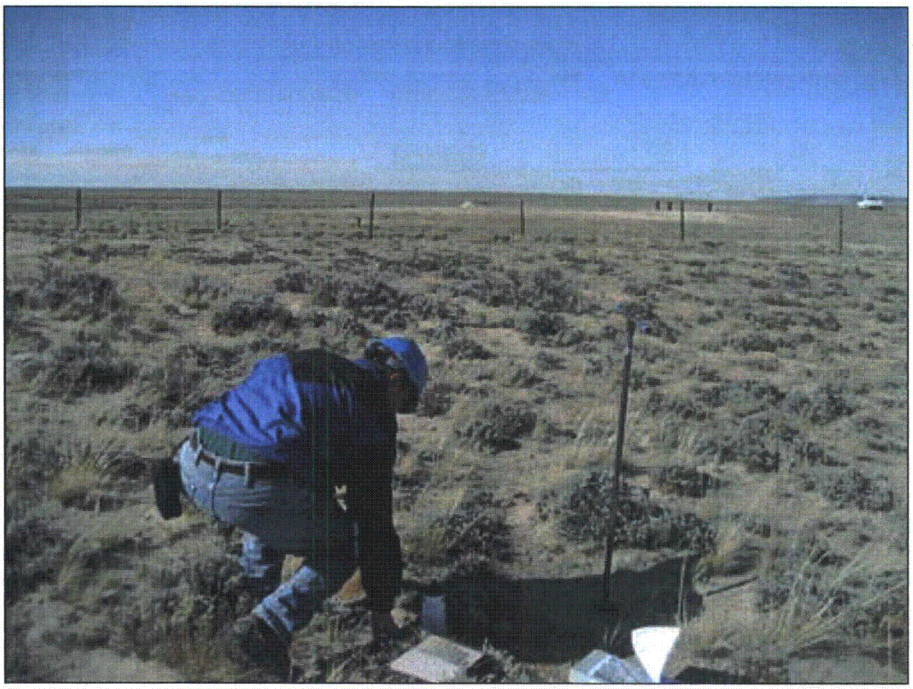
Soil Pit Photographs



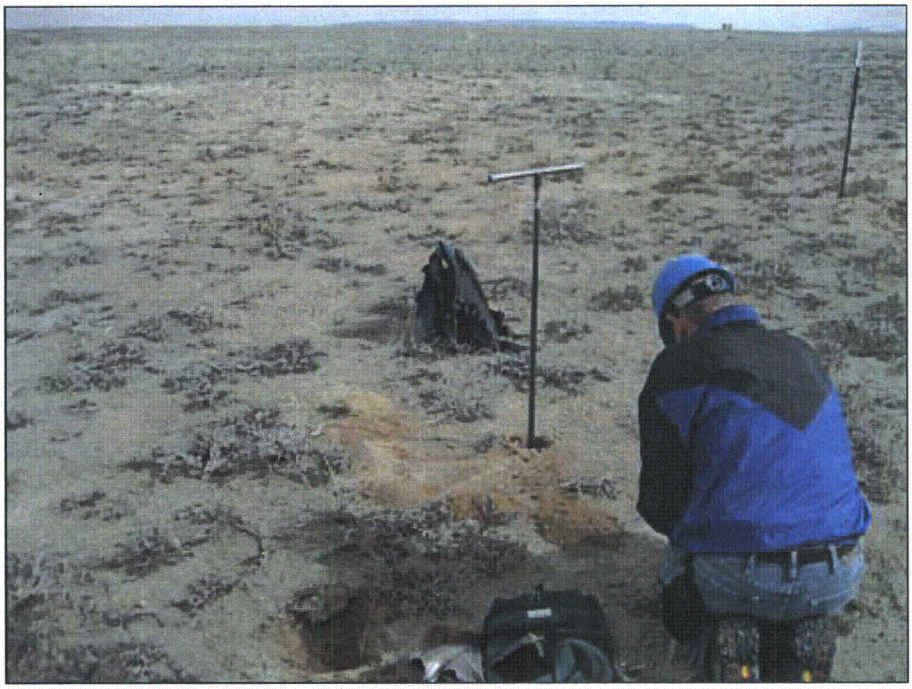
Mine Unit 1 Pit 1. East end of Mine Unit 1. Drilled to depth of 34 in.

Mine Unit 1 Pit 2 which is approximately 25 ft north of Mine Unit 1 Pit 1. Vegetation on site had 50% ground cover, including 30% sage, 15% grasses & 5% other cover. Drilled to depth of 23 in.

Mine Unit 1 Pit 3. Central portion of Mine Unit 1. Vegetation covers 50% of ground with grass up to 1 ft. Site is near three old drill sites which are a year old. This site is approximately 25 ft north of major E-W access road. Drilled to depth of 31 in.

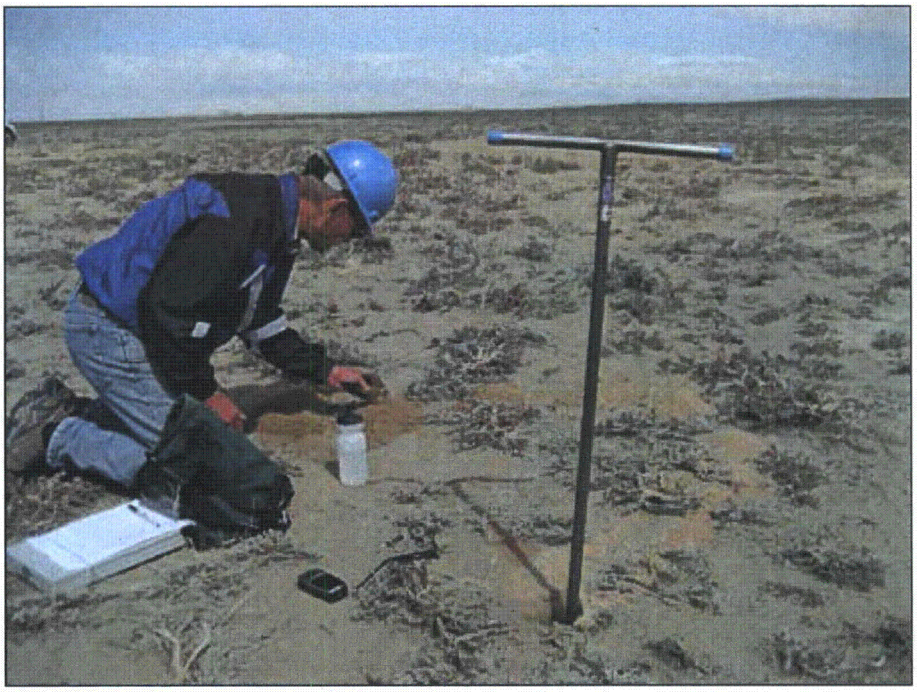


Mine Unit 1 Pit 5. Central portion of Mine Unit 1. Vegetation on site had 50% ground cover, including 30% sage, 15% grass & 5% litter & other cover. Drilled to depth of 33 in.

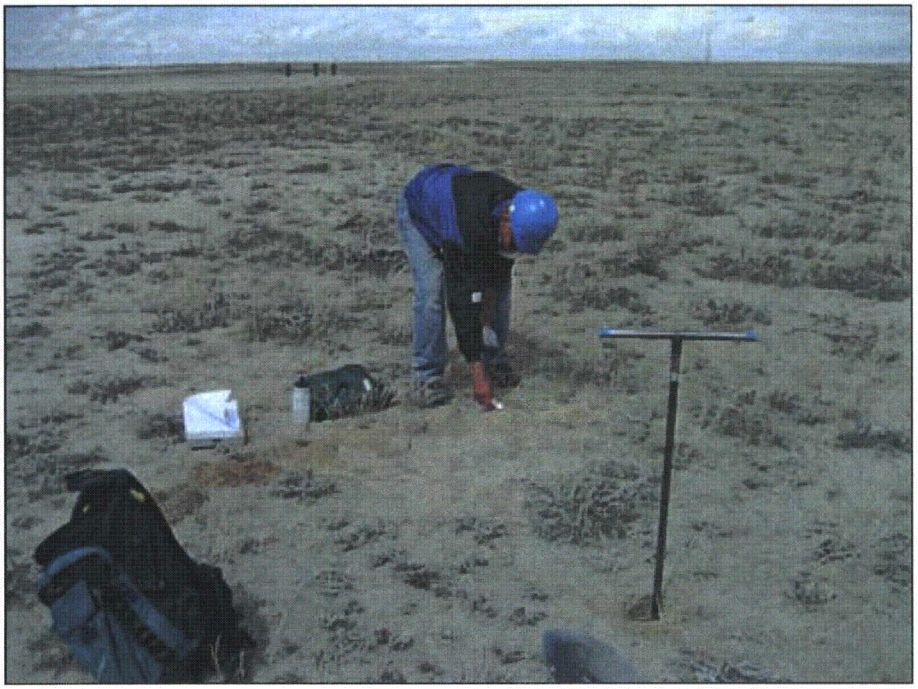


Mine Unit 1 Pit 6. East portion of Mine Unit 1. Elevation 6960 ft. Vegetation on site had 30% surface cover, including 35% sage roots & 5% grass & other cover. Drilled to depth of 35 in.

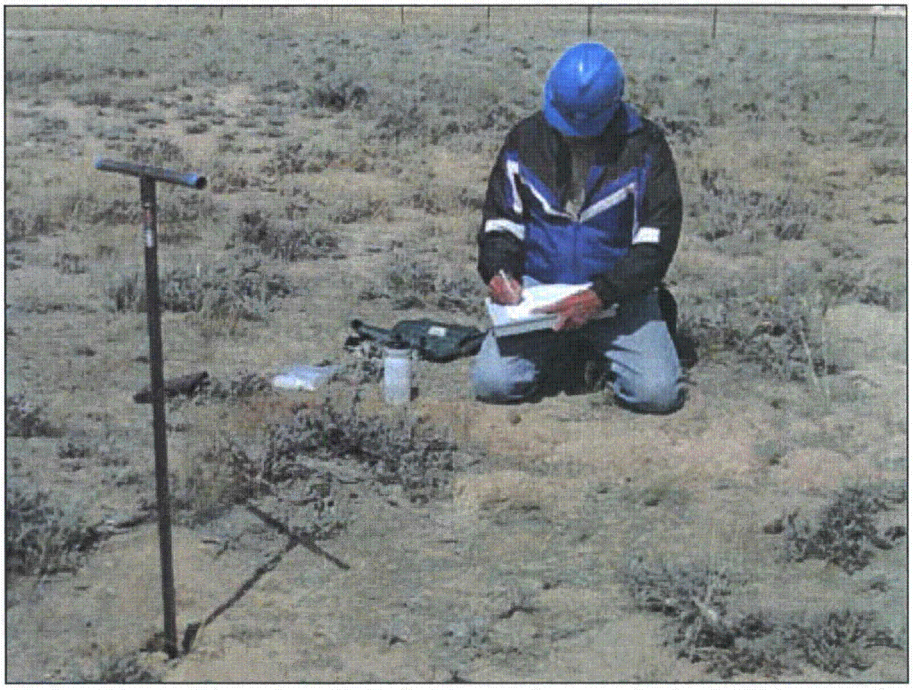
Mine Unit 1 Pit 7. East portion of Mine Unit 1. Elevation 6949 ft. Vegetation on site had 30% surface cover, including 25% sage roots & 5% grasses and other cover. Site was disturbed. Drilled to depth of 48 in.



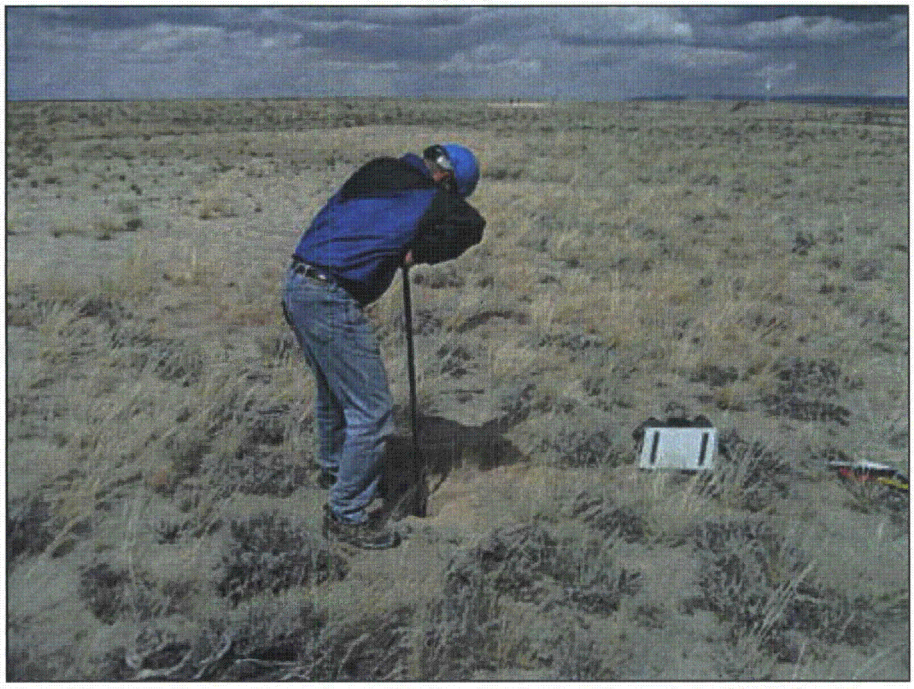
Mine Unit 1 Pit 8. East portion of Mine Unit 1. Elevation 6952. Vegetation on site had 35% ground cover, including 30% crushed/live sage & 5% grasses & other cover. Site was disturbed. Drilled to depth of 42 in.



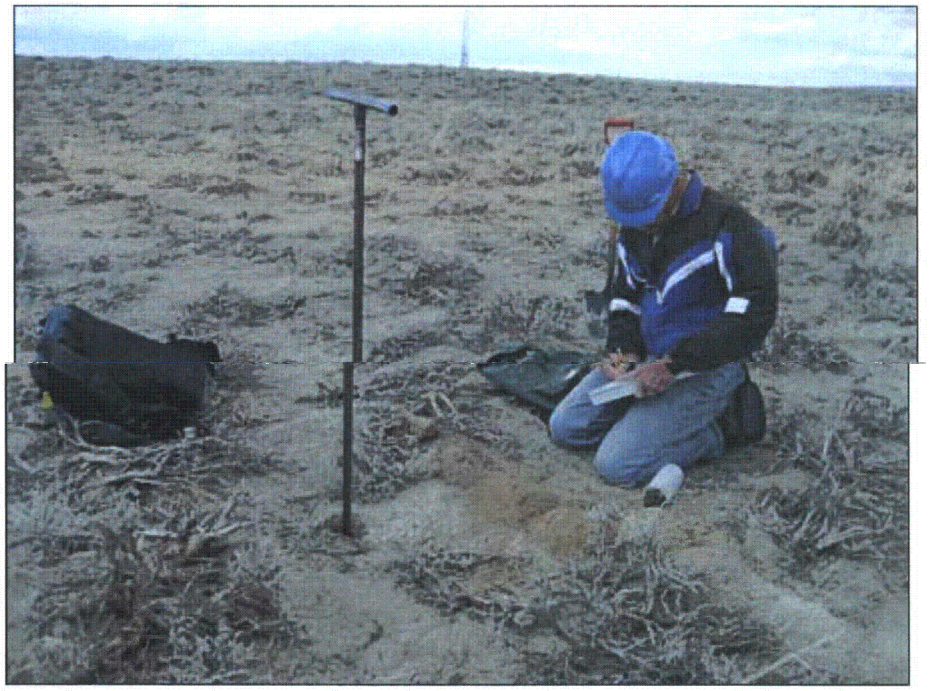
Mine Unit 1 Pit 9. East portion of Mine Unit 1. Elevation 6962 ft. Vegetation on site included 25% sage & 5% other cover. Site was disturbed. Drilled to a depth of 42 in.



Mine Unit 1 Pit 10. Elevation 6968 ft. Vegetation on site had 60% ground cover, including 40% sage, 10% grasses & 10% lichens & other vegetation. Drilled to depth of 36 in.

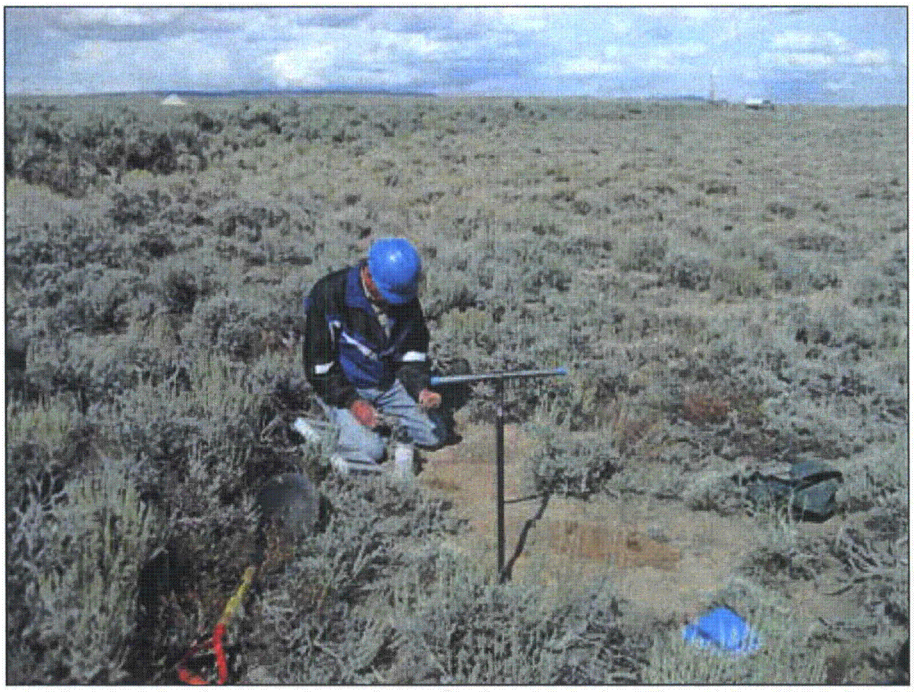


Mine Unit 1 Pit 11. Central portion of Mine Unit 1. Elevation 6965 ft. Vegetation on site had 65% ground cover, including 40% sage, 20% grass & 5% other cover. Drilled to depth of 36 in.

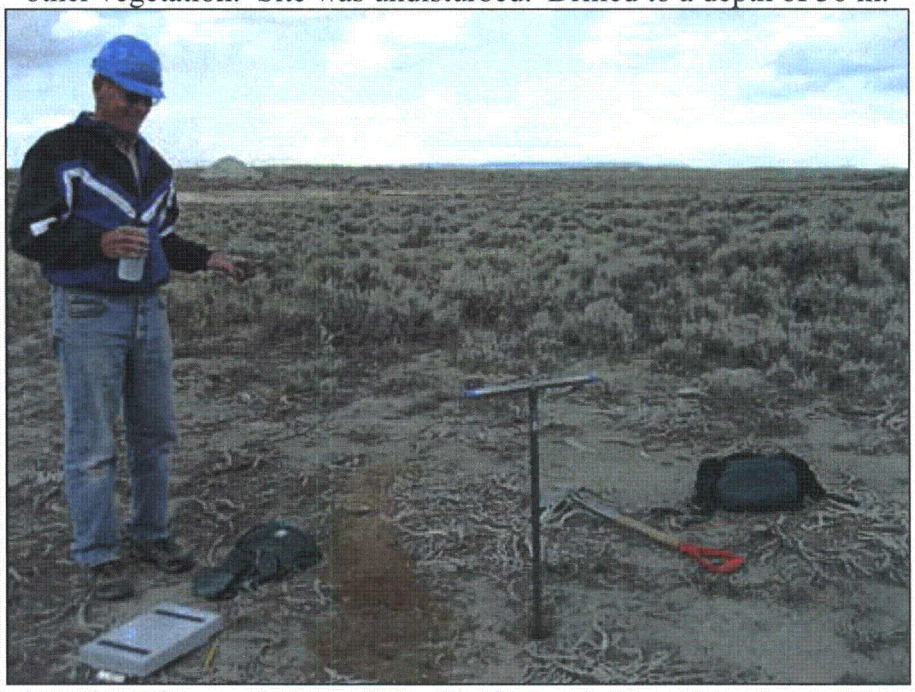


Mine Unit 1 Pit 12. Northeast portion of Mine Unit 1. Elevation 6972 ft. Vegetation on site had 50% ground cover, including 45 to 50% sage & 5% grasses & other vegetation. Drilled to depth of 36 in.

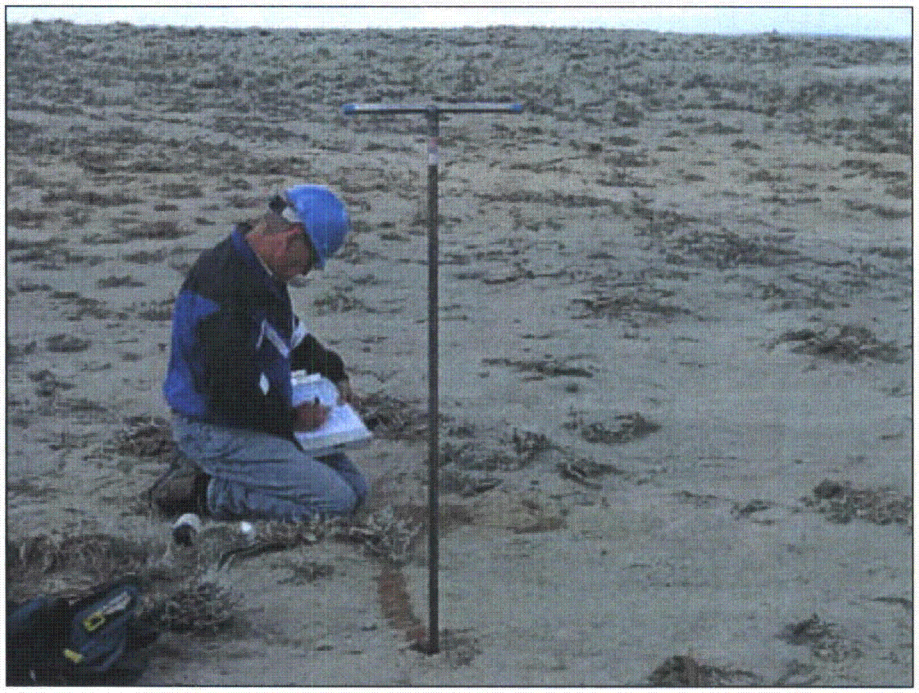
Mine Unit 1 Pit 13 (Expanded to soil profile & sampled, see Attachment 3b). North central portion of Mine Unit 1. Elevation 6952 ft. Vegetation on site had 15% ground cover, including 10% sage & 5% grasses. Site was disturbed. Drilled to depth of 24 in.



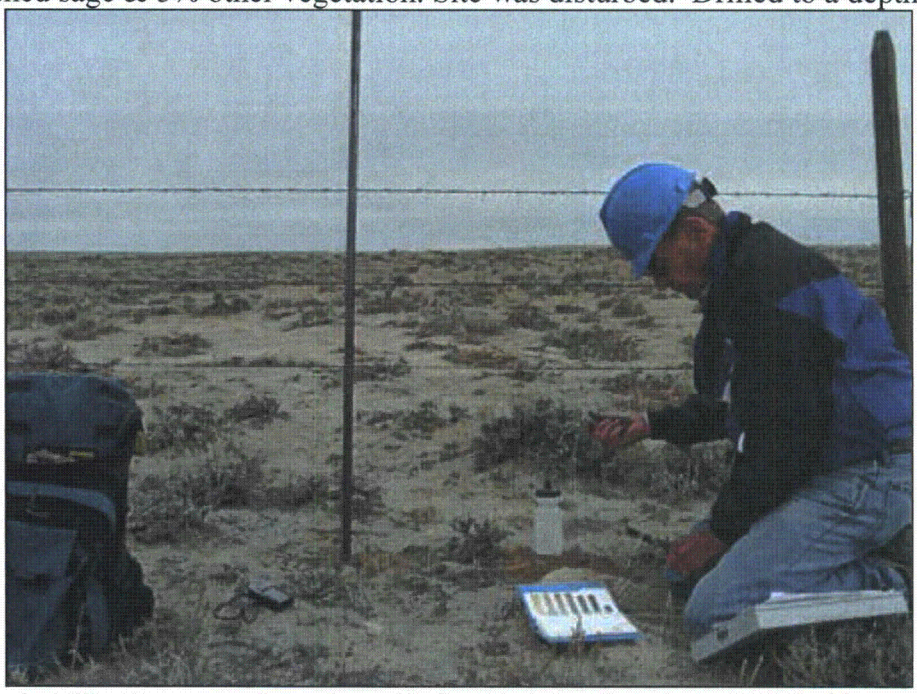
Mine Unit 1 Pit 14. North central portion of Mine Unit 1. Elevation 6955 ft. . Vegetation on site had 75% ground cover, including 60% sage, 10% grasses & 5% prickly pear & other vegetation. Site was undisturbed. Drilled to a depth of 36 in.



Mine Unit 1 Pit 15 (Expanded to soil profile & sampled, see Attachment 3b). Central portion of Mine Unit 1. Elevation 6952 ft. Vegetation on site had 50% ground cover, including 40% dead sage & 10% litter. Site was roadway. Drilled to a depth of 42 in.

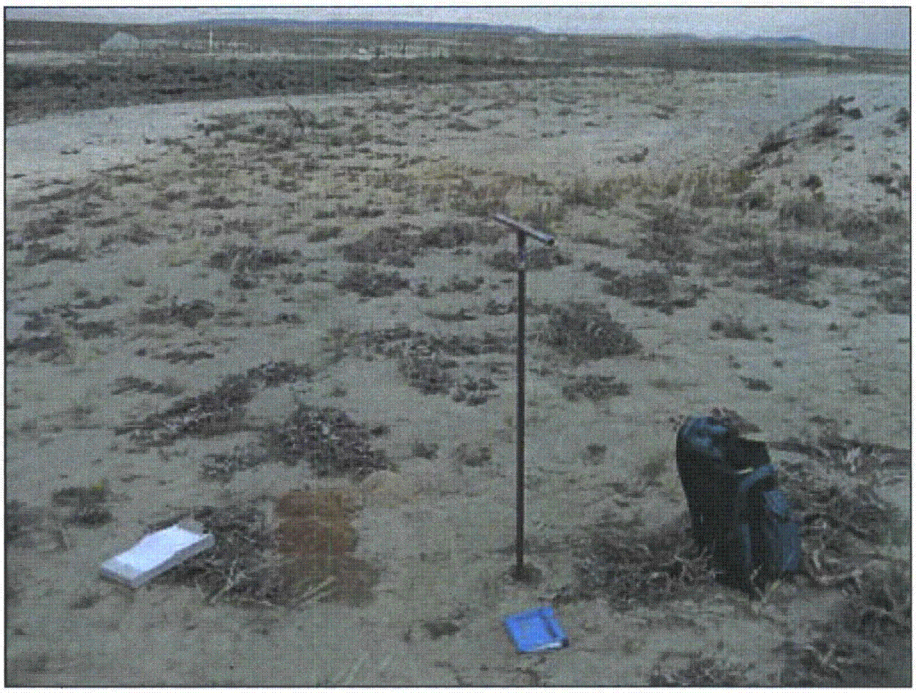


Mine Unit 1 Pit 16. (Expanded to soil profile, see Attachment 3b.) Central portion of Mine Unit 1. Elevation 6949 ft. Vegetation on site had 25% ground cover, including 20% crushed sage & 5% other vegetation. Site was disturbed. Drilled to a depth of 24 in.

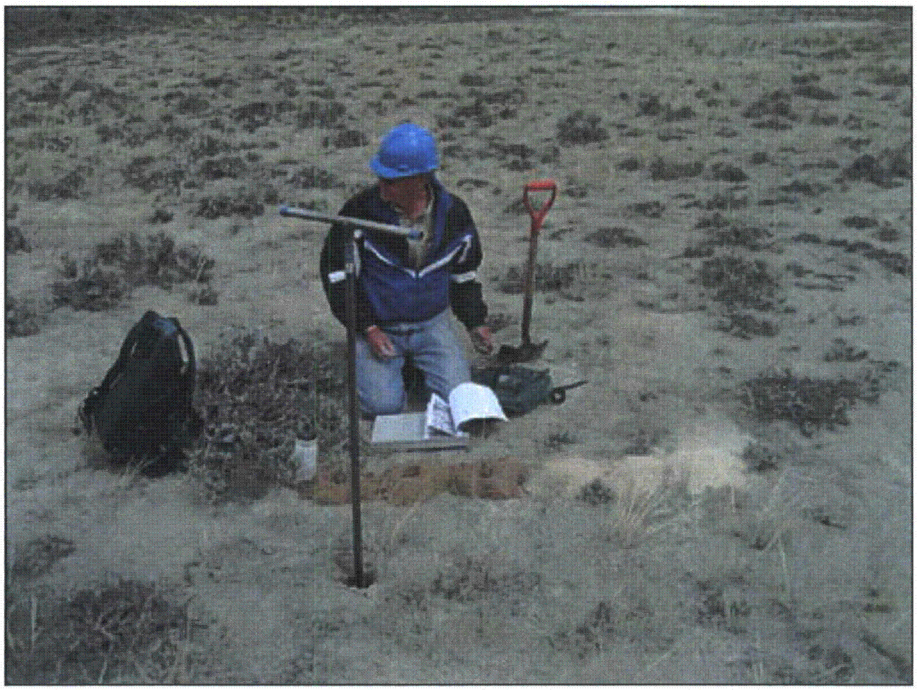


Mine Unit 1 Pit 17. Central portion of Mine Unit 1. Elevation 6955 ft. Vegetation on site had 30% ground cover, including 25% sage & 5% other vegetation. Drilled to a depth of 15 in. (to rock). The picture was taken between the fence line & road.

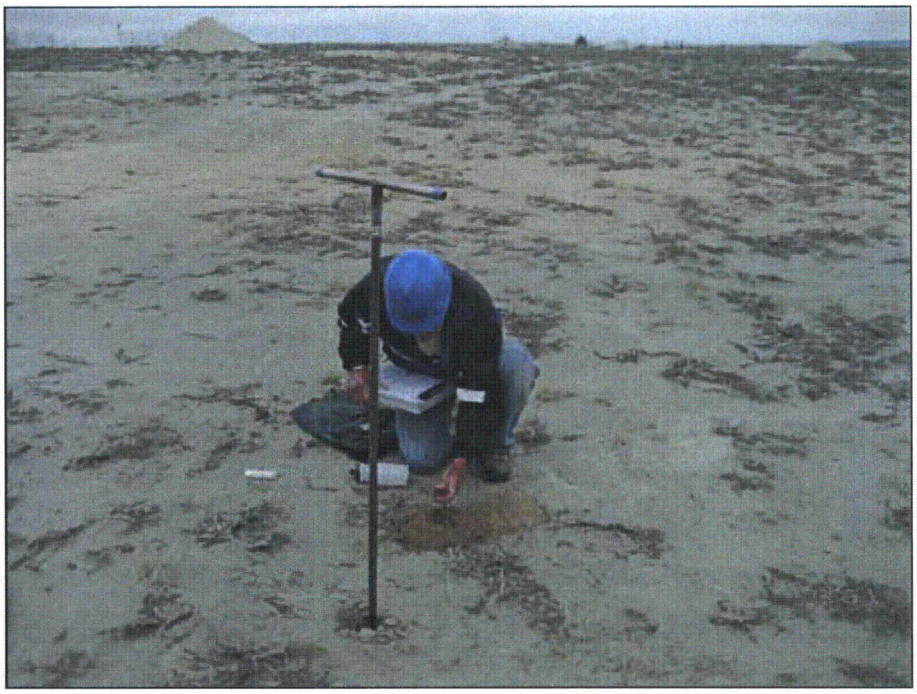
Mine Unit 1 Pit 18. Central portion of Mine Unit 1. Elevation 6942 ft. Vegetation on site had 50% ground cover, including 45% crunched sage & 5% other vegetation. Drilled to depth of 48 in.



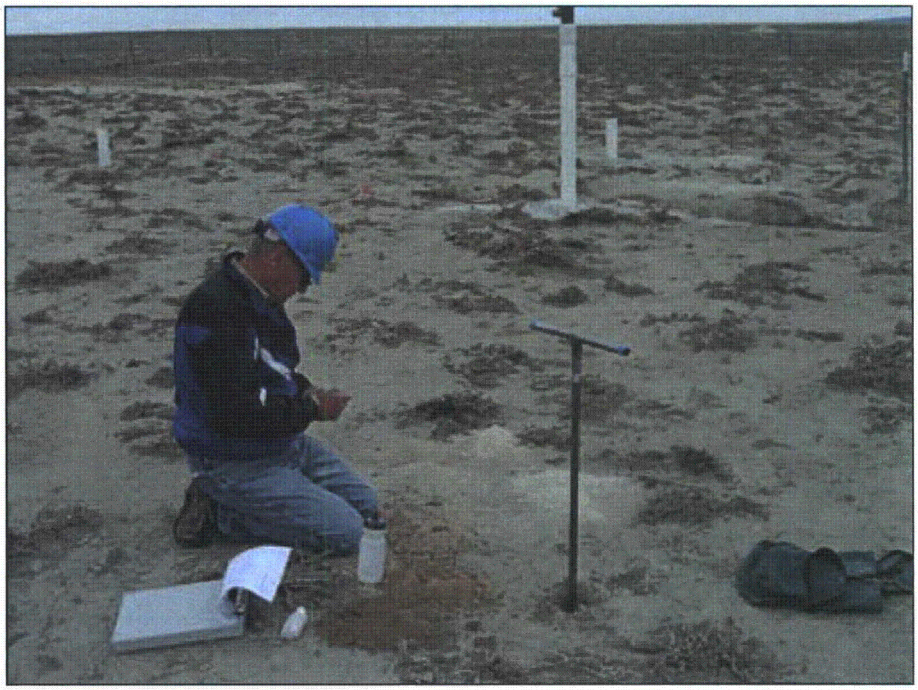
Mine Unit 1 Pit 19. Central portion of Mine Unit 1. Elevation 6952 ft. Vegetation on site had 20% ground cover, including 15% sage & 5% other cover. Site was disturbed. Drilled to depth of 26 in. (to rock).



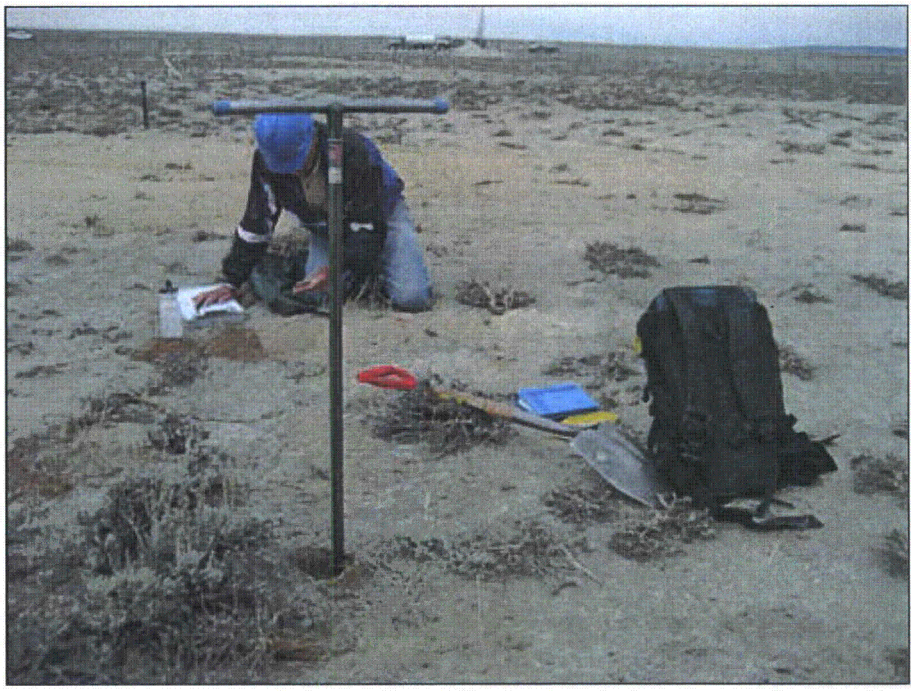
Mine Unit 1 Pit 20. West portion of Mine Unit 1. Elevation 6955 ft. Vegetation on site had 30% ground cover, including 15% sage & 15% grasses. Site was relatively undisturbed. Drilled to depth of 36 in.



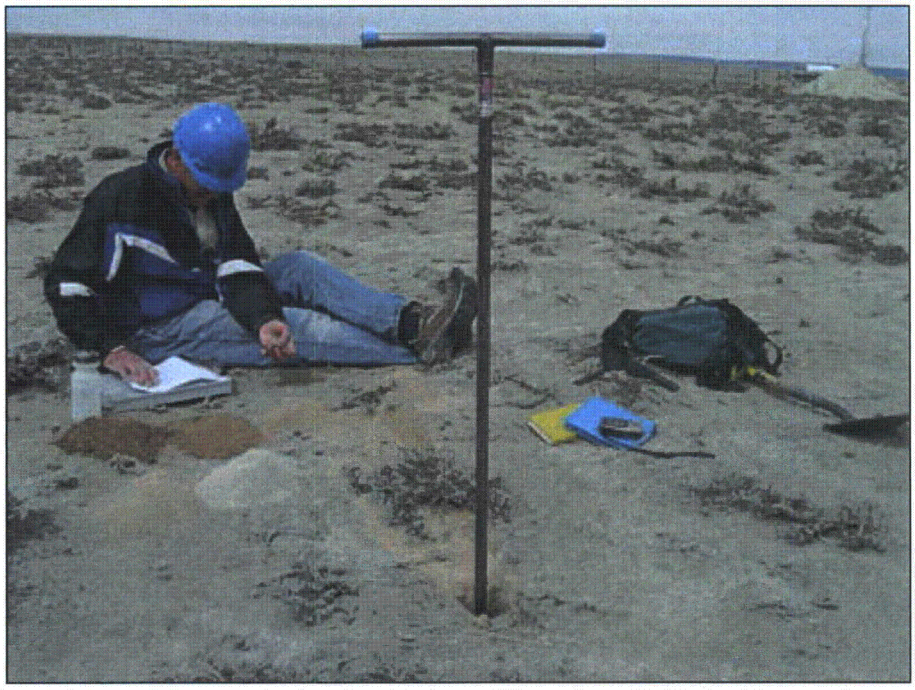
Mine Unit 1 Pit 21. West portion of Mine Unit 1. Elevation 6962 ft. Drilled to depth of 30 in.



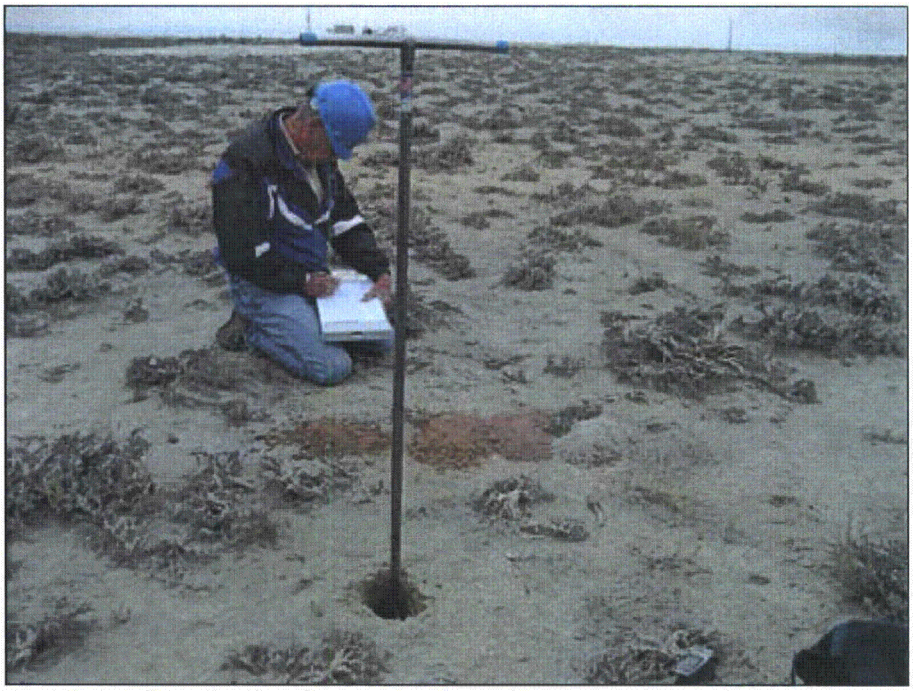
Mine Unit 1 Pit 22. West portion of Mine Unit 1. Elevation 6962 ft. Vegetation on site had 25% ground cover, including 20% sage & 5% other vegetation. Site was disturbed, between two mud pits. Drilled to depth of 48 in.



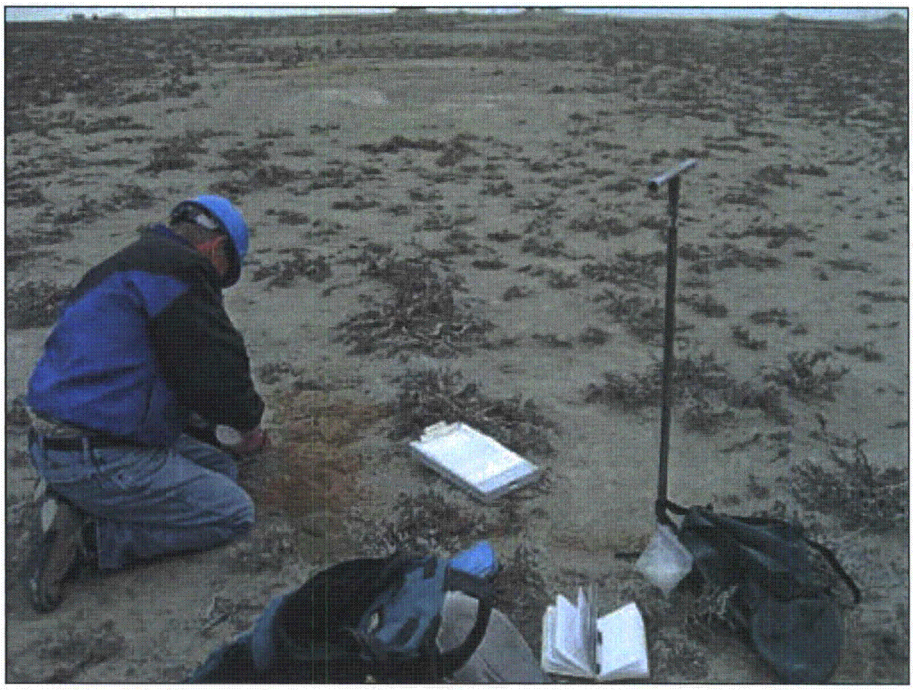
Mine Unit 1 Pit 23 (Expanded to soil profile & sampled, see Attachment 3b). West portion of Mine Unit 1. Elevation 6946 ft. Vegetation on site had 20% ground cover, including 15% sage & 5% other. Site was disturbed, next to a mud pit. Drilled to depth of 42 in.



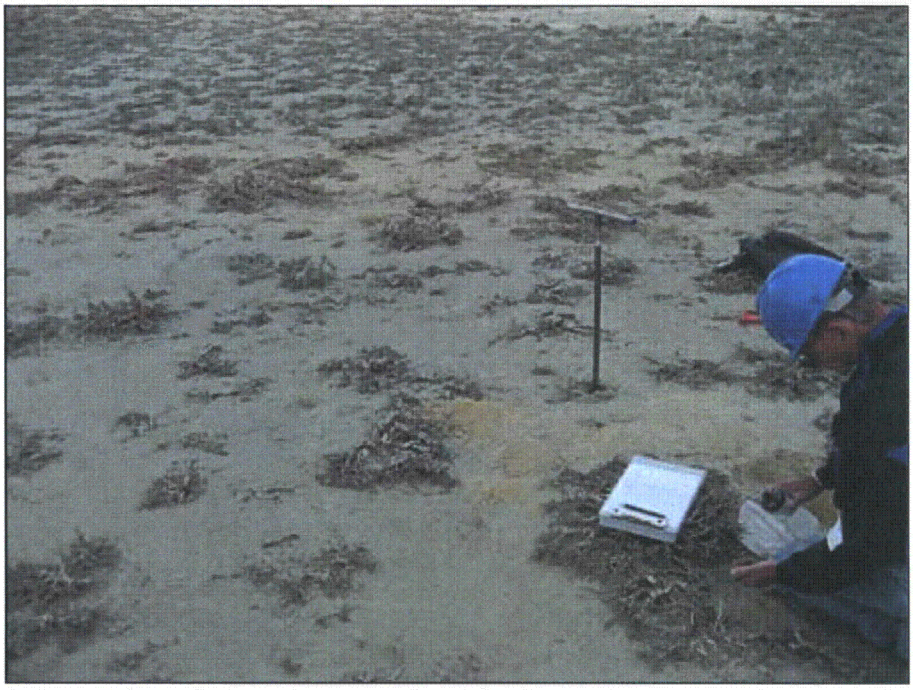
Mine Unit 1 Pit 24. West end of Mine Unit 1. Elevation 6962 ft. Vegetation on site had 20% ground cover, including 20% sage. Drilled to depth of 36 in.



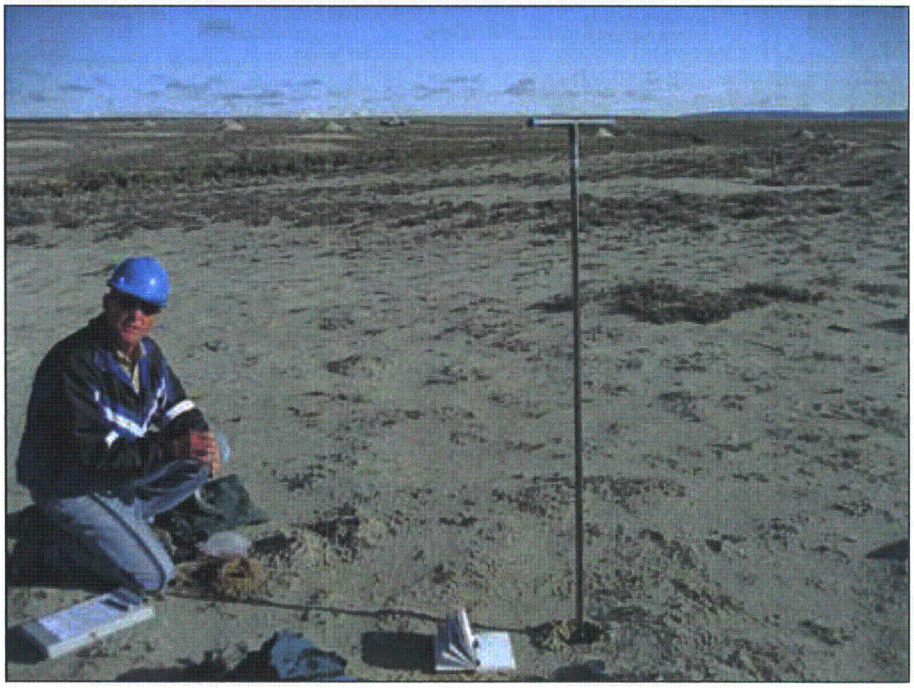
Mine Unit 1 Pit 25. Southwest portion of Mine Unit 1. Elevation 6949 ft. Vegetation on site had 40% ground cover, including 30% sage & 10% other vegetation. The site had mild disturbance. Drilled to depth of 30 in.



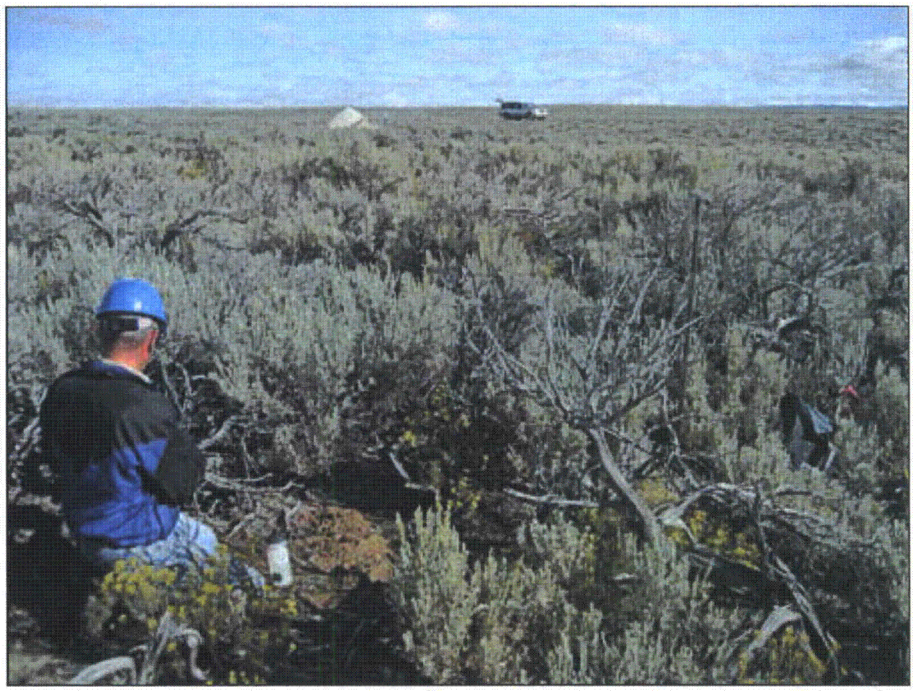
Mine Unit 1 Pit 26 (Expanded to soil profile, see Attachment 3b). Elevation 6936 ft. Vegetation on site had 50% ground cover, including 45% sage & 5% other. The site had mild disturbance. Drilled to depth of 36 in.



Mine Unit 1 Pit 27. West portion of Mine Unit 1. Elevation 6942 ft.
Vegetation on site had 40% ground cover, including 35% sage & 5% grasses/other. Site was disturbed. Drilled to depth of 48 in.



Mine Unit 1 Pit 28. Southwest portion of Mine Unit 1. Elevation 6936 ft.
Vegetation on site had 10 to 15% ground cover, including 5 % sage roots &5% grass roots or other. Drilled to depth of 18 in.

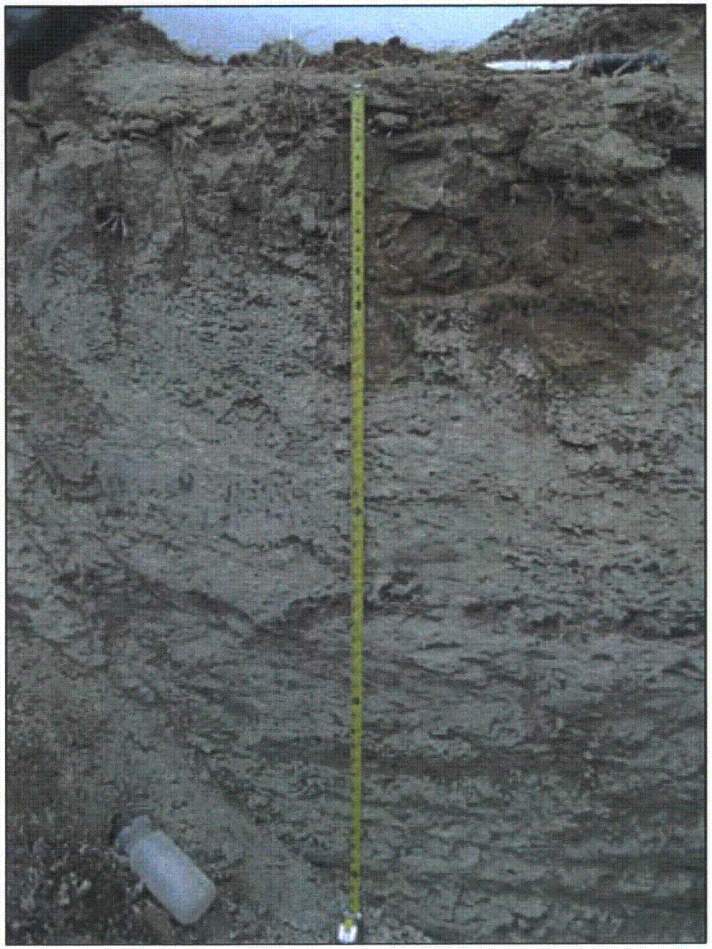


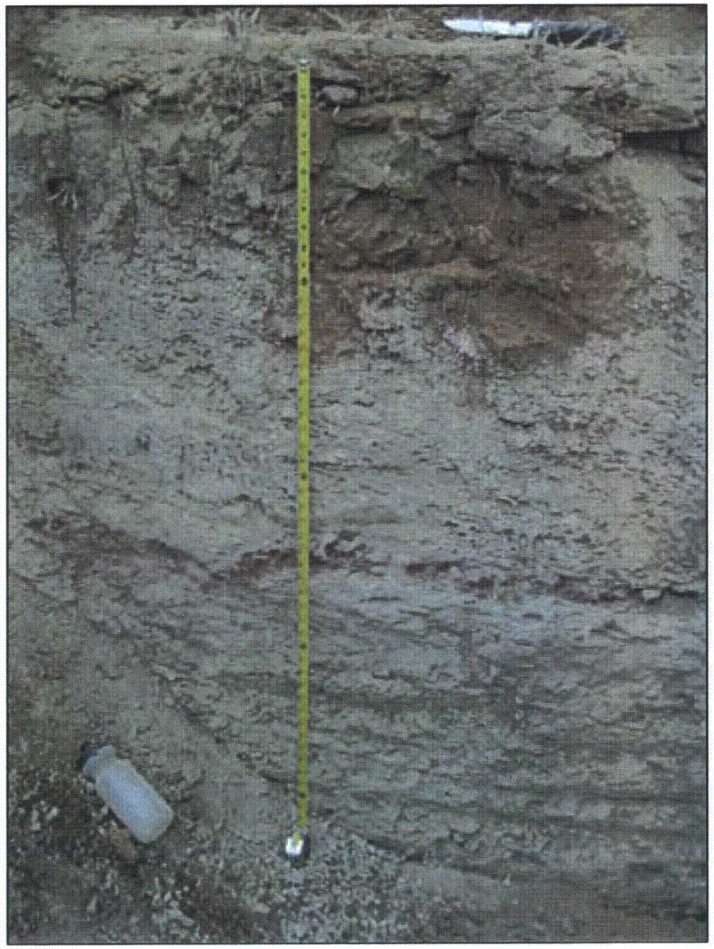
Mine Unit 1 Pit 35 (Expanded to soil profile & sampled.) Plant Site. Elevation 6978 ft. Vegetation on site had 85% ground cover, including 80% large sage to 4 ft high & 5% other vegetation. Picture was taken in the undisturbed terrain west of Mine Unit 1 Pit 29 in the swale. Site was undisturbed. Drilled to depth of 24 in.

Numbers 36 through 50 were not assigned to any sampling locations.
See Attachment 3b for photographs of the soil profiles.
No pictures were taken at Mine Unit 1 Pits 55 through 58.

Addendum MU1 3-1-3b

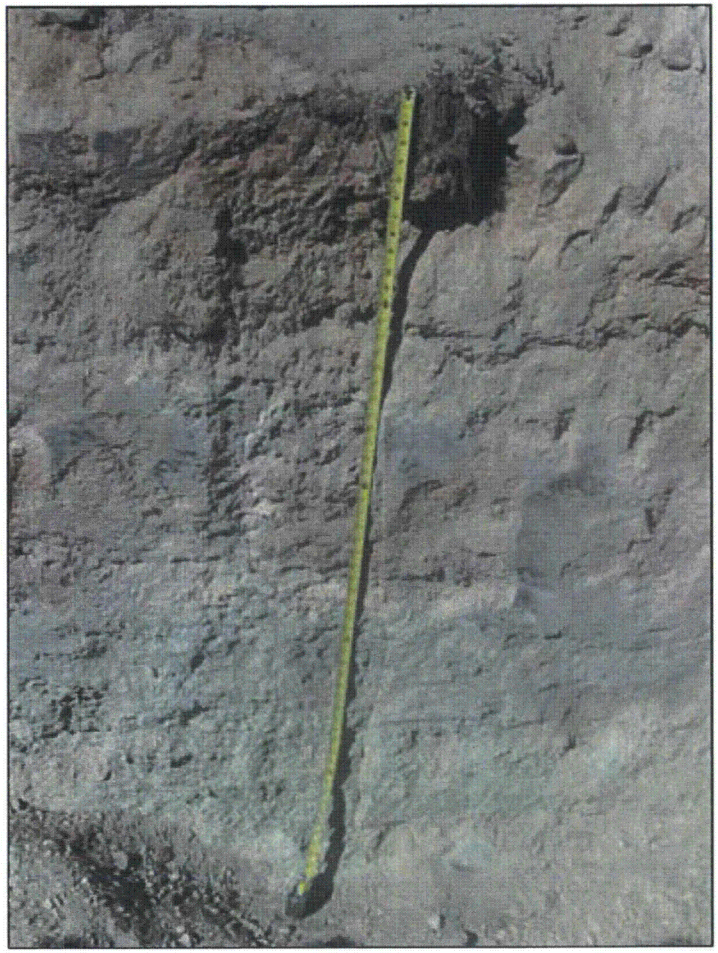
Soil Profile Photographs



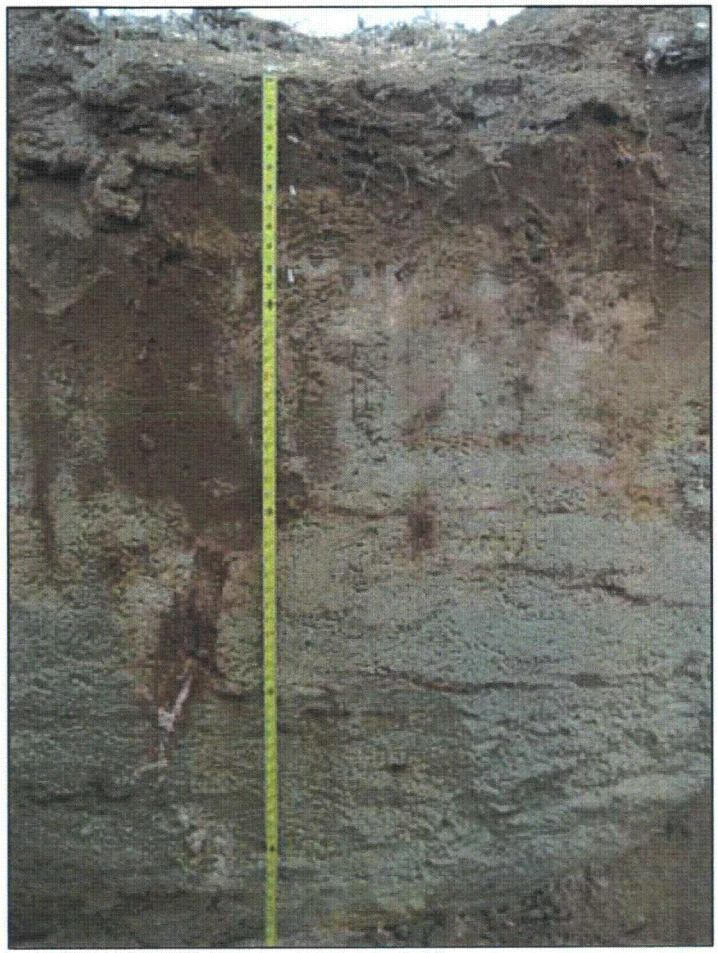


Mine Unit 1 Profile 13 (Sampled for laboratory analysis.) North central portion of Mine Unit 1.

Mine Unit 1 Profile 15 (Sampled for laboratory analysis.) Central portion of Mine Unit 1.

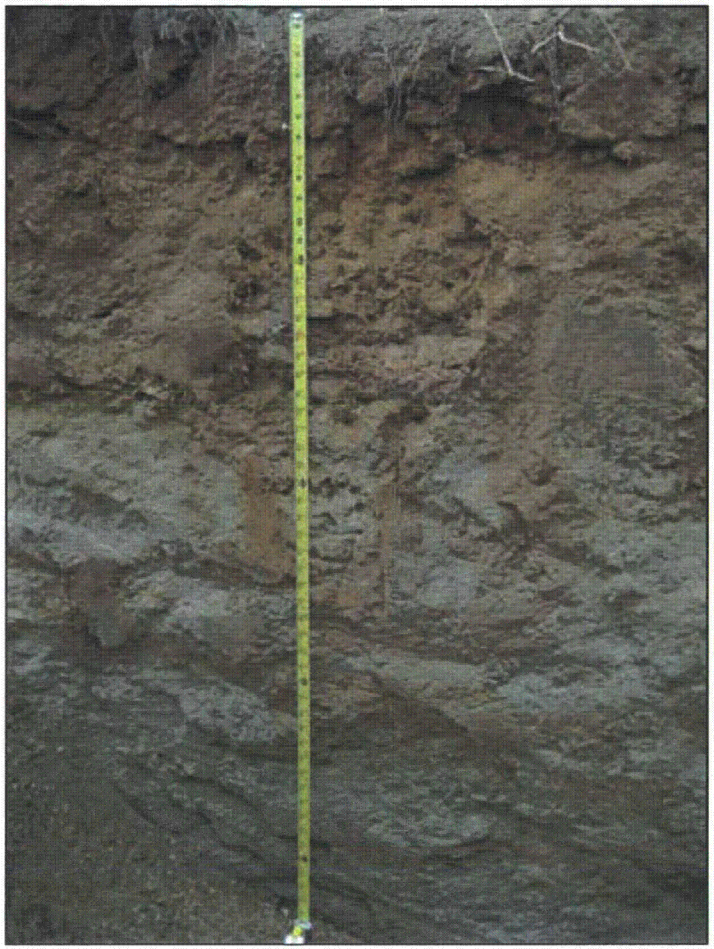


Mine Unit 1 Profile 16
Central portion of Mine Unit 1.



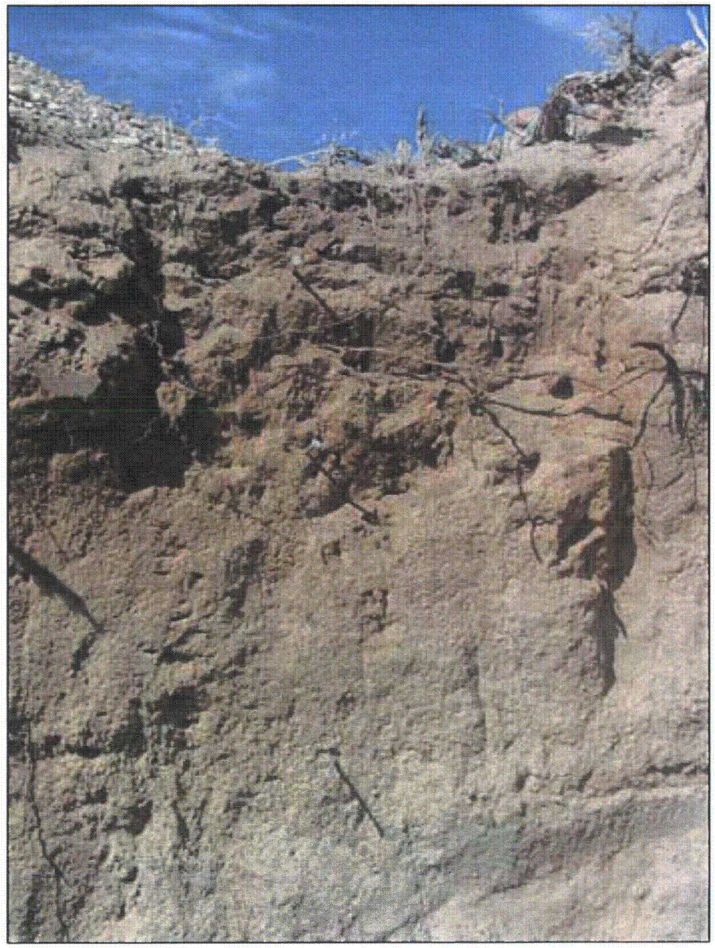
Mine Unit 1 Profile 23
West portion of Mine Unit 1
(Sampled for laboratory analyses.)

Mine Unit 1 Profile 26
Southwest portion of Mine Unit 1.



Mine Unit 1 Profile 50
(Sampled for laboratory analyses.)
East portion of Mine Unit 1.

Mine Unit 1 Profile 51
Central portion of Mine Unit 1.



Mine Unit 1 Profile 52. Northeast portion of Mine Unit 1.

Addendum MU1 3-1-4

Laboratory Report

ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602
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ANALYTICAL SUMMARY REPORT

October 26, 2008

AATA International Inc
300 E Boardwalk Dr STE 4A
Fort Collins, CO 80525

Workorder No.: C08090808 Quote ID: C2932 - Topsoil Suitability

Project Name: Not Indicated

Energy Laboratories, Inc. received the following 13 samples from AATA International Inc on 9/19/2008 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C08090808-001	MV1PR35-0-8	09/09/08 11:20	09/19/08	Soil	Saturated Paste Electrical Conductivity Selenium, ABDTPA Extractable Metals, CaCl2 Extractable Metals, Soluble Lime as CaCO3 Organic Carbon Saturation Percentage Saturated Paste pH ABDTPA Soil Extraction CaCl2 Hot Water Soil Extraction Lime Percentage Particle Size Analysis / Texture Prep Saturated Paste Total Organic Carbon Prep Particle Size Analysis / Texture Sodium Adsorption Ratio in Soil
C08090808-002	MV1PR35-8-18	09/09/08 11:20	09/19/08	Soil	Same As Above
C08090808-003	MV1PR35-18-34	09/09/08 11:20	09/19/08	Soil	Same As Above
C08090808-004	MV1PR35-34-48	09/09/08 11:20	09/19/08	Soil	Same As Above
C08090808-005	MV1PR33-0-12	09/09/08 14:50	09/19/08	Soil	Same As Above
C08090808-006	MV1PR33-12-33	09/09/08 14:50	09/19/08	Soil	Same As Above
C08090808-007	MV1PR50-0-6	09/11/08 13:22	09/19/08	Soil	Same As Above
C08090808-008	MV1PR50-6-60	09/11/08 13:22	09/19/08	Soil	Same As Above
C08090808-009	MV1PR13-0-10	09/11/08 12:46	09/19/08	Soil	Same As Above
C08090808-010	MV1PR15-0-24	09/11/08 12:00	09/19/08	Soil	Same As Above
C08090808-011	MV1PR15-24-60	09/11/08 12:00	09/19/08	Soil	Same As Above
C08090808-012	MV1PR23-0-10	09/11/08 15:00	09/19/08	Soil	Same As Above
C08090808-013	MV1PR23-10-60	09/11/08 15:00	09/19/08	Soil	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: STEVE CARLSTON

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LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: Not Indicated
Workorder: C08090808

Report Date: 10/26/08
Date Received: 09/19/08

	Analysis	EC SatPst	Saturation SatPst	Lime as CaCO3	pH SatPst	Ca SatPst	Mg SatPst	Na SatPst	SAR	Sand	Silt	Clay	Texture	Se-ABDTPA
	Units	mmhos/cm	%	%	s_u_	meq/L	meq/L	meq/L	unitless	%	%	%		mg/kg-dry
Sample ID	Client Sample ID	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
C08090808-001	MV1PR35-0-8	0.78	53.8	2.0	6.1	3.84	1.70	0.17	0.10	31	44	25	L	0.011
C08090808-002	MV1PR35-8-18	0.31	34.1	1.1	6.5	1.88	0.88	0.20	0.17	38	40	22	L	0.005
C08090808-003	MV1PR35-18-34	2.77	43.2	1.3	6.3	1.98	0.8	0.3	0.25	28	44	28	CL	0.009
C08090808-004	MV1PR35-34-48	0.53	40.7	1.2	8.6	3.21	1.38	0.41	0.27	44	33	23	L	0.004
C08090808-005	MV1PR33-0-12	0.39	27.1	1.1	7.0	2.77	1.16	0.55	0.39	58	24	18	SL	< 0.002
C08090808-006	MV1PR33-12-33	0.51	34.4	0.9	7.0	3.26	1.42	1.03	0.68	84	4	12	LS	< 0.002
C08090808-007	MV1PR50-0-6	0.47	41.5	1.0	7.8	2.54	1.13	1.13	0.84	72	10	18	SL	0.007
C08090808-008	MV1PR50-6-60	0.47	35.1	0.7	7.7	2.94	1.30	0.70	0.48	80	8	14	SL	0.005
C08090808-009	MV1PR13-0-10	0.48	27.1	0.8	7.8	3.22	1.03	1.20	0.83	66	16	18	SL	< 0.002
C08090808-010	MV1PR15-0-24	0.52	37.0	1.0	7.8	4.02	1.85	0.44	0.26	42	38	20	L	0.003
C08090808-011	MV1PR15-24-60	0.57	31.8	0.7	8.0	4.14	1.89	0.58	0.34	52	28	20	L	0.004
C08090808-012	MV1PR23-0-10	0.55	31.7	1.1	7.3	3.58	1.83	0.85	0.52	68	16	18	SL	0.005
C08090808-013	MV1PR23-10-60	1.82	30.8	0.9	8.0	7.80	3.33	10.2	4.34	82	8	12	SL	0.007

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LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: Not Indicated
Workorder: C08090808

Report Date: 10/26/08
Date Received: 09/19/08

		Analysis	B-CACL2	Organic Matter
		Units	mg/kg-dry	%
Sample ID	Client Sample ID		Results	Results
C08090808-001	MV1PR35-0-8		0.78	5.8
C08090808-002	MV1PR35-8-18		0.21	1.2
C08090808-003	MV1PR35-18-34		0.27	0.9
C08090808-004	MV1PR35-34-48		0.22	0.7
C08090808-005	MV1PR33-0-12		< 0.20	0.8
C08090808-006	MV1PR33-12-33		< 0.20	0.5
C08090808-007	MV1PR50-0-6		< 0.20	1.5
C08090808-008	MV1PR50-6-60		< 0.20	0.5
C08090808-009	MV1PR13-0-10		0.23	1.0
C08090808-010	MV1PR15-0-24		0.63	2.4
C08090808-011	MV1PR15-24-60		0.29	0.9
C08090808-012	MV1PR23-0-10		< 0.20	0.9
C08090808-013	MV1PR23-10-60		0.31	0.3

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QA/QC Summary Report

Client: AATA International Inc
Project: Not Indicated

Report Date: 10/26/08
Work Order: C08090808

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA15-5									Batch: 20140
Sample ID: LCS-20140	Laboratory Control Sample				Run: PSA_081017A				10/17/08 07:01
Sand	90.0	%	1.0	93	85	115			
Sample ID: C08091132-001ADUP	Sample Duplicate				Run: PSA_081017A				10/17/08 07:02
Sand	76.0	%	1.0				0	20	
Silt	16.0	%	1.0				0	20	
Clay	8.00	%	1.0				0	20	
Method: ASA29-3									Batch: 20046
Sample ID: MBLK-1	Method Blank				Run: HACH DR3000_081009C				10/09/08 14:03
Organic Carbon, Total (TOC)	ND	%	0.02						
Organic Matter, Total (TOM)	ND	%	0.03						
Sample ID: LCS-2	Laboratory Control Sample				Run: HACH DR3000_081009C				10/09/08 14:03
Organic Carbon, Total (TOC)	1.5	%	0.10	106	70	120			
Organic Matter, Total (TOM)	2.6	%	0.17	102	70	120			
Sample ID: C08091057-007ADUP	Sample Duplicate				Run: HACH DR3000_081009C				10/09/08 14:07
Organic Carbon, Total (TOC)	0.060	%	0.10				0	20	
Organic Matter, Total (TOM)	0.10	%	0.17				0	20	
Method: ASAM10-3									Batch: 20053
Sample ID: LCS-20053	Laboratory Control Sample				Run: COND1-C_081010A				10/10/08 07:21
Conductivity, paste extract	3.13	mmhos/cm	0.010	101	70	130			
Sample ID: C08090808-013ADUP	Sample Duplicate				Run: COND1-C_081010A				10/10/08 07:24
Conductivity, paste extract	1.80	mmhos/cm	0.010				0.9	20	
Method: ASAM10-3.2									Batch: 20053
Sample ID: LCS-20053	Laboratory Control Sample				Run: COND1-C_081010A				10/10/08 07:21
pH, sat. paste	2.1	s.u.	0.10	91	80	120			
Sample ID: C08090808-013ADUP	Sample Duplicate				Run: COND1-C_081010A				10/10/08 07:24
pH, sat. paste	8.1	s.u.	0.10				1	20	

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: AATA International Inc
Project: Not Indicated

Report Date: 10/26/08
Work Order: C08090808

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Batch: 19918
Sample ID: MB-19918	Method Blank				Run: ICP2-C_080930A				09/30/08 23:37
Boron	ND	mg/kg-dry	0.09						
Sample ID: LCS-19918	Laboratory Control Sample				Run: ICP2-C_080930A				09/30/08 23:41
Boron	1.3	mg/kg-dry	0.20	98	80	120			
Sample ID: C08090808-013AMS	Sample Matrix Spike				Run: ICP2-C_080930A				10/01/08 00:55
Boron	1.6	mg/kg-dry	0.20	94	80	120			
Sample ID: C08090808-013AMSD	Sample Matrix Spike Duplicate				Run: ICP2-C_080930A				10/01/08 00:59
Boron	1.6	mg/kg-dry	0.20	97	80	120	2	20	
Method: SW6010B									Batch: 20053
Sample ID: MB-20053	Method Blank				Run: ICP2-C_081013A				10/13/08 23:17
Calcium	ND	mg/L	0.2						
Magnesium	ND	mg/L	0.2						
Sodium	ND	mg/L	0.3						
Calcium, sat. paste	ND	meq/L	0.008						
Magnesium, sat. paste	ND	meq/L	0.02						
Sodium, sat. paste	ND	meq/L	0.01						
Sample ID: LCS-20053	Laboratory Control Sample				Run: ICP2-C_081013A				10/13/08 23:21
Calcium	61.7	mg/L	0.50	123	70	130			
Magnesium	62.3	mg/L	0.50	125	70	130			
Sodium	51.3	mg/L	0.50	103	70	130			
Sample ID: C08090808-001AMS2	Sample Matrix Spike				Run: ICP2-C_081013A				10/13/08 23:30
Calcium	183	mg/L	0.50	212	75	125			S
Magnesium	129	mg/L	0.50	217	75	125			S
Sodium	106	mg/L	0.54	204	75	125			S
Sample ID: C08090808-001AMSD2	Sample Matrix Spike Duplicate				Run: ICP2-C_081013A				10/13/08 23:34
Calcium	190	mg/L	0.50	227	75	125	4.2	20	S
Magnesium	134	mg/L	0.50	226	75	125	3.4	20	S
Sodium	105	mg/L	0.54	203	75	125	0.6	20	S
Sample ID: C08090808-013ADUP	Sample Duplicate				Run: ICP2-C_081013A				10/14/08 00:55
Calcium	146	mg/L	0.79				6.7	20	
Magnesium	37.0	mg/L	0.95				7.8	20	
Sodium	227	mg/L	1.3				3.3	20	
Calcium, sat. paste	7.29	meq/L	0.040						
Magnesium, sat. paste	3.08	meq/L	0.080						
Sodium, sat. paste	9.89	meq/L	0.058						

Qualifiers:
RL - Analyte reporting limit.
S - Spike recovery outside of advisory limits.
ND - Not detected at the reporting limit.

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QA/QC Summary Report

Client: AATA International Inc
Project: Not Indicated

Report Date: 10/26/08
Work Order: C08090808

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7742									Batch: 19919
Sample ID: MB-19919	Method Blank				Run: CVAA-C202_081001B				10/01/08 15:06
Selenium	ND	mg/kg-dry	0.001						
Sample ID: LCS-19919	Laboratory Control Sample				Run: CVAA-C202_081001B				10/01/08 15:15
Selenium	0.272	mg/kg-dry	0.0020	80	80	120			
Sample ID: C08090808-013AMSD	Sample Matrix Spike Duplicate				Run: CVAA-C202_081001B				10/01/08 16:00
Selenium	0.392	mg/kg-dry	0.0040	116	80	120	2.7	20	
Sample ID: C08090808-013AMS	Sample Matrix Spike				Run: CVAA-C202_081001B				10/01/08 16:04
Selenium	0.382	mg/kg-dry	0.0040	113	80	120			
Method: USDA23c									Batch: 19920
Sample ID: MB-19920	Method Blank				Run: ORION 3 STAR PH_080927A				09/27/08 11:44
Lime as CaCO3	0.2	%	0.1						
Sample ID: LCS-19920	Laboratory Control Sample				Run: ORION 3 STAR PH_080927A				09/27/08 11:45
Lime as CaCO3	2.75	%	0.10	102	70	120			
Sample ID: C08090808-013ADUP	Sample Duplicate				Run: ORION 3 STAR PH_080927A				09/27/08 11:58
Lime as CaCO3	0.744	%	0.10				18	20	
Method: USDA27a									Batch: R109023
Sample ID: LCS-20053	Laboratory Control Sample				Run: SARTORIUS_081010A				10/08/08 15:42
Saturation Percentage	49.3	%	0.10	99	80	120			

Qualifiers:
RL - Analyte reporting limit.
ND - Not detected at the reporting limit.

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

Page _____ of _____

PLEASE PRINT- Provide as much information as possible.

Company Name: AATA INT'L	Project Name, PWS, Permit, Etc.	Sample Origin State:	EPA/State Compliance: Yes ☑ No ☐
Report Mail Address: 2240 BLAKE ST. STE 210 DENVER CO 80205	Contact Name: ETHAN BROWN Phone/Fax: 720-974-2550	Email: ethan.brown@aatc.com	Sampler: (Please Print) JAN CIPRA
Invoice Address: SAME	Invoice Contact & Phone:	Purchase Order: 301-805	Quote/Bottle Order: C2932

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ GSA ☐ POTW/WWTP ☐ State: _____ ☐ Other: _____
☐ A2LA ☐ EDD/EDT (Electronic Data) Format: _____ ☐ LEVEL IV ☐ NELAC

RUSH: Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: DIE
Cooler ID(s): C-2226
Receipt Temp: -19 °C
On Ice: (Yes) No
Custody Seal: Y N
Intact: Y N
Signature Match: Y N

Number of Containers / Sample Type: A W S V B O / Air Water Soils/Solids Vegetation Bioassay Other

ANALYSIS REQUESTED: WDEQ Pb-Soil

SEE ATTACHED

Normal Turnaround (TAT)

	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	WDEQ Pb-Soil											
1	MU1PR35-0-8	9/9/08	11:20	S	✓											
2	MU1 PR35-8-18	9/9/08	11:26		✓											
3	MU1 PR35-18-34	9/9/08	11:20		✓											
4	MU1 PR35-34-48	9/9/08	11:20		✓											
5	MU1 PR33-0-12	9/9/08	14:50		✓											
6	MU1 PR33-12-33	9/9/08	14:50		✓											
7	MU1PR50-0-6	9/11/08	13:22													
8	MU1PR50-6-60	9/11/08	13:22													
9																
10																

Comments: Composite

LABORATORY USE ONLY

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
Duncan Eccleston	9/12/08	[signature]	[illegible]	9-20-08 10:20	[signature]
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory:	Date/Time:	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: ✓

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Chain of Custody and Analytical Request Record

ENERGY LABORATORIES

Page ____ of ____

PLEASE PRINT- Provide as much information as possible.

Company Name: AIA INT'L	Project Name, PWS, Permit, Etc.: LCE-LC	Sample Origin State: WY	EPA/State Compliance: Yes ☑ No ☐
Report Mail Address: 2240 BLAKE ST. SITE 20 DENVER, CO 80205	Contact Name: ETHAN BROWN Phone/Fax: 720-974-2550	Email: ethan.brown@aia2.com	Sampler: (Please Print) Jim CIPRA
Invoice Address: SAME	Invoice Contact & Phone: CAROL CALKINS	Purchase Order: 301-805	Quote/Bottle Order: C2932

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

☐ DW ☐ GSA ☐ POTW/WWTP ☐ State: _____ ☐ Other: _____
☐ A2LA ☐ EDD/EDT (Electronic Data) Format: _____ ☐ LEVEL IV ☐ NELAC

ANALYSIS REQUESTED: WDEQ TOXOIL

SEE ATTACHED

Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped by: DHL
Cooler ID(s): C-2775
Receipt Temp: -19 °C
On Ice: Yes No DRY ICE
Custody Seal Intact: Y N
Signature Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O; Air Water Soils/Solids Vegetation Bioassay Other)	WDEQ TOXOIL
1 MU1PR13-0-10	9/11/08	12:46	S	✓
2 MU1PR15-0-24	9/11/08	12:00		
3 MU1PR15-24-60	9/11/08	12:00		
4 MU1PR23-0-10	9/11/08	15:00		
5 MU1PR23-10-60	9/11/08	15:00		
6				
7				
8				
9				
10				

LABORATORY USE ONLY: C08A0812

Custody Record MUST be Signed	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	DUNCAN OLSON	9/12/08				
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
				Received by Laboratory: Ashley Hawkins	Date/Time: 9-19-08 10:20	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: ✓

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.
Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

M Wells

Well M-101

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	51	71	83	100	51.00	76.25	100.00	20.61	14.41	138.09
CO_3	mg/L	1	-1	-1	10	1.00	3.25	10.00	4.50	ND	16.75
HCO_3	mg/L	60	87	101	102	60.00	87.50	102.00	19.57	28.79	146.21
Dissolved Calcium	mg/L	76	86	89	95	76.00	86.50	95.00	7.94	62.69	110.31
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	-0.1	0.1	0.1	0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Total NH_3-N	mg/L	0.15	0.12	0.08	0.06	0.06	0.10	0.15	0.04	ND	0.22
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	9	7	7	7	7.00	7.50	9.00	1.00	4.50	10.50
Dissolved SiO_2	mg/L	11.5	15.5	14	12.9	11.50	13.48	15.50	1.69	8.39	18.56
Dissolved Sodium	mg/L	32	31	33	33	31.00	32.25	33.00	0.96	29.38	35.12
Total $S0_4$	mg/L	**227**	**235**	**232**	**231**	**227.00**	**231.25**	**235.00**	3.30	221.34	241.16
Specific Conductance at 25 °C	µmhos/cm	590	655	617	649	590.00	627.75	655.00	30.19	537.17	718.33
Laboratory pH	SU	**8.55**	**9.05**	**8.83**	**8.83**	**8.55**	**8.82**	**9.05**	0.20	8.20	9.43
TDS Dried at 180 °C	mg/L	405	471	439	491	405.00	451.50	491.00	37.68	338.46	564.54
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.039**	**0.065**	**0.048**	**0.057**	**0.04**	**0.05**	**0.07**	0.01	0.02	0.09
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	0.04	0.01	0.02	0.04	0.02	ND	0.06
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.01	-0.01	-0.02	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**428**	**434**	**325**	**388**	**325.00**	**393.75**	**434.00**	50.18	243.22	544.28
Gross Beta	pCi/L	138	100	91.3	129	91.30	114.58	138.00	22.44	47.25	181.90
Dissolved Ra-226	pCi/L	132	173	154	180	132.00	159.75	180.00	21.52	95.20	224.30
Dissolved Ra-228	pCi/L	5.1	4.7	7.4	8.1	4.70	6.33	8.10	1.68	1.29	11.36
Dissolved Ra-226+Ra-228	pCi/L	**137.1**	**177.7**	**161.4**	**188.1**	**137.10**	**166.08**	**188.10**	22.22	99.40	232.75

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	129	131	131	133	129.00	131.00	133.00	1.63	126.10	135.90
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	157	159	159	162	157.00	159.25	162.00	2.06	153.07	165.43
Dissolved Calcium	mg/L	112	115	110	116	110.00	113.25	116.00	2.75	104.99	121.51
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.1	0.1	0.1	0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	4	4	5	4	4.00	4.25	5.00	0.50	2.75	5.75
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	6	5	4	4	4.00	4.75	6.00	0.96	1.88	7.62
Dissolved SiO_2	mg/L	13.5	17.8	16.3	14.9	13.50	15.63	17.80	1.85	10.09	21.16
Dissolved Sodium	mg/L	31	29	31	29	29.00	30.00	31.00	1.15	26.54	33.46
Total $S0_4$	mg/L	**255**	**253**	**256**	**253**	**253.00**	**254.25**	**256.00**	1.50	249.75	258.75
Specific Conductance at 25 °C	µmhos/cm	753	767	724	726	724.00	742.50	767.00	21.02	679.45	805.55
Laboratory pH	SU	7.85	7.8	7.62	7.72	7.62	7.75	7.85	0.10	7.45	8.05
TDS Dried at 180 °C	mg/L	**520**	**553**	**522**	**548**	**520.00**	**535.75**	**553.00**	17.17	484.23	587.27
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.003	0.003	0.005	0.003	0.003	0.004	0.005	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.02	0.02

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.037**	**0.041**	**0.039**	**0.041**	**0.04**	**0.04**	**0.04**	0.00	0.03	0.05
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.01	-0.01	0.02	0.03	0.01	0.02	0.03	0.01	ND	0.05
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.00	0.01	0.04
Gross Alpha	pCi/L	**65.7**	**71.7**	**55.2**	**60.4**	**55.20**	**63.25**	**71.70**	7.08	42.01	84.49
Gross Beta	pCi/L	23.1	30.1	23.9	22.1	22.10	24.80	30.10	3.61	13.97	35.63
Dissolved Ra-226	pCi/L	2.4	3.1	3.7	2.4	2.40	2.90	3.70	0.63	1.02	4.78
Dissolved Ra-228	pCi/L	2.2	2	3.1	2.3	2.00	2.40	3.10	0.48	0.95	3.85
Dissolved Ra-226+Ra-228	pCi/L	4.6	**5.1**	**6.8**	4.7	4.60	**5.30**	**6.80**	1.02	2.23	8.37

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-103

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	143	142	142	143	142.00	142.50	143.00	0.58	140.77	144.23
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	174	173	174	174	173.00	173.75	174.00	0.50	172.25	175.25
Dissolved Calcium	mg/L	133	133	135	130	130.00	132.75	135.00	2.06	126.57	138.93
Total Chloride	mg/L	7	7	6	6	6.00	6.50	7.00	0.58	4.77	8.23
Dissolved Fluoride	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	6	6	6	6	6.00	6.00	6.00	0.00	6.00	6.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	4	4	4	4	4.00	4.00	4.00	0.00	4.00	4.00
Dissolved SiO_2	mg/L	14.2	19.2	18.3	15.5	14.20	16.80	19.20	2.34	9.77	23.83
Dissolved Sodium	mg/L	29	30	31	31	29.00	30.25	31.00	0.96	27.38	33.12
Total $S0_4$	mg/L	**293**	**296**	**288**	**290**	**288.00**	**291.75**	**296.00**	3.50	281.25	302.25
Specific Conductance at 25 °C	µmhos/cm	852	873	816	822	816.00	840.75	873.00	26.65	760.80	920.70
Laboratory pH	SU	7.77	7.67	7.74	7.58	7.58	7.69	7.77	0.08	7.44	7.94
TDS Dried at 180 °C	mg/L	**609**	**629**	**608**	**627**	**608.00**	**618.25**	**629.00**	11.30	584.36	652.14
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.001	ND	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.03	0.03

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	**0.029**	**0.032**	**0.032**	**0.032**	**0.03**	**0.03**	**0.03**	0.00	0.03	0.04
Dissolved Uranium	mg/L	**0.559**	**0.607**	**0.554**	**0.548**	**0.55**	**0.57**	**0.61**	0.03	0.49	0.65
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	0.04	0.01	0.03	0.01	0.02	0.04	0.02	ND	0.07
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.03	0.03
Gross Alpha	pCi/L	**461**	**518**	**502**	**438**	**438.00**	**479.75**	**518.00**	36.75	369.49	590.01
Gross Beta	pCi/L	130	182	191	204	130.00	176.75	204.00	32.45	79.40	274.10
Dissolved Ra-226	pCi/L	1.4	1.9	2	1.6	1.40	1.73	2.00	0.28	0.90	2.55
Dissolved Ra-228	pCi/L	2.2	1.6	3.7	2.6	1.60	2.53	3.70	0.88	ND	5.18
Dissolved Ra-226+Ra-228	pCi/L	3.6	3.5	**5.7**	4.2	3.50	4.25	**5.70**	1.01	1.21	7.29

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-104

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	136	137	139	140	136.00	138.00	140.00	1.83	132.52	143.48
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	166	168	169	171	166.00	168.50	171.00	2.08	162.26	174.74
Dissolved Calcium	mg/L	134	130	135	124	124.00	130.75	135.00	4.99	115.78	145.72
Total Chloride	mg/L	11	10	9	9	9.00	9.75	11.00	0.96	6.88	12.62
Dissolved Fluoride	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	5	4	4	4	4.00	4.25	5.00	0.50	2.75	5.75
Dissolved SiO_2	mg/L	14.9	19.1	18.2	16	14.90	17.05	19.10	1.94	11.24	22.86
Dissolved Sodium	mg/L	30	28	29	31	28.00	29.50	31.00	1.29	25.63	33.37
Total $S0_4$	mg/L	**277**	**278**	**269**	**278**	**269.00**	**275.50**	**278.00**	4.36	262.42	288.58
Specific Conductance at 25 °C	µmhos/cm	822	842	793	797	793.00	813.50	842.00	22.93	744.72	882.28
Laboratory pH	SU	7.97	7.94	7.85	7.67	7.67	7.86	7.97	0.14	7.45	8.26
TDS Dried at 180 °C	mg/L	**578**	**602**	**544**	**603**	**544.00**	**581.75**	**603.00**	27.69	498.67	664.83
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.001	0.001	0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.01	0.03	0.06

Well M-104

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	**0.033**	**0.037**	**0.037**	**0.039**	**0.03**	**0.04**	**0.04**	0.00	0.03	0.04
Dissolved Uranium	mg/L	**0.571**	**0.612**	**0.585**	**0.609**	**0.57**	**0.59**	**0.61**	0.02	0.54	0.65
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.01	ND	0.03
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	0.04	0.05	0.05	0.05	0.04	0.05	0.05	0.01	0.03	0.06
Gross Alpha	pCi/L	**587**	**633**	**524**	**603**	**524.00**	**586.75**	**633.00**	45.97	448.83	724.67
Gross Beta	pCi/L	220	246	198	173	173.00	209.25	246.00	31.13	115.87	302.63
Dissolved Ra-226	pCi/L	2.5	3.2	1.8	2.7	1.80	2.55	3.20	0.58	0.81	4.29
Dissolved Ra-228	pCi/L	2.8	1.4	2.3	3.4	1.40	2.48	3.40	0.85	ND	5.01
Dissolved Ra-226+Ra-228	pCi/L	**5.3**	4.6	4.1	**6.1**	4.10	**5.03**	**6.10**	0.87	2.42	7.63

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-105

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	131	132	130	131	130.00	131.00	132.00	0.82	128.55	133.45
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	160	161	159	160	159.00	160.00	161.00	0.82	157.55	162.45
Dissolved Calcium	mg/L	114	107	116	105	105.00	110.50	116.00	5.32	94.53	126.47
Total Chloride	mg/L	6	6	5	5	5.00	5.50	6.00	0.58	3.77	7.23
Dissolved Fluoride	mg/L	0.1	0.1	0.1	0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	4	4	5	4	4.00	4.25	5.00	0.50	2.75	5.75
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	3	2	3	3	2.00	2.75	3.00	0.50	1.25	4.25
Dissolved SiO_2	mg/L	13.4	17.7	15.9	14.9	13.40	15.48	17.70	1.80	10.06	20.89
Dissolved Sodium	mg/L	31	30	31	31	30.00	30.75	31.00	0.50	29.25	32.25
Total $S0_4$	mg/L	**239**	**238**	**239**	**236**	**236.00**	**238.00**	**239.00**	1.41	233.76	242.24
Specific Conductance at 25 °C	µmhos/cm	727	738	697	703	697.00	716.25	738.00	19.45	657.90	774.60
Laboratory pH	SU	7.66	7.76	7.61	7.67	7.61	7.68	7.76	0.06	7.49	7.86
TDS Dried at 180 °C	mg/L	**507**	**527**	472	495	472.00	**500.25**	**527.00**	23.00	431.26	569.24
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.02	0.02	0.03	0.02	0.02	0.02	0.03	0.01	0.01	0.04

Well M-105

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.081**	**0.085**	**0.083**	**0.086**	**0.08**	**0.08**	**0.09**	0.00	0.08	0.09
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	0.02	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Total Iron	mg/L	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.01	0.05	0.08
Total Manganese	mg/L	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.01	0.01	0.04
Gross Alpha	pCi/L	**537**	**523**	**377**	**661**	**377.00**	**524.50**	**661.00**	116.26	175.73	873.27
Gross Beta	pCi/L	114	126	117	175	114.00	133.00	175.00	28.46	47.62	218.38
Dissolved Ra-226	pCi/L	228	249	184	267	184.00	232.00	267.00	35.75	124.75	339.25
Dissolved Ra-228	pCi/L	7	5	5.8	7.6	5.00	6.35	7.60	1.17	2.84	9.86
Dissolved Ra-226+Ra-228	pCi/L	**235**	**254**	**189.8**	**274.6**	**189.80**	**238.35**	**274.60**	36.18	129.81	346.89

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-106

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	128	129	127	129	127.00	128.25	129.00	0.96	125.38	131.12
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	156	157	156	157	156.00	156.50	157.00	0.58	154.77	158.23
Dissolved Calcium	mg/L	107	107	111	109	107.00	108.50	111.00	1.91	102.76	114.24
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.1	0.1	0.1	0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	4	4	4	4	4.00	4.00	4.00	0.00	4.00	4.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Dissolved SiO_2	mg/L	13.2	18	15.7	14.2	13.20	15.28	18.00	2.09	9.01	21.54
Dissolved Sodium	mg/L	31	28	31	27	27.00	29.25	31.00	2.06	23.07	35.43
Total $S0_4$	mg/L	**229**	**231**	**235**	**235**	**229.00**	**232.50**	**235.00**	3.00	223.50	241.50
Specific Conductance at 25 °C	µmhos/cm	709	726	693	695	693.00	705.75	726.00	15.26	659.97	751.53
Laboratory pH	SU	7.84	7.9	7.83	7.79	7.79	7.84	7.90	0.05	7.70	7.98
TDS Dried at 180 °C	mg/L	491	**505**	489	**502**	489.00	496.75	**505.00**	7.93	472.95	520.55
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	-0.001	0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.02	0.02

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.050**	**0.059**	**0.055**	**0.050**	**0.05**	**0.05**	**0.06**	0.00	0.04	0.07
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	0.02	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Total Iron	mg/L	**0.99**	**2.71**	**0.88**	**0.68**	**0.68**	**0.85**	**0.99**	0.16	0.38	1.32
Total Manganese	mg/L	0.02	0.04	0.02	0.03	0.02	0.03	0.04	0.01	ND	0.06
Gross Alpha	pCi/L	**71.3**	**94**	**76.1**	**107**	**71.30**	**87.10**	**107.00**	16.47	37.68	136.52
Gross Beta	pCi/L	26.3	26.9	26.6	44.2	26.30	31.00	44.20	8.80	4.59	57.41
Dissolved Ra-226	pCi/L	11	12	13	14	11.00	12.50	14.00	1.29	8.63	16.37
Dissolved Ra-228	pCi/L	4.3	2.8	5.3	6.7	2.80	4.78	6.70	1.64	ND	9.71
Dissolved Ra-226+Ra-228	pCi/L	**15.3**	**14.8**	**18.3**	**20.7**	**14.80**	**17.28**	**20.70**	2.76	9.00	25.55

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Value is an outlier or calculation excludes outlier(s).

Outliers were identified based on the data from all M wells, not on a well-by-well basis. Outlier identification is explained in **Section 4.3**.

Well M-107

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	67	84	90	103	67.00	86.00	103.00	14.94	41.17	130.83
CO_3	mg/L	-1	-1	-1	4	1.00	1.75	4.00	1.50	ND	6.25
HCO_3	mg/L	82	103	110	118	82.00	103.25	118.00	15.44	56.94	149.56
Dissolved Calcium	mg/L	84	89	97	96	84.00	91.50	97.00	6.14	73.09	109.91
Total Chloride	mg/L	6	6	6	6	6.00	6.00	6.00	0.00	6.00	6.00
Dissolved Fluoride	mg/L	0.1	0.1	0.1	0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	2	3	3	3	2.00	2.75	3.00	0.50	1.25	4.25
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	14	10	10	9	9.00	10.75	14.00	2.22	4.10	17.40
Dissolved SiO_2	mg/L	12.6	16.2	15.1	14	12.60	14.48	16.20	1.54	9.86	19.09
Dissolved Sodium	mg/L	33	31	33	35	31.00	33.00	35.00	1.63	28.10	37.90
Total $S0_4$	mg/L	**222**	**229**	**230**	**230**	**222.00**	**227.75**	**230.00**	3.86	216.16	239.34
Specific Conductance at 25 °C	µmhos/cm	620	670	639	658	620.00	646.75	670.00	21.93	580.96	712.54
Laboratory pH	SU	8.37	**8.83**	**8.75**	**8.68**	8.37	**8.66**	**8.83**	0.20	8.05	9.26
TDS Dried at 180 °C	mg/L	424	481	437	475	424.00	454.25	481.00	28.04	370.13	538.37
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-107

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.039**	**0.052**	**0.050**	**0.053**	**0.04**	**0.05**	**0.05**	0.01	0.03	0.07
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**68.5**	**69**	**86.8**	**83.3**	**68.50**	**76.90**	**86.80**	9.52	48.34	105.46
Gross Beta	pCi/L	33.1	33.4	34.4	35.1	33.10	34.00	35.10	0.92	31.24	36.76
Dissolved Ra-226	pCi/L	4.7	6	4.6	6.9	4.60	5.55	6.90	1.10	2.24	8.86
Dissolved Ra-228	pCi/L	2	2.7	4.3	4.1	2.00	3.28	4.30	1.11	ND	6.60
Dissolved Ra-226+Ra-228	pCi/L	**6.7**	**8.7**	**8.9**	**11**	**6.70**	**8.83**	**11.00**	1.76	3.55	14.10

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-108

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	122	122	122	122	122.00	122.00	122.00	0.00	122.00	122.00
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	149	149	149	149	149.00	149.00	149.00	0.00	149.00	149.00
Dissolved Calcium	mg/L	96	94	90	86	86.00	91.50	96.00	4.43	78.20	104.80
Total Chloride	mg/L	6	5	5	5	5.00	5.25	6.00	0.50	3.75	6.75
Dissolved Fluoride	mg/L	0.1	0.1	0.1	0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Magnesium	mg/L	4	4	4	4	4.00	4.00	4.00	0.00	4.00	4.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Dissolved SiO_2	mg/L	13.7	17.6	15.6	14.2	13.70	15.28	17.60	1.75	10.04	20.51
Dissolved Sodium	mg/L	29	27	29	29	27.00	28.50	29.00	1.00	25.50	31.50
Total $S0_4$	mg/L	191	188	188	189	188.00	189.00	191.00	1.41	184.76	193.24
Specific Conductance at 25 °C	µmhos/cm	628	629	598	607	598.00	615.50	629.00	15.46	569.12	661.88
Laboratory pH	SU	7.89	7.88	7.91	7.86	7.86	7.89	7.91	0.02	7.82	7.95
TDS Dried at 180 °C	mg/L	423	439	394	425	394.00	420.25	439.00	18.89	363.57	476.93
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.01	0.00	0.03

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	0.016	0.016	0.015	0.015	0.01	0.02	0.02	0.00	0.01	0.02
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	0.1	0.09	0.09	0.1	0.09	0.10	0.10	0.01	0.08	0.11
Total Manganese	mg/L	-0.02	0.02	-0.02	0.01	0.01	0.02	0.02	0.01	0.00	0.03
Gross Alpha	pCi/L	**49.7**	**41.2**	**41.4**	**45.4**	**41.20**	**44.43**	**49.70**	4.01	32.38	56.47
Gross Beta	pCi/L	18.5	18.9	18.4	20.3	18.40	19.03	20.30	0.88	16.39	21.66
Dissolved Ra-226	pCi/L	9	9.7	8.2	9.7	8.20	9.15	9.70	0.71	7.01	11.29
Dissolved Ra-228	pCi/L	5.8	4.9	5.3	6.7	4.90	5.68	6.70	0.78	3.35	8.00
Dissolved Ra-226+Ra-228	pCi/L	**14.8**	**14.6**	**13.5**	**16.4**	**13.50**	**14.83**	**16.40**	1.20	11.24	18.41

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-109

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	86	86	88	90	86.00	87.50	90.00	1.91	81.76	93.24
CO_3	mg/L	1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	103	105	108	109	103.00	106.25	109.00	2.75	97.99	114.51
Dissolved Calcium	mg/L	60	61	60	58	58.00	59.75	61.00	1.26	55.98	63.52
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	6	5	5	5	5.00	5.25	6.00	0.50	3.75	6.75
Dissolved SiO_2	mg/L	11.3	15.3	11.7	12.6	11.30	12.73	15.30	1.80	7.32	18.13
Dissolved Sodium	mg/L	30	28	31	31	28.00	30.00	31.00	1.41	25.76	34.24
Total $S0_4$	mg/L	144	145	147	147	144.00	145.75	147.00	1.50	141.25	150.25
Specific Conductance at 25 °C	µmhos/cm	483	488	470	487	470.00	482.00	488.00	8.29	457.14	506.86
Laboratory pH	SU	8.3	8.1	8.3	8.12	8.10	8.21	8.30	0.11	7.88	8.53
TDS Dried at 180 °C	mg/L	322	335	292	334	292.00	320.75	335.00	20.06	260.58	380.92
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.002	0.002	0.002	0.001	0.001	0.002	0.002	0.001	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	0.018	0.020	0.020	0.021	0.02	0.02	0.02	0.00	0.02	0.02
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.01	-0.01	-0.02	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**47.1**	**57.2**	**53.6**	**42.6**	**42.60**	**50.13**	**57.20**	6.53	30.54	69.71
Gross Beta	pCi/L	24.3	34.1	24	21	21.00	25.85	34.10	5.70	8.76	42.94
Dissolved Ra-226	pCi/L	12	12	10	12	10.00	11.50	12.00	1.00	8.50	14.50
Dissolved Ra-228	pCi/L	3.6	2.9	3.7	5	2.90	3.80	5.00	0.88	1.17	6.43
Dissolved Ra-226+Ra-228	pCi/L	**15.6**	**14.9**	**13.7**	**17**	**13.70**	**15.30**	**17.00**	1.38	11.16	19.44

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-110

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	110	110	108	109	108.00	109.25	110.00	0.96	106.38	112.12
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	134	134	132	133	132.00	133.25	134.00	0.96	130.38	136.12
Dissolved Calcium	mg/L	72	74	70	72	70.00	72.00	74.00	1.63	67.10	76.90
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Dissolved SiO_2	mg/L	11.9	16.2	14.1	13	11.90	13.80	16.20	1.83	8.30	19.30
Dissolved Sodium	mg/L	30	29	30	29	29.00	29.50	30.00	0.58	27.77	31.23
Total $S0_4$	mg/L	149	148	149	151	148.00	149.25	151.00	1.26	145.48	153.02
Specific Conductance at 25 °C	µmhos/cm	539	534	506	518	506.00	524.25	539.00	15.11	478.93	569.57
Laboratory pH	SU	7.94	7.73	7.95	7.82	7.73	7.86	7.95	0.10	7.55	8.17
TDS Dried at 180 °C	mg/L	356	368	317	371	317.00	353.00	371.00	24.86	278.42	427.58
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	-0.001	0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.168**	**0.166**	**0.142**	**0.136**	**0.14**	**0.15**	**0.17**	0.02	0.10	0.20
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	0.02	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Total Iron	mg/L	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.00	0.06	0.06
Total Manganese	mg/L	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**220**	**228**	**184**	**187**	**184.00**	**204.75**	**228.00**	22.50	137.25	272.25
Gross Beta	pCi/L	71.9	88.1	77.1	69.9	69.90	76.75	88.10	8.15	52.29	101.21
Dissolved Ra-226	pCi/L	41	42	33	41	33.00	39.25	42.00	4.19	26.67	51.83
Dissolved Ra-228	pCi/L	4.8	3	4.7	4.5	3.00	4.25	4.80	0.84	1.72	6.78
Dissolved Ra-226+Ra-228	pCi/L	**45.8**	**45**	**37.7**	**45.5**	**37.70**	**43.50**	**45.80**	3.88	31.86	55.14

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-111

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	115	113	113	113	113.00	113.50	115.00	1.00	110.50	116.50
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	141	137	137	138	137.00	138.25	141.00	1.89	132.57	143.93
Dissolved Calcium	mg/L	75	74	70	71	70.00	72.50	75.00	2.38	65.36	79.64
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.1	0.10	0.18	0.20	0.05	0.02	0.33
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Dissolved SiO_2	mg/L	12.7	16.9	15.6	13.9	12.70	14.78	16.90	1.85	9.22	20.33
Dissolved Sodium	mg/L	29	28	29	31	28.00	29.25	31.00	1.26	25.48	33.02
Total $S0_4$	mg/L	152	150	155	153	150.00	152.50	155.00	2.08	146.26	158.74
Specific Conductance at 25 °C	µmhos/cm	557	547	517	530	517.00	537.75	557.00	17.76	484.46	591.04
Laboratory pH	SU	7.96	7.9	8.01	7.98	7.90	7.96	8.01	0.05	7.82	8.10
TDS Dried at 180 °C	mg/L	371	377	320	378	320.00	361.50	378.00	27.84	277.98	445.02
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	-0.001	0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-111

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	0.027	0.027	0.024	0.025	0.02	0.03	0.03	0.00	0.02	0.03
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.03	-0.01	-0.01	-0.01	0.01	0.02	0.03	0.01	ND	0.05
Total Iron	mg/L	0.06	0.04	0.04	0.04	0.04	0.05	0.06	0.01	0.02	0.07
Total Manganese	mg/L	-0.02	-0.01	0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**48.4**	**49.9**	**44.9**	**34.9**	**34.90**	**44.53**	**49.90**	6.75	24.27	64.78
Gross Beta	pCi/L	19.9	21	19.9	19.1	19.10	19.98	21.00	0.78	17.63	22.32
Dissolved Ra-226	pCi/L	4.5	4.7	4.5	5.1	4.50	4.70	5.10	0.28	3.85	5.55
Dissolved Ra-228	pCi/L	5.3	4.8	4.8	5.1	4.80	5.00	5.30	0.24	4.27	5.73
Dissolved Ra-226+Ra-228	pCi/L	**9.8**	**9.5**	**9.3**	**10.2**	**9.30**	**9.70**	**10.20**	0.39	8.53	10.87

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-112

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	113	113	113	115	113.00	113.50	115.00	1.00	110.50	116.50
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	138	138	138	140	138.00	138.50	140.00	1.00	135.50	141.50
Dissolved Calcium	mg/L	73	75	74	75	73.00	74.25	75.00	0.96	71.38	77.12
Total Chloride	mg/L	6	5	5	5	5.00	5.25	6.00	0.50	3.75	6.75
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.1	0.10	0.18	0.20	0.05	0.02	0.33
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Dissolved SiO_2	mg/L	12.2	16.3	13.7	13.9	12.20	14.03	16.30	1.70	8.94	19.11
Dissolved Sodium	mg/L	29	27	28	27	27.00	27.75	29.00	0.96	24.88	30.62
Total $S0_4$	mg/L	147	149	150	150	147.00	149.00	150.00	1.41	144.76	153.24
Specific Conductance at 25 °C	µmhos/cm	545	544	515	530	515.00	533.50	545.00	14.11	491.18	575.82
Laboratory pH	SU	8.1	8.05	8.02	7.94	7.94	8.03	8.10	0.07	7.83	8.23
TDS Dried at 180 °C	mg/L	356	376	322	373	322.00	356.75	376.00	24.78	282.40	431.10
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-112

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	0.024	0.025	0.023	0.023	0.02	0.02	0.02	0.00	0.02	0.03
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	0.05	0.04	0.04	0.05	0.04	0.05	0.05	0.01	0.03	0.06
Total Manganese	mg/L	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**41.4**	**50**	**32.4**	**34.7**	**32.40**	**39.63**	**50.00**	7.90	15.92	63.33
Gross Beta	pCi/L	20	27.4	17.1	13.9	13.90	19.60	27.40	5.77	2.30	36.90
Dissolved Ra-226	pCi/L	4.3	5	4.1	4.5	4.10	4.48	5.00	0.39	3.32	5.63
Dissolved Ra-228	pCi/L	5.8	5.1	5.8	5.7	5.10	5.60	5.80	0.34	4.59	6.61
Dissolved Ra-226+Ra-228	pCi/L	**10.1**	**10.1**	**9.9**	**10.2**	**9.90**	**10.08**	**10.20**	0.13	9.70	10.45

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-113

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	95	97	98	99	95.00	97.25	99.00	1.71	92.13	102.37
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	116	119	119	121	116.00	118.75	121.00	2.06	112.57	124.93
Dissolved Calcium	mg/L	53	56	56	56	53.00	55.25	56.00	1.50	50.75	59.75
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	5	4	4	4	4.00	4.25	5.00	0.50	2.75	5.75
Dissolved SiO_2	mg/L	11.2	15.5	14.3	12.9	11.20	13.48	15.50	1.85	7.92	19.03
Dissolved Sodium	mg/L	33	31	34	31	31.00	32.25	34.00	1.50	27.75	36.75
Total $S0_4$	mg/L	125	125	124	126	124.00	125.00	126.00	0.82	122.55	127.45
Specific Conductance at 25 °C	µmhos/cm	469	467	448	466	448.00	462.50	469.00	9.75	433.26	491.74
Laboratory pH	SU	7.98	8.1	8.07	8.03	7.98	8.05	8.10	0.05	7.89	8.20
TDS Dried at 180 °C	mg/L	306	321	300	315	300.00	310.50	321.00	9.33	282.52	338.48
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-113

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	0.021	0.018	0.017	0.015	0.02	0.02	0.02	0.00	0.01	0.02
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.01	-0.01	0.02	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Total Iron	mg/L	0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**54.8**	**76**	**42**	**36.3**	**36.30**	**52.28**	**76.00**	17.61	ND	105.10
Gross Beta	pCi/L	21.4	52.8	17.1	16.4	16.40	26.93	52.80	17.39	ND	79.10
Dissolved Ra-226	pCi/L	14	11	7	9.6	7.00	10.40	14.00	2.92	1.65	19.15
Dissolved Ra-228	pCi/L	4.6	3.8	2.6	4.3	2.60	3.83	4.60	0.88	1.18	6.47
Dissolved Ra-226+Ra-228	pCi/L	**18.6**	**14.8**	**9.6**	**13.9**	**9.60**	**14.23**	**18.60**	3.70	3.14	25.31

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-114

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	79	99	105	106	79.00	97.25	106.00	12.55	59.59	134.91
CO_3	mg/L	8	10	9	5	5.00	8.00	10.00	2.16	1.52	14.48
HCO_3	mg/L	80	100	110	119	80.00	102.25	119.00	16.74	52.03	152.47
Dissolved Calcium	mg/L	51	59	60	57	51.00	56.75	60.00	4.03	44.66	68.84
Total Chloride	mg/L	7	7	6	6	6.00	6.50	7.00	0.58	4.77	8.23
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Total NH_3-N	mg/L	0.17	0.12	0.08	0.06	0.06	0.11	0.17	0.05	ND	0.25
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	16	11	8	7	7.00	10.50	16.00	4.04	ND	22.62
Dissolved SiO_2	mg/L	10.4	14.1	12.8	12	10.40	12.33	14.10	1.55	7.68	16.97
Dissolved Sodium	mg/L	39	36	38	37	36.00	37.50	39.00	1.29	33.63	41.37
Total $S0_4$	mg/L	138	141	142	142	138.00	140.75	142.00	1.89	135.07	146.43
Specific Conductance at 25 °C	µmhos/cm	510	517	495	514	495.00	509.00	517.00	9.76	479.71	538.29
Laboratory pH	SU	**9.14**	**9.15**	**8.88**	**8.77**	**8.77**	**8.99**	**9.15**	0.19	8.41	9.56
TDS Dried at 180 °C	mg/L	334	354	325	340	325.00	338.25	354.00	12.18	301.72	374.78
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.001	0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-114

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.053**	**0.058**	**0.055**	**0.052**	**0.05**	**0.05**	**0.06**	0.00	0.05	0.06
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**594**	**370**	**466**	**471**	**370.00**	**475.25**	**594.00**	91.80	199.84	750.66
Gross Beta	pCi/L	234	162	171	187	162.00	188.50	234.00	32.05	92.36	284.64
Dissolved Ra-226	pCi/L	187	199	180	218	180.00	196.00	218.00	16.63	146.10	245.90
Dissolved Ra-228	pCi/L	4.5	4.2	7.6	5.3	4.20	5.40	7.60	1.54	0.78	10.02
Dissolved Ra-226+Ra-228	pCi/L	**191.5**	**203.2**	**187.6**	**223.3**	**187.60**	**201.40**	**223.30**	16.03	153.30	249.50

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-115

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	87	86	90	102	86.00	91.25	102.00	7.37	69.15	113.35
CO_3	mg/L	7	4	5	8	4.00	6.00	8.00	1.83	0.52	11.48
HCO_3	mg/L	93	97	101	108	93.00	99.75	108.00	6.40	80.56	118.94
Dissolved Calcium	mg/L	54	54	55	60	54.00	55.75	60.00	2.87	47.13	64.37
Total Chloride	mg/L	5	6	5	5	5.00	5.25	6.00	0.50	3.75	6.75
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	5	4	4	4	4.00	4.25	5.00	0.50	2.75	5.75
Dissolved SiO_2	mg/L	11.2	14.9	12.7	12.9	11.20	12.93	14.90	1.52	8.37	17.48
Dissolved Sodium	mg/L	35	35	34	38	34.00	35.50	38.00	1.73	30.30	40.70
Total $S0_4$	mg/L	131	136	132	132	131.00	132.75	136.00	2.22	126.10	139.40
Specific Conductance at 25 °C	µmhos/cm	483	484	457	485	457.00	477.25	485.00	13.52	436.68	517.82
Laboratory pH	SU	**8.92**	**9.09**	**8.96**	**8.88**	**8.88**	**8.96**	**9.09**	0.09	8.69	9.24
TDS Dried at 180 °C	mg/L	326	319	298	322	298.00	316.25	326.00	12.50	278.75	353.75
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.006	0.006	0.005	0.004	0.004	0.005	0.006	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-115

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.001	-0.001	0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.109**	**0.116**	**0.111**	**0.118**	**0.11**	**0.11**	**0.12**	0.00	0.10	0.13
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.01	-0.01	-0.02	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**140**	**145**	**121**	**138**	**121.00**	**136.00**	**145.00**	10.42	104.73	167.27
Gross Beta	pCi/L	57.5	58.5	46.3	46.4	46.30	52.18	58.50	6.74	31.96	72.39
Dissolved Ra-226	pCi/L	3.3	3	2.1	3.6	2.10	3.00	3.60	0.65	1.06	4.94
Dissolved Ra-228	pCi/L	1.6	1.4	1.1	1.7	1.10	1.45	1.70	0.26	0.66	2.24
Dissolved Ra-226+Ra-228	pCi/L	4.9	4.4	3.2	**5.3**	3.20	4.45	**5.30**	0.91	1.72	7.18

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-116

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	100	102	104	108	100.00	103.50	108.00	3.42	93.25	113.75
CO_3	mg/L	7	6	5	5	5.00	5.75	7.00	0.96	2.88	8.62
HCO_3	mg/L	107	111	116	122	107.00	114.00	122.00	6.48	94.56	133.44
Dissolved Calcium	mg/L	53	58	52	54	52.00	54.25	58.00	2.63	46.36	62.14
Total Chloride	mg/L	6	5	5	5	5.00	5.25	6.00	0.50	3.75	6.75
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	1	2	2	2	1.00	1.75	2.00	0.50	0.25	3.25
Total NH_3-N	mg/L	0.1	0.06	-0.05	-0.05	0.05	0.07	0.10	0.02	ND	0.14
Dissolved NO_3+NO_2-N	mg/L	0.16	0.16	0.15	0.16	0.15	0.16	0.16	0.01	0.14	0.17
Dissolved Potassium	mg/L	4	4	3	3	3.00	3.50	4.00	0.58	1.77	5.23
Dissolved SiO_2	mg/L	11.7	14.8	12.6	12.8	11.70	12.98	14.80	1.31	9.05	16.90
Dissolved Sodium	mg/L	31	30	31	33	30.00	31.25	33.00	1.26	27.48	35.02
Total $S0_4$	mg/L	113	116	120	119	113.00	117.00	120.00	3.16	107.51	126.49
Specific Conductance at 25 °C	µmhos/cm	463	461	445	468	445.00	459.25	468.00	9.95	429.41	489.09
Laboratory pH	SU	**8.75**	**8.85**	**8.7**	**8.54**	**8.54**	**8.71**	**8.85**	0.13	8.32	9.10
TDS Dried at 180 °C	mg/L	293	310	312	304	293.00	304.75	312.00	8.54	279.13	330.37
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.006	0.005	0.003	0.003	0.003	0.004	0.006	0.002	ND	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-116

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.008	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Uranium	mg/L	**0.169**	**0.197**	**0.180**	**0.187**	**0.17**	**0.18**	**0.20**	0.01	0.15	0.22
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**190**	**202**	**226**	**174**	**174.00**	**198.00**	**226.00**	21.91	132.27	263.73
Gross Beta	pCi/L	63.4	71.5	59.4	48.4	48.40	60.68	71.50	9.61	31.85	89.50
Dissolved Ra-226	pCi/L	0.81	0.71	0.62	1.1	0.62	0.81	1.10	0.21	0.19	1.43
Dissolved Ra-228	pCi/L	0.8	0.8	2	1.8	0.80	1.35	2.00	0.64	ND	3.27
Dissolved Ra-226+Ra-228	pCi/L	1.61	1.51	2.62	2.9	1.51	2.16	2.90	0.70	0.05	4.27

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-117

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	104	107	108	108	104.00	106.75	108.00	1.89	101.07	112.43
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	127	131	132	132	127.00	130.50	132.00	2.38	123.36	137.64
Dissolved Calcium	mg/L	57	59	54	57	54.00	56.75	59.00	2.06	50.57	62.93
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	0.1	0.1	0.09	0.1	0.09	0.10	0.10	0.01	0.08	0.11
Dissolved Potassium	mg/L	4	3	3	3	3.00	3.25	4.00	0.50	1.75	4.75
Dissolved SiO_2	mg/L	16.2	16	13.3	13.2	13.20	14.68	16.20	1.65	9.73	19.62
Dissolved Sodium	mg/L	32	32	33	33	32.00	32.50	33.00	0.58	30.77	34.23
Total $S0_4$	mg/L	120	125	120	121	120.00	121.50	125.00	2.38	114.36	128.64
Specific Conductance at 25 °C	µmhos/cm	472	476	455	473	455.00	469.00	476.00	9.49	440.54	497.46
Laboratory pH	SU	7.83	8.16	8.12	8.08	7.83	8.05	8.16	0.15	7.60	8.49
TDS Dried at 180 °C	mg/L	300	316	307	309	300.00	308.00	316.00	6.58	288.25	327.75
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.001	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	**0.06**	**0.06**	**0.06**	**0.07**	**0.06**	**0.06**	**0.07**	0.01	0.05	0.08
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00

Well M-117

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.011	0.011	0.011	0.012	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Uranium	mg/L	**0.178**	**0.191**	**0.175**	**0.178**	**0.18**	**0.18**	**0.19**	0.01	0.16	0.20
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.03	-0.01	-0.01	0.05	0.01	0.03	0.05	0.02	ND	0.08
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	0.05	**0.06**	**0.06**	**0.06**	0.05	**0.06**	**0.06**	0.01	0.04	0.07
Gross Alpha	pCi/L	**166**	**198**	**207**	**192**	**166.00**	**190.75**	**207.00**	17.61	137.91	243.59
Gross Beta	pCi/L	49.2	66.6	59.1	60	49.20	58.73	66.60	7.18	37.20	80.25
Dissolved Ra-226	pCi/L	1	1.4	0.81	1.4	0.81	1.15	1.40	0.30	0.26	2.04
Dissolved Ra-228	pCi/L	1.4	0.8	1.1	1.4	0.80	1.18	1.40	0.29	0.31	2.04
Dissolved Ra-226+Ra-228	pCi/L	2.4	2.2	1.91	2.8	1.91	2.33	2.80	0.37	1.21	3.45

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-118

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	103	105	104	105	103.00	104.25	105.00	0.96	101.38	107.12
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	126	128	127	128	126.00	127.25	128.00	0.96	124.38	130.12
Dissolved Calcium	mg/L	58	62	61	62	58.00	60.75	62.00	1.89	55.07	66.43
Total Chloride	mg/L	5	4	4	5	4.00	4.50	5.00	0.58	2.77	6.23
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	3	3	2	2	2.00	2.50	3.00	0.58	0.77	4.23
Dissolved SiO_2	mg/L	12.2	15.7	14.2	13	12.20	13.78	15.70	1.52	9.20	18.35
Dissolved Sodium	mg/L	39	36	38	37	36.00	37.50	39.00	1.29	33.63	41.37
Total $S0_4$	mg/L	147	147	147	150	147.00	147.75	150.00	1.50	143.25	152.25
Specific Conductance at 25 °C	µmhos/cm	518	529	502	520	502.00	517.25	529.00	11.24	483.54	550.96
Laboratory pH	SU	7.88	7.95	8.03	7.79	7.79	7.91	8.03	0.10	7.61	8.22
TDS Dried at 180 °C	mg/L	340	347	350	353	340.00	347.50	353.00	5.57	330.80	364.20
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.002	0.002	0.001	0.001	0.001	0.002	0.002	0.001	ND	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.003	0.002	0.002	0.002	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.181**	**0.201**	**0.185**	**0.192**	**0.18**	**0.19**	**0.20**	0.01	0.16	0.22
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	0.05	0.01	0.02	0.05	0.02	ND	0.08
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.01	-0.01	-0.02	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**272**	**245**	**301**	**257**	**245.00**	**268.75**	**301.00**	24.17	196.24	341.26
Gross Beta	pCi/L	87.6	88.7	82.7	81.2	81.20	85.05	88.70	3.66	74.07	96.03
Dissolved Ra-226	pCi/L	28	28	19	30	19.00	26.25	30.00	4.92	11.48	41.02
Dissolved Ra-228	pCi/L	2.2	1.9	1.4	3	1.40	2.13	3.00	0.67	0.11	4.14
Dissolved Ra-226+Ra-228	pCi/L	**30.2**	**29.9**	**20.4**	**33**	**20.40**	**28.38**	**33.00**	5.50	11.88	44.87

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	114	114	114	113	113.00	113.75	114.00	0.50	112.25	115.25
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	139	139	139	138	138.00	138.75	139.00	0.50	137.25	140.25
Dissolved Calcium	mg/L	60	57	58	59	57.00	58.50	60.00	1.29	54.63	62.37
Total Chloride	mg/L	5	5	4	5	4.00	4.75	5.00	0.50	3.25	6.25
Dissolved Fluoride	mg/L	0.2	0.1	0.1	0.1	0.10	0.13	0.20	0.05	ND	0.28
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	0.13	0.09	0.06	-0.05	0.05	0.08	0.13	0.04	ND	0.19
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Dissolved SiO_2	mg/L	15.8	15.7	14.4	17.1	14.40	15.75	17.10	1.10	12.44	19.06
Dissolved Sodium	mg/L	37	35	35	35	35.00	35.50	37.00	1.00	32.50	38.50
Total $S0_4$	mg/L	126	127	126	128	126.00	126.75	128.00	0.96	123.88	129.62
Specific Conductance at 25 °C	µmhos/cm	498	504	472	490	472.00	491.00	504.00	13.90	449.29	532.71
Laboratory pH	SU	8.05	8.22	8.06	7.89	7.89	8.06	8.22	0.13	7.65	8.46
TDS Dried at 180 °C	mg/L	329	325	331	338	325.00	330.75	338.00	5.44	314.43	347.07
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.004	0.005	0.004	0.004	0.004	0.004	0.005	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.03	0.04	0.04	0.05	0.03	0.04	0.05	0.01	0.02	0.06

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.001	0.001	0.001	0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.075**	**0.086**	**0.077**	**0.084**	**0.08**	**0.08**	**0.09**	0.01	0.07	0.10
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.05	-0.01	0.05	-0.01	0.01	0.03	0.05	0.02	ND	0.10
Total Iron	mg/L	-0.03	-0.07	-0.03	-0.07	0.03	0.05	0.07	0.02	ND	0.12
Total Manganese	mg/L	0.03	0.04	0.04	0.05	0.03	0.04	0.05	0.01	0.02	0.06
Gross Alpha	pCi/L	**95.1**	**106**	**122**	**84.3**	**84.30**	**101.85**	**122.00**	16.09	53.58	150.12
Gross Beta	pCi/L	34.5	30.1	27.6	25.3	25.30	29.38	34.50	3.94	17.56	41.19
Dissolved Ra-226	pCi/L	1.3	1.4	1.1	1.4	1.10	1.30	1.40	0.14	0.88	1.72
Dissolved Ra-228	pCi/L	1.2	2.1	1.7	1.2	1.20	1.55	2.10	0.44	0.24	2.86
Dissolved Ra-226+Ra-228	pCi/L	2.5	3.5	2.8	2.6	2.50	2.85	3.50	0.45	1.50	4.20

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	11	14	17	45	11.00	21.75	45.00	15.69	ND	68.83
CO_3	mg/L	6	7	3	2	2.00	4.50	7.00	2.38	ND	11.64
HCO_3	mg/L	2	4	16	50	2.00	18.00	50.00	22.21	ND	84.63
Dissolved Calcium	mg/L	55	29	27	39	27.00	37.50	55.00	12.79	ND	75.88
Total Chloride	mg/L	92	15	21	22	15.00	19.33	22.00	3.79	7.97	30.69
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	1	2	2	2	1.00	1.75	2.00	0.50	0.25	3.25
Total NH_3-N	mg/L	0.13	-0.05	-0.05	-0.05	0.05	0.07	0.13	0.04	ND	0.19
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	13	8	6	5	5.00	8.00	13.00	3.56	ND	18.68
Dissolved SiO_2	mg/L	11.6	15.4	14	13.5	11.60	13.63	15.40	1.57	8.91	18.34
Dissolved Sodium	mg/L	43	32	34	36	32.00	36.25	43.00	4.79	21.89	50.61
Total $S0_4$	mg/L	113	52	103	108	52.00	94.00	113.00	28.30	9.11	178.89
Specific Conductance at 25 °C	µmhos/cm	604	396	345	416	345.00	440.25	604.00	113.19	100.69	779.81
Laboratory pH	SU	**9.45**	**9.86**	**9.47**	**9.04**	**9.04**	**9.46**	**9.86**	0.33	8.45	10.46
TDS Dried at 180 °C	mg/L	357	248	224	274	224.00	275.75	357.00	57.89	102.09	449.41
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.004	0.004	0.005	0.007	0.004	0.005	0.007	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-120A

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.002	-0.001	0.001	-0.001	0.00	0.00	0.00	0.00	ND	0.00
Dissolved Uranium	mg/L	**0.049**	**0.045**	**0.044**	**0.048**	**0.04**	**0.05**	**0.05**	0.00	0.04	0.05
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	-0.02	-0.01	-0.02	-0.01	0.01	0.02	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**71.9**	**47.3**	**45.4**	**52.5**	**45.40**	**54.28**	**71.90**	12.13	17.89	90.66
Gross Beta	pCi/L	27.2	22.9	18.5	20.6	18.50	22.30	27.20	3.73	11.12	33.48
Dissolved Ra-226	pCi/L	1.1	0.58	0.43	0.91	0.43	0.76	1.10	0.31	ND	1.67
Dissolved Ra-228	pCi/L	0.4	0.5	1.2	0.9	0.40	0.75	1.20	0.37	ND	1.86
Dissolved Ra-226+Ra-228	pCi/L	1.5	1.08	1.63	1.81	1.08	1.51	1.81	0.31	0.57	2.44

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Value is an outlier or calculation excludes outlier(s).

Outliers were identified based on the data from all M wells, not on a well-by-well basis. Outlier identification is explained in **Section 4.3**.

Well M-121

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	115	127	116	115	115.00	118.25	127.00	5.85	100.69	135.81
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	140	155	141	141	140.00	144.25	155.00	7.18	122.70	165.80
Dissolved Calcium	mg/L	60	62	58	62	58.00	60.50	62.00	1.91	54.76	66.24
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.2	0.1	0.1	0.1	0.10	0.13	0.20	0.05	ND	0.28
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	4	3	3	3	3.00	3.25	4.00	0.50	1.75	4.75
Dissolved SiO_2	mg/L	13.7	17.2	15.9	15.2	13.70	15.50	17.20	1.46	11.13	19.87
Dissolved Sodium	mg/L	35	33	33	38	33.00	34.75	38.00	2.36	27.66	41.84
Total $S0_4$	mg/L	129	128	129	129	128.00	128.75	129.00	0.50	127.25	130.25
Specific Conductance at 25 °C	µmhos/cm	501	507	481	498	481.00	496.75	507.00	11.15	463.31	530.19
Laboratory pH	SU	7.9	8.11	7.88	8.05	7.88	7.99	8.11	0.11	7.65	8.32
TDS Dried at 180 °C	mg/L	326	335	325	346	325.00	333.00	346.00	9.76	303.71	362.29
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.004	0.004	0.003	0.003	0.003	0.004	0.004	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.03	0.03	0.03	0.04	0.03	0.03	0.04	0.01	0.02	0.05

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Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/20/2009	5/4/2009	5/18/2009	6/1/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.041**	**0.043**	**0.039**	**0.042**	**0.04**	**0.04**	**0.04**	0.00	0.04	0.05
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Total Manganese	mg/L	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.01	0.02	0.05
Gross Alpha	pCi/L	**54.6**	**58.7**	**71.5**	**53.5**	**53.50**	**59.58**	**71.50**	8.26	34.80	84.35
Gross Beta	pCi/L	13.3	20.8	18.3	17	13.30	17.35	20.80	3.13	7.97	26.73
Dissolved Ra-226	pCi/L	0.86	0.96	1	1.4	0.86	1.06	1.40	0.24	0.34	1.77
Dissolved Ra-228	pCi/L	1.2	1.2	1	1.6	1.00	1.25	1.60	0.25	0.50	2.00
Dissolved Ra-226+Ra-228	pCi/L	2.06	2.16	2	3	2.00	2.31	3.00	0.47	0.90	3.71

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-122

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	115	114	114	114	114.00	114.25	115.00	0.50	112.75	115.75
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	140	139	139	140	139.00	139.50	140.00	0.58	137.77	141.23
Dissolved Calcium	mg/L	63	56	59	59	56.00	59.25	63.00	2.87	50.63	67.87
Total Chloride	mg/L	5	4	4	5	4.00	4.50	5.00	0.58	2.77	6.23
Dissolved Fluoride	mg/L	0.2	0.1	0.1	0.1	0.10	0.13	0.20	0.05	ND	0.28
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Dissolved SiO_2	mg/L	16.8	15.6	15	17.7	15.00	16.28	17.70	1.21	12.65	19.90
Dissolved Sodium	mg/L	37	34	35	35	34.00	35.25	37.00	1.26	31.48	39.02
Total $S0_4$	mg/L	125	124	124	127	124.00	125.00	127.00	1.41	120.76	129.24
Specific Conductance at 25 °C	µmhos/cm	498	503	469	487	469.00	489.25	503.00	15.06	444.06	534.44
Laboratory pH	SU	8.02	8.22	8.08	7.95	7.95	8.07	8.22	0.11	7.72	8.41
TDS Dried at 180 °C	mg/L	336	335	334	345	334.00	337.50	345.00	5.07	322.30	352.70
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.02	0.02

Well M-122

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.045**	**0.048**	**0.047**	**0.050**	**0.05**	**0.05**	**0.05**	0.00	0.04	0.05
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.06	-0.01	0.05	0.01	0.01	0.03	0.06	0.03	ND	0.11
Total Iron	mg/L	-0.03	-0.07	-0.03	-0.07	0.03	0.05	0.07	0.02	ND	0.12
Total Manganese	mg/L	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.02	0.02
Gross Alpha	pCi/L	**68.1**	**79.8**	**78.6**	**69.8**	**68.10**	**74.08**	**79.80**	5.98	56.14	92.01
Gross Beta	pCi/L	32.5	29.8	24.7	25.7	24.70	28.18	32.50	3.63	17.28	39.07
Dissolved Ra-226	pCi/L	7.8	8.6	8	9.7	7.80	8.53	9.70	0.85	5.96	11.09
Dissolved Ra-228	pCi/L	1.2	2.5	1.5	1.1	1.10	1.58	2.50	0.64	ND	3.49
Dissolved Ra-226+Ra-228	pCi/L	**9**	**11.1**	**9.5**	**10.8**	**9.00**	**10.10**	**11.10**	1.01	7.07	13.13

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-123

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	109	114	117	116	109.00	114.00	117.00	3.56	103.32	124.68
CO_3	mg/L	4	1	-1	-1	1.00	1.75	4.00	1.50	ND	6.25
HCO_3	mg/L	124	137	142	142	124.00	136.25	142.00	8.50	110.75	161.75
Dissolved Calcium	mg/L	54	54	61	61	54.00	57.50	61.00	4.04	45.38	69.62
Total Chloride	mg/L	6	5	5	5	5.00	5.25	6.00	0.50	3.75	6.75
Dissolved Fluoride	mg/L	0.2	0.1	0.2	0.1	0.10	0.15	0.20	0.06	ND	0.32
Dissolved Magnesium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Total NH_3-N	mg/L	0.06	-0.05	-0.05	-0.05	0.05	0.05	0.06	0.01	0.04	0.07
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	5	4	4	3	3.00	4.00	5.00	0.82	1.55	6.45
Dissolved SiO_2	mg/L	16.4	16.2	15.1	18.3	15.10	16.50	18.30	1.33	12.51	20.49
Dissolved Sodium	mg/L	33	31	33	32	31.00	32.25	33.00	0.96	29.38	35.12
Total $S0_4$	mg/L	117	119	120	119	117.00	118.75	120.00	1.26	114.98	122.52
Specific Conductance at 25 °C	µmhos/cm	472	484	456	477	456.00	472.25	484.00	11.90	436.55	507.95
Laboratory pH	SU	**8.52**	8.39	8.21	8.02	8.02	8.29	**8.52**	0.22	7.63	8.94
TDS Dried at 180 °C	mg/L	313	324	326	330	313.00	323.25	330.00	7.27	301.43	345.07
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.005	0.004	0.004	0.003	0.003	0.004	0.005	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	0.01	0.02	0.02	0.01	0.02	0.02	0.01	ND	0.03

Well M-123

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	0.012	0.014	0.014	0.015	0.01	0.01	0.01	0.00	0.01	0.02
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.06	-0.01	0.05	0.01	0.01	0.03	0.06	0.03	ND	0.11
Total Iron	mg/L	-0.03	-0.07	-0.03	-0.07	0.03	0.05	0.07	0.02	ND	0.12
Total Manganese	mg/L	-0.02	0.01	0.02	0.05	0.01	0.03	0.05	0.02	ND	0.08
Gross Alpha	pCi/L	**29.2**	**31.9**	**36.2**	**33**	**29.20**	**32.58**	**36.20**	2.90	23.89	41.26
Gross Beta	pCi/L	14.4	14.4	11.6	10.4	10.40	12.70	14.40	2.02	6.63	18.77
Dissolved Ra-226	pCi/L	2.3	2.9	2.8	3.1	2.30	2.78	3.10	0.34	1.75	3.80
Dissolved Ra-228	pCi/L	1.4	4.4	1.9	1	1.00	2.18	4.40	1.53	ND	6.76
Dissolved Ra-226+Ra-228	pCi/L	3.7	**7.3**	4.7	4.1	3.70	4.95	**7.30**	1.62	0.09	9.81

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-124

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	112	112	112	114	112.00	112.50	114.00	1.00	109.50	115.50
CO_3	mg/L	4	-1	-1	-1	1.00	1.75	4.00	1.50	ND	6.25
HCO_3	mg/L	128	137	137	139	128.00	135.25	139.00	4.92	120.48	150.02
Dissolved Calcium	mg/L	58	54	60	57	54.00	57.25	60.00	2.50	49.75	64.75
Total Chloride	mg/L	5	4	4	5	4.00	4.50	5.00	0.58	2.77	6.23
Dissolved Fluoride	mg/L	0.2	0.1	0.1	0.1	0.10	0.13	0.20	0.05	ND	0.28
Dissolved Magnesium	mg/L	2	2	2	2	2.00	2.00	2.00	0.00	2.00	2.00
Total NH_3-N	mg/L	0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	5	4	4	3	3.00	4.00	5.00	0.82	1.55	6.45
Dissolved SiO_2	mg/L	15.5	16.2	14.8	17.4	14.80	15.98	17.40	1.11	12.65	19.30
Dissolved Sodium	mg/L	31	30	32	30	30.00	30.75	32.00	0.96	27.88	33.62
Total $S0_4$	mg/L	108	107	107	110	107.00	108.00	110.00	1.41	103.76	112.24
Specific Conductance at 25 °C	µmhos/cm	454	462	434	454	434.00	451.00	462.00	11.94	415.17	486.83
Laboratory pH	SU	8.49	8.22	8.4	8.23	8.22	8.34	8.49	0.13	7.94	8.73
TDS Dried at 180 °C	mg/L	300	314	311	312	300.00	309.25	314.00	6.29	290.38	328.12
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.003	0.002	0.002	0.002	0.002	0.002	0.003	0.001	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-124

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.050**	**0.056**	**0.052**	**0.054**	**0.05**	**0.05**	**0.06**	0.00	0.05	0.06
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.08	0.01	-0.01	0.03	0.01	0.03	0.08	0.03	ND	0.13
Total Iron	mg/L	-0.03	-0.07	-0.03	-0.07	0.03	0.05	0.07	0.02	ND	0.12
Total Manganese	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**62.6**	**60.6**	**61.7**	**71**	**60.60**	**63.98**	**71.00**	4.75	49.71	78.24
Gross Beta	pCi/L	27.4	18.2	25.1	23.7	18.20	23.60	27.40	3.91	11.87	35.33
Dissolved Ra-226	pCi/L	1.5	1.6	1.3	1.4	1.30	1.45	1.60	0.13	1.06	1.84
Dissolved Ra-228	pCi/L	0.7	4.1	1.4	1.8	0.70	2.00	4.10	1.47	ND	6.42
Dissolved Ra-226+Ra-228	pCi/L	2.2	**5.7**	2.7	3.2	2.20	3.45	**5.70**	1.55	ND	8.11

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-125

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	110	117	111	111	110.00	112.25	117.00	3.20	102.65	121.85
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	134	142	136	136	134.00	137.00	142.00	3.46	126.61	147.39
Dissolved Calcium	mg/L	73	66	75	70	66.00	71.00	75.00	3.92	59.25	82.75
Total Chloride	mg/L	5	5	5	6	5.00	5.25	6.00	0.50	3.75	6.75
Dissolved Fluoride	mg/L	0.2	0.1	0.2	0.2	0.10	0.18	0.20	0.05	0.02	0.33
Dissolved Magnesium	mg/L	4	4	3	4	3.00	3.75	4.00	0.50	2.25	5.25
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	0.06	0.05	0.05	0.06	0.05	0.06	0.06	0.01	0.04	0.07
Dissolved Potassium	mg/L	5	4	4	3	3.00	4.00	5.00	0.82	1.55	6.45
Dissolved SiO_2	mg/L	15.8	15.3	14.3	16.7	14.30	15.53	16.70	1.00	12.52	18.53
Dissolved Sodium	mg/L	33	30	33	30	30.00	31.50	33.00	1.73	26.30	36.70
Total $S0_4$	mg/L	151	153	149	153	149.00	151.50	153.00	1.91	145.76	157.24
Specific Conductance at 25 °C	µmhos/cm	541	545	514	528	514.00	532.00	545.00	14.02	489.93	574.07
Laboratory pH	SU	7.99	8.17	8.01	7.91	7.91	8.02	8.17	0.11	7.69	8.35
TDS Dried at 180 °C	mg/L	362	379	362	360	360.00	365.75	379.00	8.88	339.10	392.40
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.001	0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.01	-0.01	0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01

Well M-125

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.011	0.013	0.012	0.013	0.01	0.01	0.01	0.00	0.01	0.02
Dissolved Uranium	mg/L	**0.274**	**0.296**	**0.297**	**0.297**	**0.27**	**0.29**	**0.30**	0.01	0.26	0.33
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.06	0.02	-0.01	-0.01	0.01	0.03	0.06	0.02	ND	0.10
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.07	0.03	0.04	0.07	0.02	ND	0.10
Total Manganese	mg/L	-0.01	-0.01	-0.01	-0.01	0.01	0.01	0.01	0.00	0.01	0.01
Gross Alpha	pCi/L	**255**	**368**	**400**	**308**	**255.00**	**332.75**	**400.00**	64.35	139.70	525.80
Gross Beta	pCi/L	113	97.9	90.1	83	83.00	96.00	113.00	12.86	57.41	134.59
Dissolved Ra-226	pCi/L	2.5	2.1	2.3	2	2.00	2.23	2.50	0.22	1.56	2.89
Dissolved Ra-228	pCi/L	1.1	3.6	2.3	2.1	1.10	2.28	3.60	1.03	ND	5.36
Dissolved Ra-226+Ra-228	pCi/L	3.6	**5.7**	4.6	4.1	3.60	4.50	**5.70**	0.90	1.81	7.19

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-126

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	84	82	86	90	82.00	85.50	90.00	3.42	75.25	95.75
CO_3	mg/L	4	-1	-1	-1	1.00	1.75	4.00	1.50	ND	6.25
HCO_3	mg/L	94	99	105	109	94.00	101.75	109.00	6.60	81.94	121.56
Dissolved Calcium	mg/L	56	54	58	63	54.00	57.75	63.00	3.86	46.16	69.34
Total Chloride	mg/L	7	6	6	6	6.00	6.25	7.00	0.50	4.75	7.75
Dissolved Fluoride	mg/L	0.2	0.2	0.2	0.2	0.20	0.20	0.20	0.00	0.20	0.20
Dissolved Magnesium	mg/L	3	3	2	3	2.00	2.75	3.00	0.50	1.25	4.25
Total NH_3-N	mg/L	0.32	0.28	0.23	0.25	0.23	0.27	0.32	0.04	0.15	0.39
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	5	4	4	4	4.00	4.25	5.00	0.50	2.75	5.75
Dissolved SiO_2	mg/L	14	14.7	13.6	15.6	13.60	14.48	15.60	0.88	11.84	17.11
Dissolved Sodium	mg/L	34	33	33	34	33.00	33.50	34.00	0.58	31.77	35.23
Total $S0_4$	mg/L	148	146	145	149	145.00	147.00	149.00	1.83	141.52	152.48
Specific Conductance at 25 °C	µmhos/cm	494	495	471	491	471.00	487.75	495.00	11.30	453.86	521.64
Laboratory pH	SU	**8.61**	8.42	8.41	8.3	8.30	8.44	**8.61**	0.13	8.05	8.82
TDS Dried at 180 °C	mg/L	324	344	329	328	324.00	331.25	344.00	8.77	304.94	357.56
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.006	0.006	0.006	0.007	0.006	0.006	0.007	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	**0.06**	**0.08**	**0.1**	**0.12**	**0.06**	**0.09**	**0.12**	0.03	0.01	0.17

Well M-126

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.005	0.005	0.004	0.006	0.00	0.01	0.01	0.00	0.00	0.01
Dissolved Uranium	mg/L	**0.307**	**0.344**	**0.343**	**0.354**	**0.31**	**0.34**	**0.35**	0.02	0.28	0.40
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.05	-0.01	-0.01	-0.01	0.01	0.02	0.05	0.02	ND	0.08
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.07	0.03	0.04	0.07	0.02	ND	0.10
Total Manganese	mg/L	**0.07**	**0.09**	**0.11**	**0.12**	**0.07**	**0.10**	**0.12**	0.02	0.03	0.16
Gross Alpha	pCi/L	**358**	**417**	**454**	**426**	**358.00**	**413.75**	**454.00**	40.37	292.65	534.85
Gross Beta	pCi/L	136	108	108	99.5	99.50	112.88	136.00	15.93	65.09	160.66
Dissolved Ra-226	pCi/L	1.9	1.5	1.9	2	1.50	1.83	2.00	0.22	1.16	2.49
Dissolved Ra-228	pCi/L	1.2	1.1	0.9	1.3	0.90	1.13	1.30	0.17	0.61	1.64
Dissolved Ra-226+Ra-228	pCi/L	3.1	2.6	2.8	3.3	2.60	2.95	3.30	0.31	2.02	3.88

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-127

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	109	108	109	110	108.00	109.00	110.00	0.82	106.55	111.45
CO_3	mg/L	-1	-1	-1	-1	1.00	1.00	1.00	0.00	1.00	1.00
HCO_3	mg/L	132	130	132	135	130.00	132.25	135.00	2.06	126.07	138.43
Dissolved Calcium	mg/L	58	58	65	64	58.00	61.25	65.00	3.77	49.93	72.57
Total Chloride	mg/L	5	5	5	5	5.00	5.00	5.00	0.00	5.00	5.00
Dissolved Fluoride	mg/L	0.2	0.1	0.1	0.1	0.10	0.13	0.20	0.05	ND	0.28
Dissolved Magnesium	mg/L	3	3	4	4	3.00	3.50	4.00	0.58	1.77	5.23
Total NH_3-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	15	12	10	8	8.00	11.25	15.00	2.99	2.29	20.21
Dissolved SiO_2	mg/L	15.4	15.8	13.5	17	13.50	15.43	17.00	1.45	11.07	19.78
Dissolved Sodium	mg/L	32	30	32	30	30.00	31.00	32.00	1.15	27.54	34.46
Total $S0_4$	mg/L	139	140	138	140	138.00	139.25	140.00	0.96	136.38	142.12
Specific Conductance at 25 °C	µmhos/cm	520	520	493	510	493.00	510.75	520.00	12.74	472.54	548.96
Laboratory pH	SU	8.39	8.35	8.17	8.04	8.04	8.24	8.39	0.16	7.75	8.73
TDS Dried at 180 °C	mg/L	332	356	345	340	332.00	343.25	356.00	10.05	313.11	373.39
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.001	0.00	0.00
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.01	ND	0.03

Well M-127

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	0.005	0.006	0.005	0.006	0.01	0.01	0.01	0.00	0.00	0.01
Dissolved Uranium	mg/L	**0.124**	**0.140**	**0.135**	**0.139**	**0.12**	**0.13**	**0.14**	0.01	0.11	0.16
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.05	0.01	-0.01	-0.01	0.01	0.02	0.05	0.02	ND	0.08
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.07	0.03	0.04	0.07	0.02	ND	0.10
Total Manganese	mg/L	0.01	-0.01	0.01	0.02	0.01	0.01	0.02	0.01	ND	0.03
Gross Alpha	pCi/L	**116**	**136**	**167**	**186**	**116.00**	**151.25**	**186.00**	31.26	57.48	245.02
Gross Beta	pCi/L	58.8	50.6	62.9	47.6	47.60	54.98	62.90	7.09	33.69	76.26
Dissolved Ra-226	pCi/L	0.75	1.2	1.2	1.5	0.75	1.16	1.50	0.31	0.23	2.09
Dissolved Ra-228	pCi/L	1.5	2	2	1.7	1.50	1.80	2.00	0.24	1.07	2.53
Dissolved Ra-226+Ra-228	pCi/L	2.25	3.2	3.2	3.2	2.25	2.96	3.20	0.47	1.54	4.39

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.

Well M-128

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Total Alkalinity as $CaCO_3$	mg/L	109	113	112	113	109.00	111.75	113.00	1.89	106.07	117.43
CO_3	mg/L	1	2	-1	-1	1.00	1.25	2.00	0.50	ND	2.75
HCO_3	mg/L	130	134	136	138	130.00	134.50	138.00	3.42	124.25	144.75
Dissolved Calcium	mg/L	74	71	75	74	71.00	73.50	75.00	1.73	68.30	78.70
Total Chloride	mg/L	6	6	6	6	6.00	6.00	6.00	0.00	6.00	6.00
Dissolved Fluoride	mg/L	0.2	0.1	0.2	0.2	0.10	0.18	0.20	0.05	0.02	0.33
Dissolved Magnesium	mg/L	3	3	3	3	3.00	3.00	3.00	0.00	3.00	3.00
Total NH_3-N	mg/L	0.07	-0.05	-0.05	-0.05	0.05	0.06	0.07	0.01	0.03	0.09
Dissolved NO_3+NO_2-N	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Potassium	mg/L	8	5	5	4	4.00	5.50	8.00	1.73	0.30	10.70
Dissolved SiO_2	mg/L	15.5	15.7	14.6	16.3	14.60	15.53	16.30	0.70	13.41	17.64
Dissolved Sodium	mg/L	33	31	32	30	30.00	31.50	33.00	1.29	27.63	35.37
Total $S0_4$	mg/L	155	154	154	155	154.00	154.50	155.00	0.58	152.77	156.23
Specific Conductance at 25 °C	µmhos/cm	546	552	519	538	519.00	538.75	552.00	14.36	495.67	581.83
Laboratory pH	SU	**8.51**	8.43	8.24	7.84	7.84	8.26	**8.51**	0.30	7.36	9.15
TDS Dried at 180 °C	mg/L	349	377	363	368	349.00	364.25	377.00	11.70	329.15	399.35
Dissolved Aluminum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Arsenic	mg/L	0.007	0.006	0.005	0.005	0.005	0.006	0.007	0.001	0.00	0.01
Dissolved Barium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Boron	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Cadmium	mg/L	-0.005	-0.005	-0.005	-0.005	0.005	0.005	0.005	0.000	0.01	0.01
Dissolved Chromium	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Copper	mg/L	-0.02	-0.01	-0.01	-0.01	0.01	0.01	0.02	0.01	ND	0.03
Dissolved Iron	mg/L	-0.03	-0.03	-0.03	-0.03	0.03	0.03	0.03	0.00	0.03	0.03
Dissolved Lead	mg/L	-0.001	-0.001	-0.001	-0.001	0.001	0.001	0.001	0.000	0.00	0.00
Dissolved Manganese	mg/L	0.03	0.03	0.03	0.04	0.03	0.03	0.04	0.01	0.02	0.05

Well M-128

Parameters	Units	Parameter Values [1]				Values with Outliers (if any) Removed					
		4/21/2009	5/5/2009	5/19/2009	6/2/2009	Minimum	Mean	Maximum	Standard Deviation	Mean ± 3 Standard Deviations [2]	
Dissolved Mercury	mg/L	-0.001	-0.001	-0.001	-0.001	**0.00100**	**0.00100**	**0.00100**	0.00000	0.00	0.00
Dissolved Molybdenum	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Nickel	mg/L	-0.05	-0.05	-0.05	-0.05	0.05	0.05	0.05	0.00	0.05	0.05
Dissolved Selenium	mg/L	-0.001	-0.001	-0.001	-0.001	0.00	0.00	0.00	0.00	0.00	0.00
Dissolved Uranium	mg/L	**0.077**	**0.084**	**0.084**	**0.085**	**0.08**	**0.08**	**0.09**	0.00	0.07	0.09
Dissolved Vanadium	mg/L	-0.1	-0.1	-0.1	-0.1	0.10	0.10	0.10	0.00	0.10	0.10
Dissolved Zinc	mg/L	0.09	0.01	-0.01	-0.01	0.01	0.03	0.09	0.04	ND	0.15
Total Iron	mg/L	-0.03	-0.03	-0.03	-0.07	0.03	0.04	0.07	0.02	ND	0.10
Total Manganese	mg/L	0.03	0.03	0.03	0.04	0.03	0.03	0.04	0.01	0.02	0.05
Gross Alpha	pCi/L	**81.9**	**94**	**114**	**93.3**	**81.90**	**95.80**	**114.00**	13.34	55.78	135.82
Gross Beta	pCi/L	34.1	31.1	33.6	30.9	30.90	32.43	34.10	1.66	27.44	37.41
Dissolved Ra-226	pCi/L	1.1	0.91	1.1	1.2	0.91	1.08	1.20	0.12	0.71	1.44
Dissolved Ra-228	pCi/L	1.6	1.9	1.7	1.6	1.60	1.70	1.90	0.14	1.28	2.12
Dissolved Ra-226+Ra-228	pCi/L	2.7	2.81	2.8	2.8	2.70	2.78	2.81	0.05	2.62	2.93

[1] Less than values are denoted by a minus sign in front of the detection limit.

[2] When the mean minus three standard deviations is a negative value, ND is written for "not detected".

Parameter value exceeds WDEQ-WQD Domestic Class-of-Use (Class I).

Parameter value exceeds WDEQ-WQD Agriculture Class-of-Use (Class II).

Parameter value exceeds WDEQ-WQD Livestock Class-of-Use (Class III).

Parameter value exceeds EPA MCL criterion.