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August 19, 2015

**Sent VIA OVERNIGHT DELIVERY**

Mr. Rusty Lundberg  
Division of Radiation Control  
Utah Department of Environmental Quality  
195 North 1950 West  
P.O. Box 144850  
Salt Lake City, UT 84114-4820

**Re: Transmittal of 2nd Quarter 2015 Groundwater Monitoring Report  
Groundwater Quality Discharge Permit UGW370004 White Mesa Uranium Mill**

Dear Mr. Lundberg:

Enclosed are two copies of the White Mesa Uranium Mill Groundwater Monitoring Report for the 2nd Quarter of 2015 as required by the Groundwater Quality Discharge Permit UGW370004, as well as two CDs each containing a word searchable electronic copy of the report.

If you should have any questions regarding this report please contact me.

Yours very truly,

A handwritten signature in blue ink that reads 'Kathy Weinel'.

**ENERGY FUELS RESOURCES (USA) INC.**  
Kathy Weinel  
Quality Assurance Manager

cc: David C. Frydenlund  
Harold R. Roberts  
David E. Turk  
Dan Hillsten  
Scott Bakken  
Logan Shumway

**White Mesa Uranium Mill**  
**Groundwater Monitoring Report**

**State of Utah**  
**Groundwater Discharge Permit No. UGW370004**

**2nd Quarter**  
**(April through June)**  
**2015**

Prepared by:



**Energy Fuels Resources (USA) Inc.**  
225 Union Boulevard, Suite 600  
Lakewood, CO 80228

**August 19, 2015**

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	GROUNDWATER MONITORING .....	1
2.1	Samples and Measurements Taken During the Quarter.....	1
2.1.1	Groundwater Compliance Monitoring.....	1
2.1.2	Accelerated Groundwater Monitoring.....	2
2.1.3	Background Well Monitoring.....	2
2.1.4	Parameters Analyzed .....	3
2.1.5	Groundwater Head Monitoring.....	3
2.2	Field Data .....	3
2.3	Laboratory Results - Quarterly Sampling .....	4
2.3.1	Copy of Laboratory Results.....	4
2.3.2	Regulatory Framework and Groundwater Background.....	4
2.4	Laboratory Results – Accelerated Monitoring.....	5
2.4.1	Copy of Laboratory Results.....	5
2.4.2	Regulatory Framework and Groundwater Background.....	5
2.4.3	Compliance Status .....	5
2.5	Depth to Groundwater and Water Table Contour Map.....	6
3.0	QUALITY ASSURANCE AND DATA VALIDATION .....	7
3.1	Field QC Samples.....	7
3.2	Adherence to Mill Sampling SOPs .....	8
3.3	Analyte Completeness Review.....	8
3.4	Data Validation .....	8
3.4.1	Field Data QA/QC Evaluation.....	8
3.4.2	Holding Time Evaluation.....	10
3.4.3	Receipt Temperature Evaluation.....	10
3.4.4	Analytical Method Checklist .....	11
3.4.5	Reporting Limit Evaluation .....	11
3.4.6	Trip Blank Evaluation.....	11
3.4.7	QA/QC Evaluation for Routine Sample Duplicates .....	11
3.4.8	Radiologics Counting Error and Duplicate Evaluation .....	12
3.4.9	Other Laboratory QA/QC .....	12
4.0	CORRECTIVE ACTION REPORT.....	15
4.1	Assessment of Corrective Actions from Previous Period .....	15
5.0	TIME CONCENTRATION PLOTS.....	15
6.0	ELECTRONIC DATA FILES AND FORMAT .....	15
7.0	SIGNATURE AND CERTIFICATION .....	16

## LIST OF TABLES

Table 1	Summary of Well Sampling for the Period
Table 2	Exceedances and Acceleration Requirements
Table 3	GWCL Exceedances 2010 to Present

## INDEX OF TABS

Tab A Site Plan and Perched Well Locations White Mesa Site

Tab B Field Data Worksheets Quarterly Sampling

Tab C Field Data Worksheets Accelerated Monitoring

Tab D Quarterly Depth to Water

Tab E Laboratory Analytical Reports – Quarterly Sampling

Tab F Laboratory Analytical Reports – Accelerated Monitoring

Tab G Quality Assurance and Data Validation Tables

G-1A/B	Field Data QA/QC Evaluation
G-2A/B	Holding Time Evaluation
G-3A/B	Laboratory Receipt Temperature Check
G-4A/B	Analytical Method Check
G-5A/B	Reporting Limit Evaluation
G-6A/B	Trip Blank Evaluation
G-7A/B	QA/QC Evaluation for Sample Duplicates
G-8A/B	Radiologics Counting Error
G-9A/B	Laboratory Matrix QC

Tab H Kriged Current Quarterly Groundwater Contour Map and Depth Data

Tab I Groundwater Time Concentration Plots

Tab J CSV Transmittal Letter

## ACRONYM LIST

AWAL	American West Analytical Laboratory
COC	Chain-of-Custody
DRC	Utah Division of Radiation Control
EFRI	Energy Fuels Resources (USA) Inc.
GEL	GEL Laboratories, Inc.
GWCLs	Groundwater Compliance Limits
GWDP	Groundwater Discharge Permit
LCS	Laboratory Control Spike
MS	Matrix Spike
MSD	Matrix Spike Duplicate
QA	Quality Assurance
QAP	Quality Assurance Plan
QC	Quality Control
RPD	Relative Percent Difference
SOPs	Standard Operating Procedures
USEPA	United States Environmental Protection Agency

## **1.0 INTRODUCTION**

This is the Routine Groundwater Monitoring Report, as required under Part I.F.1 of State of Utah Groundwater Discharge Permit No. UGW370004 (the “GWDP”) for the second quarter of 2015 for Energy Fuels Resources (USA) Inc.’s. (“EFRI’s”) White Mesa Uranium Mill (the “Mill”). As required under Parts I.E.1, I.E.2, I.E.3, and I.E.5 of the GWDP, this Report includes recorded field measurements and laboratory analyses for well monitoring conducted during the quarter.

## **2.0 GROUNDWATER MONITORING**

### **2.1 Samples and Measurements Taken During the Quarter**

A map showing the location of groundwater monitoring wells, piezometers, existing wells, chloroform contaminant investigation wells and nitrate contaminant investigation wells is attached under Tab A. Groundwater samples and measurements were taken during this reporting period, as discussed in the remainder of this section.

#### **2.1.1 Groundwater Compliance Monitoring**

Groundwater samples and field measurements collected during the quarter included quarterly, semi-annual and accelerated monitoring. Accelerated monitoring is discussed below in Section 2.1.2. In this report, samples classified as being collected quarterly include those wells which are routinely sampled every quarter and the wells sampled semi-annually. Wells which are sampled routinely every quarter and semi-annually were analyzed for the parameters listed in Table 2 and Part I.E.1.d) 2)ii of the GWDP dated August 24, 2012.

Table 1 of this report provides an overview of wells sampled during the current period, along with the required sampling frequency applicable to each well during the current monitoring period, the date samples were collected from each well, and the date(s) analytical data were received from the contract laboratory(ies). Table 1 also indicates which sample numbers are associated with the required duplicates.

During this quarter, four resampling events were conducted. The resampling events and wells associated with each resampling effort are described below.

- Monitoring wells MW-02, MW-03, MW-03A, MW-05, MW-12, MW-17, MW-22, MW-27, and MW-28 were resampled for Volatile Organic Compounds (“VOCs”) due to the loss of the initial trip blank sample associated with the original sampling effort. All of the VOC samples associated with the lost trip blank were cancelled and discarded.
- Monitoring well MW-03 was resampled for metals analysis only on May 20, 2015 to verify the analytical results reported for the sample collected on April 23, 2015.

- The accelerated June monthly samples for monitoring wells MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, and MW-65 were resampled because the samples were not delivered overnight to the laboratory as requested and scheduled. The delay was the result of weather issues experienced by the overnight carrier. As a result of the delayed delivery the samples arrived at American West Analytical Laboratories (“AWAL”) above the temperature requirements. The AWAL fractions were discarded and resampled. The gross alpha fraction from the original sampling of MW-35 was retained as there is no temperature requirement for gross alpha analysis. No other wells are sampled for gross alpha monthly.
- The quarterly samples for monitoring wells MW-20, MW-24, and MW-37 were resampled because the samples were not delivered overnight to the laboratory as requested and scheduled. The delay was the result of weather issues experienced by the overnight carrier. As a result of the delayed delivery the samples arrived at AWAL above the temperature requirements. The AWAL fractions were discarded and resampled. The gross alpha fraction from the original sampling of these wells was retained as there is no temperature requirement for gross alpha analysis.

### **2.1.2 Accelerated Groundwater Monitoring**

Accelerated monthly sampling was also performed (quarterly wells accelerated to monthly), and results reported, for the wells indicated in Table 1. The accelerated sampling frequency, analyte list and well list were determined based on the previous analytical results as shown in Table 2.

Table 1 provides an overview of the wells sampled for the accelerated monthly program along with the routine sampling frequency as well as the accelerated sampling frequency, the date samples were collected from each well, the associated duplicates and the date(s) which analytical data were received from the contract laboratory(ies).

### **2.1.3 Background Well Monitoring**

Monitor well MW-35 was installed in the third quarter 2010 and has been sampled quarterly (and monthly for certain constituents) since the fourth quarter 2010. Monitor wells MW-36 and MW-37 were installed in the second quarter 2011 and have been sampled quarterly since second quarter 2011. The GWDP requires the completion of a background report for each of these wells after the completion of 8 quarters of sampling. The background reports and resultant Groundwater Compliance Limits (“GWCLs”) are to be calculated based on 8 statistically valid data points.

The statistical methods used for the background assessments and calculation of the GWCLs are based on the United States Environmental Protection Agency’s (“USEPA”) *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified*

*Guidance* (USEPA, 2009), as approved by the Utah Division of Radiation Control (“DRC”).

Eight statistically valid data points for MW-35, MW-36, and MW-37 were available after the fourth quarter 2013 sampling event. EFRI submitted the background report for MW-35, MW-36, and MW-37 on May 1, 2014. DRC approved the Background Report by letter dated July 15, 2014. The calculated GWCLs will become effective upon their publication in the next revision of the GWDP.

#### **2.1.4 Parameters Analyzed**

Routine quarterly groundwater monitoring samples were analyzed for the parameters listed in Table 2 and Part I.E.1.d) 2) ii of the GWDP dated August 24, 2012. The accelerated monitoring samples were analyzed for a more limited and specific parameter list as shown in Table 2.

#### **2.1.5 Groundwater Head Monitoring**

Depth to groundwater was measured in the following wells and/or piezometers, pursuant to Part I.E.3 of the GWDP dated August 24, 2012:

- The quarterly groundwater compliance monitoring wells (including, MW-34).
- Existing monitoring well MW-4 and the temporary chloroform investigation wells.
- Piezometers – P-1, P-2, P-3, P-4 and P-5.
- Nitrate monitoring wells.
- The DR piezometers which were installed during the Southwest Hydrogeologic Investigation.
- In addition to the above, depth to water measurements are routinely observed in conjunction with sampling events for wells sampled during quarterly and accelerated efforts, regardless of the sampling purpose.

Water levels used for groundwater contour mapping were measured and recorded within 5 calendar days of each other as indicated by the measurement dates in the summary sheet under Tab D.

#### **2.2 Field Data**

Attached under Tab B are copies of field data sheets recorded in association with the quarterly effort for the groundwater compliance monitoring wells referred to in paragraph 2.1.1, above. Sampling dates are listed in Table 1.

Attached under Tab C are copies of field data sheets recorded in association with the accelerated monthly monitoring sampling efforts, referred to in paragraph 2.1.2, above. Sampling dates are listed in Table 1.

## **2.3 Laboratory Results - Quarterly Sampling**

### **2.3.1 Copy of Laboratory Results**

Analytical results are provided by two contract analytical laboratories: GEL and AWAL.

Table 1 lists the dates when analytical results were reported to the Quality Assurance (“QA”) Manager for each well.

Results from analysis of samples collected under the GWDP (i.e., regular quarterly and accelerated semi-annual samples) are provided in Tab E. Also included under Tab E are the results of analyses for duplicate samples as identified in Table 1.

### **2.3.2 Regulatory Framework and Groundwater Background**

Under the GWDP dated August 24, 2012, background groundwater quality has been determined on a well-by-well basis, as defined by the mean plus second standard deviation concentration or the equivalent. GWCLs that reflect this background groundwater quality have been set for compliance monitoring wells except MW-35, MW-36, and MW-37. As discussed in Section 2.1.3 above, EFRI submitted the background report for MW-35, MW-36, and MW-37 on May 1, 2014. DRC approved the Background Report by letter dated July 15, 2014. The calculated GWCLs will become effective upon their publication in the next revision of the GWDP.

Exceedances of the GWCLs during the preceding quarter determined the accelerated monthly monitoring program implemented during this quarter as noted in Tables 1 and 2.

Exceedances of the GWCLs for this quarter are listed in Table 2 for sampling required under the revised GWDP dated August 24, 2012. Accelerated requirements resulting from this quarter are highlighted for ease of reference. Table 3 documents the accelerated sampling program that started in the second quarter 2010 and shows the results and frequency of the accelerated sampling conducted since that time.

It should be noted, however, that, because the GWCLs have been set at the mean plus second standard deviation, or the equivalent, un-impacted groundwater would normally be expected to exceed the GWCLs approximately 2.5% of the time. Therefore, exceedances are expected in approximately 2.5% of sample results, and do not necessarily represent impacts to groundwater from Mill operations. In fact, more frequent sampling of a given analyte will increase the number of exceedances due to statistical variation and not due to Mill activity. Additionally, given the slow velocity of groundwater movement, accelerated sampling monthly may result in resampling of the

same water and may lead to repeat exceedances for accelerated constituents not due to Mill activities, but due to repeat sampling of the same water.

## **2.4 Laboratory Results – Accelerated Monitoring**

### **2.4.1 Copy of Laboratory Results**

Results from analysis of samples collected for the monthly accelerated sampling (i.e. quarterly accelerated to monthly) are provided in Tab F. Also included under Tab F are the results of analyses for duplicate samples for this sampling effort, as identified in Table 1.

### **2.4.2 Regulatory Framework and Groundwater Background**

As a result of the issuance of a revised GWDP on January 20, 2010, which sets revised GWCLs, requirements to perform accelerated monitoring under Part I.G.1 of the previous GWDP ceased effective on January 20, 2010, and the effect of the issuance of the revised GWDP was to create a “clean slate” for all constituents in all wells going forward.

This means that accelerated monitoring during this quarter was required under the revised GWDP for only those constituents that exceeded the GWCLs since January 20, 2010.

### **2.4.3 Compliance Status**

Analytes that have exceeded the GWCLs set forth in the GWDP are summarized in Table 2. The analytes which exceeded their respective GWCLs during the quarter will be sampled on an accelerated schedule as noted in Table 2. A review of the accelerated data collected during the quarter indicates that two analytes have exceeded their respective GWCL for two consecutive sampling periods as reported in EFRI’s Exceedance Notice for the quarter. Table 3 summarizes the results of the accelerated sampling program from first quarter 2010 through the current quarter.

Part I.G.4 c) of the GWDP states, with respect to exceedances of GWCLs, “The Permittee shall prepare and submit within 30 calendar days to the Executive Secretary a plan and a time schedule for assessment of the sources, extent and potential dispersion of the contamination, and an evaluation of potential remedial action to restore and maintain groundwater quality to insure that Permit limits will not be exceeded at the compliance monitoring point and that DMT or BAT will be reestablished.” EFRI submits an Exceedance Notice quarterly and the summary in the Exceedance Notice includes, for each exceedance, a brief discussion of whether such a plan and schedule is required at this time in light of other actions currently being undertaken by EFRI. The determination of whether a Plan and Time Schedule is required is based on discussions with DRC Staff in teleconferences on April 27 and May 2, 2011 and the constituents covered by previously submitted Source Assessment Reports.

### **2.4.3.1 MW-28**

On May 28, 2014 EFRI notified DRC personnel of damage to Monitoring Well 28 (“MW-28”). The damage was noted by EFRI Environmental Staff during routine, quarterly sampling activities. Upon arrival at MW-28, EFRI Environmental Staff noticed that there was evidence that a vehicle had struck the outer protective metal casing of MW-28 and it was slightly bent and leaning to the west. Inspection of the inner, 10-inch PVC protective casing and the 4-inch well casing also showed signs of damage. The concrete seal between the 10-inch casing and the 4-inch casing was cracked and EFRI Environmental Staff noted that the 2 inner PVC casings were likely cracked and/or broken. Upon discovery of the damage on May 28, 2014, EFRI Environmental Staff contacted the EFRI Quality Assurance Manager (“QAM”) via text message. The EFRI QAM notified DRC personnel in person, while at the DRC offices in Salt Lake City. On June 2, and June 5, 2014 Environmental Staff and Bayles Exploration repaired the well and removed the debris in the bottom of the well resulting from the damage. The Environmental Staff then overpumped the well and removed over 4 casing volumes to redevelop the well. The well was sampled and the routine, second quarter 2014 sample was collected on June 18, 2014.

Three new analytes were reported above the GWCL in the second quarter 2014 data. The analytes are uranium, vanadium and cadmium as shown in Tables 2 and 3. The third quarter 2014 data showed a decrease in all three constituents with vanadium and cadmium below the GWCLs. The one-time exceedances followed by a sharp decline indicated that the exceedances were temporary and are the result of the damage to the well and the subsequent activities undertaken to repair the casing and clean out the debris and soils.

Per the GWDP, EFRI began accelerated monitoring in third quarter 2014 at MW-28 for those three constituents. The first quarter 2015 MW-28 results for vanadium, cadmium and uranium are below the GWCLs. The second quarter 2015 MW-28 uranium result was slightly above the GWCL and within the analytical variability of the method. Per discussions with DRC, EFRI will continue to collect uranium data quarterly in MW-28 and assess the results and determine a path forward after the fourth quarter 2015.

## **2.5 Depth to Groundwater and Water Table Contour Map**

As stated above, a listing of groundwater level readings for the quarter (shown as depth to groundwater in feet) is included under Tab D. The data from Tab D has been interpreted (kriged) and plotted in a water table contour map, provided under Tab H.

The water table contour map provides the location and identity of the wells and piezometers for which depth to groundwater is recorded. The groundwater elevation at each well and piezometer, measured in feet above mean sea level, and isocontour lines to delineate groundwater flow directions observed during the quarter’s sampling event are displayed on the map.

### **3.0 QUALITY ASSURANCE AND DATA VALIDATION**

The Mill QA Manager performed a QA/QC review to confirm compliance of the monitoring program with requirements of the Groundwater Monitoring Quality Assurance Plan (“QAP”). As required in the QAP, data QA includes preparation and analysis of QC samples in the field, review of field procedures, an analyte completeness review, and quality control review of laboratory data methods and data. Identification of field QC samples collected and analyzed is provided in Section 3.1. Discussion of adherence to Mill sampling Standard Operating Procedures (“SOPs”) is provided in Section 3.2. Analytical completeness review results are provided in Section 3.3. The steps and tests applied to check laboratory data QA/QC are discussed in Sections 3.4.4 through 3.4.9 below.

The Analytical Laboratories have provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference certification and reporting protocol. The analytical laboratory QA/QC Summary Reports, including copies of the Mill’s COC and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tabs E and F. Review of the laboratory QA/QC information is provided under Tab G.

#### **3.1 Field QC Samples**

The following field QC samples were generated by Mill personnel and submitted to the analytical laboratory in order to assess the quality of data resulting from the field sampling program:

Two duplicate samples were collected during quarterly sampling as indicated in Table 1. The QC samples were sent blind to the analytical laboratory and analyzed for the same parameters as permit-required samples.

One duplicate sample was collected during each month of accelerated sampling as indicated in Table 1. The QC samples were sent blind to the analytical laboratory and analyzed for the same accelerated parameters as the parent sample.

Four trip blanks were provided by AWAL and returned and analyzed with the quarterly monitoring samples.

One trip blank for each of the monthly accelerated sample events was provided by AWAL and returned and analyzed with the accelerated monthly monitoring samples.

Rinsate samples were not collected during the quarter because equipment used during sample collection was dedicated and did not require decontamination. All wells except MW-20 and MW-37 have dedicated pumps for purging and sampling and as such no rinsate blanks samples are required. MW-20 and MW-37 were sampled with a disposable bailer and no rinsate blank was required. A deionized field blank was not

required because equipment decontamination was not required and deionized water was not used during this sampling event.

### **3.2 Adherence to Mill Sampling SOPs**

On a review of adherence by Mill personnel to the existing sampling SOPs, the QA Manager observed that QA/QC requirements established in the QAP were met and that the SOP's were implemented as required.

### **3.3 Analyte Completeness Review**

Analyses required by the GWDP for the quarterly and semi-annual wells were performed. The accelerated sampling for the semi-annual wells (semi-annual to quarterly) was completed as required by the GWDP and as shown in Tables 2 and 3. The accelerated quarterly sampling (quarterly to monthly) required for this quarter, as shown in Tables 2 and 3, was performed as required.

The monthly accelerated sampling program shown on Tables 2 and 3 is required as a result of exceedances in quarterly well monitoring results reported in previous quarters.

### **3.4 Data Validation**

The QAP and GWDP identify the data validation steps and data quality control checks required for the groundwater monitoring program. Consistent with these requirements, the QA Manager completed the following evaluations: a field data QA/QC evaluation, a receipt temperature check, a holding time check, an analytical method check, a reporting limit check, a trip blank check, a QA/QC evaluation of routine sample duplicates, a QA/QC evaluation of accelerated sample duplicates, a gross alpha counting error evaluation and a review of each laboratory's reported QA/QC information. Each evaluation is discussed in the following sections. Data check tables indicating the results of each test are provided under Tab G.

#### **3.4.1 Field Data QA/QC Evaluation**

The QA Manager performs a review of field recorded parameters to assess their adherence with QAP requirements. The assessment involved review of two sources of information: the Field Data Sheets and the Quarterly Depth to Water summary sheet. Review of the Field Data Sheets addresses well purging volumes and the stability of the following field parameters (based upon the purging method chosen): specific conductance, pH, temperature, redox potential, and turbidity. Stability of field parameters and well sampling techniques are dependent on the purging technique employed. Review of the Depth to Water data confirms that depth measurements were conducted within a five-day period. The results of this quarter's review are provided in Tab G.

There are three purging strategies specified in Revision 7.2 of the QAP that are used to remove stagnant water from the casing during groundwater sampling at the Mill. The three strategies are as follows:

1. Purging three well casing volumes with a single measurement of field parameters
2. Purging two casing volumes with stable field parameters (within 10% [Relative Percent Difference] (“RPD”))
3. Purging a well to dryness and stability (within 10% RPD) of a limited list of field parameters after recovery

During both the quarterly sampling event and the two monthly events, the purging technique used was two casing volumes with stable field parameters (pH, Conductivity, Redox, temperature and turbidity) except for the following wells that were purged to dryness: MW-03A, MW-23, MW-24, and MW-37.

Based upon the review of the Field Data Sheets, quarterly and semi-annually sampled locations conformed to the QAP requirement for purging using the two casing volume technique except for MW-20 and MW-37. MW-20 and MW-37 were evacuated to dryness before two casing volumes could be removed. MW-20 and MW-37 have insufficient water to purge using a pump. Due to the small volume of water present, these wells are purged and sampled using a disposable bailer. MW-20 and MW-37 conformed to the QAP, Revision 7.2 requirement for sampling low yield wells which includes the collection of three field parameters (pH, specific conductance [“conductivity”] and temperature) immediately prior to and immediately following sample collection. Stabilization of pH, conductivity and temperature were within the 10% RPD required by QAP, Revision 7.2. MW-03A, MW-23, and MW-24 were purged to dryness after 2 casing volumes were removed and the low yield sampling procedures were used for the collection of field parameters. Stabilization of pH, conductivity and temperature were within the 10% RPD required by QAP, Revision 7.2 for well MW-03A, MW-23, and MW-24.

Additionally, two casing volumes were not purged from MW-26, prior to sampling because MW-26 is a continuously pumped well. If a well is continuously pumped, it is pumped on a set schedule per the remediation plan and is considered sufficiently evacuated to immediately collect a sample; however, if a pumping well has been out of service for 48 hours or more, EFRI follows the purging requirements outlined in Attachment 2-3 of the QAP.

The review of the field sheets for compliance with QAP, Revision 7.2 requirements resulted in the observations noted below. The QAP requirements in Attachment 2-3 specifically state that field parameters must be stabilized to within 10% over at least two consecutive measurements. The QAP Attachment 2-3 states that turbidity should be less than 5 NTU prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP Attachment 2-3 does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements greater than 5 NTU below are included for information purposes only.

- Turbidity measurements were less than 5 NTU for the quarterly and semi-annual wells except MW-05, MW-17, MW-22 Resample, MW-25, MW-29, and MW-32. Per the QAP, Revision 7.2, Attachment 2-3, turbidity measurements prior to sampling were within a 10% RPD for the quarterly and semi-annual wells.
- Turbidity measurements were less than 5 NTU for the accelerated sampling wells except MW-25, MW-25 Resample, and MW-31 Resample in the June monthly event. As previously noted, the QAP does not require that turbidity be less than 5 NTU. Turbidity measurements prior to sampling were within a 10% RPD for the accelerated sampling wells

The other field parameters (conductance, pH, redox potential, and temperature) for the wells were within the required RPD for the quarterly, semi-annual and accelerated sampling.

During review of the field data sheets, it was observed that sampling personnel consistently recorded depth to water for the quarterly, semi-annual and accelerated sampling programs to the nearest 0.01 foot.

EFRI's letter to DRC of March 26, 2010 discusses further why turbidity does not appear to be an appropriate parameter for assessing well stabilization. In response to DRC's subsequent correspondence dated June 1, 2010 and June 24, 2010, EFRI has completed a monitoring well redevelopment program. The redevelopment report was submitted to DRC on September 30, 2011. DRC responded to the redevelopment report via letter on November 15, 2012. Per the DRC letter dated November 15, 2012, the field data generated this quarter are compliant with the turbidity requirements of the approved QAP.

### **3.4.2 Holding Time Evaluation**

QAP Table 1 identifies the method holding times for each suite of parameters. Sample holding time checks are provided under Tab G. The samples were received and analyzed within the required holding time.

### **3.4.3 Receipt Temperature Evaluation**

COC sheets were reviewed to confirm compliance with the QAP requirement in Table 1 that samples be received at 6°C or lower. Sample receipt temperature checks are provided under Tab G. The quarterly, semi-annual and accelerated samples were received within the required temperature limit.

As noted in Tab G, samples for gross alpha analyses were shipped without using ice. Per Table 1 in the approved QAP, samples submitted for gross alpha analyses do not have a sample temperature requirement.

#### **3.4.4 Analytical Method Checklist**

The analytical methods reported by both laboratories were checked against the required methods specified in the QAP. Analytical method check results are provided in Tab G. The review indicated that the quarterly, semi-annual and accelerated samples were analyzed in accordance with Table 1 of the QAP.

#### **3.4.5 Reporting Limit Evaluation**

The analytical method RLs reported by both laboratories were checked against the RLs specified in the QAP Table 1. RL evaluations are provided in Tab G. The analytes were measured and reported to the required RLs except that several sets of quarterly, semi-annual and accelerated sample results had the RL raised for at least one analyte due to matrix interference and/or sample dilution as noted in Section 3.4.9. In all cases the reported value for the analyte was higher than the increased RL.

#### **3.4.6 Trip Blank Evaluation**

The trip blank results were reviewed to identify any VOC sample contamination which is the result of sample handling and shipment. Trip blank evaluations are provided in Tab G. The trip blank results associated with the quarterly, semi-annual and accelerated samples were all nondetect for VOCs.

#### **3.4.7 QA/QC Evaluation for Routine Sample Duplicates**

Section 9.1.4 a) of the QAP states that RPDs will be calculated for the comparison of duplicate and original field samples. The QAP acceptance limits for RPDs between the duplicate and original field sample is less than or equal to 20% unless the measured results are less than 5 times the detection limit. This standard is based on the EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, February 1994, 9240.1-05-01 as cited in the QAP. The RPDs are calculated for the duplicate pairs for all analytes regardless of whether or not the reported concentrations are greater than 5 times the required detection limits; however, data will be considered noncompliant only when the results are greater than 5 times the required detection limit and the RPD is greater than 20%. The additional duplicate information is provided for information purposes.

The duplicate results were within a 20% RPD in the quarterly samples except for iron and zinc in duplicate pair MW-29/MW-65. The zinc results reported for MW-29/MW-65 were not five times greater than the reporting limits of 10.0 and as such the deviation from the 20% RPD requirement is acceptable. The approved QAP specifies a separate corrective action for duplicate RPDs outside of acceptance limits. The revised procedure for duplicate results outside of acceptance limits was implemented for the iron results during the quarter for duplicate pair MW-29/MW-65. The corrective actions that were taken in accordance with the QAP procedure are as follows: the QA Manager contacted the Analytical Laboratory and requested a review of the raw data to assure that there were

no transcription errors and the data were accurately reported. The laboratory noted that the data were accurate and reported correctly. Reanalysis was not completed as the samples were disposed of by the laboratory. Results of the RPD test are provided under Tab G.

The duplicate results were within a 20% RPD in the monthly accelerated samples except for ammonia in duplicate pair MW-30/MW-65 in the June monthly sampling event. Both of the sample results reported for MW-30/MW-65 were not five times greater than the reporting limits of 0.05 and as such the deviation from the 20% RPD requirement is acceptable. Results of the RPD test are provided under Tab G.

### **3.4.8 Radiologics Counting Error and Duplicate Evaluation**

Section 9.14 of the QAP require that gross alpha analysis be reported with an activity equal to or greater than the GWCL, and shall have a counting variance that is equal to or less than 20% of the reported activity concentration. An error term may be greater than 20% of the reported activity concentration when the sum of the activity concentration and error term is less than or equal to the GWCL. The quarterly, semi-annual, and accelerated radiologic sample results met the counting error requirements specified in the QAP.

Section 9.4 of the QAP also requires a comparability check between the sample and field duplicate sample results utilizing the formula provided in the text. Duplicate error for duplicate pair MW-35/MW-65 in the May monthly event was above the acceptance limit specified in the QAP. The approved QAP specifies a separate corrective action for duplicate results outside of acceptance limits. The revised procedure for duplicate results outside of acceptance limits was implemented for the gross alpha results for duplicate pair MW-35/MW-65. The corrective actions that were taken in accordance with the QAP procedure are as follows: the QA Manager contacted the Analytical Laboratory and requested a review of the raw data to assure that there were no transcription errors and the data were accurately reported. The laboratory noted that the data were accurate and reported correctly. It was noted during data review that the laboratory used sample MW-35 for the laboratory duplicate. The laboratory duplicate RPD was also outside of the laboratory established RPD limits. Based on 2 separate duplicate analyses of MW-35 (the laboratory and field), it appears that the duplication issues are related to a matrix interference. Reanalysis was not completed because of the suspected matrix interference issues.

All of the other radiologic duplicates were within acceptance limits. Results of quarterly, semi-annual, and accelerated radiologic sample QC are provided under Tab G.

### **3.4.9 Other Laboratory QA/QC**

Section 9.2 of the QAP requires that the laboratory's QA/QC Manager check the following items in developing data reports: (1) sample preparation information is correct and complete, (2) analysis information is correct and complete, (3) appropriate analytical

laboratory procedures are followed, (4) analytical results are correct and complete, (5) QC samples are within established control limits, (6) blanks are within QC limits, (7) special sample preparation and analytical requirements have been met, and (8) documentation is complete. In addition to other laboratory checks described above, EFRI's QA Manager rechecks QC samples and blanks (items (5) and (6)) to confirm that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-specific required limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided under Tab G. The lab QA/QC results from both GEL and AWAL samples for compounds regulated under the GWDP met these requirements.

The check samples included at least the following: a method blank, a laboratory control spike ("LCS"), a matrix spike ("MS") and a matrix spike duplicate ("MSD"), or the equivalent, where applicable. It should be noted that:

- Laboratory fortified blanks are equivalent to LCSs.
- Laboratory reagent blanks are equivalent to method blanks.
- Post digestion spikes are equivalent to MSs.
- Post digestion spike duplicates are equivalent to MSDs.
- Laboratory Duplicates are equivalent to MSDs.

The qualifiers, and the corresponding explanations reported in the QA/QC Summary Reports for the check samples for the analytical methods were reviewed by the QA Manager.

The QAP, Section 8.1.2 requires that a MS/MSD pair be analyzed with each analytical batch. The QAP does not specify acceptance limits for the MS/MSD pair, and the QAP does not specify that the MS/MSD pair be prepared on EFRI samples only. Acceptance limits for MS/MSDs are set by the laboratories. The review of the information provided by the laboratories in the data packages verified that the requirements in the QAP to analyze a MS/MSD pair with each analytical batch was met. While the QAP does not require it, the recoveries were reviewed for compliance with the laboratory established acceptance limits. The QAP does not require this level of review and the results of this review are provided for information only.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for the quarterly and semi-annual samples were within acceptable laboratory limits for the regulated compounds except as indicated in Tab G. The AWAL data recoveries and RPDs which are outside the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries and RPDs above or below the acceptance limits are indicative of matrix interference most likely caused by other constituents in the samples. Matrix interferences are applicable to the individual sample results only. The requirement in the QAP to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAP.

The information from the Laboratory QA/QC Summary Reports indicates that the MS/MSDs recoveries and the associated RPDs for the accelerated samples were within acceptable laboratory limits for the regulated compounds except as indicated in Tab G. The recoveries and RPDs which are outside of the laboratory established acceptance limits do not affect the quality or usability of the data because the recoveries and RPDs above the acceptance limits are indicative of matrix interference most likely caused by other constituents in the samples. Matrix interferences are applicable to the individual sample results only. The requirement in the QAP to analyze a MS/MSD pair with each analytical batch was met and as such the data are compliant with the QAP.

The QAP specifies that surrogate compounds shall be employed for all organic analyses but the QAP does not specify acceptance limits for surrogate recoveries. The information from the Laboratory QA/QC Summary Reports indicates that the surrogate recoveries for the quarterly and accelerated samples were within acceptable laboratory limits for the surrogate compounds.

The information from the Laboratory QA/QC Summary Reports indicates that the LCS recoveries for both the quarterly and accelerated samples were within acceptable laboratory limits for the LCS compounds as noted in Tab G.

The QAP, Section 8.1.2 requires that each analytical batch shall be accompanied by a method blank. The analytical batches routinely contain a blank, which is a blank sample made and carried through all analytical steps. For the Mill samples, a method blank was prepared for the analytical methods. Per the approved QAP, contamination detected in analysis of method blanks will be used to evaluate any analytical laboratory contamination of environmental samples. QAP Revision 7.2 states that non-conformance conditions will exist when contaminant levels in the samples(s) are not an order of magnitude greater than the blank result. The method blanks for the quarterly samples had reported detections above the RL of zinc and bicarbonate. In both instances the contaminant levels in the samples were an order of magnitude greater than the method blank results. Because the method blank results were an order of magnitude less than the associated sample results the data are acceptable and no further actions are required. Method blank results are included in Tab E and Tab F.

Laboratory duplicates are completed by the analytical laboratories as required by the analytical method specifications. Acceptance limits for laboratory duplicates are set by the laboratories. The QAP does not require the completion of laboratory duplicates or the completion of a QA assessment of them. EFRI reviews the QC data provided by the laboratories for completeness and to assess the overall quality of the data provided. Duplicate results outside of the laboratory established acceptance limits are included in Tab G. The results outside of the laboratory established acceptance limits do not affect the quality or usability of the data because the RPDs above the acceptance limits are indicative of non-homogeneity in the sample matrix. Matrix effects are applicable to the individual sample results only.

## **4.0 CORRECTIVE ACTION REPORT**

There are no corrective actions required during the current monitoring period.

### **4.1 Assessment of Corrective Actions from Previous Period**

The exceedance notice for second quarter 2014 failed to note that chloride in MW-32 had exceeded the GWCL. It is important to note that although the required reporting was missed, there was no missed data because MW-32 is sampled quarterly for chloride under the chloroform program.

The omission of chloride from the groundwater data review has prompted the QA Manager to revise the location code for MW-32. Data collected under the groundwater program will carry a location code of MW-32, while data collected under the chloroform program will carry a location code of TW4-17. This location coding will allow the data from both programs to be readily identifiable and will prevent the inadvertent omission of the groundwater data from the exceedance checking procedures.

Verification of the location coding procedure occurred after the collection of the second quarter 2015 samples. The data are readily identifiable and the corrective action is considered complete. No further corrective actions are required.

## **5.0 TIME CONCENTRATION PLOTS**

Time concentration plots for each monitoring well for the following constituents: chloride, fluoride, sulfate, and uranium, are included under Tab I. The data points collected to date are reflected on the plots.

Time concentration plots included with quarterly groundwater reports prior to and including first quarter 2012 did not include data that were determined to be outliers using the statistical methods used for the background determinations at the Mill. Based on conversations with DRC, all of the data have been included in the quarterly time concentration plots since first quarter 2012.

## **6.0 ELECTRONIC DATA FILES AND FORMAT**

EFRI has provided to the Director electronic copies of the laboratory results from groundwater quality monitoring conducted during the quarter in Comma Separated Values format, from the analytical laboratories. A copy of the transmittal e-mail is included under Tab J.

## 7.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc. on August 19, 2015.

ENERGY FUELS RESOURCES (USA) INC.

By:

A handwritten signature in black ink, appearing to read 'S. Bakken', with a stylized flourish at the end.

Scott A. Bakken  
Senior Director Regulatory Affairs

Certification:

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



---

Scott A. Bakken  
Senior Director Regulatory Affairs  
Energy Fuels Resources (USA) Inc.

## Tables

Table 1: Summary of Well Sampling for Q2 2015

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-01	Semi-annually	Semi-annually	4/15/2015	(5/1/2015) [5/13/2015]
MW-02	Semi-annually	Semi-annually	4/21/2015	(5/14/2015) [5/15/2015]
MW-02 Resample	Semi-annually	Semi-annually	4/28/2015	(5/14/2015)
MW-03	Semi-annually	Semi-annually	4/23/2015	(5/14/2015) [5/15/2015]
MW-03 Resample	Semi-annually	Semi-annually	4/29/2015	(5/14/2015)
MW-03 Resample	Semi-annually	Semi-annually	5/20/2015	(6/8/2015)
MW-03A	Semi-annually	Semi-annually	4/23/2015	(5/14/2015) [5/15/2015]
MW-03A Resample	Semi-annually	Semi-annually	4/29/2015	(5/14/2015)
MW-05	Semi-annually	Semi-annually	4/21/2015	(5/14/2015) [5/15/2015]
MW-05 Resample	Semi-annually	Semi-annually	4/27/2015	(5/14/2015)
MW-11	Quarterly	Quarterly	4/8/2015	(4/24/2015) [5/11/2015]
MW-12	Semi-annually	Semi-annually	4/21/2015	(5/14/2015) [5/15/2015]
MW-12 Resample	Semi-annually	Semi-annually	4/28/2015	(5/14/2015)
MW-14	Quarterly	Quarterly	4/8/2015	(4/24/2015) [5/11/2015]
MW-15	Semi-annually	Semi-annually	4/13/2015	(5/1/2015) [5/13/2015]
MW-17	Semi-annually	Semi-annually	4/22/2015	(5/14/2015) [5/15/2015]
MW-17 Resample	Semi-annually	Semi-annually	4/29/2015	(5/14/2015)
MW-18	Semi-annually	Semi-annually	4/15/2015	(5/1/2015) [5/13/2015]
MW-19	Semi-annually	Semi-annually	4/14/2015	(5/1/2015) [5/13/2015]
MW-20	Semi-annually	Semi-annually	5/27/2015	[6/29/2015]
MW-20 Resample	Semi-annually	Semi-annually	6/24/2015	(7/15/2015)
MW-22	Semi-annually	Semi-annually	4/22/2015	(5/14/2015) [5/15/2015]
MW-22 Resample	Semi-annually	Semi-annually	4/29/2015	(5/14/2015)
MW-23	Semi-annually	Semi-annually	4/30/2015	(5/14/2015) [6/2/2015]
MW-24	Semi-annually	Semi-annually	5/28/2015	[6/29/2015]
MW-24 Resample	Semi-annually	Semi-annually	6/24/2015	(7/15/2015)
MW-25	Quarterly	Quarterly	4/7/2015	(4/24/2015) [5/11/2015]
MW-26	Quarterly	Quarterly	4/9/2015	(4/24/2015) [5/11/2015]
MW-27	Semi-annually	Semi-annually	4/20/2015	(5/14/2015) [5/15/2015]
MW-27 Resample	Semi-annually	Semi-annually	4/28/2015	(5/14/2015)
MW-28	Semi-annually	Semi-annually	4/21/2015	(5/14/2015) [5/15/2015]
MW-28 Resample	Semi-annually	Semi-annually	4/27/2015	(5/14/2015)
MW-29	Semi-annually	Semi-annually	4/30/2015	(5/14/2015) [6/2/2015]
MW-30	Quarterly	Quarterly	4/8/2015	(4/24/2015) [5/11/2015]
MW-31	Quarterly	Quarterly	4/7/2015	(4/24/2015) [5/11/2015]
MW-32	Semi-annually	Semi-annually	4/8/2015	(4/24/2015) [5/11/2015]
MW-35	Quarterly	Background	4/9/2015	(4/24/2015) [5/11/2015]
MW-36	Quarterly	Background	4/16/2015	(5/1/2015) [5/13/2015]
MW-37	Quarterly	Background	5/27/2015	[6/29/2015]
MW-37 Resample	Quarterly	Background	6/24/2015	(7/15/2015)
MW-65	1 per Batch	Duplicate of MW-35	4/9/2015	(4/24/2015) [5/11/2015]
MW-70	1 per Batch	Duplicate of MW-29	4/30/2015	(5/14/2015) [6/2/2015]
<b>Accelerated May Monthly</b>				
MW-11	Monthly	Accelerated	5/11/2015	(6/3/2015)
MW-14	Monthly	Accelerated	5/11/2015	No laboratory data - well was sampled for field pH only
MW-25	Monthly	Accelerated	5/11/2015	(6/3/2015)
MW-26	Monthly	Accelerated	5/12/2015	(6/3/2015)
MW-30	Monthly	Accelerated	5/12/2015	(6/3/2015)
MW-31	Monthly	Accelerated	5/11/2015	(6/3/2015)
MW-35	Monthly	Accelerated	5/12/2015	(6/3/2015) [6/16/2015]
MW-65	Monthly	Duplicate of MW-35	5/12/2015	(6/3/2015) [6/16/2015]
<b>Accelerated June Monthly</b>				
MW-11	Monthly	Accelerated	6/1/2015	No Laboratory data*
MW-11 Resample	Monthly	Accelerated	6/23/2015	(7/10/2015)
MW-14	Monthly	Accelerated	6/1/2015	No laboratory data - well was sampled for field pH only
MW-25	Monthly	Accelerated	6/1/2015	No Laboratory data*
MW-25 Resample	Monthly	Accelerated	6/23/2015	(7/10/2015)
MW-26	Monthly	Accelerated	6/3/2015	No Laboratory data*
MW-26 Resample	Monthly	Accelerated	6/24/2015	(7/10/2015)
MW-30	Monthly	Accelerated	6/2/2015	No Laboratory data*
MW-30 Resample	Monthly	Accelerated	6/24/2015	(7/10/2015)
MW-31	Monthly	Accelerated	6/1/2015	No Laboratory data*
MW-31 Resample	Monthly	Accelerated	6/23/2015	(7/10/2015)
MW-35	Monthly	Accelerated	6/2/2015	[7/1/2015]
MW-35 Resample	Monthly	Accelerated	6/23/2015	(7/10/2015)
MW-65	1 per Batch	Duplicate of MW-30	6/2/2015	No Laboratory data*
MW-65 Resample	1 per Batch	Duplicate of MW-30	6/24/2015	(7/10/2015)

Notes:

\* No laboratory data were reported by AWAL from these samples. The samples were received at AWAL outside of temperature acceptance limits due to a FedEx delivery issue caused by weather. Only the field parameters are reported.

Date in (parenthesis) depicts the date that data were reported from American West Analytical Laboratories. Date in [square brackets] depicts the date the data were reported from GEL

**Table 2  
Exceedances and Acceleration Requirements**

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Routine Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
<b>Quarterly Wells Accelerated to Monthly Sampling<sup>1</sup></b>							
MW-11 (Class II)	Manganese (ug/L)	131.29	134	Quarterly	Monthly	Q1 2010	May 2010
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	6.45	Quarterly	Monthly	Q1 2010	May 2010
MW-25 (Class III)	Uranium (ug/L)	6.5	7.13	Quarterly	Monthly	Q4 2013	March 2014
	Chloride (mg/L)	35	36.1	Quarterly	Monthly	Q1 2013	June 2013
	Field pH (S.U.)	6.5 - 8.5	6.47	Quarterly	Monthly	Q4 2012	February 2013
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1.3	Quarterly	Monthly	Q1 2010	May 2010
	Uranium (ug/L)	41.8	58.7	Quarterly	Monthly	Q1 2010	May 2010
	Chloroform (ug/L)	70	700	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	58.31	72	Quarterly	Monthly	Q1 2010	May 2010
	Methylene Chloride (ug/L)	5	9.9	Quarterly	Monthly	Q2 2010	June 2010
MW-30 (Class II)	Field pH (S.U.)	6.74 - 8.5	6.59	Quarterly	Monthly	Q1 2010	May 2010
	Nitrate + Nitrite (as N) (mg/L)	2.5	16.1	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	128	134	Quarterly	Monthly	Q1 2011	May 2011
	Field pH (S.U.)	6.5	6.22	Quarterly	Monthly	Q4 2014	March 2015
	Ammonia (mg/L)	0.14	0.3	Quarterly	Monthly	Q4 2014	March 2015
	Uranium (ug/L)	8.32	8.57	Quarterly	Monthly	Q4 2013	March 2014
MW-31 (Class III)	Selenium (ug/L)	34	35.3	Quarterly	Monthly	Q2 2010	July 2010
	Nitrate + Nitrite (as N) (mg/L)	5	21.7	Quarterly	Monthly	Q1 2010	May 2010
	TDS (mg/L)	1320	1330	Quarterly	Monthly	Q3 2010	January 2011
	Sulfate (mg/L)	532	539	Quarterly	Monthly	Q4 2010	March 2011
	Selenium (ug/L)	71	74	Quarterly	Monthly	Q3 2012	December 2012
	Field pH (S.U.)	6.5 - 8.5	6.45	Quarterly	Monthly	February 2014	June 2014
MW-35 (Class II)	Chloride (mg/L)	143	145	Quarterly	Monthly	Q1 2011	May 2011
	Uranium (ug/L)	7.5	21.7	Quarterly	Monthly	Q3 2011	July 2011
	Thallium (ug/L)	0.5	1.14	Quarterly	Monthly	Q4 2011	July 2011
	Selenium (ug/L)	12.5	19.7	Quarterly	Monthly	Q1 2012	June 2012
	Field pH (S.U.)	6.5 - 8.5	6.49**	Quarterly	Monthly	July 2011	August 2011
	Gross Alpha minus Rn & U (pCi/L)	3.75	4.5	Quarterly	Monthly	Q3 2011	Q4 2011
Manganese (ug/L)	200	369	Quarterly	Monthly	Q3 2011	July 2011	
<b>Semi-Annual Wells Accelerated to Quarterly Sampling<sup>1</sup></b>							
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
MW-1 (Class II)	Tetrahydrofuran (ug/L)	11.5	21.8	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Field pH (S.U.)	6.77 - 8.5	6.75	Semi-Annually	Quarterly	Q3 2014	Q1 2015
	Sulfate (mg/L)	838	846	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Chloride (mg/L)	22.1	23.9	Semi-Annually	Quarterly	Q2 2015	Q1 2016
MW-3 (Class III)	Selenium (ug/L)	37	37.2	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	6.14 (6.25)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Nitrate + Nitrite (as N) (mg/L)	0.73	1.21	Semi-Annually	Quarterly	Q4 2013	Q2 2014
	Sulfate (mg/L)	3663	3760	Semi-Annually	Quarterly	Q4 2013	Q2 2014
	Beryllium (ug/L)	2	2.08	Semi-Annually	Quarterly	Q2 2015	Q1 2016
	Cadmium (ug/L)	4.67	5.03 (14.2)	Semi-Annually	Quarterly	Q2 2015	Q1 2016
	Zinc (ug/L)	173.19	238 (373)	Semi-Annually	Quarterly	Q2 2015	Q1 2016
MW-3A (Class III)	Fluoride (mg/L)	0.68	0.71	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	6.23 (6.24)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Sulfate (mg/L)	3640	3680	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	TDS (mg/L)	5805	5860	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Nitrate + Nitrite (as N) (mg/L)	1.3	1.31	Semi-Annually	Quarterly	Q4 2012	Q1 2013
MW-5 (Class II)	Selenium (ug/L)	89	94.8	Semi-Annually	Quarterly	Q4 2010	Q1 2011
	Uranium (ug/L)	7.5	11.6	Semi-Annually	Quarterly	Q4 2010	Q1 2011
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	6.13	Semi-Annually	Quarterly	Q1 2014	Q2 2014
	Selenium (ug/L)	25	33.3	Semi-Annually	Quarterly	Q4 2014	Q3 2015
MW-15 (Class III)	Selenium (ug/L)	128.7	152	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Field pH (S.U.)	6.62 - 8.5	6.61	Semi-Annually	Quarterly	Q4 2013	Q2 2014
MW-18 (Class III)	Thallium (ug/L)	1.95	3.73	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Sulfate (mg/L)	1938.9	1950	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.25 - 8.5	6.16	Semi-Annually	Quarterly	Q1 2014	Q2 2014
	TDS (mg/L)	3198.77	3280	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-19 (Class III)	Nitrate + Nitrite (as N) (mg/L)	2.83	4	Semi-Annually	Quarterly	Q4 2011	Q1 2012
	Field pH (S.U.)	6.78-8.5	6.61 (6.66)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	6.18	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-24 (Class III)	Cadmium (ug/L)	2.5	4.28	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Fluoride (mg/L)	0.36	0.558	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Sulfate (mg/L)	2903	3120	Semi-Annually	Quarterly	Q4 2014	Q2 2015
	Thallium (ug/L)	1	1.3	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	5.91 (5.78)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	5.8	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Chloride (mg/L)	38	42	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Gross Alpha minus Rn & U (pCi/L)	2	2.33	Semi-Annually	Quarterly	Q2 2014	Q4 2014
	Sulfate (mg/L)	462	497	Semi-Annually	Quarterly	Q2 2013	Q1 2014
	TDS (mg/L)	1075	1160	Semi-Annually	Quarterly	Q2 2010	Q3 2010

**Table 2  
Exceedances and Acceleration Requirements**

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Routine Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
MW-28 (Class III)	Chloride (mg/L)	105	108	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Cadmium (ug/L)	5.2	5.41	Semi-Annually	Quarterly	Q2 2014	Q4 2014
	Uranium (ug/L)	4.9	61.3	Semi-Annually	Quarterly	Q2 2014	Q4 2014
	Vanadium (ug/L)	30	109	Semi-Annually	Quarterly	Q2 2014	Q4 2014
	Field pH (S.U.)	6.1 - 8.5	6.01	Semi-Annually	Quarterly	Q1 2014	Q2 2014
MW-29 (Class III)	Field pH (S.U.)	6.46 - 8.5	6.17	Semi-Annually	Quarterly	Q4 2010	Q2 2011
	Sulfate (mg/L)	2946	2960	Semi-Annually	Quarterly	Q2 2015	Q1 2016
	TDS (mg/L)	4400	4600	Semi-Annually	Quarterly	Q2 2012	Q3 2012
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	5.4	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Chloride (mg/L)	35.99	36.3	Semi-Annually	Quarterly	Q2 2014 (Q1 2015)	Q2 2014*
	Field pH (S.U.)	6.4 - 8.5	6.03	Semi-Annually	Quarterly	Q2 2010	Q3 2010

Notes:

<sup>1</sup> GWCL Values are taken from August 24, 2012 versions of the GWDP.

Q Values listed in parentheses are resample results from the same sampling period. Samples were recollected due field or laboratory problems as noted in the specific report for that sample period.

Highlighted text shows accelerated requirements resulting from Q2 2015 sampling event.

\* Chloride exceeded the GWCL in Q2 2014. The exceedance was not reported in the groundwater program, but chloride data were collected in MW-32 as part of the chloroform sampling program. No accelerated sampling data were lost. Chloride exceeded the GWCL in MW-32 in Q1 2015. The Q1 2015 data are reported above.

\*\* Field pH in MW-35 was below the GWCL in the July 2011 monthly sampling event. THE GWDP did not specify field pH limits for MW-35. Per a request from DWMRC, EFRI began using the GWQS for the field pH in MW-35.

Table 3-- GWCL Exceedances for Second Quarter 2015 under the August 24, 2012 GWDP

Q1 2010 Results				Q2 2010 Results				Q3 2010 Results				Q4 2010 Results																
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2010 Sample Date	Q1 2010 Result	Q2 2010 Sample Date	Q2 2010 Result	May 2010 Monthly Sample Date	May 2010 Monthly Result	June 2010 Monthly Sample Date	June 2010 Monthly Result	July 2010 Monthly Sample Date	July 2010 Monthly Result	August 2010 Monthly Sample Date	August 2010 Monthly Result	Q3 2010 Sample Date	Q3 2010 Result	October 2010 Monthly Sample Date	October 2010 Monthly Result	Q4 2010 Sample Date	Q4 2010 Result	December 2010 Monthly Sample Date	December 2010 Monthly Result						
<b>Required Quarterly Sampling Wells</b>																												
MW-11 (Class II)	Manganese (ug/L)	131.29	2/10/2010	134	4/28/2010	137	5/24/2010	122	6/16/2010	99	7/20/2010	123	8/25/2010	138	9/8/2010	128	10/20/2010	141	11/11/2010	133	12/15/10	158						
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	2/2/2010	6.45	4/21/2010	6.29	5/21/2010	6.36	6/16/2010	6.45	7/20/2010	7.19	8/25/2010	6.48	9/8/2010	6.51	10/20/2010	6.60	11/10/2010	6.37	12/15/2010	6.47						
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	2/3/2010	6.53	4/28/2010	7.2	NS	NA	NS	NA	NS	NA	NA	NA	9/8/2010	6.58	NS	NA	11/10/2010	6.36	NS	NA						
	Cadmium (ug/L)	1.5		1.26		1.44		NA		NA		NA		NA		1.4		NA		1.26		NA						
	Uranium (ug/L)	6.5		5.93		6.43		NA		NA		NA		NA		6.57		NA		5.89		NA						
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	2/2/2010	1.3	4/22/2010	2	5/21/2010	0.3	6/16/2010	0.4	7/21/2010	0.6	8/16/2010	0.6	9/26/2010	0.7	10/20/2010	0.4	11/15/2010	0.2	12/15/2010	0.4						
	Uranium (ug/L)	41.8		58.7		66.7		37.4		36.6		34.4		71.8		72.7		37.5		30.4		29.6						
	Chloroform (ug/L)	70		700		1700		800		940		900		2800		2100		1000		1900		1400						
	Chloride (mg/L)	58.31		72		57		80		47		52		49		64		52		48		52						
	Field pH (S.U.)	6.74 - 8.5		6.59		7.18		6.36		6.98		6.45		6.39		6.60		6.61		6.49		6.45						
	Dichloromethane (Methylene Chloride) (ug/L)	5		1		9.9		NR		2.2		12		24		45		5.5		16		1.2						
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	2/9/2010	16.1	4/27/2010	15.8	5/21/2010	17	6/15/2010	15.3	7/21/2010	16	8/24/2010	16	9/14/2010	15	10/19/2010	15	11/9/2010	15	12/14/2010	16						
	Chloride (mg/L)	128		127		97		NA		NA		NA		111		NA		126		NA								
	Uranium (ug/L)	8.32		6.82		6.82		NA		NA		NA		7.10		NA		6.64		NA								
	Field pH (S.U.)	6.50		6.81		6.55		6.62		7.47		7/21/2010		7/27/2010		6.80 (6.82)		8/24/2010		6.73		6.80 (6.84)	6.77	6.75	6.65			
	Ammonia (mg/L)	0.14		<0.05		<0.05		NA		NA		NS		NA		NS		NA		0.05		NA	0.05	NA				
	Selenium (ug/L)	34		32		35.3		NA		NA		8/24/2010		33.5		8/24/2010		35.6		32.6		32.4	32.2	30.5				
	MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)		5		2/9/2010		21.7		4/20/2010		22.5		5/21/2010		23		6/15/2010		21.1		7/21/2010	20	8/24/2010	22	9/13/2010	21	10/19/2010
TDS (mg/L)		1320	1150	1220	NS		NA	NS	NA		NS	NA	NS		NA	1330	NS		NA	1320	NS		NA					
Chloride (mg/L)		143	128	128	NS		NA	NS	NA		NS	NA	NS		NA	139	NS		NA	138	NS		NA					
Selenium (ug/L)		71	60.8	59.6	NS		NA	NS	NA		NS	NA	NS		NA	64.4	NS		NA	60	NS		NA					
Field pH (S.U.)		6.5 - 8.5	6.96	7.38	5/21/2010		6.95	6/15/2010	7.01		7/21/2010	7.80	8/24/2010		7.10	7.66 (7.13)	10/19/2010		6.92	6.98	6.95							
Sulfate (mg/L)		532	507	522	NS		NA	NS	NA		NS	NA	NS		NA	527	NS		NA	539	NS		NA					
MW-35 (Class II)	Manganese (ug/L)	200	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/30/2010	698	NS	NA						
	Thallium (ug/l)	0.5		NA		NA		NA		NA		NA		NA		NA		NA		1.14		NA						
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		NA		NA		NA		NA		NA		NA		NA		2.6		NA						
	Field pH (S.U.)	6.5 - 8.5		NA		NA		NA		NA		NA		NA		NA		NA		7.46		NA						
	Selenium (ug/L)	12.5		NA		NA		NA		NA		NA		NA		NA		NA		ND		NA						
	Uranium (ug/L)	7.5		NA		NA		NA		NA		NA		NA		NA		NA		27.2		NA						
<b>Required Semi-Annual Sampling Wells</b>																												
MW-01 (Class II)	Tetrahydrofuran (ug/L)	11.5	NS	NA	5/5/2010	7.8	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/8/2010	10.7	NS	NA						
	Chloride (mg/L)	22.1		18		NA		NA		NA		NA		15		NA												
	Field pH (S.U.)	6.77 - 8.5		7.86 (6.87)		NA		NA		NA		NA		6.96		NA												
	Sulfate (mg/L)	838		805		NA		NA		NA		792		NA														
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	5/3/2010	37.2	NS	NA	NS	NA	NS	NA	9/20/2010	35.5	NS	NA	11/19/2010	38.8	NS	NA								
	Field pH (S.U.)	6.5 - 8.5		6.14 (6.25)		NA		NA		NA		6.39		NA		6.35		NA										
	Beryllium (ug/L)	2		<0.5		NA		NA		NA		NA		<0.5		NA												
	Cadmium (ug/L)	4.67		0.78		NA		NA		NA		NA		0.63		NA												
	Zinc (ug/L)	173.19		96		NA		NA		NA		NA		40		NA												
	Sulfate (mg/L)	3663		3490		NA		NA		NA		NA		3430		NA												
	Nitrate + Nitrite (as N) (mg/L)	0.73		0.3		NA		NA		NA		NA		0.4		NA												
Fluoride (Mg/L)	0.68	0.71	NA	NA	NA	NA	0.63	0.77	NA																			
MW-3A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	5/4/2010	6.23 (6.24)	NS	NA	NS	NA	NS	NA	9/21/2010	6.42	NS	NA	11/22/2010	6.21	NS	NA								
	Sulfate (mg/L)	3640		3680		NA		NA		NA		3630		3850		NA												
	Nitrate + Nitrite (as N) (mg/L)	1.3		1.0		NA		NA		NA		NA		1.2		NA												
	TDS (mg/L)	5805		5860		NA		NA		NA		5470		5330		NA												
	Selenium (ug/L)	89		81.4		NA		NA		NA		NS		94.8		NA												
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	4/26/2010	0.39	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/11/2010	11.6	NS	NA						
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	4/27/2010	25.7	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/19/2010	27.6	NS	NA						
	Field pH (S.U.)	6.5 - 8.5	NS	NA	7.16	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	11/19/2010	6.47	NS	NA						
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	4/21/2010	100	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/11/2010	99.5	NS	NA						
	Field pH (S.U.)	6.62 - 8.5	NS	NA	6.98	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	11/11/2010	6.57	NS	NA						

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2010 Results		Q2 2010 Results						Q3 2010 Results				Q4 2010 Results							
			Q1 Sample Date	Q1 Result	Q2 Sample Date	Q2 Result	May Monthly Sample Date	May Monthly Result	June Monthly Sample Date	June Monthly Result	July Monthly Sample Date	July Monthly Result	August Monthly Sample Date	August Monthly Result	Q3 Sample Date	Q3 Result	October Monthly Sample Date	October Monthly Result	Q4 Sample Date	Q4 Result	December Monthly Sample Date	December Monthly Result
Required Semi-Annual Sampling Wells, continued																						
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	5/4/2010	3.73	NS	NA	NS	NA	NS	NA	NS	NA	9/15/2010	3.64	NS	NA	11/18/2010	3.57	NS	NA
	Sulfate (mg/L)	1938.9		1950		NA		NA		NA		1930		NA		1910						
	Field pH (S.U.)	6.25-8.5		6.2		NA		NA		NA		7.23		NA		6.37						
	TDS (mg/L)	3198.77		3280		NA		NA		NA		3190		NA		3030						
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	5/4/2010	6.61 (6.66)	NS	NA	NS	NA	NS	NA	9/15/2010	6.93	NS	NA	11/18/2010	6.8	NS	NA		
	Nitrate + Nitrite (as N) (mg/L)	2.83		2.6		NA		NA		NA		2.4										
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	4/22/2010	6.18	NS	NA	NS	NA	NS	NA	NS	9/14/2010	7.05	NS	NA	11/22/2010	6.44	NS	NA	
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	5/6/2010	4.28	NS	NA	NS	NA	NS	NA	NS	NA	9/21/2010	5.06	NS	NA	11/17/2010	3.22	NS	NA
	Fluoride (mg/L)	0.36		0.14		NA		NA		NA		0.18										
	Sulfate (mg/L)	2903		2560		NA		NA		NA		2760										
	Thallium (ug/L)	1		1.3		NA		NA		NA		1.09										
	Field pH (S.U.)	6.5 - 8.5		5.91 (5.78)		NA		NA		NA		6.64		6.1								
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	5/3/2010	5.8	NS	NA	NS	NA	NS	NA	9/14/2010	5.9	NS	NA	11/12/2010	5.7	NS	NA		
	Chloride (mg/L)	38		42		NA		NA		45												
	Sulfate (mg/L)	462		469		NA		NA		452												
	TDS (mg/L)	1075		1160		NA		NA		1110												
	Gross Alpha minus Rn & U (pCi/L)	2		1.6		NA		NA		2.4												
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	4/19/2010	108	NS	NA	NS	NA	NS	NA	9/14/2010	106	NS	NA	11/12/2010	107	NS	NA		
	Cadmium (ug/L)	5.2		4.20		NA		NA		4.11												
	Uranium (ug/L)	4.9		3.36		NA		NA		3.45												
	Vanadium (ug/L)	30		<15.0		NA		NA		<15.0												
	Field pH (S.U.)	6.1 - 8.5		5.67		NA		NA		5.72												
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	4/27/2010	4400	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/9/2010	4390	NS	NA		
	Sulfate (mg/L)	2946		2770		NA		NA		2690												
	Field pH (S.U.)	6.46 - 8.5		6.82		NA		NA		6.17												
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	4/20/2010	4.5	NS	NA	NS	NA	NS	NA	9/13/2010	2.9	NS	NA	11/10/2010	8.8	NS	NA		
	Chloride (mg/L)	35.39		30		NA		NA		35												
	Field pH (S.U.)	6.4 - 8.5		6.03		NA		NA		6.05												

Notes:

GWCL values are taken from August 24, 2012 version of GWDP.

NS = Not Required and Not Sampled

NA = Not Analyzed

NA = Not Available

Exceedances are shown in yellow

Values in () parentheses are the field pH measurements for the resampled analyses.

Table 3 - GWCL Exceedances for Second Quarter 2015 under the August 24, 2012 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2011 Results						Q2 2011 Results						Q3 2011 Results						Q4 2011 Results					
			January 2011 Monthly Sample Date	January 2011 Monthly Sample Result	Q1 2011 Sample Date	Q1 2011 Result	March 2011 Monthly Sample Date	March 2011 Monthly Result	Q2 2011 Sample Date	Q2 2011 Result	May 2011 Monthly Sample Date	May 2011 Monthly Result	June 2011 Monthly Sample Date	June 2011 Monthly Result	July 2011 Monthly Sample Date	July 2011 Monthly Result	Q3 2011 Sample Date	Q3 2011 Result	September 2011 Monthly Sample Date	September 2011 Monthly Result	Q4 2011 Sample Date	Q4 2011 Result	November 2011 Monthly Sample Date	November 2011 Monthly Result	December 2011 Monthly Sample Date	December 2011 Monthly Result
<b>Required Quarterly Sampling Wells</b>																										
MW-11 (Class II)	Manganese (ug/L)	131.29	1/1/2011	121	2/2/2011	145	3/15/2011	68	4/4/2011	148	5/10/2011	170	6/15/2011	121	7/6/2011	151	8/3/2011	118	9/7/2011	106	10/4/2011	112	11/9/2011	105	12/14/2011	100
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/1/2011	6.37	2/7/2011	6.22	3/14/2011	6.76	4/4/2011	6.63	5/10/2011	6.37	6/15/2011	5.83	7/5/2011	6.4	8/3/2011	6.23 (6.41)	9/8/2011	6.50	10/4/2011	6.71 (6.82)	11/9/2011	6.63	12/12/2011	6.84
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/11/2011	6.44	2/2/2011	6.66	3/15/2011	6.79	4/4/2011	6.7	5/11/2011	6.1	6/20/2011	5.77	7/6/2011	6.29	8/3/2011	6.42 (6.54)	9/7/2011	6.54	10/4/2011	6.6	11/9/2011	6.51	12/12/2011	6.87
	Cadmium (ug/L)	1.5		NA		1.34		NA		1.27		NA		NA		8/30/2011	1.19	NA		1.27		NA				
	Uranium (ug/L)	6.5		7.02		4.77		6.8		5.56		6.72		7.06		6.74	8/30/2012	6.37		5.96		5.27		6.56		6.1
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/12/2011	0.2	2/16/2011	0.25	3/15/2011	0.6	4/1/2011	0.8	5/10/2011	0.4	6/20/2011	0.3	7/6/2011	0.9	8/3/2011	0.6	9/7/2011	2.4	10/12/2011	0.9	11/9/2011	1.3	12/14/2011	2.3
	Uranium (ug/L)	41.8		69.3		31.8		60.2		18.5		57.1		19.0		56.1		58.9		55.6		57				
	Chloroform (ug/L)	70		800		1200		390		1900		730		1000		1300		440		1200		1400				
	Chloride (mg/L)	58.31		52		59		64		39		64		60		66		61		55		62				
	Field pH (S.U.)	6.74 - 8.5		6.83		6.06		6.89		6.22		6.43		6.52		6.35		6.07 (6.58)		6.71		6.82		6.75		7.1
	Dichloromethane (Methylene Chloride) (ug/L)	5		<1.0		10		14		3.1		20		7		2.4		10		7.9		2.6		8.9		11
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/10/2011	15	2/1/2011	16	3/14/2011	17	4/11/2011	16	5/10/2011	16	6/20/2011	17	7/5/2011	17	8/3/2011	14	9/7/2011	16	10/4/2011	16	11/8/2011	16	12/12/2011	16
	Chloride (mg/L)	128		NA		134		128		127		127		126		145		129		122		124				
	Uranium (ug/L)	8.32		NA		5.97		6.49		NA		NA		8		NA		9.83		NA		NA				
	Field pH (S.U.)	6.50		6.65		6.96		7.10		6.83		6.70		5.66		6.65		6.61		6.80		6.96 (6.73)		6.83		7.14
	Ammonia (mg/L)	0.14		NA		0.05		NA		<0.05		NA		NA		NA		<0.05		NA		<0.05		NA		NA
	Selenium (ug/L)	34		36.2		34.7		34		44.4		38.3		38.7		32.4		39.7		32.4		36.6		36.8		38
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/10/2011	19	2/1/2011	21	3/14/2011	22	4/1/2011	21	5/10/2011	20	6/20/2011	22	7/5/2011	22	8/2/2011	20	9/6/2011	21	10/3/2011	21	11/8/2011	21	12/12/2011	21
	TDS (mg/L)	1320		1240		1220		1250		1370		1290		1330		1280		1300		1300		1320		1290		1330
	Chloride (mg/L)	143		NS		145		NA		143		143		145		148		148		145		145		145		148
	Selenium (ug/L)	71		NS		64.6		NA		65.2		NS		NS		NS		66.2		NS		68.8		NS		NS
	Field pH (S.U.)	6.5 - 8.5		6.65		7.21		7.43		7.01		6.73		6.16		6.64		6.67		7.03		7.28		7.01 (7.34)		7.46
	Sulfate (mg/L)	532		NS		538		531		503		512		540		532		537		541		539		552		530
MW-35 (Class II)	Manganese (ug/L)	200	NS	NA	2/15/2011	248	NS	NA	6/7/2011	369	NS	NA	NS	NA	7/20/11	348	8/30/2011	267	9/7/11	270	10/3/11	271	11/8/2011	283	12/14/11	247
	Thallium (ug/l)	0.5		NA		<0.50		NA		<0.50		NA		NA		NA		0.52		NA		<0.50		0.63		
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		2.6		NA		3.7		NA		NA		NA		4.5		NA		4.4		4.7		4.2
	Field pH (S.U.)	6.5 - 8.5		NA		7.17		NA		7.31		NA		NA		6.49		6.40		6.47		6.59		6.51		6.90
	Selenium (ug/L)	12.5		NA		ND		NA		ND		NA		NA		NA		9.3		NA		10.5		NA		NA
	Uranium (ug/L)	7.5		NA		12.7		NA		21.7		NA		NA		24.2		18.3		22.3		20.1		24		23.6
<b>Required Semi-Annual Sampling Wells</b>																										
MW-01 (Class II)	Tetrahydrofuran (ug/L)	11.5	NS	NA	NS	NA	NS	NA	4/19/2011	10.7	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	10/11/2011	7.82	NS	NA	NS	NA
	Chloride (mg/L)	22.1		NA		18		NA	NA	17		NA		NA												
	Field pH (S.U.)	6.77 - 8.5		NA		7.08 (7.51)		NA	NA	7.08 (7.51)		NA		NA												
	Sulfate (mg/L)	838		NA		704		NA	NA	713		NA		NA												
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	2/15/2011	40.5	NS	NA	4/13/2011	45.4	NS	NA	NS	NA	8/10/2011	46	NS	NA	10/10/2011	46.7	NS	NA	NS	NA	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		6.09		NA		6.46		NA		NA		6.32		NA		6.53 (6.83)		NA		NA		
	Beryllium (ug/L)	2		NA		<0.5		NA		NA		NA		NA		NA		NA		<0.5		NA		NA		
	Cadmium (ug/L)	4.67		NA		1.26		NA		NA		NA		NA		NA		1.01		NA		NA				
	Zinc (ug/L)	173.19		NA		104		NA		NA		NA		NA		NA		74		NA		NA				
	Sulfate (mg/L)	3663		NA		3060		NA		NA		NA		NA		NA		3470		NA		NA				
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		0.3		NA		NA		NA		NA		NA		0.3		NA		NA				
Fluoride (Mg/L)	0.68	NA	0.69	NA	0.68	NA	NA	NA	0.96	NA	0.91	NA														
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/16/2011	6.05	NS	NA	4/13/2011	6.58	NS	NA	NS	NA	8/11/2011	6.19	NS	NA	10/11/2011	6.5 (6.92)	NS	NA	NS	NA	NS	NA
	Sulfate (mg/L)	3640		NA		3350		NA		NA		3560		NA		3750		NA		NA						
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.2		NA		NA		NA		NA		1.1		NA		NA						
	TDS (mg/L)	5805		NA		5720		NA		NA		5630		NA		5630		NA		NA						
	Selenium (ug/L)	89		NA		99		NA		85.8		NA		88.5		95		NA		NA						
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	2/14/2011	29.5	NS	NA	4/12/2011	7.16	NS	NA	NS	NA	NS	NA	8/9/2011	0.5	NS	NA	10/10/2011	4.52	NS	NA	NS	NA
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	2/15/2011	39.0	NS	NA	4/5/2011	21.7	NS	NA	NS	NA	NS	NA	8/9/2011	25.4	NS	NA	10/6/2011	35.4	NS	NA	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		6.43		NA		6.67		NA		NA		6.13		6.7 (6.97)		NA		NA				
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	NS	NA	NS	NA	4/12/2011	116	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	10/10/2011	112	NS	NA	NS	NA
	Field pH (S.U.)	6.62 - 8.5		NA		NA		6.88		NA		NA		NA		NA		6.70		NA		NA				

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2011 Results						Q2 2011 Results						Q3 2011 Results						Q4 2011 Results					
			January 2011 Monthly Sample Date	January 2011 Monthly Sample Result	Q1 2011 Sample Date	Q1 2011 Result	March 2011 Monthly Sample Date	March 2011 Monthly Result	Q2 2011 Sample Date	Q2 2011 Result	May 2011 Monthly Sample Date	May 2011 Monthly Result	June 2011 Monthly Sample Date	June 2011 Monthly Result	July 2011 Monthly Sample Date	July 2011 Monthly Result	Q3 2011 Sample Date	Q3 2011 Result	September 2011 Monthly Sample Date	September 2011 Monthly Result	Q4 2011 Sample Date	Q4 2011 Result	November 2011 Monthly Sample Date	November 2011 Monthly Result	December 2011 Monthly Sample Date	December 2011 Monthly Result
Required Semi-Annual Sampling Wells, continued																										
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	2/15/2011	3.49	NS	NA	4/6/2011	3.74	NS	NA	NS	NA	8/10/2011 9/21/11	4.0 3.39	NS	NA	10/11/2011	3.83	NS	NA	NS	NA	NA	
	Sulfate (mg/L)	1938.9		NA		1770		1780		NA		1910		NA		2020		NA								
	Field pH (S.U.)	6.25-8.5		NA		6.27		6.71		NA		5.95 (6.30)		NA		6.55 (6.63)		NA								
	TDS (mg/L)	3198.77		NA		3250		3250		NA		3190		NA		3220		NA								
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	2/21/2011	6.78	NS	NA	4/5/2011	7.03	NS	NA	NS	NA	7/20/3011	6.63	NS	NA	10/12/2011	6.88 (7.02)	NS	NA	NS	NA	NA	
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NS		2.6		NA		NS		NA		4.0		NA								
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/9/2011	6.13	NS	NA	4/5/2011	7.14	NS	NA	NS	NA	8/4/2011	6.38	NS	NA	10/6/2011	6.56 (6.77)	NS	NA	NS	NA	NA	
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	2/10/2011	2.78	NS	NA	4/5/2011	2.61	NS	NA	NS	NA	8/4/2011	1.46	NS	NA	10/11/2011	1.78	NS	NA	NS	NA	NA	
	Fluoride (mg/L)	0.36		NA		0.19		NA		NA		NA		0.36		NA										
	Sulfate (mg/L)	2903		NA		2560		NA		NA		2500		NA		NA										
	Thallium (ug/L)	1		NA		1.07		NA		NA		<0.50		NA		0.62		NA								
	Field pH (S.U.)	6.5 - 8.5		NA		5.73		6.12		NA		6.65		NA		6.44		NA								
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/9/2011	6	NS	NA	4/5/2011	6.4	NS	NA	NS	NA	8/8/2011	6	NS	NA	10/5/2011	6.3	NS	NA	NS	NA	NA	
	Chloride (mg/L)	38		NA		43		NA		43		NA		44		NA										
	Sulfate (mg/L)	462		NA		442		NA		424		NA		456		NA										
	TDS (mg/L)	1075		NA		1090		NA		1090		NA		1110		NA										
	Gross Alpha minus Rn & U (pCi/L)	2		NA		0.7		1.1		NA		0.8		1.5		NA										
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	2/14/2011	114	NS	NA	4/11/2011	109	NS	NA	NS	NA	8/8/2011	105	NS	NA	10/5/2011	143	NS	NA	NS	NA	NA	
	Cadmium (ug/L)	5.2		NA		4.13		NA		3.99		NA		3.19		NA										
	Uranium (ug/L)	4.9		NA		3.29		NA		3.19		NA		<15.0		NA										
	Vanadium (ug/L)	30		NA		<15.0		NA		<15.0		NA		<15.0		NA										
	Field pH (S.U.)	6.1 - 8.5		NA		5.69		6.01		NA		5.78		NA		6.07 (6.11)		NA								
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	NS	NA	NS	NA	4/18/2011	4080	NS	NA	NS	NA	8/9/2011	NA	NS	NA	10/5/2011	4280	NS	NA	NS	NA	NA	
	Sulfate (mg/L)	2946		NA		2600		NA		2850		NA		2850		NA										
	Field pH (S.U.)	6.46 - 8.5		NA		6.45		NA		6.20		NA		6.52		NA										
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/9/2011	1.5	NS	NA	4/1/2011	4.6	NS	NA	NS	NA	8/2/2011 8/30/11	1.9	NS	NA	10/3/2011	3.7	NS	NA	NS	NA	NA	
	Chloride (mg/L)	35.39		NA		33		NA		NA		NA		34		NA										
	Field pH (S.U.)	6.4 - 8.5		NA		5.99		6.14		NA		6.10 (6.20)		NA		6.35		NA								

Notes:  
 GWCL values are taken from August 24, 2012 version of GWDP.  
 NS = Not Required and Not Sampled  
 NA = Not Analyzed  
 Exceedances are shown in yellow  
 Values in ( ) parentheses are the field pH measurements for the resampled analyses.

Table 3 – GWCL Exceedances for Second Quarter 2015 under the August 24, 2012 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2012 Results						Q2 2012 Results						Q3 2012 Results						Q4 2012 Results					
			January 2012 Monthly Sample Date	January 2012 Monthly Result	Q1 2012 Sample Date	Q1 2012 Result	March 2012 Monthly Sample Date	March 2012 Monthly Result	April 2012 Monthly Sample Date	April 2012 Monthly Result	Q2 2012 Sample Date	Q2 2012 Result	June 2012 Monthly Sample Date	June 2012 Monthly Result	Q3 2012 Sample Date	Q3 2012 Result	August 2012 Monthly Sample Date	August 2012 Monthly Result	September 2012 Monthly Sample Date	September 2012 Monthly Result	October 2012 Monthly Sample Date	October 2012 Monthly Result	Q4 2012 Sample Date	Q4 2012 Result	December 2012 Monthly Sample Date	December 2012 Monthly Result
<b>Required Quarterly Sampling Wells</b>																										
MW-11 (Class II)	Manganese (ug/L)	131.29	1/26/2012	102	2/13/2012	154	3/13/2012	121	4/10/2012	132	5/8/2012	127	6/19/2012	122	7/11/2012	135	8/7/2012	166	9/19/2012	130	10/23/2012	161	11/12/2012	138	12/24/2012	137
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/24/2012	6.36	2/21/2012	6.57	3/14/2012	6.51	4/12/2012	6.97	5/9/2012	6.73	6/19/2012	6.90	7/11/2012	6.89	8/7/2012	6.58	9/18/2012	7.08	10/23/2012	6.83	11/27/2012	6.52	12/18/2012	6.60
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/25/2012	6.63	2/14/2012	6.83	3/14/2012	6.55	4/9/2012	6.58	5/2/2012	6.73	6/18/2012	6.99	7/10/2012	6.88	8/6/2012	6.55	9/18/2012	6.54	10/22/2012	6.54	11/12/2012	6.47	12/24/2012	6.62
	Cadmium (ug/L)	1.5		NA		1.31		NA		1.33		NA		1.24		NA		6.01		NA		6.37		NA		
	Uranium (ug/L)	6.5		6.6		6.5		6.93		6.52		5.90		7.6		6.45		6.72		6.01		6.37		6.61		
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/25/2012	1.9	2/15/2012	1.2	3/14/2012	3	4/11/2012	3.4	5/7/2012 6/26/2012	2.9	6/19/2012	2.3	7/11/2012	1.9	8/8/2012	1.6	9/19/2012	1.8	10/24/2012	3.5	11/15/2012	0.55	12/24/2012	1.46
	Uranium (ug/L)	41.8		64.6	2/21/2012	59.4		31.2		42.2		18.2		66.0	28.4	67.4		64.9		26.9		56.8		51.3		
	Chloroform (ug/L)	70		1900	2/15/2012	3300		2900		2900		1700		2400	8/16/2012	970		2200		2300		4720		1250		
	Chloride (mg/L)	58.31		68	40	74		82		74		85		7/11/2012	78	78		67		2.62		52.9		65.9		
	Field pH (S.U.)	6.74 - 8.5		6.59	2/15/2012 2/21/2012 3/8/2012	6.72 (6.91) (6.71)		6.39		6.88		7.00 (7.01)		7.00	7/11/2012 8/16/2012	7.10 (6.80)		6.60		7.40		6.63		6.60		6.78
	Dichloromethane (Methylene Chloride) (ug/L)	5		13	2/15/2012	24		27		20		10		16	8/16/2012	4.9		17		9.8		15.0		34.6		5.5
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/24/2012	17	2/14/2012	17	3/14/2012	18	4/10/2012	17	5/2/2012	16	6/18/2012	15	7/10/2012	17	8/7/2012	18	9/19/2012	16	10/23/2012	16.2	11/13/2012	18.5	12/26/2012	17.2
	Chloride (mg/L)	128	124	126		128		128		124		128		131		128		139		130		135		114		122
	Uranium (ug/L)	8.32	NS	NA		7.42		8.38		7.84		6.81		7.8		7.64		8.04		7.67		7.86		7.03		5.80
	Field pH (S.U.)	6.50	1/24/2012	6.52		7.12		6.86		7.05		6.95		7.10		7.25		6.95		7.85		6.80		6.67		6.95
	Ammonia (mg/L)	0.14	NS	NA		<0.05		NA		NA		<0.05		NA		<0.05		NA		NA		NA		<0.05		NA
	Selenium (ug/L)	34	1/24/2012	33.3		35		39.5		39.1		32.3		37		38.5		38.4		41.9		45.2		36		31.6
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/24/2012	21	2/13/2012	21	3/13/2012	22	4/9/2012	21	5/2/2012	20	6/18/2012 6/29/2012	21.6	7/9/2012	21	8/6/2012	21	9/18/2012	21	10/22/2012	18	11/6/2012	23.6	12/18/2012	22.2
	TDS (mg/L)	1320		1360		1240		1400		1380		1410		1450		1400		1400		1460		1320		1230		1270
	Chloride (mg/L)	143		155		150		152		160		151		138		146		138		175		157		189		170
	Selenium (ug/L)	71		NS		67.8		NS		NS		NS		70.2		NS		74		NA		76.9		NA		NA
	Field pH (S.U.)	6.5 - 8.5		6.78		7.37		7.13		7.14		7.19		7.28 (7.63)		7.53		6.96		7.1		7.05		7.04		7.10
	Sulfate (mg/L)	532		539		538		517		547		532		497		529		571		561		545		557		664
MW-35 (Class II)	Manganese (ug/L)	200	1/24/2012	264	2/14/2012	253	3/13/2012	269	4/10/2012	277	5/2/2012	258	6/19/2012	304	7/10/2012	272	8/8/2012	273	9/19/2012	283	10/23/2012	253	11/13/2012	241	12/18/2012	240
	Thallium (ug/l)	0.5		<0.50		0.65		0.71		0.59		0.66		<0.50		0.57		0.61		0.54		0.517		0.554		0.5
	Gross Alpha minus Rn & U (pCi/L)	3.75		6.5		4.1		6.2		4.1		4.5		4.9		3.5		4.2		5.4		4.31		4.23		6.5
	Field pH (S.U.)	6.5 - 8.5		6.35		6.67		6.48		6.84		6.61		6.90		6.87		6.74		6.81		6.43		6.50		6.60
	Selenium (ug/L)	12.5		NA		19.7		NA		NA		11.4		7.0		15.9		18.8		8.2		19.0		15.4		12.1
	Uranium (ug/L)	7.5		16.1		24.7		24.9		22.4		22.2		22.5		24.5		26.2		22.9		21.8		21.8		21
<b>Required Semi-Annual Sampling Wells</b>																										
MW-01 (Class II)	Tetrahydrofuran (ug/L)	11.5	NS	NA	NS	NA	NS	NA	NS	NA	5/1/2012	10.3	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/27/2012	21.8	NS	NA
	Chloride (mg/L)	22.1		NA		NA		NA		18		NA		NA		NA		NA		18.5		NA				
	Field pH (S.U.)	6.77 - 8.5		NA		NA		NA		7.19		NA		NA		NA		NA		6.98		NA				
	Sulfate (mg/L)	838		NA		NA		NA		659		NA		NA		NA		NA		846		NA				
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	2/29/2012	43.1	NS	NA	NS	NA	5/14/2012	52.8	NS	NA	7/18/2012	51.1	NS	NA	NS	NA	NS	NA	11/28/2012	58.9	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		6.63		NA		6.67		NA		6.99		NA		NA		6.55		NA				
	Beryllium (ug/L)	2		NA		<0.5		NA		NA		NA		NA		NA		NA		<0.5		NA				
	Cadmium (ug/L)	4.67		NA		1.06		NA		NA		NA		NA		NA		0.954		NA						
	Zinc (ug/L)	173.19		NA		68		NA		NA		NA		NA		NA		46.1		NA						
	Sulfate (mg/L)	3663		NA		3140		NA		NA		NA		NA		NA		2340		NA						
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		0.4		NA		NA		NA		NA		NA		0.419		NA						
Fluoride (Mg/L)	0.68	NA	0.86	NA	NA	NA	1.04	NA	0.96	1.26	NA															
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/1/2012	6.46	NS	NA	NS	NA	5/15/2012	6.68	NS	NA	7/19/2012	7.01	NS	NA	NS	NA	NS	NA	11/29/2012	6.35	NS	NA
	Sulfate (mg/L)	3640		NA		3020		NA		3220		NA		3700		NA		2780		NA						
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		NA		1.1		NA		NA		NA		NA		1.31		NA				
	TDS (mg/L)	5805		NA		5690		NA		5730		NA		5720		NA		5610		NA						
	Selenium (ug/L)	89		NA		65.8		NA		85.1		NA		99.3		NA		111		NA						
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	2/28/2012	18.6	NS	NA	NS	NA	5/9/2012	1.23	NS	NA	7/16/2012	0.75	NS	NA	NS	NA	NS	NA	11/27/2012	0.402	NS	NA
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	2/29/2012	NA	NS	NA	NS	NA	5/10/2012	19.6	NS	NA	7/17/2012	20.7	NS	NA	NS	NA	NS	NA	11/27/2012	23.0	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		6.81		NA		6.91		NA		6.98		NA		6.54		NA						
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	2/22/2012	NA	NS	NA	NS	NA	5/9/2012	152	NS	NA	7/17/2012	120	NS	NA	NS	NA	NS	NA	11/14/2012	117	NS	NA
	Field pH (S.U.)	6.62 - 8.5		NA		6.84		NA		6.63		NA		7.05		NA		6.86		NA						

Q1 2012 Results									Q2 2012 Results						Q3 2012 Results						Q4 2012 Results						
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	January 2012 Monthly Sample Date	January 2012 Monthly Result	Q1 2012 Sample Date	Q1 2012 Result	March 2012 Monthly Sample Date	March 2012 Monthly Result	April 2012 Monthly Sample Date	April 2012 Monthly Result	Q2 2012 Sample Date	Q2 2012 Result	June 2012 Monthly Sample Date	June 2012 Monthly Result	Q3 2012 Sample Date	Q3 2012 Result	August 2012 Monthly Sample Date	August 2012 Monthly Result	September 2012 Monthly Sample Date	September 2012 Monthly Result	October 2012 Monthly Sample Date	October 2012 Monthly Result	Q4 2012 Sample Date	Q4 2012 Result	December 2012 Monthly Sample Date	December 2012 Monthly Result	
Required Semi-Annual Sampling Wells, continued																											
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	2/27/2012	3.63	NS	NA	NS	NA	4/30/2012	3.51	NS	NA	7/18/2012	3.73	NS	NA	NS	NA	NS	NA	11/26/2012	3.2	NS	NA	
	Sulfate (mg/L)	1938.9		NA		1920		NA		1790		NA		1900		NA		1210									
	Field pH (S.U.)	6.25-8.5		NA		6.6		NA		6.59		NA		6.64		NA		6.51									
	TDS (mg/L)	3198.77		NA		3230		NA		3280		NA		3220		NA		3160									
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	2/28/2012	6.83	NS	NA	NS	NA	5/16/2012	6.86	NS	NA	7/19/2012	7.21	NS	NA	NS	NA	NS	NA	12/13/2012	6.71	NS	NA	
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		3.9		NA		3.7		NA		4		NA		3.96									
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/20/2012	6.61	NS	NA	NS	NA	5/16/2012	6.74	NS	NA	7/17/2012	7.10	NS	NA	NS	NA	NS	NA	12/5/2012	6.61	NS	NA	
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	2/23/2012	2.25	NS	NA	NS	NA	5/10/2012	2.01	NS	NA	7/18/2012	4.7	NS	NA	NS	NA	NS	NA	11/29/2012	1.35	NS	NA	
	Fluoride (mg/L)	0.36		NA		NA		0.14		NA		NA		NA		0.558											
	Sulfate (mg/L)	2903		NA		NA		2490		NA		NA		NA		2310											
	Thallium (ug/L)	1		NA		0.96		NA		0.74		NA		1.36		NA		0.666									
	Field pH (S.U.)	6.5 - 8.5		NA		6.03		NA		6.21		NA		6.45		NA		6.01									
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/28/2012	6.4	NS	NA	NS	NA	5/1/2012	6.2	NS	NA	7/16/2012	6.7	NS	NA	NS	NA	NS	NA	11/13/2012	6.9	NS	NA	
	Chloride (mg/L)	38		NA		45		NA		46		NA		47		NA		44.2									
	Sulfate (mg/L)	462		NA		451		NA		446		NA		453		NA		451									
	TDS (mg/L)	1075		NA		1140		NA		1170		NA		1150		NA		1070									
	Gross Alpha minus Rn & U (pCi/L)	2		NA		2.3		NA		0.8		NA		1.2		NA		1.33									
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	2/28/2012	109	NS	NA	NS	NA	5/8/2012	114	NS	NA	7/16/2012 8/1/2012	105	NS	NA	NS	NA	NS	NA	11/14/2012	115	NS	NA	
	Cadmium (ug/L)	5.2		NA		NA		3.85		NA		NA		NA		4.37											
	Uranium (ug/L)	4.9		NA		NA		3.44		NA		NS		NA		3.45											
	Vanadium (ug/L)	30		NA		NA		<15.0		NA		NS		NA		<15.0											
	Field pH (S.U.)	6.1 - 8.5		NA		6.22		NA		6.15		NA		6.38 (5.81)		NA		5.98									
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	2/22/2012	NA	NS	NA	NS	NA	5/8/2012	4600	NS	NA	8/1/2012	4420	NS	NA	NS	NA	NS	NA	11/14/2012	4430	NS	NA	
	Sulfate (mg/L)	2946		NA		NA		2750		NA		NS		NA		1340											
	Field pH (S.U.)	6.46 - 8.5		NA		7.12		NA		6.47		NA		6.68 (6.45)		NA		6.48									
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/21/2012	1.8	NS	NA	NS	NA	4/30/2012	2.4	NS	NA	7/9/2012	1.4	NS	NA	NS	NA	NS	NA	11/6/2012	2.97	NS	NA	
	Chloride (mg/L)	35.39		NA		NA		33		NA		NA		32.1													
	Field pH (S.U.)	6.4 - 8.5		NA		6.57		NA		6.40		NA		6.72		NA		6.23									

Notes:  
 GWCL values are taken from August 24, 2012 version of GWDP.  
 NS = Not Required and Not Sampled  
 NA = Not Analyzed  
 Exceedances are shown in yellow  
 Values in () parentheses are the field pH measurements for the resampled analyses.

Table 3 – GWCL Exceedances for Second Quarter 2013 under the August 24, 2012 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2013 Results						Q2 2013 Results						Q3 2013 Results						Q4 2013 Results							
			January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result	June 2013 Monthly Sample Date	June 2013 Monthly Result	Q3 2013 Sample Date	Q3 2013 Result	August 2013 Monthly Sample Date	August 2013 Monthly Result	September 2013 Monthly Sample Date	September 2013 Monthly Result	October 2013 Monthly Sample Date	October 2013 Monthly Result	Q4 2013 Sample Date	Q4 2013 Result	December 2013 Monthly Sample Date	December 2013 Monthly Result		
<b>Required Quarterly Sampling Wells</b>																												
MW-11 (Class II)	Manganese (ug/L)	131.29	1/23/2013	115	2/20/2013	139	3/20/2013	164	4/16/2013	181	5/14/2013	144	6/25/2013	135	7/10/2013	138	8/20/2013	158	9/18/2013	134	10/22/2013	129	11/19/2013	152	12/18/2013	196		
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/23/2013	6.48	2/26/2013	6.52	3/20/2013	6.48	4/16/2013	7.58	5/14/2013	7.39	6/25/2013	6.54	7/11/2013	6.47	8/20/2013	6.86	9/19/2013	6.48	10/22/2013	6.77	11/20/2013	6.51	12/18/2013	6.74		
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/22/2013	6.65	2/20/2013	6.62	3/19/2013	6.41	4/17/2013	7.00	5/14/2013	7.19	6/24/2013	6.61	7/10/2013	6.32	8/19/2013	6.74	9/17/2013	6.54	10/22/2013	6.81	11/19/2013	6.62	12/17/2013	6.73		
	Cadmium (ug/L)	1.5		NA		1.35		1.40		1.36		1.52		1.41		1.41		1.31		1.41		1.57		1.31		1.31	1.50	1.23
	Uranium (ug/L)	6.5		5.97		5.39		5.68		5.56		5.88		5.35		6.22		6.42		5.99		5.94		7.13		NA		
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/24/2013	1.66	2/20/2013	1.38	3/20/2013	1.61	4/17/2013	1.73	5/23/2013	2.01	6/5/2013 6/25/2013	3.04 2.11*	7/11/2013	1.98	8/20/2013	1.77	9/18/2013	3.60	10/23/2013	4.10	11/20/2013	1.38	12/18/2013	2.56		
	Uranium (ug/L)	41.8		65.7		57.8		69		58.8		64.3		71.3		70		72.3		19.9		58.8		75.8		70.4		
	Chloroform (ug/L)	70		1270		1500		1340		1680		1210		4030*		2410		2110		4170		3420		1220		1680		
	Chloride (mg/L)	58.31		63.5		77		73.6		70.4		63.1		6/5/2013 6/25/2013		87.8 77.9*		72.1		70.8		77.3		63.8		62.3	65.7	
	Field pH (S.U.)	6.74 - 8.5		6.51		6.71		6.70		6.96		7.31		6.85		6.43		6.43		7.41		6.71		6.82		6.83	6.93	
	Dichloromethane (Methylene Chloride) (ug/L)	5		6.49		5.53		8.31		10.2		4.07		52.4* [12.1]		14.2		14.6		42.4		29.8		7.64		7.48		
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/23/2013	19.2	2/26/2013	21.4	3/20/2013	14.3	4/17/2013	16.8	5/15/2013	18.8	6/25/2013	16.1	7/10/2013	17.6	8/20/2013	16.4	9/18/2013	16.9	10/22/2013	19.7	11/20/2013	19.5	12/18/2013	20.7		
	Chloride (mg/L)	128		128		129		126		117		119		127		126		131		126		128		124		134		
	Uranium (ug/L)	8.32		8.36		7.4		6.85		7.08		6.31		8.22		7.48		7.07		7.00		6.91		8.57		NA		
	Field pH (S.U.)	6.50		6.88		6.93		6.91		7.42		7.54		6.93		6.87		7.06		6.78		6.96		6.84		7.10		
	Ammonia (mg/L)	0.14		NA		<0.05		NA		NA		<0.05		NA		<0.05		NA		NA		<0.05		NA		NA		
	Selenium (ug/L)	34		37.2		42.3		39		37.3		39.4		32.1		36.5		36.3		35.2		39.5		36.6		35.1		
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/22/2013	22.8	2/19/2013	19.3	3/19/2013	19.1	4/16/2013	18.8	5/13/2013	23.8	6/24/2013	20.0	7/9/2013	21.7	8/19/2013	16.0	9/17/2013	21.2	10/23/2013	21.2	11/18/2013	23.9	12/17/2013	24.2		
	TDS (mg/L)	1320		1270		1390		1420		1260		1540		1380		1510		1440		1500		1460		1320		1500		
	Chloride (mg/L)	143		176		174		168		171		169		179		182		183		193		188		174		203		
	Selenium (ug/L)	71		NS		74.1		81.8		72.9		75.9		73.7		75.7		73.2		72.6		80.7		74.5		79.8		
	Field pH (S.U.)	6.5 - 8.5		6.94		7.32		7.28		6.37		7.92		7.10		6.98		7.36		7.06		7.35		6.99		7.23		
	Sulfate (mg/L)	532		611		644		611		668		630		659		659		656		666		637		609		656		
MW-35 (Class II)	Manganese (ug/L)	200	1/23/2013	247	2/26/2013	272	3/19/13	246	4/17/2013	243	5/13/2013	252	6/24/2013	243	7/9/2013	250	8/19/2013	262	9/17/2013	257	10/23/2013	240	11/19/2013	251	12/17/2013	260		
	Thallium (ug/l)	0.5		<0.5		<0.5		0.505		<0.5		0.715		0.946		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		
	Gross Alpha minus Rn & U (pCi/L)	3.75		6.62		5.09		9.51		4.75		4.92		3.24		5.70		3.92		5.10		3.73		5.39		4.74		
	Field pH (S.U.)	6.5 - 8.5		6.54		6.68		6.43		6.96		7.33		6.70		6.51		7.02		6.50		6.83		6.52		6.73		
	Selenium (ug/l)	12.5		11.0		10.8		22.6		11.8		16.1		13.6		8.01		<5		<5		19.8		<5		<5		
	Uranium (ug/l)	7.5		23.6		21.3		22.1		20.0		22.0		19.3		23.0		21.4		20.2		21.8		24.1		20		
<b>Required Semi-Annual Sampling Wells</b>																												
MW-01 (Class II)	Tetrahydrofuran (ug/L)	11.5	NS	NA	3/12/2013	12.6	NS	NA	NS	NA	5/21/2013	3.26	NS	NA	7/23/2013	1.86	NS	NA	NS	NA	NS	NA	12/4/2013	5.51	NS	NA		
	Chloride (mg/L)	22.1		NA		NA		17.8		NA		NA		7.04		NA		NA		NA		18.7		NA				
	Field pH (S.U.)	6.77 - 8.5		NA		6.77		NA		7.57		NA		7.04		NA		NA		7.04		NA		7.04		NA		
	Sulfate (mg/L)	838		NA		761		NA		839		NA		911		NA		NA		930		NA		NA				
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	3/12/2013	51.8	NS	NA	NS	NA	5/22/2013	46.3	NS	NA	7/18/2013	52.0	NS	NA	NS	NA	NS	NA	12/11/2013	32.8	NS	NA		
	Field pH (S.U.)	6.5 - 8.5		NA		6.20		NA		7.14		NA		6.46		NA		NA		6.78		NA		6.78		NA		
	Beryllium (ug/L)	2		NA		NA		NA		<0.5		NA		NA		NA		NA		<0.5		NA		NA		NA		
	Cadmium (ug/L)	4.67		NA		NA		1.42		NA		NA		NA		NA		NA		<0.5		NA		NA		NA		
	Zinc (ug/L)	173.19		NA		NA		72.1		NA		NA		NA		NA		NA		20.3		NA		NA		NA		
	Sulfate (mg/L)	3663		NA		NA		2180		NA		NA		NA		NA		NA		3760		NA		NA		NA		
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		0.456		NA		NA		NA		NA		NA		1.21		NA		NA		NA		
Fluoride (Mg/L)	0.68	NA	0.902	NA	0.994	NA	1.18	NA	NA	1.28	NA	NA	NA															
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/13/2013	6.84	NS	NA	NS	NA	5/23/2013	7.10	NS	NA	7/19/2013	6.50	NS	NA	NS	NA	NS	NA	12/11/2013	6.98	NS	NA		
	Sulfate (mg/L)	3640		NA		3480		NA		3120		NA		3670		NA		NA		3360		NA		NA				
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.22		NA		1.11		NA		1.09		NA		NA		1.52		NA		NA				
	TDS (mg/L)	5805		NA		5750		NA		6020		NA		5860		NA		5940		NA		NA		NA				
	Selenium (ug/L)	89		NA		88.7		NA		75.6		NA		79.7		NA		77.9		NA		NA		NA				
MW-05 (Class II)	Uranium (ug/l)	7.5	NS	NA	3/11/2013	36	NS	NA	NS	NA	5/14/2013	1.33	NS	NA	7/18/2013	0.574	NS	NA	NS	NA	NS	NA	12/4/2013	20.1	NS	NA		
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	3/6/2013	19.6	NS	NA	NS	NA	5/15/2013	19	NS	NA	7/17/2013	20.5	NS	NA	NS	NA	NS	NA	12/9/2013	21.7	NS	NA		
	Field pH (S.U.)	6.5 - 8.5		NA		6.56		NA		7.19		NA		6.60		NA		6.69		NA		6.69		NA				
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	3/5/2013	137	NS	NA	NS	NA	5/15/2013	120	NS	NA	7/18/2013	100	NS	NA	NS	NA	NS	NA	11/20/2013	106	NS	NA		
	Field pH (S.U.)	6.62 - 8.5		NA		6.75		NA		7.27		NA		6.68		NA		6.61		NA		6.61		NA				

Q1 2013 Results				Q2 2013 Results				Q3 2013 Results				Q4 2013 Results																										
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result	June 2013 Monthly Sample Date	June 2013 Monthly Result	Q3 2013 Sample Date	Q3 2013 Result	August 2013 Monthly Sample Date	August 2013 Monthly Result	September 2013 Monthly Sample Date	September 2013 Monthly Result	October 2013 Monthly Sample Date	October 2013 Monthly Result	Q4 2013 Sample Date	Q4 2013 Result	December 2013 Monthly Sample Date	December 2013 Monthly Result												
Required Semi-Annual Sampling Wells, continued																																						
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	2/25/2013	3.26	NA	NS	NA	NS	NA	2.81	NA	NS	NA	3.33	NA	NS	NA	NS	NA	NA	12/3/2013	3.06	NA	NS	NA											
	Sulfate (mg/L)	1938.9		NA		1270	NA		NA		1860	NA	NA		1860	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	2000	NA	NA	NA	NA		
	Field pH (S.U.)	6.25-8.5		NA		6.35	NA		NA		6.97	NA	NA		5/20/2013	6.97	6.45		NA		7/15/2013	6.45		NA	NA		NA	NA	NA	NA	NA	NA	6.38	NA	NA	NA	NA	
	TDS (mg/L)	3198.77		NA		3350	NA		NA		3160	NA	NA		NA	3170	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	3240	NA	NA	NA	NA	
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	3/13/2013	6.30	NA	NS	NA	NS	NA	7.16	NA	NS	NA	6.91	NA	NS	NA	NS	NA	NA	12/3/2013	6.58	NA	NS	NA	NA										
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		3.61	NA		NA		4.21	NA	NA		7/15/2013	3.66	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	3.70	NA	NA	NA	NA		
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/11/2013	6.37	NA	NS	NA	NS	NA	7.23	NS	NA	7/18/2013	6.61	NS	NA	NS	NA	NS	NA	12/18/2013	7.21	NS	NA	NA	NA										
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	3/13/2013	2.0	NA	NS	NA	NS	NA	1.32	NA	NS	NA	6.72	NA	NS	NA	NS	NA	NA	12/12/2013	1.15	NA	NS	NA	NA										
	Fluoride (mg/L)	0.36		NA		0.355	NA		NA		0.211	NA	NA		0.288	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	0.310	NA	NA	NA	NA		
	Sulfate (mg/L)	2903		NA		NA	NA		2070		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	2490	NA	NA	NA	NA	
	Thallium (ug/L)	1		NA		0.88	NA		0.618		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	0.707	NA	NA	NA	NA	
	Field pH (S.U.)	6.5 - 8.5		NA		6.29	NA		6.77		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	NA	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/25/2013	7.94	NA	NS	NA	NS	NA	7.09	NA	NS	NA	6.97	NA	NS	NA	NS	NA	NA	12/4/2013	7.89	NA	NS	NA	NA										
	Chloride (mg/L)	38		NA		50.3	NA		NA		44.3	NA	NA		44.2	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	45.0	NA	NA	NA	NA		
	Sulfate (mg/L)	462		NA		431	NA		NA		497	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	442	NA	NA	NA	NA	
	TDS (mg/L)	1075		NA		1140	NA		NA		1110	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	1100	NA	NA	NA	NA	
	Gross Alpha minus Rn & U (pCi/L)	2		NA		<1.0	NA		NA		1.57	NA	NA		NA	NA	NA		NA		NA	NA		<1.00	NA		NA	NA	NA	NA	NA	NA	NA	1.28	NA	NA	NA	NA
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	3/5/2013	110	NA	NS	NA	NS	NA	102	NA	NS	NA	107	NA	NS	NA	NS	NA	NA	12/4/2013	109	NA	NS	NA	NA										
	Cadmium (ug/L)	5.2		NA		NA	NA		4.61		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	4.74	NA	NA	NA	NA	
	Uranium (ug/L)	4.9		NA		NA	NA		3.58		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	3.34	NA	NA	NA	NA	
	Vanadium (ug/L)	30		NA		NA	NA		<15.0		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	NA	NA	<15.0	NA	NA	NA	NA
	Field pH (S.U.)	6.1 - 8.5		NA		6.00	NA		6.63		NA	NA	NA		NA	NA	6.63		NA		NA	NA		3.97	NA		NA	NA	NA	NA	NA	NA	6.10	NA	NA	NA	NA	NA
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	3/6/2013	4500	NA	NS	NA	NS	NA	4340	NA	NS	NA	4270	NA	NS	NA	NS	NA	NA	11/20/2013	4370	NA	NS	NA	NA										
	Sulfate (mg/L)	2946		NA		NA	NA		2450		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	2750	NA	NA	NA	NA		
	Field pH (S.U.)	6.46 - 8.5		NA		6.36	NA		6.88		NA	NA	NA		NA	6.88	NA		NA		NA	NA		6.37	NA		NA	NA	NA	NA	NA	NA	6.35	NA	NA	NA	NA	
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/19/2013	5.02	NA	NS	NA	NS	NA	3.72	NA	NS	NA	6.46	NA	NS	NA	NS	NA	NA	11/18/2013	1.86	NA	NS	NA	NA										
	Chloride (mg/L)	35.39		NA		NA	NA		32.3		NA	NA	NA		NA	NA	NA		NA		NA	NA		NA	NA		NA	NA	NA	NA	NA	33.7	NA	NA	NA	NA		
	Field pH (S.U.)	6.4 - 8.5		NA		6.52	NA		7.10		NA	NA	NA		NA	7.10	NA		NA		NA	NA		6.39	NA		NA	NA	NA	NA	NA	NA	6.29	NA	NA	NA	NA	

Notes:

GWCL values are taken from August 24, 2012 version of GWDP.

NS = Not Required and Not Sampled

NA = Not Analyzed

NA = Not Available

NA = Not Applicable

Exceedances are shown in yellow

Values in () parentheses are the field pH measurements for the resampled analyses.

Table 3 – GWCL Exceedances for Second Quarter 2015 under the August 24, 2012 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2014 Results						Q2 2014 Results						Q3 2014 Results						Q4 2014 Results					
			January 2014 Monthly Sample Date	January 2014 Monthly Result	February 2014 Monthly Sample Date	February 2014 Monthly Result	Q1 2014 Sample Date	Q1 2014 Result	April 2014 Monthly Sample Date	April 2014 Monthly Result	May 2014 Monthly Sample Date	May 2014 Monthly Result	Q2 2014 Sample Date	Q2 2014 Result	July 2014 Monthly Sample Date	July 2014 Monthly Result	August 2014 Monthly Sample Date	August 2014 Monthly Result	Q3 2014 Sample Date	Q3 2014 Result	October 2014 Monthly Sample Date	October 2014 Monthly Result	Q4 2014 Sample Date	Q4 2014 Result	December 2014 Monthly Sample Date	December 2014 Monthly Result
Required Quarterly Sampling Wells																										
MW-11 (Class II)	Manganese (ug/L)	131.29	1/8/2014	141	2/24/2014	163	3/11/2014	134	4/25/2014	136	5/14/2014	128	6/3/2014	166	7/29/2014	139	8/20/2014	139	9/8/2014	74.0	10/6/2014	157	11/17/2014	125	12/10/2014	186
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/8/2014	6.60	2/24/2014	6.16	3/11/2014	6.33	4/23/2014	6.84	5/13/2014	6.60	6/3/2014	7.63	7/28/2014	6.44	8/20/2014	7.07	9/2/2014	6.41	10/7/2014	6.46	11/12/2014	6.25	12/10/2014	6.40
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/7/2014	6.37	2/13/2014	6.10	3/10/2014	6.27	4/28/2014	7.18	5/13/2014	6.80	6/2/2014	6.74	7/28/2014	6.36	8/18/2014	7.17	9/3/2014	6.50	10/6/2014	6.49	11/4/2014	6.31	12/9/2014	6.36
	Cadmium (ug/L)	1.5		1.29		1.29		1.29		1.24		1.30		1.30		1.30		1.41		1.57		1.27				
	Uranium (ug/L)	6.5		NA		5.83		6.26		10.6		7.43		6.07		5.9		6.1		6.0		6.04		5.75		
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/8/2014	2.42	2/24/2014	2.12	3/12/2014	1.30	4/30/2014	1.20	5/14/2014	1.64	6/5/2014	1.42	7/29/2014	2.0	8/20/2014	1.00	9/4/2014	1.10	10/7/2014	0.704	11/18/2014	1.09	12/10/14 12/15/14	<0.100
	Uranium (ug/L)	41.8		81.7		72.2		51.8		96.0		90.6		75.0		86.5		74.4		48.4		75.4		66.0		42.5
	Chloroform (ug/L)	70		1580		2810		2800		1310		1580		1450		2330		2200		1580		894		1520		2200
	Chloride (mg/L)	58.31		69.7		70.4		61.0		62.1		61.0		63.2		80.0		59.0		68.0		57.7		54.2		65.5
	Field pH (S.U.)	6.74 - 8.5		6.80		6.78		6.50		7.19		7.13		6.78		6.60		7.28		6.67		6.85		6.09		6.25 (6.44)
	Dichloromethane (Methylene Chloride) (ug/L)	5		6.52		25.8		15.5		5.54		10.2		6.73		9.6		43.3		10.9		3.78		7.34		28.4
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/8/2014	20.3	2/25/2014	18.4	3/11/2014	21.3	4/23/2014	18.3	5/14/2014	17.9	6/3/2014	19.4	7/29/2014	15.6	8/20/2014	13.8	9/9/2014	16.8	10/7/2014	11.0	11/10/2014	16.2	12/10/2014	17.1
	Chloride (mg/L)	128		131		135		144		154		128		140		136		136		154		138				
	Uranium (ug/L)	8.32		NA		6.83		7.84		6.84		9.82		7.35		7.40		7.70		7.65		7.67				
	Field pH (S.U.)	6.50		6.74		6.80		6.56		7.06		6.88		6.89		6.76		6.82		6.92		6.22		6.77		
	Ammonia (mg/L)	0.14		NA		NA		<0.05		NA		NA		<0.05		NA		<0.05		NA		0.30		NA		
	Selenium (ug/L)	34		35.6		35.8		38.0		32.8		37.0		35.4		42.9		48.5		53.6		38.9		36.8		37.5
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/7/2014	24.0	2/17/2014	20.6	3/10/2014	26.2	4/28/2014	19.1	5/13/2014	23.3	6/2/2014	23.1	7/28/2014	19.0	8/18/2014	15.2	9/3/2014	18.9	10/6/2014	15.9	11/14/2014	20.9	12/9/2014	17.0
	TDS (mg/L)	1320		1510		1460		1490		1440		1510		1520		1400		1460		1420		1520		1450		
	Chloride (mg/L)	143		194		197		230		230		200		173		200		210		210		204		215		
	Selenium (ug/L)	71		74.4		75.8		77.2		85.4		74.5		69.4		77.9		82.8		81.5		73.0		71.1		
	Field pH (S.U.)	6.5 - 8.5		7.13		6.45		6.53		7.45		6.83		8.23		6.88		7.60		6.94		6.97		6.73		
	Sulfate (mg/L)	532		558		480		681		527		639		555		600		620		560		606		687		
MW-35 (Class II)	Manganese (ug/L)	200	1/8/2014	252	2/11/2014	247	3/11/14	204	4/25/2014	194	5/14/2014	249	6/4/2014	202	7/29/2014	212	8/20/2014	191	9/3/2014	177	10/6/2014	228	11/12/2014	222	12/9/2014	232
	Thallium (ug/l)	0.5		0.535		<0.5		<0.5		0.582		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5		
	Gross Alpha minus Rn & U (pCi/L)	3.75		4.12		3.98		4.33		2.95		3.67		3.36		3.09		4.70		3.93		3.92		4.54		
	Field pH (S.U.)	6.5 - 8.5		6.54		6.07		6.32		6.79		7.10		6.83		6.55		7.07		6.46		6.54		6.25		
	Selenium (ug/L)	12.5		8.95		12.3		14.1		18.6		17.0		13.9		13.2		28.9		31.4		15.5		7.5		
	Uranium (ug/L)	7.5		20.8		20.6		21.5		30.6		26.9		21.9		26.5		20.3		23.6		23.9		20.3		
Required Semi-Annual Sampling Wells																										
MW-01 (Class II)	Tetrahydrofuran (ug/L)	11.5	NS	NA	NS	NA	2/20/2014	3.25	NS	NA	NS	NA	5/28/2014	3.39	NS	NA	NS	NA	9/10/2014	NS	NS	NA	11/17/2014	<1.0	NS	NA
	Chloride (mg/L)	22.1		NA		NA		NA		20.4		NA		NA		NA		NA		19		NA				
	Field pH (S.U.)	6.77 - 8.5		NA		NA		NA		6.61		NA		NA		NA		7.11		NA		6.87		NA		
	Sulfate (mg/L)	838		NA		NA		NA		836		NA		NA		NA		909		NA		920		NA		
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	NS	NA	2/26/2014	37.0	NS	NA	NS	NA	5/30/2014	69.5	NS	NA	NS	NA	9/16/2014	94.0	NS	NA	11/17/2014	62.4	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		NA		6.23		NA		NA		6.56		NA		6.13		NA		6.37		NA		
	Beryllium (ug/L)	2		NA		NA		NA		<0.5		NA		NA		NA		NA		<0.5		NA		NA		
	Cadmium (ug/L)	4.67		NA		NA		NA		1.7		NA		NA		NA		NA		2		NA				
	Zinc (ug/L)	173.19		NA		NA		NA		94.5		NA		NA		NA		NA		98.3		NA				
	Sulfate (mg/L)	3663		NA		NA		NA		3460		NA		NA		NA		3120		3800		NA				
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		NA		0.573		NA		NA		NA		0.6		NA		0.330		NA		
Fluoride (Mg/L)	0.68	NA	NA	0.771	NA	NA	1.02	NA	1.0	NA	1.08	NA														
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	NS	NA	3/5/2014	6.58	NS	NA	NS	NA	5/30/2014	6.60	NS	NA	NS	NA	9/17/2014	6.40	NS	NA	11/12/2014	6.41	NS	NA
	Sulfate (mg/L)	3640		NA		NA		3100		NA		NA		3830		NA		3350		NA		3770		NA		
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		0.849		NA		NA		0.97		NA		1.0		NA		1.11		NA		
	TDS (mg/L)	5805		NA		NA		5600		NA		NA		5790		NA		5460		5370		NA				
	Selenium (ug/L)	89		NA		NA		92.1		NA		NA		104		NA		129		88.5		NA				
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	NS	NA	2/12/2014	22.0	NS	NA	NS	NA	6/4/2014	2.42	NS	NA	NS	NA	9/11/2014	0.90	NS	NA	11/12/2014	36.20	NS	NA
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	NS	NA	2/12/2014	23.7	NS	NA	NS	NA	6/4/2014	17.20	NS	NA	NS	NA	9/16/2014	NA	NS	NA	11/11/2014	33.30	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		NA		6.13		NA		NA		7.10		NA		6.47		NA		6.25		NA		
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	NS	NA	2/25/2014	110	NS	NA	NS	NA	6/4/2014	105	NS	NA	NS	NA	9/2/2014	273	NS	NA	11/12/2014	106	NS	NA
	Field pH (S.U.)	6.62 - 8.5		NA		NA		6.51		NA		NA		6.91		NA		6.38		NA		6.41		NA		

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2014 Results						Q2 2014 Results						Q3 2014 Results						Q4 2014 Results					
			January 2014 Monthly Sample Date	January 2014 Monthly Result	February 2014 Monthly Sample Date	February 2014 Monthly Result	Q1 2014 Sample Date	Q1 2014 Result	April 2014 Monthly Sample Date	April 2014 Monthly Result	May 2014 Monthly Sample Date	May 2014 Monthly Result	Q2 2014 Sample Date	Q2 2014 Result	April 2014 Monthly Sample Date	April 2014 Monthly Result	May 2014 Monthly Sample Date	May 2014 Monthly Result	Q3 2014 Sample Date	Q3 2014 Result	October 2014 Monthly Sample Date	October 2014 Monthly Result	Q4 2014 Sample Date	Q4 2014 Result	December 2014 Monthly Sample Date	December 2014 Monthly Result
Required Semi-Annual Sampling Wells, continued																										
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	NS	NA	2.77	NS	NA	NS	NA	2.42	NS	NA	NS	NA	2.7	NS	NA	NS	NA	2.88	NS	NA	NS	NA
	Sulfate (mg/L)	1938.9		NA		1650	NA		2020		NA	1760		NA		1810										
	Field pH (S.U.)	6.25-8.5		NA		2/19/2014	6.16		NA		5/27/2014	7.04		NA		9/9/2014	6.40		NA		11/10/2014	6.10		NA		
	TDS (mg/L)	3198.77		NA		3080	NA		3260		NA	3180		NA		2960										
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	NS	NA	6.29	NS	NA	NS	NA	7.38	NS	NA	NS	NA	6.46	NS	NA	NS	NA	6.33	NS	NA	NS	NA
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		2/18/2014	3.82		NA		5/27/2014	3.68		NA		9/11/2014	0.4		NA		11/11/2014	2.91		NA		
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	NS	NA	6.52	NS	NA	NS	NA	6.67	NS	NA	NS	NA	6.56	NS	NA	NS	NA	6.69	NS	NA	NS	NA
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	NS	NA	5.92	NS	NA	NS	NA	2.91	NS	NA	NS	NA	1.5	NS	NA	NS	NA	1.17	NS	NA	NS	NA
	Fluoride (mg/L)	0.36		NA		0.234	NA		0.337		NA	0.4		NA		0.109										
	Sulfate (mg/L)	2903		NA		NA	2450		NA		NA	3120		NA		NA										
	Thallium (ug/L)	1		NA		1.85	NA		1.33		NA	0.6		NA		0.821										
	Field pH (S.U.)	6.5 - 8.5		NA		5.89	NA		6.07		NA	5.89		NA		5.69										
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	NS	NA	7.98	NS	NA	NS	NA	7.35	NS	NA	NS	NA	6.30	NS	NA	NS	NA	7.70	NS	NA	NS	NA
	Chloride (mg/L)	38		NA		47.0	NA		45.9		NA	46.0		NA		42.6										
	Sulfate (mg/L)	462		NA		411	NA		484		NA	414		NA		419										
	TDS (mg/L)	1075		NA		1040	NA		1040		NA	1020		NA		1090										
	Gross Alpha minus Rn & U (pCi/L)	2		NA		1.08	NA		2.33		NA	1.16		NA		<1.0										
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	NS	NA	113	NS	NA	NS	NA	114	NS	NA	NS	NA	112	NS	NA	NS	NA	117	NS	NA	NS	NA
	Cadmium (ug/L)	5.2		NA		NA	5.41		NA		4.7	NA		4.15												
	Uranium (ug/L)	4.9		NA		NA	61.3		NA		10.6	NA		21.2												
	Vanadium (ug/L)	30		NA		NA	109		NA		18.5	NA		29.3												
	Field pH (S.U.)	6.1 - 8.5		NA		6.01	NA		6.78		NA	5.79		NA		5.72										
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	NS	NA	4500	NS	NA	NS	NA	4200	NS	NA	NS	NA	4280	NS	NA	NS	NA	4210	NS	NA	NS	NA
	Sulfate (mg/L)	2946		NA		NA	2510		NA		NA	2760		NA		2760										
	Field pH (S.U.)	6.46 - 8.5		NA		6.78	NA		7.98		NA	6.10		NA		6.11										
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	NS	NA	1.94	NS	NA	NS	NA	4.35	NS	NA	NS	NA	3.69	NS	NA	NS	NA	2.56	NS	NA	NS	NA
	Chloride (mg/L)	35.39		NA		NA	35.6		NA		NA	33.3		NA		33.3										
	Field pH (S.U.)	6.4 - 8.5		NA		6.15	NA		6.64		NA	6.17		NA		6.08										

Notes:

GWCL values are taken from August 24, 2012 version of GWDP.

NS = Not Required and Not Sampled

NR = Required and Not Reported

NA = Not Applicable

Exceedances are shown in yellow

Values in () parentheses are the field pH measurements for the resampled analyses.

Values in ( ) parentheses are the field pH measurements for the resampled analyses.

Table 3 – GWCL Exceedances for Second Quarter 2015 under the August 24, 2012 GWDP

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2015 Results						Q2 2015 Results						Sample Frequency	
			January 2015 Monthly Sample Date	January 2015 Monthly Result	Q1 2015 Sample Date	Q1 2015 Result	March 2015 Monthly Sample Date	March 2015 Monthly Result	Q2 2015 Sample Date	Q2 2015 Result	May 2015 Monthly Sample Date	May 2015 Monthly Result	June 2015 Monthly Sample Date	June 2015 Monthly Result		
<b>Required Quarterly Sampling Wells</b>																
MW-11 (Class II)	Manganese (ug/L)	131.29	1/21/2015	177	2/3/2015	138	3/3/2015	149	4/8/2015	170	5/11/2015	123	6/23/2015	149	Quarterly	
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/21/2015	6.49	2/3/2015	6.44	3/5/2015	6.05	4/8/2015	6.55	5/11/2015	6.30	6/1/2015	6.65	Quarterly	
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/20/2015	6.19	2/4/2015	6.46	3/4/2015	6.32	4/7/2015	6.52	5/11/2015	6.46	6/1/2015	6.59, 6.53	Quarterly	
	Cadmium (ug/L)	1.5		1.33		1.37		1.27		1.38		6/23/2015	1.42	Quarterly		
	Uranium (ug/L)	6.5		6.81		6.43		5.86		6.38		5.88	Quarterly			
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/21/2015	0.30	2/11/2015	2.68	3/4/2015	0.965	4/9/2015	0.845	5/12/2015	0.606	6/24/2015	0.588	Quarterly	
	Uranium (ug/L)	41.8		2.96		78.1		72.6		75.7		63.3		67.4	Quarterly	
	Chloroform (ug/L)	70		3570		1190		1020		1520		1160		2610	Quarterly	
	Chloride (mg/L)	58.31		59.9		77.2		67.2		61.0		61.4		60.8	Quarterly	
	Field pH (S.U.)	6.74 - 8.5		6.25		6.20		6.23		6.60		6.46		6/3/2015	6.58, 6.20	Quarterly
	Dichloromethane (Methylene Chloride) (ug/L)	5		6.42		5.89		6.95		3.99		4.44		6/24/2015	9.38	Quarterly
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/21/2015	19.5	2/4/2015	14.9	3/3/2015	17.3	4/8/2015	17	5/12/2015	16.1	6/24/2015	15.8	Quarterly	
	Chloride (mg/L)	128		144		136		132		142		145		142	Quarterly	
	Uranium (ug/L)	8.32		8.06		8.23		8.35		7.45		8.38		7.46	Quarterly	
	Field pH (S.U.)	6.50		6.41		6.59		6.32		6.67		6.76		6/2/2015	6.94, 6.32	Quarterly
	Ammonia (mg/L)	0.14		NS		<0.05		<0.05		0.0960		0.0824		0.0997	Quarterly	
	Selenium (ug/L)	34		37.2		40.9		38.0		37.3		35.7		37.2	Quarterly	
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/20/2015	20.9	2/2/2015	18.7	3/3/2015	19.8	4/7/2015	19.0	5/11/2015	18.4	6/23/2015	18.0	Quarterly	
	TDS (mg/L)	1320		1540		1520		1530		1680		1700		1630	Quarterly	
	Chloride (mg/L)	143		226		211		209		211		225		228	Quarterly	
	Selenium (ug/L)	71		75.6		79.2		76.2		75.7		71.6		74.4	Quarterly	
	Field pH (S.U.)	6.5 - 8.5		6.49		6.42		6.40		6.80		6.74		6/1/2015	7.14, 7.08	Quarterly
	Sulfate (mg/L)	532		669		623		616		642		668		691	Quarterly	
MW-35 (Class II)	Manganese (ug/L)	200	1/20/2015	228	2/5/2015	223	3/4/2015	190	4/9/2015	237	5/12/2015	207.0	6/23/2015	214	Quarterly	
	Thallium (ug/l)	0.5		<0.5		<0.5		<0.5		<0.5		<0.5		<0.5	Quarterly	
	Gross Alpha minus Rn & U (pCi/L)	3.75		6.86		5.61		3.81		4.25		4.47		4.01	Quarterly	
	Field pH (S.U.)	6.5 - 8.5		6.22		6.53		6.26		6.64		6.46		6/2/2015	6.50, 6.41	Quarterly
	Selenium (ug/L)	12.5		8.21		14.2		26.6		<5.0		9.11		13.6	Quarterly	
	Uranium (ug/L)	7.5		21.8		20.6		24.4		20.2		22.5		20.7	Quarterly	
<b>Required Semi-Annual Sampling Wells</b>																
MW-01 (Class II)	Tetrahydrofuran (ug/L)	11.5	NS	NA	2/10/2015	1.63	NS	NA	4/15/2015	<1.0	NS	NA	NS	NA	Semi-Annually	
	Chloride (mg/L)	22.1		NA		NA		23.9		NA		NA		Semi-Annually		
	Field pH (S.U.)	6.77 - 8.5		NA		6.66		NA		7.15		NA		NA	Semi-Annually	
	Sulfate (mg/L)	838		NA		813		NA		892		NA		NA	Semi-Annually	
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	2/11/2015	61.1	NS	NA	4/23/2015	81, 61.7	NS	NA	NS	NA	Semi-Annually	
	Field pH (S.U.)	6.5 - 8.5		NA		6.12		NA	6.18, 6.51, 6.23	NA		NA		Semi-Annually		
	Beryllium (ug/L)	2		NA		NA		1.44, 2.08	NA	NA		Semi-Annually				
	Cadmium (ug/L)	4.67		NA		NA		5.03, 14.2	NA	NA		Semi-Annually				
	Zinc (ug/L)	173.19		NA		NA		238, 373	NA	NA		Semi-Annually				
	Sulfate (mg/L)	3663		NA		3260		NA	3700	NA		NA		Semi-Annually		
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		0.638		NA	0.642	NA		NA		Semi-Annually		
MW-03A (Class III)	Fluoride (mg/L)	0.68	NS	NA	2/12/2015	1.08	NS	NA	4/23/2015	1.00	NS	NA	NS	NA	Semi-Annually	
	Field pH (S.U.)	6.5 - 8.5		NA		6.15		NA	6.59, 6.24	NA		NA		Semi-Annually		
	Sulfate (mg/L)	3640		NA		3450		NA	3720	NA		NA		Semi-Annually		
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.05		NA	1.1	NA		NA		Semi-Annually		
	TDS (mg/L)	5805		NA		5470		NA	5410	NA		NA		Semi-Annually		
MW-05 (Class II)	Selenium (ug/L)	89	NS	NA	2/10/2015	94.1	NS	NA	4/23/2015	101	NS	NA	NS	NA	Semi-Annually	
	Uranium (ug/L)	7.5		NA		2.94		NA	1.3	NA		NA		Semi-Annually		
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	2/9/2015	30.0	NS	NA	4/21/2015	29.4	NS	NA	NS	NA	Semi-Annually	
	Field pH (S.U.)	6.5 - 8.5		NA		6.33		NA	6.50, 6.70	NA		NA		Semi-Annually		
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	2/4/2015	125	NS	NA	4/13/2015	137	NS	NA	NS	NA	Semi-Annually	
	Field pH (S.U.)	6.62 - 8.5		NA		6.50		NA	6.82	NA		NA		Semi-Annually		

Q1 2015 Results									Q2 2015 Results						Sample Frequency
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	January 2015 Monthly Sample Date	January 2015 Monthly Result	Q1 2015 Sample Date	Q1 2015 Result	March 2015 Monthly Sample Date	March 2015 Monthly Result	Q2 2015 Sample Date	Q2 2015 Result	May 2015 Monthly Sample Date	May 2015 Monthly Result	June 2015 Monthly Sample Date	June 2015 Monthly Result	
Required Semi-Annual Sampling Wells, continued															
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	2/3/2015	2.89	NS	NA	4/15/2015	2.81	NS	NA	NS	NA	Semi-Annually
	Sulfate (mg/L)	1938.9		NA		1810		NA		1790		NA		NA	Semi-Annually
	Field pH (S.U.)	6.25-8.5		NA		6.27		NA		6.40		NA		NA	Semi-Annually
	TDS (mg/L)	3198.77		NA		3240		NA		3350		NA		NA	Semi-Annually
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	2/2/2015	6.45	NS	NA	4/14/2015	6.79	NS	NA	NS	NA	Semi-Annually
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		2.91		NA		3.58		NA		NA	Semi-Annually
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/10/2015	6.53	NS	NA	4/30/2015	6.80	NS	NA	NS	NA	Semi-Annually
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	2/12/2015	3.31	NS	NA	5/28/2015 6/24/2015	1.79	NS	NA	NS	NA	Semi-Annually
	Fluoride (mg/L)	0.36		NA		0.397		NA		0.293		NA		NA	Semi-Annually
	Sulfate (mg/L)	2903		NA		2620		NA		2840		NA		NA	Semi-Annually
	Thallium (ug/L)	1		NA		1.27		NA		0.796		NA		NA	Semi-Annually
	Field pH (S.U.)	6.5 - 8.5		NA		6.21		NA		5.39, 5.98		NA		NA	Semi-Annually
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/9/2015	3.15	NS	NA	4/20/2015	6.27	NS	NA	NS	NA	Semi-Annually
	Chloride (mg/L)	38		NA		44.2		NA		47.6		NA		NA	Semi-Annually
	Sulfate (mg/L)	462		NA		402		NA		429		NA		NA	Semi-Annually
	TDS (mg/L)	1075		NA		996		NA		1040		NA		NA	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2		NA		<1.0		NA		<1.0		NA		NA	Semi-Annually
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	2/9/2015	130	NS	NA	4/21/2015	125	NS	NA	NS	NA	Semi-Annually
	Cadmium (ug/L)	5.2		NA		4.83		NA		4.59		NA		NA	Semi-Annually
	Uranium (ug/L)	4.9		NA		4.48		NA		6.13		NA		NA	Semi-Annually
	Vanadium (ug/L)	30		NA		<15.0		NA		<15.0		NA		NA	Semi-Annually
	Field pH (S.U.)	6.1 - 8.5		NA		5.86		NA		6.08, 6.17		NA		NA	Semi-Annually
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	2/10/2015	4430	NS	NA	4/30/2015	4190	NS	NA	NS	NA	Semi-Annually
	Sulfate (mg/L)	2946		NA		NA		2960		NA		NA		Semi-Annually	
	Field pH (S.U.)	6.46 - 8.5		NA		6.42		NA		6.36		NA		NA	Semi-Annually
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/9/2015	2.19	NS	NA	4/8/2015	1.81	NS	NA	NS	NA	Semi-Annually
	Chloride (mg/L)	35.39		NA	36.3	NA		37.8		NA		NA		Semi-Annually	
	Field pH (S.U.)	6.4 - 8.5		NA	6.29	NA		6.37		NA		NA		Semi-Annually	

Notes:

GWCL values are taken from August 24, 2012 version of GWDP.

NS = Not Required and Not Sampled

NR = Required and Not Reported

NA = Not Applicable

Exceedances are shown in yellow

Values in () parentheses are the field pH measurements for the resampled analyses.

Reported from the secondary monitoring system

## INDEX OF TABS

Tab A Site Plan and Perched Well Locations White Mesa Site

Tab B Field Data Worksheets Quarterly Sampling

Tab C Field Data Worksheets Accelerated Monitoring

Tab C1 Field Data Worksheets Accelerated Monitoring, May 2015

Tab C2 Field Data Worksheets Accelerated Monitoring, June 2015

Tab D Quarterly Depth to Water

Tab E Laboratory Analytical Reports – Quarterly Sampling

Tab F Laboratory Analytical Reports – Accelerated Monitoring

Tab F1 Laboratory Analytical Reports – Accelerated Monitoring, May 2015

Tab F2 Laboratory Analytical Reports – Accelerated Monitoring, June 2015

Tab G Quality Assurance and Data Validation Tables

G-1A/B	Field Data QA/QC Evaluation
G-2A/B	Holding Time Evaluation
G-3A/B	Laboratory Temperature Check
G-4A/B	Analytical Method Check
G-5A/B	Reporting Limit Evaluation
G-6A/B	Trip Blank Evaluation
G-7A/B	QA/QC Evaluation for Sample Duplicates
G-8 A/B	Radiologics Counting Error
G-9A/B	Laboratory Matrix QC

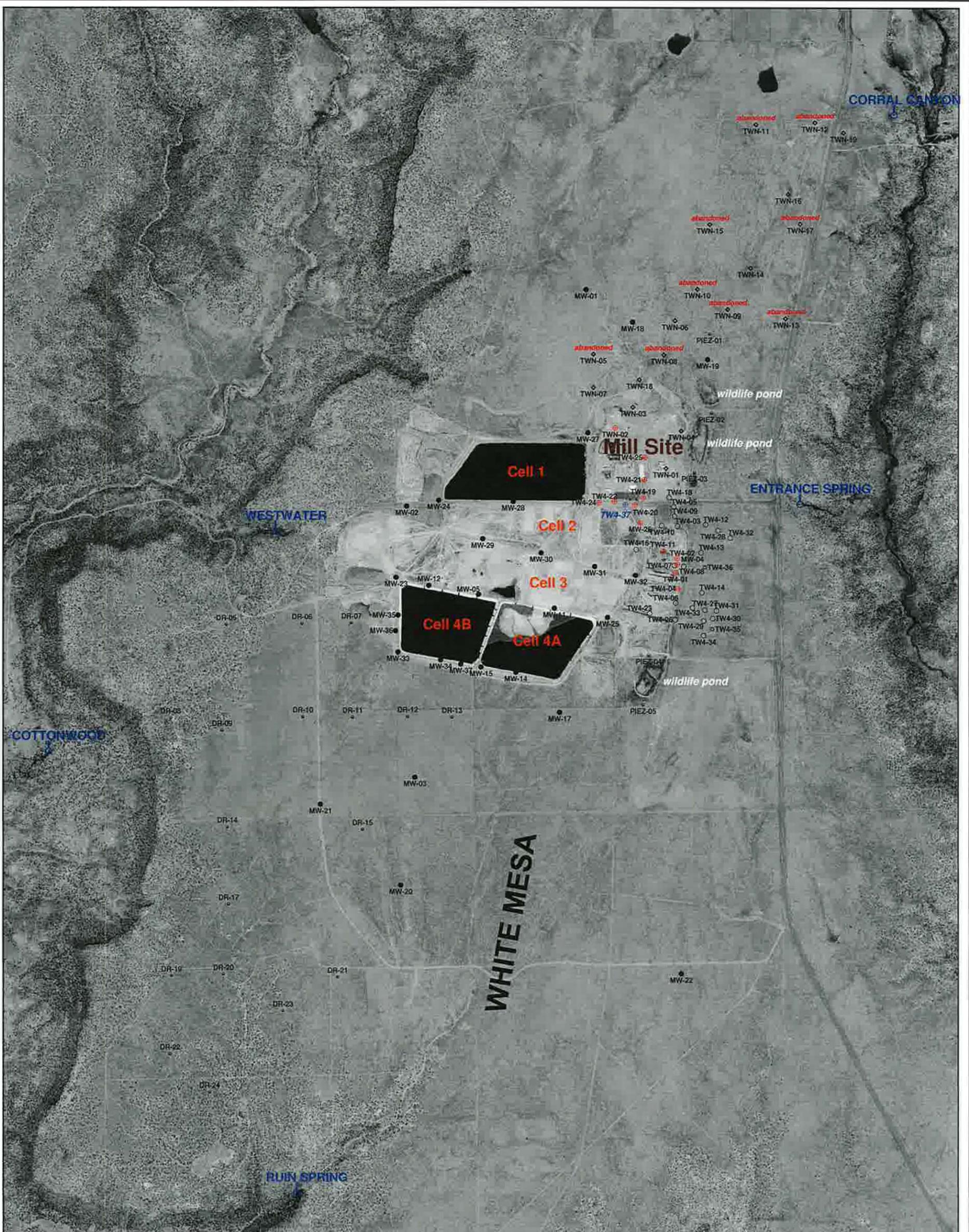
Tab H Kriged Current Quarterly Groundwater Contour Map

Tab I Groundwater Time Concentration Plots

Tab J CSV Transmittal Letter

Tab A

Site Plan and Perched Well Locations White Mesa Site



**EXPLANATION**

- TW4-37**  
 perched chloroform pumping well installed March, 2015
- TW4-19**  
 perched chloroform or nitrate pumping well
- MW-5**  
 perched monitoring well
- TW4-12**  
 temporary perched monitoring well
- TWN-7**  
 temporary perched nitrate monitoring well
- PIEZ-1**  
 perched piezometer
- TW4-35**  
 temporary perched monitoring well installed May, 2014
- RUIN SPRING**  
 seep or spring



1 mile



**HYDRO  
GEO  
CHEM, INC.**

**WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS**

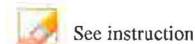
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug15/Uwelloc0615.srf	A - 1

Tab B

Field Data Worksheets Quarterly Sampling



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-01 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-01-04152015

Date and Time for Purging 4/15/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-18

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 118.00

Depth to Water Before Purging 64.05 Casing Volume (V) 4" Well: 0 (.653h)  
 3" Well: 19.79 (.367h)

Weather Cond. Partly Cloudy, Windy Ext'l Amb. Temp. °C (prior sampling event) 8°

Time	<u>1632</u>	Gal. Purged	<u>39.49</u>
Conductance	<u>1978</u>	pH	<u>7.22</u>
Temp. °C	<u>14.61</u>		
Redox Potential Eh (mV)	<u>325</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1633</u>	Gal. Purged	<u>39.71</u>
Conductance	<u>1975</u>	pH	<u>7.18</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>310</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1634</u>	Gal. Purged	<u>39.92</u>
Conductance	<u>1972</u>	pH	<u>7.16</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>305</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1635</u>	Gal. Purged	<u>40.14</u>
Conductance	<u>1975</u>	pH	<u>7.15</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

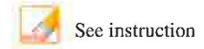
Comment

Arrived on site at 1325. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1330. Purged well for a total of 185 minutes. water was clear  
 Purge ended and samples collected at 1635. Left site at 1644

**MW-01 04-15-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1532"/>	Gal. Purged	<input type="text" value="25.38"/>
Conductance	<input type="text" value="3712"/>	pH	<input type="text" value="6.99"/>
Temp. °C	<input type="text" value="14.70"/>		
Redox Potential Eh (mV)	<input type="text" value="352"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1533"/>	Gal. Purged	<input type="text" value="25.60"/>
Conductance	<input type="text" value="3760"/>	pH	<input type="text" value="6.97"/>
Temp. °C	<input type="text" value="14.56"/>		
Redox Potential Eh (mV)	<input type="text" value="351"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1534"/>	Gal. Purged	<input type="text" value="25.82"/>
Conductance	<input type="text" value="3792"/>	pH	<input type="text" value="6.96"/>
Temp. °C	<input type="text" value="14.55"/>		
Redox Potential Eh (mV)	<input type="text" value="348"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1535"/>	Gal. Purged	<input type="text" value="26.04"/>
Conductance	<input type="text" value="3735"/>	pH	<input type="text" value="6.94"/>
Temp. °C	<input type="text" value="14.58"/>		
Redox Potential Eh (mV)	<input type="text" value="346"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

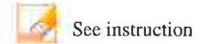
Comment

Arrived on site at 1332. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1335. Purged well for a total of 120 minutes.  
 Purge ended and samples collected at 1535. water was clear  
 Left site at 1545

**MW-02 04-21-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2<sup>nd</sup> Quarter Ground Water 2015 Resample

Location (well name): MW-02 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID MW-02\_04282015

Date and Time for Purging 4/28/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-12

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 128.80

Depth to Water Before Purging 109.91 Casing Volume (V) 4" Well: 12.33 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 12°

Time	<u>1147</u>	Gal. Purged	<u>25.38</u>
Conductance	<u>3768</u>	pH	<u>7.07</u>
Temp. °C	<u>15.40</u>		
Redox Potential Eh (mV)	<u>363</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1148</u>	Gal. Purged	<u>25.60</u>
Conductance	<u>3690</u>	pH	<u>7.04</u>
Temp. °C	<u>15.39</u>		
Redox Potential Eh (mV)	<u>362</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1149</u>	Gal. Purged	<u>25.82</u>
Conductance	<u>3726</u>	pH	<u>7.02</u>
Temp. °C	<u>15.42</u>		
Redox Potential Eh (mV)	<u>359</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1150</u>	Gal. Purged	<u>26.04</u>
Conductance	<u>3763</u>	pH	<u>7.01</u>
Temp. °C	<u>15.41</u>		
Redox Potential Eh (mV)	<u>357</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

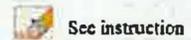
Comment

Arrived on site at 0945. Tanner and Garrin present for purge and sampling event. Purge began at 0950. Purged well for a total of 120 minutes. Purge ended and samples collected at 1150. Water was clear. Left site at 1152

**MW-02 04-28-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-03 Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: MW-03\_04232015

Date and Time for Purging: 4/23/2015 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Quarterly GW Prev. Well Sampled in Sampling Event: MW-03A

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 97.00

Depth to Water Before Purging: 84.51  
82.4  
82.54 Casing Volume (V) 4" Well: 0 (.653h)  
3" Well: 5.30 (.367h)

Weather Cond.: Sunny Ext'l Amb. Temp. °C (prior sampling event): 7°

Time	<u>0827</u>	Gal. Purged	<u>11.85</u>
Conductance	<u>5717</u>	pH	<u>6.21</u>
Temp. °C	<u>14.47</u>		
Redox Potential Eh (mV)	<u>429</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0828</u>	Gal. Purged	<u>12.06</u>
Conductance	<u>5721</u>	pH	<u>6.18</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>430</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0829</u>	Gal. Purged	<u>12.27</u>
Conductance	<u>5717</u>	pH	<u>6.18</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>430</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0830</u>	Gal. Purged	<u>12.48</u>
Conductance	<u>5718</u>	pH	<u>6.18</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>430</u>		
Turbidity (NTU)	<u>0</u>		

03 2214-12 78 06-06-12 Rev 7.2 - Errata / Template: [2376] Printed 4/11/2015 9:12 AM from: [unclear]

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

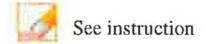
Comment

Arrived on site at 0725. Tanner and Garrin present for purge and sampling event. Purge began at 0730. Purged well for a total of 60 minutes. Purge ended and samples collected at 0830. Water was clear. Left site at 0840.

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015 Resample

Location (well name): MW-03 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-03\_04292015

Date and Time for Purging 4/29/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-22

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 97.00

Depth to Water Before Purging 83.60 Casing Volume (V) 4" Well: 0 (.653h)  
 3" Well: 4011 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 21°

Time	<u>1337</u>	Gal. Purged	<u>11.85</u>
Conductance	<u>5756</u>	pH	<u>6.61</u>
Temp. °C	<u>16.95</u>		
Redox Potential Eh (mV)	<u>394</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1338</u>	Gal. Purged	<u>12.06</u>
Conductance	<u>5699</u>	pH	<u>6.55</u>
Temp. °C	<u>16.97</u>		
Redox Potential Eh (mV)	<u>394</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1339</u>	Gal. Purged	<u>12.27</u>
Conductance	<u>5770</u>	pH	<u>6.52</u>
Temp. °C	<u>16.94</u>		
Redox Potential Eh (mV)	<u>396</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1340</u>	Gal. Purged	<u>12.48</u>
Conductance	<u>5726</u>	pH	<u>6.51</u>
Temp. °C	<u>16.96</u>		
Redox Potential Eh (mV)	<u>397</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

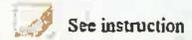
Comment

Arrived on site at 1237. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1240. Purged well for a total of 60 minutes.  
 Purge ended and samples collected at 1340. water was clear  
 Left site at 1342

**MW-03 04-29-2013** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: 2nd Quarter Groundwater 2015 Re-Sample

Location (well name): MW-03 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-03\_0520215 Re-Sample

Date and Time for Purging: 5/20/2015 and Sampling (if different): NA

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): RED

Purging Method Used:  2 casings  3 casings

Sampling Event: Quarterly GW Prev. Well Sampled in Sampling Event: NA

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 µMHOS/ cm Well Depth(0.01ft): 97.00

Depth to Water Before Purging: 82.80 Casing Volume (V) 4" Well: 0 (.653h)  
3" Well: 5.21 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 4°

Time 0828 Gal. Purged 10.81  
0827

Conductance 5673 pH 6.22

Temp. °C 15.14

Redox Potential Eh (mV) 403

Turbidity (NTU) 0

Time 0828 Gal. Purged 11.02

Conductance 5661 pH 6.23

Temp. °C 14.79

Redox Potential Eh (mV) 403

Turbidity (NTU) 0

Time 0829 Gal. Purged 11.23

Conductance 5612 pH 6.23

Temp. °C 14.87

Redox Potential Eh (mV) 403

Turbidity (NTU) 0

Time 0830 Gal. Purged 11.44

Conductance 5673 pH 6.23

Temp. °C 14.82

Redox Potential Eh (mV) 403

Turbidity (NTU) 0

80-5859 13 114 - QAP Rev 7.2 06 11 11 created: Template: 124091 Printed: 4/14/2015 9:21 AM from: WMSUR0003

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

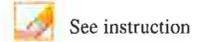
Comment

Arrived on site at 0717. Garrin present for purge and sampling event. Purge began at 0725. Purged well for a total of 55 minutes. Water was clear during purge. Purge ended and samples were collected at 0820. Left site at 0830.

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-03A Sampler Name and initials: Garcia Palmer / GP

Field Sample ID MW-03A\_04222015 MW-03A\_04232015

Date and Time for Purging 4/22/2015 and Sampling (if different) ~~4/22/2015~~ 4/23/2015

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) RED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-22

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 9500

Depth to Water Before Purging 84.51 Casing Volume (V) 4" Well: 6.84 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 190

Time	<u>1410</u>	Gal. Purged	<u>14.56</u>
Conductance	<u>6038</u>	pH	<u>6.60</u>
Temp. °C	<u>16.44</u>		
Redox Potential Eh (mV)	<u>364</u>		
Turbidity (NTU)	<u>1.0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0714</u>	Gal. Purged	<u>0</u>
Conductance	<u>5999</u>	pH	<u>6.58</u>
Temp. °C	<u>13.45</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0724</u>	Gal. Purged	<u>0</u>
Conductance	<u>6012</u>	pH	<u>6.59</u>
Temp. °C	<u>14.05</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

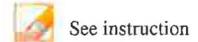
Comment

Arrived on site at 1250. Garrin present for purge. Purge began at 1300. Water was clear during purge. Purged well for 70 minutes. Purged well dry. Purge ended at 1410. Left site at 1413. Arrived on site at 0710. Tanner and Garrin present to collect samples. Depth to water was 87.85. samples collected at 0715. Left site at 0725

**MW-03A 04-22-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015 Resample

Location (well name): MW-03A Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-03A-04292015

Date and Time for Purging 4/29/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-03

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 95.00

Depth to Water Before Purging 85.60 Casing Volume (V) 4" Well: 6.13 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 22°

Time	<u>1452</u>	Gal. Purged	<u>11.85</u>
Conductance	<u>5909</u>	pH	<u>6.23</u>
Temp. °C	<u>18.25</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>1.2</u>		

Time	<u>1453</u>	Gal. Purged	<u>12.06</u>
Conductance	<u>5926</u>	pH	<u>6.24</u>
Temp. °C	<u>18.24</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>1.2</u>		

Time	<u>1454</u>	Gal. Purged	<u>12.27</u>
Conductance	<u>5928</u>	pH	<u>6.24</u>
Temp. °C	<u>18.27</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>1.2</u>		

Time	<u>1455</u>	Gal. Purged	<u>12.48</u>
Conductance	<u>5926</u>	pH	<u>6.24</u>
Temp. °C	<u>18.28</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>1.3</u>		

Volume of Water Purged  gallon(s)

12.48

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

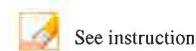
Comment

Arrived on site at 1352. Tanner and Garrin present for purge and sampling event. Purge began at 1355. Purged well for a total of 60 minutes. Flow rate decreased at the end of purge we were getting enough water to collect voc sample. Well on verge of being dry! Purge ended and samples collected at 1455 water was clear. Left site at 1458

**MW-03A 04-29-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-05 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-05-04212015

Date and Time for Purging 4/21/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-28

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 138.50

Depth to Water Before Purging 106.11 Casing Volume (V) 4" Well: 21.15 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 6°

Time	<u>1157</u>	Gal. Purged	<u>47.08</u>
Conductance	<u>2957</u>	pH	<u>7.30</u>
Temp. °C	<u>15.45</u>		
Redox Potential Eh (mV)	<u>257</u>		
Turbidity (NTU)	<u>7.1</u>		

Time	<u>1158</u>	Gal. Purged	<u>47.30</u>
Conductance	<u>2960</u>	pH	<u>7.31</u>
Temp. °C	<u>15.48</u>		
Redox Potential Eh (mV)	<u>254</u>		
Turbidity (NTU)	<u>7.1</u>		

Time	<u>1159</u>	Gal. Purged	<u>47.52</u>
Conductance	<u>2959</u>	pH	<u>7.31</u>
Temp. °C	<u>15.49</u>		
Redox Potential Eh (mV)	<u>251</u>		
Turbidity (NTU)	<u>7.0</u>		

Time	<u>1200</u>	Gal. Purged	<u>47.74</u>
Conductance	<u>2964</u>	pH	<u>7.32</u>
Temp. °C	<u>15.51</u>		
Redox Potential Eh (mV)	<u>245</u>		
Turbidity (NTU)	<u>7.0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

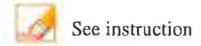
Comment

Arrived on site at 0815. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0820. Purged well for a total of 220 minutes  
 Purge ended and samples collected at 1200. Water was mostly clear  
 Left site at 1211

**MW-05 04-21-2013** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015 Resample

Location (well name): MW-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-05\_04272015

Date and Time for Purging 4/27/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-28

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/cm

Well Depth(0.01ft): 138.50

Depth to Water Before Purging 106.25

Casing Volume (V) 4" Well: 21.05 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 18°

Time	<u>1547</u>	Gal. Purged	<u>42.74</u>
Conductance	<u>3020</u>	pH	<u>7.28</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>11.0</u>		

Time	<u>1548</u>	Gal. Purged	<u>42.96</u>
Conductance	<u>3015</u>	pH	<u>7.26</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>330</u>		
Turbidity (NTU)	<u>11.1</u>		

Time	<u>1549</u>	Gal. Purged	<u>43.18</u>
Conductance	<u>3006</u>	pH	<u>7.25</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>11.2</u>		

Time	<u>1550</u>	Gal. Purged	<u>43.40</u>
Conductance	<u>3009</u>	pH	<u>7.23</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>323</u>		
Turbidity (NTU)	<u>11.2</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

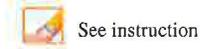
Comment

Arrived on site at 1226. Tanner and Garrin present for purge and sampling event. Purge began at 1230. Purged well for a total 200 minutes. Purge ended and samples collected at 1550 water was mostly clear. Left site at 1552

**MW-05 04-27-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2<sup>nd</sup> Quarter Ground Water 2015

Location (well name): MW-11 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-1L04082015

Date and Time for Purging 4/8/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-32'

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging 85.94 Casing Volume (V) 4" Well: 28.77 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Windy Ext'l Amb. Temp. °C (prior sampling event) 30

Time	<u>1132</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>2933</u>	pH	<u>6.98</u>
Temp. °C	<u>15.09</u>		
Redox Potential Eh (mV)	<u>360</u>		
Turbidity (NTU)	<u>1.8</u>		

Time	<u>1133</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>2961</u>	pH	<u>7.00</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>320</u>		
Turbidity (NTU)	<u>1.2</u>		

Time	<u>1134</u>	Gal. Purged	<u>58.37</u>
Conductance	<u>2948</u>	pH	<u>7.03</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>316</u>		
Turbidity (NTU)	<u>1.1</u>		

Time	<u>1135</u>	Gal. Purged	<u>58.59</u>
Conductance	<u>2940</u>	pH	<u>7.05</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>1.1</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

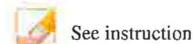
Comment

Arrived on site at 0701. Tanner and Garrin present for purge and sampling event. Purge began at 0705. Purged well for a total of 270 minutes, water was clear. Purge ended and samples collected at 1135. Left site at 1145.

**MW-11 04-08-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-12 Sampler Name and initials: Tanner Holiday/TH

Field Sample ID MW-12\_04212015

Date and Time for Purging 4/21/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-05

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 130.40

Depth to Water Before Purging 108.20 Casing Volume (V) 4" Well: 14.49 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 21°

Time	<u>1547</u>	Gal. Purged	<u>30.81</u>
Conductance	<u>4190</u>	pH	<u>6.54</u>
Temp. °C	<u>15.57</u>		
Redox Potential Eh (mV)	<u>371</u>		
Turbidity (NTU)	<u>1.0</u>		

Time	<u>1548</u>	Gal. Purged	<u>31.03</u>
Conductance	<u>4181</u>	pH	<u>6.52</u>
Temp. °C	<u>15.56</u>		
Redox Potential Eh (mV)	<u>371</u>		
Turbidity (NTU)	<u>1.0</u>		

Time	<u>1549</u>	Gal. Purged	<u>31.24</u>
Conductance	<u>4182</u>	pH	<u>6.51</u>
Temp. °C	<u>15.54</u>		
Redox Potential Eh (mV)	<u>370</u>		
Turbidity (NTU)	<u>1.0</u>		

Time	<u>1550</u>	Gal. Purged	<u>31.46</u>
Conductance	<u>4180</u>	pH	<u>6.50</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>369</u>		
Turbidity (NTU)	<u>1.0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

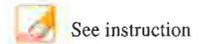
Comment

Arrived on site at 1320. Tanner and Garrin present for purge and sampling event. Purge began at 1325. Purged well for a total of 145 minutes. Purge ended and samples collected at 1550. water was clear. Left site at 1602.

**MW-12 04-21-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="0857"/>	Gal. Purged	<input type="text" value="28.64"/>
Conductance	<input type="text" value="4287"/>	pH	<input type="text" value="6.74"/>
Temp. °C	<input type="text" value="15.10"/>		
Redox Potential Eh (mV)	<input type="text" value="382"/>		
Turbidity (NTU)	<input type="text" value="2.9"/>		

Time	<input type="text" value="0858"/>	Gal. Purged	<input type="text" value="28.86"/>
Conductance	<input type="text" value="4270"/>	pH	<input type="text" value="6.71"/>
Temp. °C	<input type="text" value="15.12"/>		
Redox Potential Eh (mV)	<input type="text" value="380"/>		
Turbidity (NTU)	<input type="text" value="2.8"/>		

Time	<input type="text" value="0859"/>	Gal. Purged	<input type="text" value="29.07"/>
Conductance	<input type="text" value="4263"/>	pH	<input type="text" value="6.70"/>
Temp. °C	<input type="text" value="15.08"/>		
Redox Potential Eh (mV)	<input type="text" value="377"/>		
Turbidity (NTU)	<input type="text" value="2.8"/>		

Time	<input type="text" value="0900"/>	Gal. Purged	<input type="text" value="29.29"/>
Conductance	<input type="text" value="4259"/>	pH	<input type="text" value="6.70"/>
Temp. °C	<input type="text" value="15.05"/>		
Redox Potential Eh (mV)	<input type="text" value="372"/>		
Turbidity (NTU)	<input type="text" value="2.8"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0640. Tanner and Garrin present for purge and sampling event  
 Purge began at 0645. Purged well for a total of 135 minutes. Purge ended and  
 samples collected at 0900. water was clear.  
 Left site at 0902

**MW-12 04-28-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



See instruction

Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1502"/>	Gal. Purged	<input type="text" value="34.06"/>
Conductance	<input type="text" value="3946"/>	pH	<input type="text" value="6.52"/>
Temp. °C	<input type="text" value="14.44"/>		
Redox Potential Eh (mV)	<input type="text" value="380"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1503"/>	Gal. Purged	<input type="text" value="34.28"/>
Conductance	<input type="text" value="3937"/>	pH	<input type="text" value="6.52"/>
Temp. °C	<input type="text" value="14.51"/>		
Redox Potential Eh (mV)	<input type="text" value="579"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1504"/>	Gal. Purged	<input type="text" value="34.50"/>
Conductance	<input type="text" value="3940"/>	pH	<input type="text" value="6.53"/>
Temp. °C	<input type="text" value="14.47"/>		
Redox Potential Eh (mV)	<input type="text" value="377"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1505"/>	Gal. Purged	<input type="text" value="34.72"/>
Conductance	<input type="text" value="3940"/>	pH	<input type="text" value="6.55"/>
Temp. °C	<input type="text" value="14.40"/>		
Redox Potential Eh (mV)	<input type="text" value="576"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

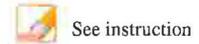
Comment

Arrived on site at 1222. Tanner and Garrin present for purge and sampling event. Purge began at 1225. Purged well for a total of 160 minutes, water was clear. Purge ended and samples collected at 1505. Left site at 1515.

**MW-14 04-08-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1527"/>	Gal. Purged	<input type="text" value="40.57"/>
Conductance	<input type="text" value="4350"/>	pH	<input type="text" value="6.90"/>
Temp. °C	<input type="text" value="15.30"/>		
Redox Potential Eh (mV)	<input type="text" value="377"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1528"/>	Gal. Purged	<input type="text" value="40.79"/>
Conductance	<input type="text" value="4348"/>	pH	<input type="text" value="6.85"/>
Temp. °C	<input type="text" value="15.27"/>		
Redox Potential Eh (mV)	<input type="text" value="378"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1529"/>	Gal. Purged	<input type="text" value="41.01"/>
Conductance	<input type="text" value="4318"/>	pH	<input type="text" value="6.85"/>
Temp. °C	<input type="text" value="15.25"/>		
Redox Potential Eh (mV)	<input type="text" value="378"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1530"/>	Gal. Purged	<input type="text" value="41.23"/>
Conductance	<input type="text" value="4325"/>	pH	<input type="text" value="6.82"/>
Temp. °C	<input type="text" value="15.26"/>		
Redox Potential Eh (mV)	<input type="text" value="379"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

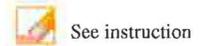
Comment

Arrived on site at 1216. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1220. Purged well for a total of 190 minutes. water was clear  
 Purge ended and samples collected at 1530. Left site at 1540

**MW-15 04-13-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-17 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID MW-17-04222015

Date and Time for Purging 4/22/2015 and Sampling (if different) NA

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-02

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 112

Depth to Water Before Purging 66.55 Casing Volume (V) 4" Well: 29.67 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 7°

Time	<u>1202</u>	Gal. Purged	<u>65.53</u>
Conductance	<u>3878</u>	pH	<u>6.80</u>
Temp. °C	<u>15.21</u>		
Redox Potential Eh (mV)	<u>373</u>		
Turbidity (NTU)	<u>300</u>		

Time	<u>1203</u>	Gal. Purged	<u>65.75</u>
Conductance	<u>3905</u>	pH	<u>6.76</u>
Temp. °C	<u>15.17</u>		
Redox Potential Eh (mV)	<u>371</u>		
Turbidity (NTU)	<u>298</u>		

Time	<u>1204</u>	Gal. Purged	<u>65.96</u>
Conductance	<u>3901</u>	pH	<u>6.75</u>
Temp. °C	<u>15.14</u>		
Redox Potential Eh (mV)	<u>368</u>		
Turbidity (NTU)	<u>295</u>		

Time	<u>1205</u>	Gal. Purged	<u>66.18</u>
Conductance	<u>3911</u>	pH	<u>6.75</u>
Temp. °C	<u>15.10</u>		
Redox Potential Eh (mV)	<u>365</u>		
Turbidity (NTU)	<u>294</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0645. Garin present for sampling event. Purge began at 0700. Purged well for a total of 305 minutes. Water was clear. Purge ended and samples were collected at 1205. Left site at

**MW-17 04-22-2015** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER

See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2015 Resample

Location (well name): MW-17 Sampler Name and initials: Tanner Holliday TH

Field Sample ID: MW-17-04292015

Date and Time for Purging: 4/29/2015 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Quarterly GW Prev. Well Sampled in Sampling Event: MW-27

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000  $\mu$ MHOS/cm Well Depth(0.01ft): 112.00

Depth to Water Before Purging: 72.25 Casing Volume (V) 4" Well: 25.95 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>1057</u>	Gal. Purged	<u>51.42</u>
Conductance	<u>3930</u>	pH	<u>6.85</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>378</u>		
Turbidity (NTU)	<u>2.4</u>		

Time	<u>1058</u>	Gal. Purged	<u>51.64</u>
Conductance	<u>3916</u>	pH	<u>6.82</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>377</u>		
Turbidity (NTU)	<u>2.3</u>		

Time	<u>1059</u>	Gal. Purged	<u>51.86</u>
Conductance	<u>3907</u>	pH	<u>6.82</u>
Temp. °C	<u>14.75</u>		
Redox Potential Eh (mV)	<u>377</u>		
Turbidity (NTU)	<u>2.2</u>		

Time	<u>1100</u>	Gal. Purged	<u>52.08</u>
Conductance	<u>3910</u>	pH	<u>6.79</u>
Temp. °C	<u>14.75</u>		
Redox Potential Eh (mV)	<u>376</u>		
Turbidity (NTU)	<u>2.2</u>		

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0655. Tanner and Garrin present for purge and sampling event  
 Purge began at 0700 Purged well for a total of 240 minutes. Purge ended  
 and samples collected at 1100. Left site at 1102. water was clear

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



See instruction

Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1307"/>	Gal. Purged	<input type="text" value="81.80"/>
Conductance	<input type="text" value="3520"/>	pH	<input type="text" value="6.45"/>
Temp. °C	<input type="text" value="14.17"/>		
Redox Potential Eh (mV)	<input type="text" value="406"/>		
Turbidity (NTU)	<input type="text" value="1.0"/>		

Time	<input type="text" value="1308"/>	Gal. Purged	<input type="text" value="82.02"/>
Conductance	<input type="text" value="3512"/>	pH	<input type="text" value="6.42"/>
Temp. °C	<input type="text" value="14.18"/>		
Redox Potential Eh (mV)	<input type="text" value="402"/>		
Turbidity (NTU)	<input type="text" value="1.0"/>		

Time	<input type="text" value="1309"/>	Gal. Purged	<input type="text" value="82.24"/>
Conductance	<input type="text" value="3516"/>	pH	<input type="text" value="6.42"/>
Temp. °C	<input type="text" value="14.17"/>		
Redox Potential Eh (mV)	<input type="text" value="398"/>		
Turbidity (NTU)	<input type="text" value="1.0"/>		

Time	<input type="text" value="1310"/>	Gal. Purged	<input type="text" value="82.46"/>
Conductance	<input type="text" value="3511"/>	pH	<input type="text" value="6.40"/>
Temp. °C	<input type="text" value="14.19"/>		
Redox Potential Eh (mV)	<input type="text" value="395"/>		
Turbidity (NTU)	<input type="text" value="1.0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

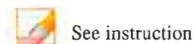
Comment

Arrived on site at 0645. Tanner and Garrin present for purge and sampling event. Purge began at 0650. Purged well for a total of 380 minutes. water was clear Purge ended and samples collected at 1310. Left site at 1320.

**MW-18 04-15-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Groundwater 2015

Location (well name): MW-19 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-19-04142015

Date and Time for Purging 4/14/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-15

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 149.00

Depth to Water Before Purging 60.45 Casing Volume (V) 4" Well: 57.82 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Windy Ext'l Amb. Temp. °C (prior sampling event) 3°

Time	<u>1522</u>	Gal. Purged	<u>116.52</u>
Conductance	<u>1527</u>	pH	<u>6.88</u>
Temp. °C	<u>15.21</u>		
Redox Potential Eh (mV)	<u>377</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1523</u>	Gal. Purged	<u>116.74</u>
Conductance	<u>1530</u>	pH	<u>6.83</u>
Temp. °C	<u>15.23</u>		
Redox Potential Eh (mV)	<u>377</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1524</u>	Gal. Purged	<u>116.96</u>
Conductance	<u>1525</u>	pH	<u>6.80</u>
Temp. °C	<u>15.20</u>		
Redox Potential Eh (mV)	<u>375</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1525</u>	Gal. Purged	<u>117.18</u>
Conductance	<u>1523</u>	pH	<u>6.79</u>
Temp. °C	<u>15.23</u>		
Redox Potential Eh (mV)	<u>373</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

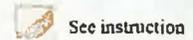
Comment

Arrived on site at 0620. Tanner and Garrin present for purge and sampling event. Purge began at 0625. Purged well for a total of 540 minutes, water was clear. Purge ended and samples collected at 1525. Left site at 1536

**MW-19 04-14-2015** Do not touch this cell (SheetName)



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-20\_05272015

Date and Time for Purging: 5/5/2015

and Sampling (if different): 5/27/2015

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet): NA

Purging Method Used:  2 casings  3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-37

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 1000 μMHOS/ cm

Well Depth(0.01ft): 91.00 - 92.00 92.00

Depth to Water Before Purging: 84.51

Casing Volume (V) 4" Well: 4.89 (.653h)

3" Well: 0 (.367h)

Weather Cond.: Raining

Ext'l Amb. Temp. °C (prior sampling event) 16

Time	<u>1453</u>	Gal. Purged	<u>5</u>
Conductance	<u>6466</u>	pH	<u>6.41</u>
Temp. °C	<u>14.62</u>		
Redox Potential Eh (mV)	<u>258</u>		
Turbidity (NTU)	<u>54</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1359</u>	Gal. Purged	<u>0</u>
Conductance	<u>5879</u>	pH	<u>7.48</u>
Temp. °C	<u>17.40</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1407</u>	Gal. Purged	<u>0</u>
Conductance	<u>5901</u>	pH	<u>7.46</u>
Temp. °C	<u>17.29</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

8/2002 1.1.102 GNDP rev 7.2 06 21 13 errata / Sample (2199) / Printed 4/14/2015 9:15 AM from D:\data\m015

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

91.64

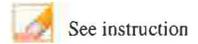
See instruction

Comment

Arrived on site at 1445. Tanner and Terry present to bail MW-20.  
Bailing began at 1448. Bailed 5 Gallons into a bucket and took 1 set of parameters.  
Bailed a total of 7 Gallons. Bailed well dry. Water started out clear and finished out a little grey. Left site at 1503.  
Arrived on site at 1353. Tanner present to collect samples. Depth to water was 89.10.  
Samples bailed at 1400. Left site at 1409.



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-20-06242015

Date and Time for Purging 6/3/2015

and Sampling (if different) 6/24/2015

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) N/A

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-37

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 92.00

Depth to Water Before Purging 90.03

Casing Volume (V) 4" Well: 1.28 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 26°

Time	<u>1529</u>	Gal. Purged	<u>1529</u>
Conductance	<u>5721</u>	pH	<u>8.12</u>
Temp. °C	<u>16.35</u>		
Redox Potential Eh (mV)	<u>317</u>		
Turbidity (NTU)	<u>136</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0839</u>	Gal. Purged	<u>0</u>
Conductance	<u>5372</u>	pH	<u>8.55</u>
Temp. °C	<u>18.03</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0842</u>	Gal. Purged	
Conductance	<u>5425</u>	pH	<u>8.52</u>
Temp. °C	<u>17.99</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

5721

Volume of Water Purged  <sup>16.35</sup> <sub>3.17</sub> <sup>13.18</sup> gallon(s)

Pumping Rate Calculation 136  
8.12

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1524. Tanner and Garrin present for purge. Bailing started at 1526 Purged 1 Gallon of water. Bailed well dry. Bailing ended at 1531. Water was dirty. Left site at 1535

Arrived on site at 0831. Tanner and Garrin Present to collect samples. Depth to water was 90.04 samples bailed at 0840. Left site at 0843. Water was dirty/muddy

**MW-20 06-03-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-22 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-22\_04222015

Date and Time for Purging 4/22/2015 and Sampling (if different) NA

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-17

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 114

Depth to Water Before Purging 71.94 Casing Volume (V) 4" Well: 27.46 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 80

Time	<u>1147</u>	Gal. Purged	<u>55.76</u>
Conductance	<u>7884</u>	pH	<u>4.50</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>489</u>		
Turbidity (NTU)	<u>4.5</u>		

Time	<u>1148</u>	Gal. Purged	<u>55.98</u>
Conductance	<u>7887</u>	pH	<u>4.50</u>
Temp. °C	<u>15.15</u>		
Redox Potential Eh (mV)	<u>493</u>		
Turbidity (NTU)	<u>4.3</u>		

Time	<u>1149</u>	Gal. Purged	<u>56.20</u>
Conductance	<u>7864</u>	pH	<u>4.50</u>
Temp. °C	<u>15.20</u>		
Redox Potential Eh (mV)	<u>495</u>		
Turbidity (NTU)	<u>4.3</u>		

Time	<u>1150</u>	Gal. Purged	<u>56.42</u>
Conductance	<u>7867</u>	pH	<u>4.50</u>
Temp. °C	<u>15.11</u>		
Redox Potential Eh (mV)	<u>500</u>		
Turbidity (NTU)	<u>4.4</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

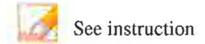
Comment

Arrived on site at 0720. Garrin Present for purge and sampling event. Purge began at 0730. Water was clear during purge. Purge ended and samples were collected at 1150. Purged well for a total of 260 minutes. Left site at 1155.

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015 Resample

Location (well name): MW-22

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID MW-22\_04292015

Date and Time for Purging 4/29/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-17

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging 67.10

Casing Volume (V) 4" Well: 30.62 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 6°

Time	<u>1227</u>	Gal. Purged	<u>64.44</u>
Conductance	<u>7151</u>	pH	<u>4.82</u>
Temp. °C	<u>15.06</u>		
Redox Potential Eh (mV)	<u>466</u>		
Turbidity (NTU)	<u>5.7</u>		

Time	<u>1228</u>	Gal. Purged	<u>64.66</u>
Conductance	<u>7088</u>	pH	<u>4.81</u>
Temp. °C	<u>15.10</u>		
Redox Potential Eh (mV)	<u>475</u>		
Turbidity (NTU)	<u>5.8</u>		

Time	<u>1229</u>	Gal. Purged	<u>64.88</u>
Conductance	<u>7074</u>	pH	<u>4.81</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>475</u>		
Turbidity (NTU)	<u>5.8</u>		

Time	<u>1230</u>	Gal. Purged	<u>65.10</u>
Conductance	<u>7049</u>	pH	<u>4.80</u>
Temp. °C	<u>15.06</u>		
Redox Potential Eh (mV)	<u>477</u>		
Turbidity (NTU)	<u>5.9</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

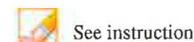
Comment

Arrived on site at 0626. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0730. Purged well for a total of 300 minutes  
 Purge ended and samples collected at 1230. water was clear  
 Left site at 1232

MW-22 04-29-2015 Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-23

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-23\_04302015

Date and Time for Purging 4/20/2015

and Sampling (if different) N/A 4/30/2015

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-27

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm

Well Depth(0.01ft): 132.00

Depth to Water Before Purging 114.00

Casing Volume (V) 4" Well: 11.75 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 16°

Time	<u>1410</u>	Gal. Purged	<u>24.96</u>
Conductance	<u>3927</u>	pH	<u>6.74</u>
Temp. °C	<u>15.56</u>		
Redox Potential Eh (mV)	<u>359</u>		
Turbidity (NTU)	<u>1.6</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0730</u>	Gal. Purged	<u>0</u>
Conductance	<u>3914</u>	pH	<u>6.84</u>
Temp. °C	<u>14.42</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0740</u>	Gal. Purged	<u>0</u>
Conductance	<u>3918</u>	pH	<u>6.80</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

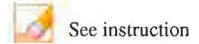
Comment

Arrived on site at 1206. Tanner and Garrin present for purge. Purge began at 1210. Purged well for a total of 120 minutes. Flow rate decreased around 70 minutes. Purged well dry. Purge ended at 1410. Left site at 1412. Water was mostly clear. Arrived on site at 0725. Tanner and Garrin present for sampling event. Depth to water was 120.91 samples ~~barred~~ collected at 0730. Left site at 0741

**MW-23 04-20-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-24-05282015

Date and Time for Purging 5/27/2015

and Sampling (if different) 5/28/2015

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-03

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging 113.38

Casing Volume (V) 4" Well: 4.32 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 24°

Time	<u>1550</u>	Gal. Purged	<u>9.6</u>
Conductance	<u>4386</u>	pH	<u>4.86</u>
Temp. °C	<u>14.40</u>		
Redox Potential Eh (mV)	<u>479</u>		
Turbidity (NTU)	<u>7.1</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0613</u>	Gal. Purged	<u>0</u>
Conductance	<u>4917</u>	pH	<u>5.45</u>
Temp. °C	<u>14.83</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0630</u>	Gal. Purged	<u>0</u>
Conductance	<u>4392</u>	pH	<u>5.39</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

*Before*

*After*

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1457. Tanner present for purge.  
Purge began at 1500 Purged well for a total of 50 minutes. Purged well dry?  
Flow rate decreased as purge went on. Purge ended at 1550. water was mostly clear.  
Left site at 1555.  
Arrived on site at 0610. Tanner present to collect samples, Depth to water was 113.45  
Samples collected at 0615. Left site at 0631

**MW-24 05-27-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2015 reSample

Location (well name): MW-24 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-24\_06242015

Date and Time for Purging 6/23/2015 and Sampling (if different) 6/24/2015

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging 113.35

Casing Volume (V) 4" Well: 4.34 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 35°

Time	<u>1520</u>	Gal. Purged	<u>11.52</u>
Conductance	<u>4392</u>	pH	<u>5.11</u>
Temp. °C	<u>27.36</u>		
Redox Potential Eh (mV)	<u>396</u>		
Turbidity (NTU)	<u>5.0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0859</u>	Gal. Purged	<u>0</u>
Conductance	<u>2243</u>	pH	<u>6.01</u>
Temp. °C	<u>17.04</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0906</u>	Gal. Purged	<u>0</u>
Conductance	<u>2371</u>	pH	<u>5.98</u>
Temp. °C	<u>17.08</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

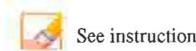
Comment

Arrived on site at 1415 Tanner and Garrin present for purge  
 Purge began at 1420. Purged well for a total of 60 minutes. Flow Rate decreased throughout the purge until well ran dry. Purge ended at 1520. water was clear. Left site at 1522  
 Arrived on site at 0856. Tanner and Garrin present to collect samples. Depth to water was 113.30. Samples collected at 0900. Left site at 0910

**MW-24 06-23-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Groundwater 2015

Location (well name): MW-25 Sampler Name and initials: Garcia Palmer / GP

Field Sample ID: MW-25\_04072015

Date and Time for Purging: 4/7/15 and Sampling (if different): NA

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Quarterly GW Prev. Well Sampled in Sampling Event: MW-31

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 115.00

Depth to Water Before Purging: 75.48 Casing Volume (V) 4" Well: 25.80 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 7°

Time 1312 Gal. Purged 54.68

Conductance 3205 pH 6.45

Temp. °C 14.93

Redox Potential Eh (mV) 435

Turbidity (NTU) 6.4

Time 1313 Gal. Purged ~~52.79~~  
54.90

Conductance 3222 pH 6.49

Temp. °C 14.87

Redox Potential Eh (mV) 423

Turbidity (NTU) 6.3

Time 1314 Gal. Purged 55.11

Conductance 3216 pH 6.5

Temp. °C 14.84

Redox Potential Eh (mV) 416

Turbidity (NTU) 6.5

Time 1315 Gal. Purged 55.33

Conductance 3205 pH 6.52

Temp. °C 14.80

Redox Potential Eh (mV) 412

Turbidity (NTU) 6.7

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time



See instruction

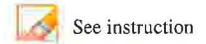
Comment

Arrived on site at 0850. Garrin present for purge. Purge began at 0900. Purged well for a total of 255 minutes. Water was a little murky. Purge ended and samples collected at 1315. Left site at 1326

**MW-25 04-07-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="0729"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3465"/>	pH	<input type="text" value="6.60"/>
Temp. °C	<input type="text" value="15.24"/>		
Redox Potential Eh (mV)	<input type="text" value="526"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

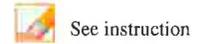
Arrived on site at 0725 Tanner and Garrin present for sampling event.  
 samples collected at 0730, water was clear. Left site at 0735

Continuous Pumping Well

**MW-26 04-09-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):  95.00

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1517"/>	Gal. Purged	<input type="text" value="55.76"/>
Conductance	<input type="text" value="1534"/>	pH	<input type="text" value="7.13"/>
Temp. °C	<input type="text" value="15.50"/>		
Redox Potential Eh (mV)	<input type="text" value="376"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1518"/>	Gal. Purged	<input type="text" value="55.98"/>
Conductance	<input type="text" value="1537"/>	pH	<input type="text" value="7.12"/>
Temp. °C	<input type="text" value="15.49"/>		
Redox Potential Eh (mV)	<input type="text" value="376"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1519"/>	Gal. Purged	<input type="text" value="56.20"/>
Conductance	<input type="text" value="1529"/>	pH	<input type="text" value="7.10"/>
Temp. °C	<input type="text" value="15.42"/>		
Redox Potential Eh (mV)	<input type="text" value="375"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1520"/>	Gal. Purged	<input type="text" value="56.42"/>
Conductance	<input type="text" value="1534"/>	pH	<input type="text" value="7.09"/>
Temp. °C	<input type="text" value="15.45"/>		
Redox Potential Eh (mV)	<input type="text" value="374"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

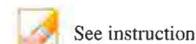
Comment

Arrived on site at 1055. Tanner and Garrin present for purge and sampling event. Purge began at 1100. Purged well for a total of 260 minutes. Purge ended and samples collected at 1520. Water was clear. Left site at 1530

**MW-27 04-20-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-27

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID MW-27\_04282015

Date and Time for Purging 4/28/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 95.00

Depth to Water Before Purging 53.47

Casing Volume (V) 4" Well: 27.11 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 16°

Time	<u>1612</u>	Gal. Purged	<u>54.68</u>
Conductance	<u>1553</u>	pH	<u>7.18</u>
Temp. °C	<u>15.25</u>		
Redox Potential Eh (mV)	<u>381</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1613</u>	Gal. Purged	<u>54.90</u>
Conductance	<u>1550</u>	pH	<u>7.15</u>
Temp. °C	<u>15.27</u>		
Redox Potential Eh (mV)	<u>382</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1614</u>	Gal. Purged	<u>55.11</u>
Conductance	<u>1519</u>	pH	<u>7.12</u>
Temp. °C	<u>15.26</u>		
Redox Potential Eh (mV)	<u>382</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1615</u>	Gal. Purged	<u>55.33</u>
Conductance	<u>1520</u>	pH	<u>7.10</u>
Temp. °C	<u>15.25</u>		
Redox Potential Eh (mV)	<u>383</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1156. Tanner and Garr in present for purge and sampling event. Purge began at 1200. Purged well for a total of 255 minutes. Purge ended and samples collected at 1615. Water was clear  
 Left site at 1617

**MW-27 04-28-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-28 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-28\_04212015

Date and Time for Purging 4/21/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-23

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.30

Casing Volume (V) 4" Well: 22.65 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 6°

Time	<u>1132</u>	Gal. Purged	<u>44.41</u>
Conductance	<u>4049</u>	pH	<u>6.11</u>
Temp. °C	<u>14.91</u>		
Redox Potential Eh (mV)	<u>405</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1133</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>4039</u>	pH	<u>6.10</u>
Temp. °C	<u>14.89</u>		
Redox Potential Eh (mV)	<u>404</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1134</u>	Gal. Purged	<u>45.35</u>
Conductance	<u>4043</u>	pH	<u>6.08</u>
Temp. °C	<u>14.89</u>		
Redox Potential Eh (mV)	<u>402</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1135</u>	Gal. Purged	<u>45.57</u>
Conductance	<u>4041</u>	pH	<u>6.08</u>
Temp. °C	<u>14.87</u>		
Redox Potential Eh (mV)	<u>400</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =  208.83

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

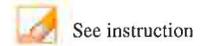
Comment

Arrived on site at 0800. Tanner and Garrin present for purge and sampling event. Purge began at 0805. Purged well for a total of 210 minutes. Purge ended and samples collected at 1135. water was clear  
 Left site at 1145

**MW-28 04-21-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):

Sampler Name and initials:

Field Sample ID

Date and Time for Purging

and Sampling (if different)

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event

Prev. Well Sampled in Sampling Event

pH Buffer 7.0

pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm

Well Depth(0.01ft):

Depth to Water Before Purging

Casing Volume (V) 4" Well:  (.653h)  
3" Well:  (.367h)

Weather Cond.

Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1542"/>	Gal. Purged	<input type="text" value="44.91"/>
Conductance	<input type="text" value="4074"/>	pH	<input type="text" value="6.22"/>
Temp. °C	<input type="text" value="14.47"/>		
Redox Potential Eh (mV)	<input type="text" value="420"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1543"/>	Gal. Purged	<input type="text" value="45.13"/>
Conductance	<input type="text" value="4053"/>	pH	<input type="text" value="6.21"/>
Temp. °C	<input type="text" value="14.43"/>		
Redox Potential Eh (mV)	<input type="text" value="421"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1544"/>	Gal. Purged	<input type="text" value="45.35"/>
Conductance	<input type="text" value="4051"/>	pH	<input type="text" value="6.18"/>
Temp. °C	<input type="text" value="14.45"/>		
Redox Potential Eh (mV)	<input type="text" value="421"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1545"/>	Gal. Purged	<input type="text" value="45.57"/>
Conductance	<input type="text" value="4054"/>	pH	<input type="text" value="6.17"/>
Temp. °C	<input type="text" value="14.41"/>		
Redox Potential Eh (mV)	<input type="text" value="422"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

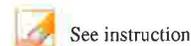
Comment

Arrived on site at 1210. Tanner and Garrin present for purge and sampling event. Purge began at 1215. Purged well for a total of 210 minutes. Purge ended and samples collected at 1545. Water was clear. Left site at 1546 water

**MW-28 04-27-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):

Sampler Name and initials:

Field Sample ID

Date and Time for Purging

and Sampling (if different)

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event

Prev. Well Sampled in Sampling Event

pH Buffer 7.0

pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm

Well Depth(0.01ft):

Depth to Water Before Purging

Casing Volume (V) 4" Well:  (.653h)  
3" Well:  (.367h)

Weather Cond.

Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="0837"/>	Gal. Purged	<input type="text" value="34.06"/>
Conductance	<input type="text" value="4692"/>	pH	<input type="text" value="6.38"/>
Temp. °C	<input type="text" value="14.74"/>		
Redox Potential Eh (mV)	<input type="text" value="294"/>		
Turbidity (NTU)	<input type="text" value="9.3"/>		

Time	<input type="text" value="0838"/>	Gal. Purged	<input type="text" value="34.28"/>
Conductance	<input type="text" value="4685"/>	pH	<input type="text" value="6.36"/>
Temp. °C	<input type="text" value="14.71"/>		
Redox Potential Eh (mV)	<input type="text" value="288"/>		
Turbidity (NTU)	<input type="text" value="9.3"/>		

Time	<input type="text" value="0839"/>	Gal. Purged	<input type="text" value="34.50"/>
Conductance	<input type="text" value="4682"/>	pH	<input type="text" value="6.38"/>
Temp. °C	<input type="text" value="14.70"/>		
Redox Potential Eh (mV)	<input type="text" value="283"/>		
Turbidity (NTU)	<input type="text" value="9.4"/>		

Time	<input type="text" value="0840"/>	Gal. Purged	<input type="text" value="34.72"/>
Conductance	<input type="text" value="4686"/>	pH	<input type="text" value="6.36"/>
Temp. °C	<input type="text" value="14.68"/>		
Redox Potential Eh (mV)	<input type="text" value="280"/>		
Turbidity (NTU)	<input type="text" value="9.5"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0557. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0600 Purged Well for a total of 160 minutes  
 Purge ended and samples collected at 0840. water was mostly clear  
 Left site at 0850

**MW-29 04-30-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



See instruction

Description of Sampling Event:

Location (well name):

Sampler Name and initials:

Field Sample ID

Date and Time for Purging

and Sampling (if different)

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event

Prev. Well Sampled in Sampling Event

pH Buffer 7.0

pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm

Well Depth(0.01ft):

Depth to Water Before Purging

Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.

Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1622"/>	Gal. Purged	<input type="text" value="46.00"/>
Conductance	<input type="text" value="2063"/>	pH	<input type="text" value="6.59"/>
Temp. °C	<input type="text" value="14.58"/>		
Redox Potential Eh (mV)	<input type="text" value="364"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1623"/>	Gal. Purged	<input type="text" value="46.22"/>
Conductance	<input type="text" value="2062"/>	pH	<input type="text" value="6.63"/>
Temp. °C	<input type="text" value="14.56"/>		
Redox Potential Eh (mV)	<input type="text" value="361"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1624"/>	Gal. Purged	<input type="text" value="46.43"/>
Conductance	<input type="text" value="2062"/>	pH	<input type="text" value="6.67"/>
Temp. °C	<input type="text" value="14.55"/>		
Redox Potential Eh (mV)	<input type="text" value="358"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1625"/>	Gal. Purged	<input type="text" value="46.65"/>
Conductance	<input type="text" value="2063"/>	pH	<input type="text" value="6.67"/>
Temp. °C	<input type="text" value="14.54"/>		
Redox Potential Eh (mV)	<input type="text" value="355"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 2447. Tanner and Garrin present for purge and sampling event. Purge began at 1250. Purged well for a total of 215 minutes. water was clear. Purge ended and samples collected at 1625. Left site at 1635

**MW-30 04-08-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



See instruction

Description of Sampling Event: 2nd Quarter Groundwater 2015

Location (well name): MW-31 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID MW-31-04072015

Date and Time for Purging 4/7/2015 and Sampling (if different) NA

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event NA

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 130<sup>00</sup>

Depth to Water Before Purging 68.42 Casing Volume (V) 4" Well: 40.21 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>1427</u>	Gal. Purged	<u>83.97</u>
Conductance	<u>2182</u>	pH	<u>6.67</u>
Temp. °C	<u>14.63</u>		
Redox Potential Eh (mV)	<u>412</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1428</u>	Gal. Purged	<u>84.19</u>
Conductance	<u>2152</u>	pH	<u>6.75</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>406</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1429</u>	Gal. Purged	<u>84.41</u>
Conductance	<u>2179</u>	pH	<u>6.76</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>404</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1430</u>	Gal. Purged	<u>84.63</u>
Conductance	<u>2163</u>	pH	<u>6.80</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)	<u>401</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time



See instruction

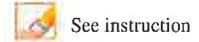
Comment

Arrived on site at 0750. Garrison present for purge. Purge began at 0800. Purge well for a total of 390 minutes. Water was clear. Purge ended and samples collected at 1430. Left site at 1441

**MW-31 04-07-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-32 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-32\_04082015

Date and Time for Purging 4/8/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly G-W Prev. Well Sampled in Sampling Event MW-25

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 132.50

Depth to Water Before Purging 76.52 Casing Volume (V) 4" Well: 36.55 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Windy Ext'l Amb. Temp. °C (prior sampling event) 3°

Time	<u>1207</u>	Gal. Purged	<u>74.21</u>
Conductance	<u>3855</u>	pH	<u>6.35</u>
Temp. °C	<u>14.39</u>		
Redox Potential Eh (mV)	<u>262</u>		
Turbidity (NTU)	<u>61</u>		

Time	<u>1208</u>	Gal. Purged	<u>74.45</u>
Conductance	<u>3854</u>	pH	<u>6.36</u>
Temp. °C	<u>14.43</u>		
Redox Potential Eh (mV)	<u>248</u>		
Turbidity (NTU)	<u>63</u>		

Time	<u>1209</u>	Gal. Purged	<u>74.68</u>
Conductance	<u>3871</u>	pH	<u>6.40</u>
Temp. °C	<u>14.39</u>		
Redox Potential Eh (mV)	<u>242</u>		
Turbidity (NTU)	<u>65</u>		

Time	<u>1210</u>	Gal. Purged	<u>74.86</u>
Conductance	<u>3868</u>	pH	<u>6.37</u>
Temp. °C	<u>14.38</u>		
Redox Potential Eh (mV)	<u>235</u>		
Turbidity (NTU)	<u>66</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

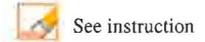
Comment

Arrived on site at 0650. Tanner and Garrin present for purge and sampling event. Purge began at 0655. Purged well for a total of 345 minutes. Water was mostly clear. Purge ended and samples collected at 1210

**MW-32 04-08-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-35 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-35\_04092015

Date and Time for Purging 4/9/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event MW-30

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.41 Casing Volume (V) 4" Well: 7.89 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) -2°

Time	<u>0752</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>4189</u>	pH	<u>6.65</u>
Temp. °C	<u>13.59</u>		
Redox Potential Eh (mV)	<u>268</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0753</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>4189</u>	pH	<u>6.66</u>
Temp. °C	<u>13.56</u>		
Redox Potential Eh (mV)	<u>271</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0754</u>	Gal. Purged	<u>16.05</u>
Conductance	<u>4186</u>	pH	<u>6.65</u>
Temp. °C	<u>13.60</u>		
Redox Potential Eh (mV)	<u>272</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0755</u>	Gal. Purged	<u>16.27</u>
Conductance	<u>4183</u>	pH	<u>6.64</u>
Temp. °C	<u>13.61</u>		
Redox Potential Eh (mV)	<u>274</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

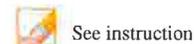
Comment

Arrived on site at 0635 Tanner and Garrin present for purge and sampling event. Purge began at 0640. Purged well for a total of 75 minutes. water was clear Purge ended and samples collected at 0755. Left site at 0805

**MW-35 04-09-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Groundwater 2015

Location (well name): MW-36

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-36\_04162015

Date and Time for Purging 4/16/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-01

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 121.60

Depth to Water Before Purging 110.40

Casing Volume (V) 4" Well: 7.31 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly cloudy

Ext'l Amb. Temp. °C (prior sampling event) -1°

Time	<u>0757</u>	Gal. Purged	<u>14.53</u>
Conductance	<u>4957</u>	pH	<u>6.85</u>
Temp. °C	<u>13.94</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0758</u>	Gal. Purged	<u>14.75</u>
Conductance	<u>4960</u>	pH	<u>6.86</u>
Temp. °C	<u>13.90</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0759</u>	Gal. Purged	<u>14.91</u>
Conductance	<u>4949</u>	pH	<u>6.86</u>
Temp. °C	<u>13.92</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0800</u>	Gal. Purged	<u>15.19</u>
Conductance	<u>4949</u>	pH	<u>6.87</u>
Temp. °C	<u>13.90</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

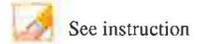
Comment

Arrived on site at 0645 Tanner and Garrin present for purge and sampling event. Purge began at 0650. Purged well for a total of 70 minutes. Water was clear. Purge ended and samples collected at 0800. Left site at 0809

**MW-36 04-16-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Groundwater 2015

Location (well name): MW-37 Sampler Name and initials: Tanner Holliday/TTH

Field Sample ID: MW-37-05272015

Date and Time for Purging: 5/5/2015 and Sampling (if different): 5/27/2015

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): N/A

Purging Method Used:  2 casings  3 casings

Sampling Event: Quarterly GW Prev. Well Sampled in Sampling Event: MW-29

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 121.80

Depth to Water Before Purging: 107.21 Casing Volume (V) 4" Well: 9.52 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Raining Ext'l Amb. Temp. °C (prior sampling event) 16

Time	<u>1415</u>	Gal. Purged	<u>5.0</u>
Conductance	<u>4450</u>	pH	<u>6.00</u>
Temp. °C	<u>14.23</u>		
Redox Potential Eh (mV)	<u>259</u>		
Turbidity (NTU)	<u>13.5</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1329</u>	Gal. Purged	<u>0</u>
Conductance	<u>4267</u>	pH	<u>6.85</u>
Temp. °C	<u>16.78</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1336</u>	Gal. Purged	<u>0</u>
Conductance	<u>4315</u>	pH	<u>6.82</u>
Temp. °C	<u>16.49</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

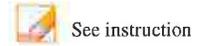
Comment

Arrived on site at 1403. Tanner and Terry present to bail MW-37. Bailing began at 1408. Baled 5 Gallons into a bucket and took 1 set of parameters. Bailed a total of 15 Gallons. Bailed well dry! water started out clear but finished a little dirty finished bailing at 1434. Left site at 1435.  
Arrived on site at 1325. Tanner present to collect samples. Depth to water was 111.75 Samples bailed at 1330 Left site at 1338

**MW-37 05-05-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: 2nd Quarter Ground Water 2015

Location (well name): MW-37 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-37\_06242015

Date and Time for Purging 6/3/2015 and Sampling (if different) 6/24/2015

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) N/A

Purging Method Used:  2 casings  3 casings

Sampling Event Quarterly GW Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 121.80

Depth to Water Before Purging 111.20 Casing Volume (V) 4" Well: 6.92 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 26°

Time	<u>1502</u>	Gal. Purged	<u>5</u>
Conductance	<u>4469</u>	pH	<u>6.80</u>
Temp. °C	<u>15.34</u>		
Redox Potential Eh (mV)	<u>353</u>		
Turbidity (NTU)	<u>13.2</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0819</u>	Gal. Purged	<u>0</u>
Conductance	<u>4336</u>	pH	<u>6.75</u>
Temp. °C	<u>15.75</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0822</u>	Gal. Purged	<u>0</u>
Conductance	<u>4349</u>	pH	<u>6.74</u>
Temp. °C	<u>15.69</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged <sup>144</sup>  gallon(s)

Pumping Rate Calculation <sup>16.25</sup> <sub>1.6</sub>

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1445. Tanner and Garrin present for purge. Bailing began at 1448. Bailed a total of 8 Gallons. Bailed well dry. Water was mostly clear. Purge ended at 1506. Left site at 1508

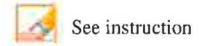
Arrived on site at 0812. Tanner and Garrin present to collect samples. Depth to water was 113.45. Samples bailed at 0820. Left site at 0823

MW-37 06-03-2015

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time



See instruction

Comment

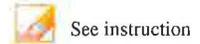
Duplicate of MW-35

MW-65 04-09-2015

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):

Sampler Name and initials:

Field Sample ID

MW-70\_04302015

Date and Time for Purging

and Sampling (if different)

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event

Prev. Well Sampled in Sampling Event

pH Buffer 7.0

pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm

Well Depth(0.01ft):

Depth to Water Before Purging

Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.

Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

*General Inorganics*

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

*Duplicate of MW-29*

**MW-70 04-30-2015** Do not touch this cell (SheetName)

**Tab C**

**Field Data Worksheets Accelerated Monitoring**

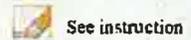
Tab C1

Field Data Worksheets Accelerated Monitoring

May 2015



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: May Ground Water 2015

Location (well name): MW-11 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-11-05112015

Date and Time for Purging: 5/11/2015 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-25

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μMHOS/cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 86.30 Casing Volume (V) 4" Well: 28.53 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 14°

Time 1532 Gal. Purged 57.93

Conductance 2911 pH 7.19

Temp. °C 15.11

Redox Potential Eh (mV) 320

Turbidity (NTU) 0

Time 1533 Gal. Purged 58.15

Conductance 2890 pH 7.22

Temp. °C 15.08

Redox Potential Eh (mV) 308

Turbidity (NTU) 0

Time 1534 Gal. Purged 58.37

Conductance 2875 pH 7.25

Temp. °C 15.10

Redox Potential Eh (mV) 300

Turbidity (NTU) 0

Time 1535 Gal. Purged 58.59

Conductance 2874 pH 7.26

Temp. °C 15.12

Redox Potential Eh (mV) 295

Turbidity (NTU) 0

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1101. Tanner and Gurrin present for purge and sampling event  
Purge began at 1105. Purged well for a total of 270 minutes.  
Purge ended and sample collected at 1535. water was clear.  
Left site at 1537.



Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

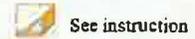
Comment

Arrived on site at 1310. Tanner and Garrin present for purge. Purge began at 1315. Purged well for a total of 160 minutes. Purge ended at 1555. Water was clear. Left site at 1557.

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ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: May Ground Water 2015

Location (well name): MW-25 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-25\_05112015

Date and Time for Purging: 5/11/2015 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-31

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000  $\mu$ MHOS/cm Well Depth(0.01ft): 115.00

Depth to Water Before Purging: 75.80 Casing Volume (V) 4" Well: 25.59 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>1052</u>	Gal. Purged	<u>51.42</u>
Conductance	<u>3177</u>	pH	<u>6.31</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>436</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1053</u>	Gal. Purged	<u>51.64</u>
Conductance	<u>3182</u>	pH	<u>6.43</u>
Temp. °C	<u>14.55</u>		
Redox Potential Eh (mV)	<u>435</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1054</u>	Gal. Purged	<u>51.86</u>
Conductance	<u>3177</u>	pH	<u>6.44</u>
Temp. °C	<u>14.56</u>		
Redox Potential Eh (mV)	<u>433</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1055</u>	Gal. Purged	<u>52.08</u>
Conductance	<u>3172</u>	pH	<u>6.46</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>432</u>		
Turbidity (NTU)	<u>0</u>		

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Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

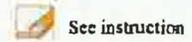
**Comment**

Arrived on site at 0652. Tanner and Garrin present for purge and sampling event. Purge began at 0655. Purged well for a total of 240 minutes. Purge ended and samples collected at 1055. water was clear. Left site at 1058

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ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: May Ground Water 2015

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-26\_05122015

Date and Time for Purging 5/12/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) Continuous

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-30

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/cm

Well Depth(0.01ft): 121.33

Depth to Water Before Purging 67.46

Casing Volume (V) 4" Well: 35.17 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny, Windy

Ext'l Amb. Temp. °C (prior sampling event) 11°

Time	<u>0949</u>	Gal. Purged	<u>0</u>
Conductance	<u>3378</u>	pH	<u>6.46</u>
Temp. °C	<u>15.0i</u>		
Redox Potential Eh (mV)	<u>319</u>		
Turbidity (NTU)	<u>0</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
S/60 =

Time to evacuate two casing volumes (2V)  
T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

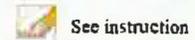
Arrived on site at 0945 Tanner and Garrin present to collect samples  
samples collected at 0950 water was  
Left site at 0955

Continuous Pumping well

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ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: May Ground Water 2015

Location (well name): MW-30 Sampler Name and initials: Tanner Holiday / TH

Field Sample ID: MW-30-05122015

Date and Time for Purging: 5/12/2015 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-35

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000  $\mu$ MHOS/cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 75.37 Casing Volume (V) 4" Well: 22.61 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) 7°

Time 1007 Gal. Purged 44.91

Conductance 2050 pH 6.79

Temp. °C 14.69

Redox Potential Eh (mV) 239

Turbidity (NTU) 0

Time 1008 Gal. Purged 45.13

Conductance 2045 pH 6.75

Temp. °C 14.70

Redox Potential Eh (mV) 252

Turbidity (NTU) 0

Time 1009 Gal. Purged 45.35

Conductance 2049 pH 6.75

Temp. °C 14.65

Redox Potential Eh (mV) 257

Turbidity (NTU) 0

Time 1010 Gal. Purged 45.57

Conductance 2048 pH 6.76

Temp. °C 14.64

Redox Potential Eh (mV) 263

Turbidity (NTU) 0

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

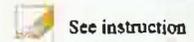
Arrived on site at 0635. Tanner and Gurrin present for purge and sampling event. Purge began at 0640. Purged well for a total of 210 minutes. Water was clear. Purge ended and samples collected at 1010. Left site at 1017.

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6682295  
383915  
7.0  
12.24  
29242



ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: May Ground Water 2015

Location (well name): MW-31 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID MW-31-05112015

Date and Time for Purging 5/11/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 68.55

Casing Volume (V) 4" Well: 40.12 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 5°

Time	<u>1257</u>	Gal. Purged	<u>81.80</u>
Conductance	<u>2174</u>	pH	<u>6.61</u>
Temp. °C	<u>15.35</u>		
Redox Potential Eh (mV)	<u>384</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1258</u>	Gal. Purged	<u>82.02</u>
Conductance	<u>2180</u>	pH	<u>6.66</u>
Temp. °C	<u>15.31</u>		
Redox Potential Eh (mV)	<u>380</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1259</u>	Gal. Purged	<u>82.24</u>
Conductance	<u>2180</u>	pH	<u>6.70</u>
Temp. °C	<u>15.30</u>		
Redox Potential Eh (mV)	<u>376</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1300</u>	Gal. Purged	<u>82.46</u>
Conductance	<u>2163</u>	pH	<u>6.74</u>
Temp. °C	<u>15.25</u>		
Redox Potential Eh (mV)	<u>373</u>		
Turbidity (NTU)	<u>0</u>		

103.26

Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

See instruction

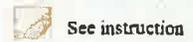
**Comment**

Arrived on site at 0636. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0640. Purged well for a total of 380 minutes.  
 Purge ended and samples collected at 1300. water was clear.  
 Left site at 1305.

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ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event: May Ground Water 2015

Location (well name): MW-35 Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: MW-35\_05122015

Date and Time for Purging: 5/12/2015 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): RED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-14

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000  $\mu$ MHOS/cm Well Depth(0.01ft): 124.50

Depth to Water Before Purging: 112.40 Casing Volume (V) 4" Well: 7.90 (.653h)  
 3" Well: c (.367h)

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) 7°

Time 0742 Gal. Purged 15.62  
 Conductance 4127 pH 6.47  
 Temp. °C 14.25  
 Redox Potential Eh (mV) 375  
 Turbidity (NTU) 0

Time 0743 Gal. Purged 15.84  
 Conductance 4127 pH 6.47  
 Temp. °C 14.27  
 Redox Potential Eh (mV) 369  
 Turbidity (NTU) 0

Time 0744 Gal. Purged 16.05  
 Conductance 4124 pH 6.46  
 Temp. °C 14.27  
 Redox Potential Eh (mV) 365  
 Turbidity (NTU) 0

Time 0745 Gal. Purged 16.27  
 Conductance 4126 pH 6.46  
 Temp. °C 14.24  
 Redox Potential Eh (mV) 362  
 Turbidity (NTU) 0

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Volume of Water Purged  gallon(s)

**Pumping Rate Calculation**

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

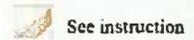
**Comment**

Arrived on site at 0626. Tanner and Garrin present for purge and sampling event. Purge began at 0630. Purged well for a total of 75 minutes. Water was clear. Purge ended and samples collected at 0745. Left site at 0755

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ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

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Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Duplicate of MW-35

Do not touch this cell (SheetName)

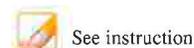
Tab C2

Field Data Worksheets Accelerated Monitoring

June 2015



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1527"/>	Gal. Purged	<input type="text" value="57.93"/>
Conductance	<input type="text" value="2980"/>	pH	<input type="text" value="7.61"/>
Temp. °C	<input type="text" value="15.45"/>		
Redox Potential Eh (mV)	<input type="text" value="380"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1528"/>	Gal. Purged	<input type="text" value="58.15"/>
Conductance	<input type="text" value="2913"/>	pH	<input type="text" value="7.60"/>
Temp. °C	<input type="text" value="15.44"/>		
Redox Potential Eh (mV)	<input type="text" value="372"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1529"/>	Gal. Purged	<input type="text" value="58.37"/>
Conductance	<input type="text" value="2915"/>	pH	<input type="text" value="7.56"/>
Temp. °C	<input type="text" value="15.42"/>		
Redox Potential Eh (mV)	<input type="text" value="356"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1530"/>	Gal. Purged	<input type="text" value="58.59"/>
Conductance	<input type="text" value="2925"/>	pH	<input type="text" value="7.53"/>
Temp. °C	<input type="text" value="15.40"/>		
Redox Potential Eh (mV)	<input type="text" value="349"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

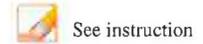
Comment

Arrived on site at 1056. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1100. Purged well for a total of 270 minutes.  
 Purge ended and sample collected at 1530. Left site at 1532  
 Water was clear.

**MW-11 06-01-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015 Resample

Location (well name): MW-11

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-11-06232015

Date and Time for Purging 6/23/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-25

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 86.25

Casing Volume (V) 4" Well: 28.56 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 29°

Time	<u>1507</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>2911</u>	pH	<u>7.43</u>
Temp. °C	<u>15.25</u>		
Redox Potential Eh (mV)	<u>213</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1508</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>2861</u>	pH	<u>7.42</u>
Temp. °C	<u>15.26</u>		
Redox Potential Eh (mV)	<u>260</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1509</u>	Gal. Purged	<u>58.31</u>
Conductance	<u>2852</u>	pH	<u>7.40</u>
Temp. °C	<u>15.29</u>		
Redox Potential Eh (mV)	<u>236</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1510</u>	Gal. Purged	<u>58.59</u>
Conductance	<u>2881</u>	pH	<u>7.39</u>
Temp. °C	<u>15.27</u>		
Redox Potential Eh (mV)	<u>230</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

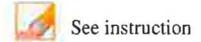
Comment

Arrived on site at 1035. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1040. Purged well for a total of 270 minutes  
 Purge ended and sample collected at 1510. water was clear  
 Left site at 1513

**MW-11 06-23-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015

Location (well name): MW-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-14\_06012015

Date and Time for Purging 6/1/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-11

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 128.70

Depth to Water Before Purging 103.20

Casing Volume (V) 4" Well: 16.65 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 26°  
26°

Time	<u>1557</u>	Gal. Purged	<u>32.98</u>
Conductance	<u>3908</u>	pH	<u>6.74</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>405</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1558</u>	Gal. Purged	<u>33.20</u>
Conductance	<u>3980</u>	pH	<u>6.70</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>411</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1559</u>	Gal. Purged	<u>33.41</u>
Conductance	<u>3962</u>	pH	<u>6.68</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>415</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1600</u>	Gal. Purged	<u>33.65</u>
Conductance	<u>3973</u>	pH	<u>6.65</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>416</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

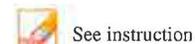
Comment

Arrived on site at 1320. Tanner and Garrin present for purge  
 Purge began at 1325. Purged well for a total of 155 minutes.  
 Purge ended at 1600. water was clear Left site at 1602

**MW-14 06-01-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015

Location (well name): MW-25 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-25\_06012015

Date and Time for Purging 6/1/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 115.00

Depth to Water Before Purging 76.85

Casing Volume (V) 4" Well: 24.91 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>1037</u>	Gal. Purged	<u>51.42</u>
Conductance	<u>3225</u>	pH	<u>6.65</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>463</u>		
Turbidity (NTU)	<u>20</u>		

Time	<u>1038</u>	Gal. Purged	<u>51.64</u>
Conductance	<u>3216</u>	pH	<u>6.6</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>463</u>		
Turbidity (NTU)	<u>21</u>		

Time	<u>1039</u>	Gal. Purged	<u>51.86</u>
Conductance	<u>3220</u>	pH	<u>6.60</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>462</u>		
Turbidity (NTU)	<u>22</u>		

Time	<u>1040</u>	Gal. Purged	<u>52.08</u>
Conductance	<u>3226</u>	pH	<u>6.59</u>
Temp. °C	<u>14.93</u>		
Redox Potential Eh (mV)	<u>462</u>		
Turbidity (NTU)	<u>22</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

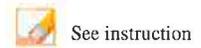
Comment

Arrived on site at 0635. Tanner and Garrin present for purge and sampling event  
 Purge began at 0640. Purged well for a total of 240 minutes. water was mostly clear.  
 Purge ended and samples collected at 1040. Left site at 1044

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**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):  Sampler Name and initials:

Field Sample ID

Date and Time for Purging  and Sampling (if different)

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event  Prev. Well Sampled in Sampling Event

pH Buffer 7.0  pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm Well Depth(0.01ft):

Depth to Water Before Purging  Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.  Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1015"/> 1022	Gal. Purged	<input type="text" value="51.92"/>
Conductance	<input type="text" value="3185"/>	pH	<input type="text" value="6.57"/>
Temp. °C	<input type="text" value="15.10"/>		
Redox Potential Eh (mV)	<input type="text" value="355"/>		
Turbidity (NTU)	<input type="text" value="16.5"/>		

Time	<input type="text" value="1016"/> 1023	Gal. Purged	<input type="text" value="51.64"/>
Conductance	<input type="text" value="3182"/>	pH	<input type="text" value="6.55"/>
Temp. °C	<input type="text" value="15.11"/>		
Redox Potential Eh (mV)	<input type="text" value="355"/>		
Turbidity (NTU)	<input type="text" value="17"/>		

Time	<input type="text" value="1017"/> 1024	Gal. Purged	<input type="text" value="51.86"/>
Conductance	<input type="text" value="3169"/>	pH	<input type="text" value="6.53"/>
Temp. °C	<input type="text" value="15.09"/>		
Redox Potential Eh (mV)	<input type="text" value="355"/>		
Turbidity (NTU)	<input type="text" value="18"/>		

Time	<input type="text" value="1018"/> 1025	Gal. Purged	<input type="text" value="52.08"/>
Conductance	<input type="text" value="3169"/>	pH	<input type="text" value="6.53"/>
Temp. °C	<input type="text" value="15.08"/>		
Redox Potential Eh (mV)	<input type="text" value="354"/>		
Turbidity (NTU)	<input type="text" value="18"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HNO3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

Heavy Metals only

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time   
 1025

 See instruction

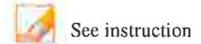
Comment

Arrived on site at 0622. Tanner and Garrin present for purge and sampling event  
 Purge began at 0625. Purged well for a total of 240 minutes. Purge ended  
 and samples collected at 1025. water was mostly clear  
 Left site at 1028

**MW-25 06-23-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event:

Location (well name):

Sampler Name and initials:

Field Sample ID

Date and Time for Purging

and Sampling (if different)

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet)

Purging Method Used:  2 casings  3 casings

Sampling Event

Prev. Well Sampled in Sampling Event

pH Buffer 7.0

pH Buffer 4.0

Specific Conductance   $\mu$ MHOS/ cm

Well Depth(0.01ft):

Depth to Water Before Purging

Casing Volume (V) 4" Well:  (.653h)  
 3" Well:  (.367h)

Weather Cond.

Ext'l Amb. Temp. °C (prior sampling event)

Time	<input type="text" value="1359"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3498"/>	pH	<input type="text" value="6.58"/>
Temp. °C	<input type="text" value="16.64"/>		
Redox Potential Eh (mV)	<input type="text" value="406"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

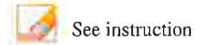
Arrived on site at 1355. Tanner and Garrin present to collect samples. Samples collected at 1400. water was mostly clear. Left site at 1405

Continuous Pumping Well

**MW-26 06-03-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground water 2015 Resample

Location (well name): MW-26 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-26\_06242015

Date and Time for Purging 6/24/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) Continuous

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event MW-30

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 121.33

Depth to Water Before Purging 66.12 Casing Volume (V) 4" Well: 36.05 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 32°

Time	<u>1239</u>	Gal. Purged	<u>0</u>
Conductance	<u>3560</u>	pH	<u>6.20</u>
Temp. °C	<u>16.25</u>		
Redox Potential Eh (mV)	<u>376</u>		
Turbidity (NTU)	<u>1.5</u>		

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time		Gal. Purged	
Conductance		pH	
Temp. °C			
Redox Potential Eh (mV)			
Turbidity (NTU)			

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

Final Depth   
~~79.59'~~

Sample Time

 See instruction

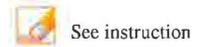
Comment

Arrived on site at 1235 Tanner and Garrin present to collect samples.  
 Samples collected at 1240 water was clear  
 Left site at 1245  
 Continuous Pumping Well

**MW-26 06-24-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015

Location (well name): MW-30

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-30\_06022015

Date and Time for Purging 6/2/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-14

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.40

Casing Volume (V) 4" Well: 22.59 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>1007</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>2122</u>	pH	<u>6.96</u>
Temp. °C	<u>15.39</u>		
Redox Potential Eh (mV)	<u>409</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1008</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>2132</u>	pH	<u>6.96</u>
Temp. °C	<u>15.35</u>		
Redox Potential Eh (mV)	<u>407</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1009</u>	Gal. Purged	<u>45.35</u>
Conductance	<u>2136</u>	pH	<u>6.95</u>
Temp. °C	<u>15.57</u>		
Redox Potential Eh (mV)	<u>400</u>		
Turbidity (NTU)	<u>0</u>		

Time	<del>1008</del> <u>1010</u>	Gal. Purged	<u>45.57</u>
Conductance	<u>2135</u>	pH	<u>6.99</u>
Temp. °C	<u>15.39</u>		
Redox Potential Eh (mV)	<u>399</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time   
 1010

 See instruction

Comment

Arrived on site at 0635. Tanner and Garrin present for purge and sampling event. Purge began at 0640. Purged well for a total of 210 minutes. Water was clear. Purge ended and samples collected at 1020. Left site at ~~1020~~ 1020

**MW-30 06-02-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015 Resample

Location (well name): MW-30 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-30\_06242015

Date and Time for Purging 6/24/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event MW-35

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.50 Casing Volume (V) 4" Well: 22.52 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Cloudy Ext'l Amb. Temp. °C (prior sampling event) 20°

Time	<u>1012</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>2064</u>	pH	<u>6.32</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>455</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1013</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>2052</u>	pH	<u>6.31</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>452</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1014</u>	Gal. Purged	<u>45.35</u>
Conductance	<u>2046</u>	pH	<u>6.31</u>
Temp. °C	<u>14.97</u>		
Redox Potential Eh (mV)	<u>450</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1015</u>	Gal. Purged	<u>45.57</u>
Conductance	<u>2042</u>	pH	<u>6.32</u>
Temp. °C	<u>14.96</u>		
Redox Potential Eh (mV)	<u>448</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 0641. Tanner and Garrin present for purge and sampling event. Purge began at 0645. Purged well for a total of 210 minutes. Purge ended and samples collected at 1015. Water was clear. Left site at 1022

**MW-30 06-24-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015

Location (well name): MW-31

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-31-06012015

Date and Time for Purging 6/1/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-25

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 68.49

Casing Volume (V) 4" Well: 40.16 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly cloudy

Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>1307</u>	Gal. Purged	<u>80.72</u>
Conductance	<u>2239</u>	pH	<u>7.23</u>
Temp. °C	<u>15.55</u>		
Redox Potential Eh (mV)	<u>427</u>		
Turbidity (NTU)	<u>20</u>	2.0	

Time	<u>1308</u>	Gal. Purged	<u>80.94</u>
Conductance	<u>2217</u>	pH	<u>7.18</u>
Temp. °C	<u>15.46</u>		
Redox Potential Eh (mV)	<u>429</u>		
Turbidity (NTU)	<u>20</u>	2.0	

Time	<u>1309</u>	Gal. Purged	<u>81.15</u>
Conductance	<u>2202</u>	pH	<u>7.15</u>
Temp. °C	<u>15.56</u>		
Redox Potential Eh (mV)	<u>431</u>		
Turbidity (NTU)	<u>21</u>	2.1	

Time	<u>1310</u>	Gal. Purged	<u>81.37</u>
Conductance	<u>2208</u>	pH	<u>7.14</u>
Temp. °C	<u>15.51</u>		
Redox Potential Eh (mV)	<u>431</u>		
Turbidity (NTU)	<u>20</u>	2.0	

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

TDS  
 Sulfate  
 Chloride

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

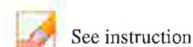
Comment

Arrived on site at 0651. Tanner and Garrin present for purge and sampling event  
 Purge began at 0655. Purged well for a total of 375 minutes. Purge ended and samples collected at 1310. Water was clear. Left site at 1317

**MW-31 06-01-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015 Resample

Location (well name): MW-31 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-31-06232015

Date and Time for Purging 6/23/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) GED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 68.55

Casing Volume (V) 4" Well: 40.12 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 22°

Time	<u>1232</u>	Gal. Purged	<u>80.72</u>
Conductance	<u>2206</u>	pH	<u>7.15</u>
Temp. °C	<u>15.43</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>110</u>		

Time	<u>1233</u>	Gal. Purged	<u>80.94</u>
Conductance	<u>2188</u>	pH	<u>7.11</u>
Temp. °C	<u>15.40</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>112</u>		

Time	<u>1234</u>	Gal. Purged	<u>81.15</u>
Conductance	<u>2177</u>	pH	<u>7.10</u>
Temp. °C	<u>15.37</u>		
Redox Potential Eh (mV)	<u>328</u>		
Turbidity (NTU)	<u>114</u>		

Time	<u>1235</u>	Gal. Purged	<u>81.37</u>
Conductance	<u>2178</u>	pH	<u>7.08</u>
Temp. °C	<u>15.35</u>		
Redox Potential Eh (mV)	<u>328</u>		
Turbidity (NTU)	<u>118</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

General Inorganics

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

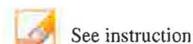
Comment

Arrived on site at 0615. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0620. Purged well for a total of 375 minutes  
 Purge ended at 1235. Water was a little murky with alot of little air bubbles.  
 Left site at 1240

**MW-31 06-23-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
WHITE MESA URANIUM MILL  
FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015

Location (well name): MW-35 Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: MW-35\_06022015

Date and Time for Purging: 6/2/2015 and Sampling (if different): N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet): QED

Purging Method Used:  2 casings  3 casings

Sampling Event: Monthly GW Prev. Well Sampled in Sampling Event: MW-30

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1600 μMHOS/ cm Well Depth(0.01ft): 124.50

Depth to Water Before Purging: 112.34 Casing Volume (V) 4" Well: 7.94 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<u>0802</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>4180</u>	pH	<u>6.59</u>
Temp. °C	<u>14.99</u>		
Redox Potential Eh (mV)	<u>412</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0803</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>4180</u>	pH	<u>6.54</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>410</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0804</u>	Gal. Purged	<u>16.05</u>
Conductance	<u>4181</u>	pH	<u>6.52</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>408</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0805</u>	Gal. Purged	<u>16.27</u>
Conductance	<u>4182</u>	pH	<u>6.50</u>
Temp. °C	<u>14.62</u>		
Redox Potential Eh (mV)	<u>405</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

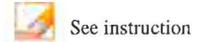
Comment

Arrived on site 0646. Tanner and Garrin present for purge and sampling event. Purge began at 0650. Purged well for a total of 75 minutes. Water was clear. Purge ended and samples were collected at 0805. Left site at 0815

**MW-35 06-02-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015 Resample

Location (well name): MW-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-35\_06232015

Date and Time for Purging 6/23/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) OED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-11

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.40

Casing Volume (V) 4" Well: 7.90 (.653h)  
 3" Well: 6 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 34°

Time	<u>1402</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>4078</u>	pH	<u>6.52</u>
Temp. °C	<u>15.74</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1403</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>4205</u>	pH	<u>6.45</u>
Temp. °C	<u>15.75</u>		
Redox Potential Eh (mV)	<u>336</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1404</u>	Gal. Purged	<u>16.05</u>
Conductance	<u>4198</u>	pH	<u>6.43</u>
Temp. °C	<u>15.75</u>		
Redox Potential Eh (mV)	<u>330</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1405</u>	Gal. Purged	<u>16.27</u>
Conductance	<u>4180</u>	pH	<u>6.41</u>
Temp. °C	<u>15.72</u>		
Redox Potential Eh (mV)	<u>327</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input type="checkbox"/>	H2SO4	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

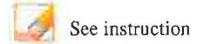
Comment

Arrived on site at 1246. Tanner and Garrin present for purge and sampling event  
 Purge began at 1250. Purged well for a total of 75 minutes  
 Purge ended and samples collected at 1405. Water was clear  
 Left site at 1408

**MW-35 06-23-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015

Location (well name): MW-65

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID MW-65\_06022015

Date and Time for Purging 6/2/2015

and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer

Well Pump (if other than Bennet) QED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW

Prev. Well Sampled in Sampling Event MW-14

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.40

Casing Volume (V) 4" Well: 22.59 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 17°

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 S/60 =

Time to evacuate two casing volumes (2V)  
 T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

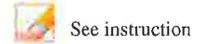
Comment

Duplicate of MW-30

**MW-65 06-02-2015** Do not touch this cell (SheetName)



**ATTACHMENT 1-2  
 WHITE MESA URANIUM MILL  
 FIELD DATA WORKSHEET FOR GROUNDWATER**



Description of Sampling Event: June Ground Water 2015 Resample

Location (well name): MW-65 Sampler Name and initials: Tanner

Field Sample ID MW-65-06242015

Date and Time for Purging 6/24/2015 and Sampling (if different) N/A

Well Purging Equip Used:  pump or  bailer Well Pump (if other than Bennet) GED

Purging Method Used:  2 casings  3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event MW-35

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000  $\mu$ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.50 Casing Volume (V) 4" Well: 22.52 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Cloudy Ext'l Amb. Temp. °C (prior sampling event) 20°

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Time	<input type="text"/>	Gal. Purged	<input type="text"/>
Conductance	<input type="text"/>	pH	<input type="text"/>
Temp. °C	<input type="text"/>		
Redox Potential Eh (mV)	<input type="text"/>		
Turbidity (NTU)	<input type="text"/>		

Volume of Water Purged  gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.  
 $S/60 =$

Time to evacuate two casing volumes (2V)  
 $T = 2V/Q =$

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input type="checkbox"/>	HCL	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologies	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If preservative is used, specify Type and Quantity of Preservative:

Final Depth

Sample Time

 See instruction

Comment

Duplicate of MW-30

**MW-65 06-24-2015** Do not touch this cell (SheetName)

Tab D  
Quarterly Depth to Water

NAME: Garrin Palmer, Tanner Holliday

DATE: 6/22/15

Time	Well	Depth to Water (ft.)	Time	Well	Depth to Water (ft.)	Time	Well	Depth to Water (ft.)	Time	Well	Depth to Water (ft.)
955	MW-1	64.15	1058	MW-4	66.31	941	PIEZ-1	64.45	NA	DR-1	ABANDON
815	MW-2	109.82	1100	TW4-1	74.40	937	PIEZ-2	37.66	NA	DR-2	ABANDON
757	MW-3	82.70	1055	TW4-2	73.42	932	PIEZ-3	52.08			
757	MW-3A	84.71	1551	TW4-3	55.61	1606	PIEZ-4	56.86			
836	MW-5	106.20	1103	TW4-4	73.82	1603	PIEZ-5	56.25	1357	DR-5	83.10
804	MW-11	86.25	1548	TW4-5	63.24				1401	DR-6	94.30
838	MW-12	108.35	1557	TW4-6	71.00	927	TWN-1	61.30	849	DR-7	92.20
902	MW-14	103.30	1555	TW4-7	65.19	1033	TWN-2	28.05	1352	DR-8	51.26
858	MW-15	106.25	1552	TW4-8	73.60	1006	TWN-3	38.50	1350	DR-9	86.55
744	MW-17	72.15	1550	TW4-9	61.11	934	TWN-4	53.70	1347	DR-10	78.19
1002	MW-18	71.75	1546	TW4-10	60.91		TWN-5	ABANDON	752	DR-11	98.27
939	MW-19	60.84	1052	TW4-11	96.55	952	TWN-6	77.90	749	DR-12	90.74
1253	MW-20	90.15	736	TW4-12	45.00	959	TWN-7	85.80	747	DR-13	69.91
1247	MW-22	66.78	734	TW4-13	50.78		TWN-8	ABANDON	1327	DR-14	76.37
841	MW-23	114.13	731	TW4-14	81.37		TWN-9	ABANDON	1405	DR-15	92.95
832	MW-24	113.38	1050	TW4-15	66.94		TWN-10	ABANDON		DR-16	ABANDON
1608	MW-25	75.91	1614	TW4-16	63.40		TWN-11	ABANDON	1323	DR-17	64.90
1050	MW-26	66.94	1611	TW4-17	76.95		TWN-12	ABANDON		DR-18	ABANDON
921	MW-27	53.76	924	TW4-18	64.15		TWN-13	ABANDON	1309	DR-19	63.07
830	MW-28	75.50	1009	TW4-19	68.60	945	TWN-14	61.55	1306	DR-20	55.40
811	MW-29	101.08	1048	TW4-20	61.28		TWN-15	ABANDON	1257	DR-21	101.20
1613	MW-30	75.51	1026	TW4-21	64.50	948	TWN-16	47.71	1318	DR-22	60.65
1617	MW-31	68.55	1042	TW4-22	58.07		TWN-17	ABANDON	1302	DR-23	70.56
1611	MW-32	76.95	1558	TW4-23	68.15	930	TWN-18	60.00	1314	DR-24	44.31
850	MW-33	DRY	1034	TW4-24	62.45	1158	TWN-19	53.38	NA	DR-25	ABANDON
854	MW-34	107.87	1030	TW4-25	63.00						
843	MW-35	112.42	1600	TW4-26	65.52						
846	MW-36	110.56	721	TW4-27	80.08						
858	MW-37	113.74	737	TW4-28	39.17						
			729	TW4-29	73.11						
			724	TW4-30	76.33						
			723	TW4-31	80.76						
			739	TW4-32	50.69						
			719	TW4-33	71.75						
			727	TW4-34	71.10						
			726	TW4-35	74.20						
			733	TW4-36	56.51						
			1044	TW4-37	59.86						

NOTES:

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Tab E

Laboratory Analytical Reports – Quarterly Sampling



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-001  
**Client Sample ID:** MW-01\_04152015  
**Collection Date:** 4/15/2015 1635h  
**Received Date:** 4/17/2015 950h

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
 Salt Lake City, UT 84119  
  
 Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/20/2015 1032h	4/27/2015 1127h	E200.7	10.0	<b>207</b>	1
Chromium	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0300	<b>0.112</b>	
Lead	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/20/2015 1032h	4/27/2015 1127h	E200.7	10.0	<b>71.5</b>	
Manganese	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0100	<b>0.0364</b>	
Mercury	mg/L	4/22/2015 1315h	4/24/2015 931h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/20/2015 1032h	4/27/2015 1251h	E200.7	1.00	<b>14.6</b>	1
Selenium	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/20/2015 1032h	4/27/2015 1127h	E200.7	10.0	<b>178</b>	
Thallium	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/20/2015 1032h	4/22/2015 1234h	E200.8	0.000300	<b>0.000475</b>	
Vanadium	mg/L	4/20/2015 1032h	4/27/2015 1251h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/20/2015 1032h	4/30/2015 035h	E200.8	0.0100	<b>0.0117</b>	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-001  
**Client Sample ID:** MW-01\_04152015  
**Collection Date:** 4/15/2015 1635h  
**Received Date:** 4/17/2015 950h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/22/2015 753h	4/22/2015 1526h	E350.1	0.0500	<b>0.0707</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	<b>234</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/20/2015 1722h	E300.0	10.0	<b>23.9</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/20/2015 2101h	E300.0	0.100	<b>0.265</b>	
Kyle F. Gross Laboratory Director	Ion Balance	%		4/27/2015 1446h	Calc.	-100	<b>0.757</b>	
Jose Rocha QA Officer	Nitrate/Nitrite (as N)	mg/L		4/21/2015 1545h	E353.2	0.100	<b>0.144</b>	
	Sulfate	mg/L		4/21/2015 750h	E300.0	100	<b>892</b>	
	Total Anions, Measured	meq/L		4/27/2015 1446h	Calc.		<b>23.9</b>	
	Total Cations, Measured	meq/L		4/27/2015 1446h	Calc.		<b>24.3</b>	
	Total Dissolved Solids	mg/L		4/17/2015 1130h	SM2540C	20.0	<b>1,560</b>	
	Total Dissolved Solids Ratio, Measured/Calculated			4/27/2015 1446h	Calc.		<b>1.02</b>	
	Total Dissolved Solids, Calculated	mg/L		4/27/2015 1446h	Calc.		<b>1,530</b>	



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-001A  
**Client Sample ID:** MW-01\_04152015  
**Collection Date:** 4/15/2015 1635h  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/20/2015 836h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	50.9	50.00	102	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	60.9	50.00	122	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.3	50.00	94.6	80-124	
Surr: Toluene-d8	2037-26-5	47.2	50.00	94.4	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 12, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-01_04152015	Project: DNMI00100
Sample ID: 371248001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 15-APR-15 16:35	
Receive Date: 17-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.266	0.899	1.00	pCi/L		AXM6	05/05/15	1652	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			95.7	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-001  
**Client Sample ID:** MW-02\_04212015  
**Collection Date:** 4/21/2015 1535h  
**Received Date:** 4/24/2015 1030h

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
 Salt Lake City, UT 84119  
  
 Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1442h	E200.7	50.0	<b>330</b>	2
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1442h	E200.7	50.0	<b>97.5</b>	2
Manganese	mg/L	4/24/2015 1234h	5/7/2015 915h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1045h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 913h	E200.7	1.00	<b>10.6</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.00500	<b>0.00837</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1442h	E200.7	50.0	<b>524</b>	2
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1855h	E200.8	0.000300	<b>0.0107</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1459h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 915h	E200.8	0.0100	<b>0.0113</b>	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-001  
**Client Sample ID:** MW-02\_04212015  
**Collection Date:** 4/21/2015 1535h  
**Received Date:** 4/24/2015 1030h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/28/2015 1230h	4/28/2015 1624h	E350.1	0.0500	< 0.0500	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>296</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/28/2015 1912h	E300.0	1.00	<b>6.69</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/28/2015 1912h	E300.0	0.100	<b>0.209</b>	
	Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>0.00653</b>	
	Nitrate/Nitrite (as N)	mg/L		5/7/2015 1356h	E353.2	0.100	< 0.100	
	Sulfate	mg/L		4/27/2015 1239h	E300.0	1,000	<b>1,990</b>	
	Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>47.5</b>	
	Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>47.6</b>	
	Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>2,940</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>0.939</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>3,140</b>	



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-004A  
**Client Sample ID:** MW-02\_04282015  
**Collection Date:** 4/28/2015 1150h  
**Received Date:** 5/1/2015 1005h

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1301h

**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.3	50.00	96.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.7	50.00	97.4	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.0	50.00	96.1	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
Address : 225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228  
Contact: Ms. Kathy Weinel  
Project: White Mesa Mill GW

Client Sample ID: MW-02\_04212015  
Sample ID: 371879001  
Matrix: Ground Water  
Collect Date: 21-APR-15 15:35  
Receive Date: 28-APR-15  
Collector: Client

Project: DNMI00100  
Client ID: DNMI001

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.209	0.536	1.00	pCi/L		AXM6	05/14/15	1938	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.2	(25%-125%)

### Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-002  
**Client Sample ID:** MW-03\_04232015  
**Collection Date:** 4/23/2015 830h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
 Salt Lake City, UT 84119  
  
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 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.000500	<b>0.00144</b>	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.000500	<b>0.00503</b>	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1448h	E200.7	50.0	<b>475</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1448h	E200.7	50.0	<b>276</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 932h	E200.8	0.0100	<b>0.242</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1049h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.0200	<b>0.0394</b>	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 926h	E200.7	1.00	<b>26.6</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.00500	<b>0.0810</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1448h	E200.7	50.0	<b>761</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.000500	<b>0.00147</b>	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1912h	E200.8	0.000300	<b>0.0127</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1505h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 932h	E200.8	0.0100	<b>0.238</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505395-001  
**Client Sample ID:** MW-03\_05202015 Re Sample  
**Collection Date:** 5/20/2015 820h  
**Received Date:** 5/21/2015 1554h

**Contact:** Garrin Palmer

**Analytical Results**

**DISSOLVED METALS**

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 Salt Lake City, UT 84119  
  
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 Toll Free: (888) 263-8686  
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 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/22/2015 1021h	5/29/2015 2145h	E200.8	0.000500	<b>0.00208</b>	
Cadmium	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.000500	<b>0.0142</b>	
Calcium	mg/L	5/22/2015 1021h	6/4/2015 1059h	E200.7	50.0	<b>452</b>	2
Chromium	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/22/2015 1021h	5/29/2015 2145h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/22/2015 1021h	5/29/2015 2145h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/22/2015 1021h	6/4/2015 1059h	E200.7	50.0	<b>260</b>	2
Manganese	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0100	<b>1.24</b>	
Mercury	mg/L	5/27/2015 1700h	5/28/2015 908h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0200	<b>0.0962</b>	
Potassium	mg/L	5/22/2015 1021h	5/26/2015 1617h	E200.7	1.00	<b>26.9</b>	
Selenium	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.00500	<b>0.0617</b>	
Silver	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/22/2015 1021h	6/4/2015 1059h	E200.7	50.0	<b>732</b>	2
Thallium	mg/L	5/22/2015 1021h	5/29/2015 2145h	E200.8	0.000500	<b>0.00151</b>	
Tin	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/22/2015 1021h	5/29/2015 2205h	E200.8	0.000300	<b>0.0189</b>	
Vanadium	mg/L	5/22/2015 1021h	5/26/2015 1617h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/22/2015 1021h	5/29/2015 2053h	E200.8	0.0100	<b>0.373</b>	B

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-002  
**Client Sample ID:** MW-03\_04232015  
**Collection Date:** 4/23/2015 830h  
**Received Date:** 4/24/2015 1030h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/28/2015 1230h	5/13/2015 1903h	E350.1	0.0500	< 0.0500	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>154</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/28/2015 1607h	E300.0	10.0	<b>67.8</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/28/2015 1929h	E300.0	0.100	<b>1.00</b>	
	Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>-1.11</b>	
	Nitrate/Nitrite (as N)	mg/L		5/7/2015 1400h	E353.2	0.100	<b>0.642</b>	
	Sulfate	mg/L		4/27/2015 1256h	E300.0	1,000	<b>3,700</b>	
	Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>82.0</b>	
	Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>80.2</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>5,100</b>	
	Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>0.944</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>5,400</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-005A  
**Client Sample ID:** MW-03\_04292015  
**Collection Date:** 4/29/2015 1340h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1321h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Salt Lake City, UT 84119

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.2	50.00	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.8	50.00	95.6	80-124	
Surr: Toluene-d8	2037-26-5	50.8	50.00	102	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-03_04232015	Project: DNMI00100
Sample ID: 371879002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 23-APR-15 08:30	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.154	0.576	1.00	pCi/L		AXM6	05/14/15	1938	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			95.3	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-003  
**Client Sample ID:** MW-03A\_04232015  
**Collection Date:** 4/23/2015 715h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

3440 South 700 West  
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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.000500	<b>0.00105</b>	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1450h	E200.7	50.0	<b>490</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1450h	E200.7	50.0	<b>310</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 935h	E200.8	0.0100	<b>0.0208</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1051h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 928h	E200.7	1.00	<b>28.1</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.00500	<b>0.101</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1450h	E200.7	50.0	<b>825</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.000500	<b>0.000663</b>	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1915h	E200.8	0.000300	<b>0.0203</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1507h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 935h	E200.8	0.0100	<b>0.0337</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-003  
**Client Sample ID:** MW-03A\_04232015  
**Collection Date:** 4/23/2015 715h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/28/2015 1230h	4/28/2015 1629h	E350.1	0.0500	< 0.0500	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>334</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/28/2015 1624h	E300.0	10.0	<b>64.6</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/28/2015 1946h	E300.0	0.100	<b>0.922</b>	
	Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>0.312</b>	
	Nitrate/Nitrite (as N)	mg/L		5/7/2015 1401h	E353.2	0.100	<b>1.10</b>	
	Sulfate	mg/L		4/27/2015 1313h	E300.0	1,000	<b>3,720</b>	
	Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>86.0</b>	
	Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>86.6</b>	
	Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>5,410</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>0.959</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>5,640</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-006A  
**Client Sample ID:** MW-03A\_04292015  
**Collection Date:** 4/29/2015 1455h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1340h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	<b>2.31</b>	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.3	50.00	96.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.0	50.00	96.1	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-03A_04232015	Project: DNMI00100
Sample ID: 371879003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 23-APR-15 07:15	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method	
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.332	0.848	1.00	pCi/L		AXM6	05/15/15	0612	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			95.3	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-004  
**Client Sample ID:** MW-05\_04212015  
**Collection Date:** 4/21/2015 1200h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
 Salt Lake City, UT 84119  
  
 Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1452h	E200.7	50.0	<b>148</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.0300	<b>0.103</b>	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/24/2015 1234h	5/7/2015 1450h	E200.7	1.00	<b>40.6</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 938h	E200.8	0.0100	<b>0.220</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1056h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/24/2015 1234h	5/7/2015 1450h	E200.7	1.00	<b>7.30</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1452h	E200.7	50.0	<b>507</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1918h	E200.8	0.000300	<b>0.00130</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1450h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 938h	E200.8	0.0100	< 0.0100	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-004  
**Client Sample ID:** MW-05\_04212015  
**Collection Date:** 4/21/2015 1200h  
**Received Date:** 4/24/2015 1030h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/28/2015 1230h	4/28/2015 1630h	E350.1	0.0500	<b>0.582</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>315</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/28/2015 1641h	E300.0	10.0	<b>55.9</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/28/2015 2003h	E300.0	0.100	<b>0.761</b>	
	Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>-1.66</b>	
	Nitrate/Nitrite (as N)	mg/L		5/7/2015 1403h	E353.2	0.100	<b>0.142</b>	
	Sulfate	mg/L		4/27/2015 1404h	E300.0	1,000	<b>1,260</b>	
	Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>34.1</b>	
	Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>33.0</b>	
	Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>2,110</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>0.955</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>2,210</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-007A  
**Client Sample ID:** MW-05\_04272015  
**Collection Date:** 4/27/2015 1550h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1400h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	<b>1.40</b>	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.1	50.00	96.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.6	50.00	95.2	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-05_04212015	Project: DNMI00100
Sample ID: 371879004	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 21-APR-15 12:00	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.250	0.982	1.00	pCi/L		AXM6	05/15/15	0612	1478354	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits							
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.3	(25%-125%)							

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-001  
**Client Sample ID:** MW-11\_04082015  
**Collection Date:** 4/8/2015 1135h  
**Received Date:** 4/10/2015 1021h

### Analytical Results

### DISSOLVED METALS

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 Salt Lake City, UT 84119  
  
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 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 817h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1221h	E200.7	20.0	<b>81.7</b>	2
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0300	<b>0.0682</b>	
Lead	mg/L	4/14/2015 1044h	4/16/2015 817h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1221h	E200.7	20.0	<b>26.3</b>	
Manganese	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0100	<b>0.170</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1008h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1446h	E200.7	1.00	<b>7.02</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1221h	E200.7	20.0	<b>621</b>	2
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1837h	E200.8	0.000300	<b>0.000898</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1446h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1827h	E200.8	0.0100	< 0.0100	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-001  
**Client Sample ID:** MW-11\_04082015  
**Collection Date:** 4/8/2015 1135h  
**Received Date:** 4/10/2015 1021h

### Analytical Results

3440 South 700 West  
 Salt Lake City, UT 84119  
  
 Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1633h	E350.1	0.0500	<b>0.685</b>	'@
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	<b>315</b>	B
Carbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
Chloride	mg/L		4/14/2015 2200h	E300.0	10.0	<b>32.5</b>	
Fluoride	mg/L		4/15/2015 518h	E300.0	0.100	<b>0.320</b>	
Ion Balance	%		4/17/2015 1555h	Calc.	-100	<b>2.76</b>	
Nitrate/Nitrite (as N)	mg/L		4/10/2015 1639h	E353.2	0.100	< 0.100	
Sulfate	mg/L		4/14/2015 1554h	E300.0	1,000	<b>1,170</b>	
Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		<b>31.6</b>	
Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		<b>33.4</b>	
Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	<b>2,010</b>	
Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		<b>0.945</b>	
Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		<b>2,130</b>	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-001A  
**Client Sample ID:** MW-11\_04082015  
**Collection Date:** 4/8/2015 1135h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/10/2015 1445h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	<b>1.71</b>	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.1	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.4	50.00	96.8	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-11_04082015	Project: DNMI00100
Sample ID: 370955001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 08-APR-15 11:35	
Receive Date: 14-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha	U	1.00	+/-0.304	0.828	1.00	pCi/L		AXM6	05/05/15	1654 1475925	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments									
1	EPA 900.1 Modified										

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			93.1	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-005  
**Client Sample ID:** MW-12\_04212015  
**Collection Date:** 4/21/2015 1550h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
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 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/7/2015 1017h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1454h	E200.7	50.0	<b>547</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1454h	E200.7	50.0	<b>239</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 951h	E200.8	0.0100	<b>0.0210</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1058h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 930h	E200.7	1.00	<b>14.1</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.00500	<b>0.0294</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1454h	E200.7	50.0	<b>346</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1932h	E200.8	0.000300	<b>0.0216</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1509h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 951h	E200.8	0.0100	< 0.0100	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-005  
**Client Sample ID:** MW-12\_04212015  
**Collection Date:** 4/21/2015 1550h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/28/2015 1230h	4/28/2015 1632h	E350.1	0.0500	< 0.0500	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>350</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/28/2015 1657h	E300.0	10.0	<b>68.9</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/28/2015 2020h	E300.0	0.100	<b>0.107</b>	
	Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>1.15</b>	
	Nitrate/Nitrite (as N)	mg/L		5/7/2015 1404h	E353.2	0.100	<b>0.219</b>	
	Sulfate	mg/L		4/27/2015 1421h	E300.0	1,000	<b>2,500</b>	
	Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>60.9</b>	
	Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>62.4</b>	
	Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>3,840</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>0.980</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>3,920</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-008A  
**Client Sample ID:** MW-12\_04282015  
**Collection Date:** 4/28/2015 900h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1419h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.1	50.00	96.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.9	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.0	50.00	95.9	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-12_04212015	Project: DNMI00100
Sample ID: 371879005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 21-APR-15 15:50	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.282	0.987	1.00	pCi/L		AXM6	05/15/15	0612	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			96.4	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-002  
**Client Sample ID:** MW-14\_04082015  
**Collection Date:** 4/8/2015 1505h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

**Analytical Results**

**DISSOLVED METALS**

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 826h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.000500	<b>0.00180</b>	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1228h	E200.7	20.0	<b>509</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/14/2015 1044h	4/16/2015 826h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1228h	E200.7	20.0	<b>161</b>	
Manganese	mg/L	4/14/2015 1044h	4/17/2015 238h	E200.8	0.0500	<b>1.97</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1014h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1451h	E200.7	1.00	<b>12.2</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1228h	E200.7	20.0	<b>369</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1853h	E200.8	0.000300	<b>0.0572</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1451h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1837h	E200.8	0.0100	<b>0.0178</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-002  
**Client Sample ID:** MW-14\_04082015  
**Collection Date:** 4/8/2015 1505h  
**Received Date:** 4/10/2015 1021h

### Analytical Results

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1642h	E350.1	0.0500	<b>0.106</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	<b>389</b>	B
Carbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
Chloride	mg/L		4/14/2015 2251h	E300.0	10.0	<b>19.6</b>	
Fluoride	mg/L		4/15/2015 642h	E300.0	0.100	<b>0.109</b>	
Ion Balance	%		4/17/2015 1555h	Calc.	-100	<b>0.876</b>	
Nitrate/Nitrite (as N)	mg/L		4/10/2015 1643h	E353.2	0.100	< 0.100	
Sulfate	mg/L		4/14/2015 1611h	E300.0	1,000	<b>2,200</b>	
Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		<b>54.1</b>	
Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		<b>55.1</b>	
Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	<b>3,440</b>	
Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		<b>0.982</b>	
Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		<b>3,500</b>	

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-002A  
**Client Sample ID:** MW-14\_04082015  
**Collection Date:** 4/8/2015 1505h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/10/2015 1505h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.0	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.8	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.6	50.00	99.1	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-14_04082015	Project: DNMI00100
Sample ID: 370955002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 08-APR-15 15:05	
Receive Date: 14-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha	U	1.00	+/-0.328	0.934	1.00	pCi/L		AXM6	05/05/15	1654 1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments									
1	EPA 900.1 Modified										

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.9	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-002  
**Client Sample ID:** MW-15\_04132015  
**Collection Date:** 4/13/2015 1530h  
**Received Date:** 4/17/2015 950h

### Analytical Results

### DISSOLVED METALS

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/20/2015 1032h	4/27/2015 1136h	E200.7	50.0	<b>481</b>	
Chromium	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/20/2015 1032h	4/27/2015 1136h	E200.7	50.0	<b>171</b>	
Manganese	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	4/22/2015 1315h	4/24/2015 950h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/20/2015 1032h	4/27/2015 1257h	E200.7	1.00	<b>11.8</b>	
Selenium	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.00500	<b>0.137</b>	
Silver	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/20/2015 1032h	4/27/2015 1136h	E200.7	50.0	<b>541</b>	
Thallium	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/20/2015 1032h	4/22/2015 1250h	E200.8	0.000300	<b>0.0462</b>	
Vanadium	mg/L	4/20/2015 1032h	4/27/2015 1257h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/20/2015 1032h	4/30/2015 045h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-002  
**Client Sample ID:** MW-15\_04132015  
**Collection Date:** 4/13/2015 1530h  
**Received Date:** 4/17/2015 950h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/22/2015 753h	4/22/2015 1535h	E350.1	0.0500	<b>0.0554</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	<b>355</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/20/2015 1738h	E300.0	10.0	<b>41.1</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/20/2015 2118h	E300.0	0.100	<b>0.175</b>	
	Ion Balance	%		4/27/2015 1446h	Calc.	-100	<b>1.51</b>	
	Nitrate/Nitrite (as N)	mg/L		4/21/2015 1549h	E353.2	0.100	<b>0.128</b>	
	Sulfate	mg/L		4/20/2015 1416h	E300.0	1,000	<b>2,490</b>	
	Total Anions, Measured	meq/L		4/27/2015 1446h	Calc.		<b>60.0</b>	
	Total Cations, Measured	meq/L		4/27/2015 1446h	Calc.		<b>61.9</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		4/17/2015 1130h	SM2540C	20.0	<b>3,640</b>	
	Total Dissolved Solids Ratio, Measured/Calculated			4/27/2015 1446h	Calc.		<b>0.923</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		4/27/2015 1446h	Calc.		<b>3,950</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-002A  
**Client Sample ID:** MW-15\_04132015  
**Collection Date:** 4/13/2015 1530h  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/20/2015 954h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	65.5	50.00	131	80-152	
Surr: Dibromofluoromethane	1868-53-7	46.9	50.00	93.8	80-124	
Surr: Toluene-d8	2037-26-5	47.8	50.00	95.7	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 12, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-15_04132015	Project: DNMI00100
Sample ID: 371248002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 13-APR-15 15:30	
Receive Date: 17-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.237	0.934	1.00	pCi/L		AXM6	05/06/15	1435	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			60.1	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-006  
**Client Sample ID:** MW-17\_04222015  
**Collection Date:** 4/22/2015 1205h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/7/2015 1020h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1456h	E200.7	50.0	<b>315</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1456h	E200.7	50.0	<b>158</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 954h	E200.8	0.0100	<b>0.0890</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1059h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 932h	E200.7	1.00	<b>10.3</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.00500	<b>0.0157</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1456h	E200.7	50.0	<b>499</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1935h	E200.8	0.000300	<b>0.0200</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1511h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 954h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-006  
**Client Sample ID:** MW-17\_04222015  
**Collection Date:** 4/22/2015 1205h  
**Received Date:** 4/24/2015 1030h

### Analytical Results

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	4/28/2015 1230h	5/13/2015 1904h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>343</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
Chloride	mg/L		4/28/2015 1714h	E300.0	10.0	<b>37.0</b>	
Fluoride	mg/L		4/28/2015 2037h	E300.0	0.100	<b>0.193</b>	
Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>2.01</b>	
Nitrate/Nitrite (as N)	mg/L		5/7/2015 1405h	E353.2	0.100	<b>1.23</b>	
Sulfate	mg/L		4/27/2015 1437h	E300.0	1,000	<b>1,960</b>	
Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>48.7</b>	
Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>50.7</b>	
Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>3,190</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>1.00</b>	
Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>3,180</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-009A  
**Client Sample ID:** MW-17\_04292015  
**Collection Date:** 4/29/2015 1100h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1439h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.7	50.00	97.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.1	50.00	96.2	80-124	
Surr: Toluene-d8	2037-26-5	51.5	50.00	103	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-17_04222015	Project: DNMI00100
Sample ID: 371879006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 22-APR-15 12:05	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method	
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.243	0.963	1.00	pCi/L		AXM6	05/15/15	0612	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			96.4	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-003  
**Client Sample ID:** MW-18\_04152015  
**Collection Date:** 4/15/2015 1310h  
**Received Date:** 4/17/2015 950h

### Analytical Results

### DISSOLVED METALS

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 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/20/2015 1032h	4/27/2015 1138h	E200.7	50.0	<b>622</b>	
Chromium	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/20/2015 1032h	4/27/2015 1138h	E200.7	50.0	<b>138</b>	
Manganese	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0100	<b>0.0639</b>	
Mercury	mg/L	4/22/2015 1315h	4/24/2015 952h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/20/2015 1032h	4/27/2015 1259h	E200.7	1.00	<b>9.78</b>	
Selenium	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/20/2015 1032h	4/27/2015 1138h	E200.7	50.0	<b>208</b>	
Thallium	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.000500	<b>0.00281</b>	
Tin	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/20/2015 1032h	4/22/2015 1253h	E200.8	0.000300	<b>0.0364</b>	
Vanadium	mg/L	4/20/2015 1032h	4/27/2015 1259h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/20/2015 1032h	4/30/2015 049h	E200.8	0.0100	<b>0.0101</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-003  
**Client Sample ID:** MW-18\_04152015  
**Collection Date:** 4/15/2015 1310h  
**Received Date:** 4/17/2015 950h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/22/2015 753h	4/22/2015 1536h	E350.1	0.0500	<b>0.0863</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	<b>383</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/20/2015 1755h	E300.0	10.0	<b>52.7</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/20/2015 2134h	E300.0	0.100	<b>0.188</b>	
	Ion Balance	%		4/27/2015 1446h	Calc.	-100	<b>5.49</b>	
	Nitrate/Nitrite (as N)	mg/L		4/21/2015 1550h	E353.2	0.100	< 0.100	
	Sulfate	mg/L		4/20/2015 1507h	E300.0	1,000	<b>1,790</b>	
	Total Anions, Measured	meq/L		4/27/2015 1446h	Calc.		<b>46.4</b>	
	Total Cations, Measured	meq/L		4/27/2015 1446h	Calc.		<b>51.8</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		4/17/2015 1130h	SM2540C	20.0	<b>3,350</b>	
	Total Dissolved Solids Ratio, Measured/Calculated			4/27/2015 1446h	Calc.		<b>1.10</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		4/27/2015 1446h	Calc.		<b>3,050</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-003A  
**Client Sample ID:** MW-18\_04152015  
**Collection Date:** 4/15/2015 1310h  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/20/2015 1013h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.9	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	72.5	50.00	145	80-152	
Surr: Dibromofluoromethane	1868-53-7	52.3	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	53.3	50.00	107	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 12, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-18_04152015	Project: DNMI00100
Sample ID: 371248003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 15-APR-15 13:10	
Receive Date: 17-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.282	0.970	1.00	pCi/L		AXM6	05/05/15	1652	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.6	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-004  
**Client Sample ID:** MW-19\_04142015  
**Collection Date:** 4/14/2015 1525h  
**Received Date:** 4/17/2015 950h

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/20/2015 1032h	4/27/2015 1140h	E200.7	10.0	<b>156</b>	
Chromium	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/20/2015 1032h	4/27/2015 1140h	E200.7	10.0	<b>56.5</b>	
Manganese	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0100	<b>0.0138</b>	
Mercury	mg/L	4/22/2015 1315h	4/24/2015 954h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/20/2015 1032h	4/27/2015 1301h	E200.7	1.00	<b>5.16</b>	
Selenium	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.00500	<b>0.0155</b>	
Silver	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/20/2015 1032h	4/27/2015 1140h	E200.7	10.0	<b>117</b>	
Thallium	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/20/2015 1032h	4/22/2015 1257h	E200.8	0.000300	<b>0.00529</b>	
Vanadium	mg/L	4/20/2015 1032h	4/27/2015 1301h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/20/2015 1032h	4/30/2015 052h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-004  
**Client Sample ID:** MW-19\_04142015  
**Collection Date:** 4/14/2015 1525h  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/22/2015 753h	4/22/2015 1538h	E350.1	0.0500	<b>0.0611</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	<b>191</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/20/2015 1812h	E300.0	10.0	<b>33.4</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/20/2015 2225h	E300.0	0.100	<b>1.03</b>	
	Ion Balance	%		4/27/2015 1446h	Calc.	-100	<b>-0.833</b>	
	Nitrate/Nitrite (as N)	mg/L		4/21/2015 1603h	E353.2	0.500	<b>3.58</b>	
	Sulfate	mg/L		4/20/2015 1705h	E300.0	100	<b>631</b>	
	Total Anions, Measured	meq/L		4/27/2015 1446h	Calc.		<b>18.0</b>	
	Total Cations, Measured	meq/L		4/27/2015 1446h	Calc.		<b>17.7</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		4/17/2015 1130h	SM2540C	20.0	<b>1,230</b>	
	Total Dissolved Solids Ratio, Measured/Calculated			4/27/2015 1446h	Calc.		<b>1.10</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		4/27/2015 1446h	Calc.		<b>1,120</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-004A  
**Client Sample ID:** MW-19\_04142015  
**Collection Date:** 4/14/2015 1525h  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/20/2015 1033h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.3	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	66.2	50.00	132	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.0	80-124	
Surr: Toluene-d8	2037-26-5	50.1	50.00	100	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: May 12, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-19_04142015	Project: DNMI00100
Sample ID: 371248004	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 14-APR-15 15:25	
Receive Date: 17-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.331	0.904	1.00	pCi/L		AXM6	05/05/15	1652	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			96.4	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-002  
**Client Sample ID:** MW-20\_06242015  
**Collection Date:** 6/24/2015 840h  
**Received Date:** 6/25/2015 905h

## Analytical Results

## DISSOLVED METALS

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 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/25/2015 1452h	7/6/2015 1352h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/25/2015 1452h	7/6/2015 1359h	E200.7	50.0	<b>287</b>	
Chromium	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/25/2015 1452h	7/6/2015 1352h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/25/2015 1452h	7/6/2015 1352h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/25/2015 1452h	7/8/2015 1200h	E200.7	1.00	<b>1.36</b>	
Manganese	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/25/2015 1559h	6/26/2015 1054h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0100	<b>0.0320</b>	
Nickel	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/25/2015 1452h	7/6/2015 1451h	E200.7	1.00	<b>17.0</b>	
Selenium	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/25/2015 1452h	7/6/2015 1359h	E200.7	50.0	<b>1,170</b>	
Thallium	mg/L	6/25/2015 1452h	7/6/2015 1352h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/25/2015 1452h	7/9/2015 959h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2138h	E200.8	0.000300	< 0.000300	
Vanadium	mg/L	6/25/2015 1452h	7/6/2015 1451h	E200.7	0.0150	<b>0.0164</b>	
Zinc	mg/L	6/25/2015 1452h	7/6/2015 1325h	E200.8	0.0100	< 0.0100	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-002  
**Client Sample ID:** MW-20\_06242015  
**Collection Date:** 6/24/2015 840h  
**Received Date:** 6/25/2015 905h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	6/29/2015 1610h	6/30/2015 1137h	E350.1	0.0500	<b>0.843</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/26/2015 1102h	SM2320B	1.00	<b>4.40</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		6/26/2015 1102h	SM2320B	1.00	<b>35.0</b>	
e-mail: awal@awal-labs.com	Chloride	mg/L		7/6/2015 1917h	E300.0	10.0	<b>61.6</b>	
web: www.awal-labs.com	Fluoride	mg/L		7/6/2015 2041h	E300.0	0.100	<b>0.162</b>	
	Ion Balance	%		7/8/2015 1530h	Calc.	-100	<b>-1.59</b>	
	Nitrate/Nitrite (as N)	mg/L		7/2/2015 1824h	E353.2	1.00	<b>9.38</b>	
	Sulfate	mg/L		7/6/2015 1826h	E300.0	1,000	<b>3,130</b>	
	Total Anions, Measured	meq/L		7/8/2015 1530h	Calc.		<b>67.8</b>	
	Total Cations, Measured	meq/L		7/8/2015 1530h	Calc.		<b>65.7</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		6/29/2015 1430h	SM2540C	20.0	<b>4,230</b>	
	Total Dissolved Solids Ratio, Measured/Calculated			7/8/2015 1530h	Calc.		<b>0.901</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		7/8/2015 1530h	Calc.		<b>4,700</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-002A  
**Client Sample ID:** MW-20\_06242015  
**Collection Date:** 6/24/2015 840h  
**Received Date:** 6/25/2015 905h Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/25/2015 1531h

**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

3440 South 700 West  
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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.9	50.00	97.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.1	50.00	96.1	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.3	50.00	94.6	80-124	
Surr: Toluene-d8	2037-26-5	47.2	50.00	94.5	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 29, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-20_05272015	Project: DNMI00100
Sample ID: 374145002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 27-MAY-15 14:00	
Receive Date: 02-JUN-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.151	0.620	1.00	pCi/L		AXM6	06/29/15	0949	1485844	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			96.4	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-007  
**Client Sample ID:** MW-22\_04222015  
**Collection Date:** 4/22/2015 1150h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

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 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/7/2015 1043h	E200.8	0.000500	<b>0.0158</b>	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.000500	<b>0.174</b>	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1504h	E200.7	50.0	<b>434</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/7/2015 958h	E200.8	0.0100	<b>0.542</b>	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.0100	<b>0.0874</b>	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.0300	<b>0.0701</b>	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.00100	<b>0.00545</b>	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1504h	E200.7	50.0	<b>1,160</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 1030h	E200.8	0.500	<b>43.4</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1101h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/7/2015 958h	E200.8	0.0100	<b>0.249</b>	
Nickel	mg/L	4/24/2015 1234h	5/7/2015 958h	E200.8	0.0200	<b>0.314</b>	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 934h	E200.7	1.00	<b>22.4</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.00500	<b>0.0176</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1504h	E200.7	50.0	<b>284</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.000500	<b>0.00152</b>	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1938h	E200.8	0.000300	<b>0.0300</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1513h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 958h	E200.8	0.0100	<b>1.44</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-007  
**Client Sample ID:** MW-22\_04222015  
**Collection Date:** 4/22/2015 1150h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/28/2015 1230h	4/28/2015 1634h	E350.1	0.0500	<b>0.823</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>35.0</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/28/2015 1731h	E300.0	10.0	<b>59.3</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/28/2015 1731h	E300.0	1.00	<b>13.9</b>	
	Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>-5.50</b>	
	Nitrate/Nitrite (as N)	mg/L		5/7/2015 1411h	E353.2	1.00	<b>2.32</b>	
	Sulfate	mg/L		4/28/2015 1013h	E300.0	1,000	<b>6,880</b>	
	Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>146</b>	
	Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>130</b>	
	Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>9,140</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>1.03</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>8,870</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-010A  
**Client Sample ID:** MW-22\_04292015  
**Collection Date:** 4/29/2015 1230h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1459h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.0	50.00	98.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.0	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-22_04222015	Project: DNMI00100
Sample ID: 371879007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 22-APR-15 11:50	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		5.83	+/-0.692	0.882	1.00	pCi/L		AXM6	05/15/15	0612	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			95.3	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-001  
**Client Sample ID:** MW-23\_04302015  
**Collection Date:** 4/30/2015 730h  
**Received Date:** 5/1/2015 1005h

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
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 Phone: (801) 263-8686  
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 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/1/2015 1229h	5/13/2015 1251h	E200.7	50.0	<b>468</b>	<sup>2</sup>
Chromium	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/1/2015 1229h	5/12/2015 1558h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/1/2015 1229h	5/13/2015 1251h	E200.7	50.0	<b>156</b>	<sup>2</sup>
Manganese	mg/L	5/1/2015 1229h	5/12/2015 1558h	E200.8	0.0100	<b>0.0104</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1113h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/1/2015 1229h	5/12/2015 1753h	E200.7	1.00	<b>9.80</b>	
Selenium	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/1/2015 1229h	5/13/2015 1251h	E200.7	50.0	<b>413</b>	<sup>2</sup>
Thallium	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/1/2015 1229h	5/12/2015 1558h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/1/2015 1229h	5/12/2015 1707h	E200.8	0.000300	<b>0.00912</b>	
Vanadium	mg/L	5/1/2015 1229h	5/12/2015 1753h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/1/2015 1229h	5/12/2015 1558h	E200.8	0.0100	<b>0.0112</b>	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-001  
**Client Sample ID:** MW-23\_04302015  
**Collection Date:** 4/30/2015 730h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	5/5/2015 1340h	5/5/2015 1638h	E350.1	0.0500	<b>0.0516</b>	1
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		5/4/2015 845h	SM2320B	1.00	<b>278</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		5/4/2015 845h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		5/5/2015 1830h	E300.0	1.00	<b>7.81</b>	
web: www.awal-labs.com	Fluoride	mg/L		5/5/2015 1830h	E300.0	0.100	< 0.100	
	Ion Balance	%		5/13/2015 1559h	Calc.	-100	<b>2.12</b>	
	Nitrate/Nitrite (as N)	mg/L		5/8/2015 1446h	E353.2	0.100	<b>0.181</b>	
	Sulfate	mg/L		5/6/2015 835h	E300.0	1,000	<b>2,230</b>	
	Total Anions, Measured	meq/L		5/13/2015 1559h	Calc.		<b>52.2</b>	
	Total Cations, Measured	meq/L		5/13/2015 1559h	Calc.		<b>54.4</b>	
	Total Dissolved Solids	mg/L		5/1/2015 1245h	SM2540C	20.0	<b>3,570</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			5/13/2015 1559h	Calc.		<b>1.04</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		5/13/2015 1559h	Calc.		<b>3,450</b>	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-001A  
**Client Sample ID:** MW-23\_04302015  
**Collection Date:** 4/30/2015 730h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1123h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
2-Butanone	78-93-3	20.0	< 20.0			
Acetone	67-64-1	20.0	< 20.0			
Benzene	71-43-2	1.00	< 1.00			
Carbon tetrachloride	56-23-5	1.00	< 1.00			
Chloroform	67-66-3	1.00	< 1.00			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Naphthalene	91-20-3	1.00	< 1.00			
Tetrahydrofuran	109-99-9	1.00	< 1.00			
Toluene	108-88-3	1.00	< 1.00			
Xylenes, Total	1330-20-7	1.00	< 1.00			
<b>Surrogate</b>	<b>CAS</b>	<b>Result</b>	<b>Amount Spiked</b>	<b>% REC</b>	<b>Limits</b>	<b>Qual</b>
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.1	50.00	94.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.5	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.2	50.00	96.3	80-124	
Surr: Toluene-d8	2037-26-5	51.6	50.00	103	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 2, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-23_04302015	Project: DNMI00100
Sample ID: 372310001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 30-APR-15 07:30	
Receive Date: 05-MAY-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.309	0.948	1.00	pCi/L		AXM6	05/29/15	1439	1479494	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.2	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-003  
**Client Sample ID:** MW-24\_06242015  
**Collection Date:** 6/24/2015 900h  
**Received Date:** 6/25/2015 905h

## Analytical Results

## DISSOLVED METALS

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 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/25/2015 1452h	7/6/2015 1355h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.000500	<b>0.00179</b>	
Calcium	mg/L	6/25/2015 1452h	7/6/2015 1401h	E200.7	50.0	<b>508</b>	
Chromium	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.0100	<b>0.0236</b>	
Copper	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/25/2015 1452h	7/6/2015 1355h	E200.8	0.0300	<b>0.277</b>	
Lead	mg/L	6/25/2015 1452h	7/6/2015 1355h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/25/2015 1452h	7/8/2015 1202h	E200.7	10.0	<b>168</b>	
Manganese	mg/L	6/25/2015 1452h	7/9/2015 1005h	E200.8	0.0250	<b>2.86</b>	
Mercury	mg/L	6/25/2015 1559h	6/26/2015 1056h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/25/2015 1452h	7/6/2015 1453h	E200.7	1.00	<b>12.5</b>	
Selenium	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/25/2015 1452h	7/6/2015 1401h	E200.7	50.0	<b>540</b>	
Thallium	mg/L	6/25/2015 1452h	7/6/2015 1355h	E200.8	0.000500	<b>0.000796</b>	
Tin	mg/L	6/25/2015 1452h	7/9/2015 1002h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2141h	E200.8	0.000300	<b>0.00334</b>	
Vanadium	mg/L	6/25/2015 1452h	7/6/2015 1453h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/25/2015 1452h	7/6/2015 1329h	E200.8	0.0100	<b>0.0341</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-003  
**Client Sample ID:** MW-24\_06242015  
**Collection Date:** 6/24/2015 900h  
**Received Date:** 6/25/2015 905h

### Analytical Results

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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2015 1610h	6/30/2015 1138h	E350.1	0.0500	<b>0.0971</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/26/2015 1102h	SM2320B	1.00	<b>56.9</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/26/2015 1102h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/6/2015 1933h	E300.0	10.0	<b>48.1</b>	
Fluoride	mg/L		7/6/2015 2058h	E300.0	0.100	<b>0.293</b>	
Ion Balance	%		7/8/2015 1530h	Calc.	-100	<b>1.22</b>	
Nitrate/Nitrite (as N)	mg/L		7/2/2015 1803h	E353.2	0.100	<b>0.196</b>	
Sulfate	mg/L		7/6/2015 1843h	E300.0	1,000	<b>2,840</b>	
Total Anions, Measured	meq/L		7/8/2015 1530h	Calc.		<b>61.6</b>	
Total Cations, Measured	meq/L		7/8/2015 1530h	Calc.		<b>63.1</b>	
Total Dissolved Solids	mg/L		6/29/2015 1430h	SM2540C	20.0	<b>3,960</b>	
Total Dissolved Solids Ratio, Measured/Calculated			7/8/2015 1530h	Calc.		<b>0.953</b>	
Total Dissolved Solids, Calculated	mg/L		7/8/2015 1530h	Calc.		<b>4,150</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-003A  
**Client Sample ID:** MW-24\_06242015  
**Collection Date:** 6/24/2015 900h  
**Received Date:** 6/25/2015 905h Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/25/2015 1551h

**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

3440 South 700 West  
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Fax: (801) 263-8687  
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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.9	50.00	95.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.1	50.00	94.1	80-152	
Surr: Dibromofluoromethane	1868-53-7	46.1	50.00	92.3	80-124	
Surr: Toluene-d8	2037-26-5	45.8	50.00	91.6	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 29, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-24_05282015	Project: DNMI00100
Sample ID: 374145003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 28-MAY-15 06:15	
Receive Date: 02-JUN-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.222	0.564	1.00	pCi/L		AXM6	06/29/15	0949	1485844	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			94.6	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-003  
**Client Sample ID:** MW-25\_04072015  
**Collection Date:** 4/7/2015 1315h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

3440 South 700 West  
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 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 830h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.000500	<b>0.00127</b>	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1230h	E200.7	10.0	<b>343</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/14/2015 1044h	4/16/2015 830h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1230h	E200.7	10.0	<b>116</b>	
Manganese	mg/L	4/14/2015 1044h	4/16/2015 906h	E200.8	0.0100	<b>1.52</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1016h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.0100	<b>0.0124</b>	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1453h	E200.7	1.00	<b>9.62</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1230h	E200.7	10.0	<b>310</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.000500	<b>0.000741</b>	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1857h	E200.8	0.000300	<b>0.00586</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1453h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1840h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-003  
**Client Sample ID:** MW-25\_04072015  
**Collection Date:** 4/7/2015 1315h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West  
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 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1643h	E350.1	0.0500	<b>0.547</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	<b>340</b>	B
Carbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
Chloride	mg/L		4/14/2015 2308h	E300.0	10.0	<b>31.1</b>	
Fluoride	mg/L		4/15/2015 659h	E300.0	0.100	<b>0.288</b>	
Ion Balance	%		4/17/2015 1555h	Calc.	-100	<b>-0.340</b>	
Nitrate/Nitrite (as N)	mg/L		4/10/2015 1644h	E353.2	0.100	< 0.100	
Sulfate	mg/L		4/14/2015 1702h	E300.0	1,000	<b>1,580</b>	
Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		<b>40.7</b>	
Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		<b>40.4</b>	
Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	<b>2,760</b>	
Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		<b>1.06</b>	
Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		<b>2,600</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-003A  
**Client Sample ID:** MW-25\_04072015  
**Collection Date:** 4/7/2015 1315h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/10/2015 1524h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.5	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.2	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-25_04072015	Project: DNMI00100
Sample ID: 370955003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 07-APR-15 13:15	
Receive Date: 14-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.11	+/-0.369	0.930	1.00	pCi/L		AXM6	05/05/15	1654	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			96.4	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-004  
**Client Sample ID:** MW-26\_04092015  
**Collection Date:** 4/9/2015 730h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

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 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 833h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1232h	E200.7	20.0	<b>520</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/16/2015 909h	E200.8	0.120	<b>0.448</b>	
Lead	mg/L	4/14/2015 1044h	4/16/2015 833h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1232h	E200.7	20.0	<b>182</b>	
Manganese	mg/L	4/14/2015 1044h	4/16/2015 909h	E200.8	0.0100	<b>1.03</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1018h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1455h	E200.7	1.00	<b>11.9</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.00500	<b>0.00729</b>	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1232h	E200.7	20.0	<b>190</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1900h	E200.8	0.000300	<b>0.0757</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1455h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1843h	E200.8	0.0100	< 0.0100	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-004  
**Client Sample ID:** MW-26\_04092015  
**Collection Date:** 4/9/2015 730h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1644h	E350.1	0.0500	<b>0.400</b>	
Bicarbonate (as CaCO3)	mg/L		4/14/2015 700h	SM2320B	1.00	<b>336</b>	B
Carbonate (as CaCO3)	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
Chloride	mg/L		4/14/2015 2358h	E300.0	10.0	<b>61.0</b>	
Fluoride	mg/L		4/15/2015 716h	E300.0	0.100	<b>0.253</b>	
Ion Balance	%		4/17/2015 1555h	Calc.	-100	<b>2.31</b>	
Nitrate/Nitrite (as N)	mg/L		4/10/2015 1646h	E353.2	0.100	<b>0.845</b>	
Sulfate	mg/L		4/14/2015 1804h	E300.0	1,000	<b>1,870</b>	
Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		<b>47.3</b>	
Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		<b>49.5</b>	
Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	<b>3,140</b>	
Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		<b>1.03</b>	
Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		<b>3,030</b>	

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-004A  
**Client Sample ID:** MW-26\_04092015  
**Collection Date:** 4/9/2015 730h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/13/2015 821h

**Units:** µg/L      **Dilution Factor:** 20      **Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,520	~

Phone: (801) 263-8686  
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 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,050	1,000	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,040	1,000	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	996	1,000	99.6	80-124	
Surr: Toluene-d8	2037-26-5	1,010	1,000	101	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

**Analyzed:** 4/10/2015 1544h

**Units:** µg/L      **Dilution Factor:** 1      **Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	3.99	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.7	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.1	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	99.9	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
Address : 225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228  
Contact: Ms. Kathy Weinel  
Project: White Mesa Mill GW

Client Sample ID: MW-26\_04092015 Project: DNMI00100  
Sample ID: 370955004 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 09-APR-15 07:30  
Receive Date: 14-APR-15  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.93	+/-0.399	0.945	1.00	pCi/L		AXM6	05/05/15	1654	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			93.8	(25%-125%)

### Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-008  
**Client Sample ID:** MW-27\_04202015  
**Collection Date:** 4/20/2015 1520h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/24/2015 1234h	5/7/2015 1024h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1506h	E200.7	50.0	<b>166</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1506h	E200.7	50.0	<b>74.2</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 1001h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1102h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 936h	E200.7	1.00	<b>4.13</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.00500	<b>0.0132</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1506h	E200.7	50.0	<b>76.7</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1942h	E200.8	0.000300	<b>0.0244</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1515h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 1001h	E200.8	0.0100	< 0.0100	

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-008  
**Client Sample ID:** MW-27\_04202015  
**Collection Date:** 4/20/2015 1520h  
**Received Date:** 4/24/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

		Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
3440 South 700 West		Ammonia (as N)	mg/L	4/28/2015 1230h	4/28/2015 1635h	E350.1	0.0500	<b>0.0617</b>	
Salt Lake City, UT 84119		Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>441</b>	
		Carbonate (as CaCO <sub>3</sub> )	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
Phone: (801) 263-8686		Chloride	mg/L		4/28/2015 1822h	E300.0	10.0	<b>47.6</b>	
Toll Free: (888) 263-8686		Fluoride	mg/L		4/28/2015 2053h	E300.0	0.100	<b>0.648</b>	
Fax: (801) 263-8687		Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>-3.73</b>	
e-mail: awal@awal-labs.com		Nitrate/Nitrite (as N)	mg/L		5/7/2015 1413h	E353.2	1.00	<b>6.27</b>	
		Sulfate	mg/L		4/28/2015 1352h	E300.0	100	<b>429</b>	
web: www.awal-labs.com		Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>19.2</b>	
		Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>17.8</b>	
		Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>1,040</b>	
Kyle F. Gross		Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>0.974</b>	
Laboratory Director		Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>1,070</b>	
Jose Rocha									
QA Officer									



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-011A  
**Client Sample ID:** MW-27\_04282015  
**Collection Date:** 4/28/2015 1615h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1518h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.1	50.00	98.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.8	50.00	97.6	80-124	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-27_04202015	Project: DNMI00100
Sample ID: 371879008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 20-APR-15 15:20	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.285	0.994	1.00	pCi/L		AXM6	05/15/15	0612	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits							
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.9	(25%-125%)							

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-009  
**Client Sample ID:** MW-28\_04212015  
**Collection Date:** 4/21/2015 1135h  
**Received Date:** 4/24/2015 1030h

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.00500	<b>0.0121</b>	
Beryllium	mg/L	4/24/2015 1234h	5/7/2015 1027h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.000500	<b>0.00459</b>	
Calcium	mg/L	4/24/2015 1234h	5/6/2015 1508h	E200.7	50.0	<b>531</b>	
Chromium	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.0100	<b>0.0297</b>	
Copper	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.00100	<b>0.00178</b>	
Magnesium	mg/L	4/24/2015 1234h	5/6/2015 1508h	E200.7	50.0	<b>186</b>	
Manganese	mg/L	4/24/2015 1234h	5/7/2015 1004h	E200.8	0.0100	<b>1.80</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1104h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.0200	<b>0.0228</b>	
Potassium	mg/L	4/24/2015 1234h	5/8/2015 937h	E200.7	1.00	<b>12.0</b>	
Selenium	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.00500	<b>0.00878</b>	
Silver	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/24/2015 1234h	5/6/2015 1508h	E200.7	50.0	<b>329</b>	
Thallium	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.000500	<b>0.000777</b>	
Tin	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/24/2015 1234h	5/5/2015 1945h	E200.8	0.000300	<b>0.00613</b>	
Vanadium	mg/L	4/24/2015 1234h	5/7/2015 1517h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/24/2015 1234h	5/7/2015 1004h	E200.8	0.0100	<b>0.0630</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504455-009  
**Client Sample ID:** MW-28\_04212015  
**Collection Date:** 4/21/2015 1135h  
**Received Date:** 4/24/2015 1030h

## Analytical Results

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	4/28/2015 1230h	4/28/2015 1641h	E350.1	0.0500	<b>0.0646</b>	
Bicarbonate (as CaCO3)	mg/L		4/27/2015 1100h	SM2320B	1.00	<b>150</b>	
Carbonate (as CaCO3)	mg/L		4/27/2015 1100h	SM2320B	1.00	< 1.00	
Chloride	mg/L		4/28/2015 1409h	E300.0	100	<b>125</b>	
Fluoride	mg/L		4/28/2015 2110h	E300.0	0.100	<b>0.559</b>	
Ion Balance	%		5/8/2015 1005h	Calc.	-100	<b>-1.62</b>	
Nitrate/Nitrite (as N)	mg/L		5/7/2015 1414h	E353.2	0.100	<b>1.52</b>	
Sulfate	mg/L		4/28/2015 1030h	E300.0	1,000	<b>2,490</b>	
Total Anions, Measured	meq/L		5/8/2015 1005h	Calc.		<b>58.3</b>	
Total Cations, Measured	meq/L		5/8/2015 1005h	Calc.		<b>56.5</b>	
Total Dissolved Solids	mg/L		4/27/2015 1410h	SM2540C	20.0	<b>3,370</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/8/2015 1005h	Calc.		<b>0.896</b>	
Total Dissolved Solids, Calculated	mg/L		5/8/2015 1005h	Calc.		<b>3,760</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-012A  
**Client Sample ID:** MW-28\_04272015  
**Collection Date:** 4/27/2015 1545h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1538h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
2-Butanone	78-93-3	20.0	< 20.0			
Acetone	67-64-1	20.0	< 20.0			
Benzene	71-43-2	1.00	< 1.00			
Carbon tetrachloride	56-23-5	1.00	< 1.00			
Chloroform	67-66-3	1.00	< 1.00			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Naphthalene	91-20-3	1.00	< 1.00			
Tetrahydrofuran	109-99-9	1.00	< 1.00			
Toluene	108-88-3	1.00	< 1.00			
Xylenes, Total	1330-20-7	1.00	< 1.00			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.8	50.00	97.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.7	50.00	95.4	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 22, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-28_04212015	Project: DNMI00100
Sample ID: 371879009	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 21-APR-15 11:35	
Receive Date: 28-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.56	+/-0.370	0.764	1.00	pCi/L		AXM6	05/15/15	0625	1478354	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.6	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-002  
**Client Sample ID:** MW-29\_04302015  
**Collection Date:** 4/30/2015 840h  
**Received Date:** 5/1/2015 1005h

### Analytical Results

### DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/1/2015 1229h	5/13/2015 1257h	E200.7	50.0	<b>494</b>	
Chromium	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/1/2015 1229h	5/12/2015 1608h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/1/2015 1229h	5/12/2015 1608h	E200.8	0.120	<b>1.63</b>	
Lead	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/1/2015 1229h	5/13/2015 1257h	E200.7	50.0	<b>220</b>	
Manganese	mg/L	5/1/2015 1229h	5/13/2015 1459h	E200.8	0.0500	<b>5.33</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1118h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/1/2015 1229h	5/12/2015 1759h	E200.7	1.00	<b>17.4</b>	
Selenium	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/1/2015 1229h	5/13/2015 1257h	E200.7	50.0	<b>496</b>	
Thallium	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/1/2015 1229h	5/12/2015 1608h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/1/2015 1229h	5/12/2015 1710h	E200.8	0.000300	<b>0.0127</b>	
Vanadium	mg/L	5/1/2015 1229h	5/12/2015 1759h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/1/2015 1229h	5/12/2015 1608h	E200.8	0.0100	<b>0.0165</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-002  
**Client Sample ID:** MW-29\_04302015  
**Collection Date:** 4/30/2015 840h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

### Analytical Results

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/5/2015 1340h	5/5/2015 1641h	E350.1	0.0500	<b>0.589</b>	
Bicarbonate (as CaCO3)	mg/L		5/4/2015 845h	SM2320B	1.00	<b>303</b>	
Carbonate (as CaCO3)	mg/L		5/4/2015 845h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/5/2015 1756h	E300.0	10.0	<b>40.2</b>	
Fluoride	mg/L		5/5/2015 1846h	E300.0	0.100	< 0.100	
Ion Balance	%		5/13/2015 1559h	Calc.	-100	<b>-2.95</b>	
Nitrate/Nitrite (as N)	mg/L		5/8/2015 1450h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/5/2015 1722h	E300.0	1,000	<b>2,960</b>	
Total Anions, Measured	meq/L		5/13/2015 1559h	Calc.		<b>68.8</b>	
Total Cations, Measured	meq/L		5/13/2015 1559h	Calc.		<b>64.8</b>	
Total Dissolved Solids	mg/L		5/1/2015 1245h	SM2540C	20.0	<b>4,190</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/13/2015 1559h	Calc.		<b>0.950</b>	
Total Dissolved Solids, Calculated	mg/L		5/13/2015 1559h	Calc.		<b>4,410</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-002A  
**Client Sample ID:** MW-29\_04302015  
**Collection Date:** 4/30/2015 840h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1222h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.1	50.00	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.2	50.00	102	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.0	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 2, 2015

Company : Energy Fuels Resources (USA), Inc.  
Address : 225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228  
Contact: Ms. Kathy Weinel  
Project: White Mesa Mill GW

Client Sample ID: MW-29\_04302015 Project: DNMI00100  
Sample ID: 372310002 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 30-APR-15 08:40  
Receive Date: 05-MAY-15  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.354	0.913	1.00	pCi/L		AXM6	05/29/15	1440	1479494	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			101	(25%-125%)

### Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-005  
**Client Sample ID:** MW-30\_04082015  
**Collection Date:** 4/8/2015 1625h  
**Received Date:** 4/10/2015 1021h

### Analytical Results

### DISSOLVED METALS

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 836h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1240h	E200.7	10.0	<b>261</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/14/2015 1044h	4/16/2015 836h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1240h	E200.7	10.0	<b>72.4</b>	
Manganese	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0100	<b>0.0136</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1020h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1457h	E200.7	1.00	<b>6.37</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.00500	<b>0.0373</b>	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1240h	E200.7	10.0	<b>103</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1913h	E200.8	0.000300	<b>0.00745</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1457h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1846h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-005  
**Client Sample ID:** MW-30\_04082015  
**Collection Date:** 4/8/2015 1625h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1645h	E350.1	0.0500	0.0960	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	152	B
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/14/2015 1912h	E300.0	100	142	
web: www.awal-labs.com	Fluoride	mg/L		4/15/2015 733h	E300.0	0.100	0.286	
	Ion Balance	%		4/17/2015 1555h	Calc.	-100	0.0466	
	Nitrate/Nitrite (as N)	mg/L		4/10/2015 1702h	E353.2	5.00	17.0	
	Sulfate	mg/L		4/14/2015 1912h	E300.0	100	783	
	Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		23.6	
	Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		23.6	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	1,520	
	Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		1.03	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		1,480	

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-005A  
**Client Sample ID:** MW-30\_04082015  
**Collection Date:** 4/8/2015 1625h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/10/2015 1603h

**Units:** µg/L      **Dilution Factor:** 1      **Method:** SW8260C

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.6	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.6	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-30_04082015	Project: DNMI00100
Sample ID: 370955005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 08-APR-15 16:25	
Receive Date: 14-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.329	0.956	1.00	pCi/L		AXM6	05/05/15	1653	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			49.9	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-006  
**Client Sample ID:** MW-31\_04072015  
**Collection Date:** 4/7/2015 1430h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 839h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1242h	E200.7	10.0	<b>207</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/14/2015 1044h	4/16/2015 839h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1242h	E200.7	10.0	<b>97.6</b>	
Manganese	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1026h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1459h	E200.7	1.00	<b>6.07</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.00500	<b>0.0757</b>	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1242h	E200.7	10.0	<b>103</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1916h	E200.8	0.000300	<b>0.00807</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1459h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1850h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-006  
**Client Sample ID:** MW-31\_04072015  
**Collection Date:** 4/7/2015 1430h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1647h	E350.1	0.0500	< 0.0500	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	<b>168</b>	B
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/14/2015 2036h	E300.0	100	<b>211</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/15/2015 750h	E300.0	0.100	<b>0.745</b>	
	Ion Balance	%		4/17/2015 1555h	Calc.	-100	<b>0.0460</b>	
	Nitrate/Nitrite (as N)	mg/L		4/10/2015 1703h	E353.2	5.00	<b>19.0</b>	
	Sulfate	mg/L		4/14/2015 2036h	E300.0	100	<b>642</b>	
	Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		<b>23.0</b>	
	Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		<b>23.0</b>	
	Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	<b>1,680</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		<b>1.21</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		<b>1,390</b>	

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-006A  
**Client Sample ID:** MW-31\_04072015  
**Collection Date:** 4/7/2015 1430h  
**Received Date:** 4/10/2015 1021h Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/10/2015 1622h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.8	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.3	50.00	96.5	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID:	MW-31_04072015	Project:	DNMI00100
Sample ID:	370955006	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	07-APR-15 14:30		
Receive Date:	14-APR-15		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.241	0.873	1.00	pCi/L		AXM6	05/05/15	1654	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			88.0	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-007  
**Client Sample ID:** MW-32\_04082015  
**Collection Date:** 4/8/2015 1210h  
**Received Date:** 4/10/2015 1021h

## Analytical Results

## DISSOLVED METALS

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 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 853h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.000500	<b>0.00148</b>	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1244h	E200.7	20.0	<b>486</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.0100	<b>0.0401</b>	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/16/2015 912h	E200.8	0.600	<b>5.85</b>	
Lead	mg/L	4/14/2015 1044h	4/16/2015 1046h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1244h	E200.7	20.0	<b>208</b>	
Manganese	mg/L	4/14/2015 1044h	4/16/2015 912h	E200.8	0.0500	<b>5.14</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1028h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.0200	<b>0.0438</b>	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1501h	E200.7	1.00	<b>14.1</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1244h	E200.7	20.0	<b>241</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1920h	E200.8	0.000300	<b>0.00191</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1501h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1853h	E200.8	0.0100	<b>0.0893</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-007  
**Client Sample ID:** MW-32\_04082015  
**Collection Date:** 4/8/2015 1210h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1648h	E350.1	0.0500	<b>0.690</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	<b>385</b>	B
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/15/2015 015h	E300.0	10.0	<b>37.8</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/15/2015 808h	E300.0	0.100	< 0.100	
	Ion Balance	%		4/17/2015 1555h	Calc.	-100	<b>-1.21</b>	
	Nitrate/Nitrite (as N)	mg/L		4/10/2015 1654h	E353.2	0.100	< 0.100	
	Sulfate	mg/L		4/14/2015 1821h	E300.0	1,000	<b>2,150</b>	
	Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		<b>53.5</b>	
	Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		<b>52.2</b>	
	Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	<b>3,720</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		<b>1.10</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		<b>3,370</b>	

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-007A  
**Client Sample ID:** MW-32\_04082015  
**Collection Date:** 4/8/2015 1210h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/13/2015 919h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.9	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.4	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.6	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.2	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-32_04082015	Project: DNMI00100
Sample ID: 370955007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 08-APR-15 12:10	
Receive Date: 14-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		1.81	+/-0.480	0.985	1.00	pCi/L		AXM6	05/05/15	1654	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			93.1	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-008  
**Client Sample ID:** MW-35\_04092015  
**Collection Date:** 4/9/2015 755h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

**Analytical Results**

**DISSOLVED METALS**

3440 South 700 West  
 Salt Lake City, UT 84119  
  
 Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 856h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1246h	E200.7	20.0	<b>504</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.0300	<b>0.104</b>	
Lead	mg/L	4/14/2015 1044h	4/16/2015 1049h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1246h	E200.7	20.0	<b>159</b>	
Manganese	mg/L	4/14/2015 1044h	4/16/2015 915h	E200.8	0.0100	<b>0.237</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1030h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1503h	E200.7	1.00	<b>11.5</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1246h	E200.7	20.0	<b>413</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1923h	E200.8	0.000300	<b>0.0202</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1503h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1856h	E200.8	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-008  
**Client Sample ID:** MW-35\_04092015  
**Collection Date:** 4/9/2015 755h  
**Received Date:** 4/10/2015 1021h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1649h	E350.1	0.0500	0.140	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	333	B
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/15/2015 032h	E300.0	10.0	65.5	
web: www.awal-labs.com	Fluoride	mg/L		4/15/2015 825h	E300.0	0.100	0.336	
Kyle F. Gross Laboratory Director	Ion Balance	%		4/17/2015 1555h	Calc.	-100	-0.606	
Jose Rocha QA Officer	Nitrate/Nitrite (as N)	mg/L		4/10/2015 1655h	E353.2	0.100	< 0.100	
	Sulfate	mg/L		4/14/2015 1838h	E300.0	1,000	2,340	
	Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		57.1	
	Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		56.4	
	Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	4,030	
	Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		1.09	
	Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		3,690	

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-008A  
**Client Sample ID:** MW-35\_04092015  
**Collection Date:** 4/9/2015 755h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/13/2015 939h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
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 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.5	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.2	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.0	50.00	96.0	80-124	
Surr: Toluene-d8	2037-26-5	49.0	50.00	97.9	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-35_04092015	Project: DNMI00100
Sample ID: 370955008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 09-APR-15 07:55	
Receive Date: 14-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		4.25	+/-0.621	0.800	1.00	pCi/L		AXM6	05/05/15	1654	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			96.8	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-005  
**Client Sample ID:** MW-36\_04162015  
**Collection Date:** 4/16/2015 800h  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
 Salt Lake City, UT 84119  
  
 Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 e-mail: awal@awal-labs.com  
  
 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/20/2015 1032h	4/27/2015 1142h	E200.7	50.0	<b>470</b>	
Chromium	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0300	< 0.0300	
Lead	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/20/2015 1032h	4/27/2015 1142h	E200.7	50.0	<b>143</b>	
Manganese	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	4/22/2015 1315h	4/24/2015 1000h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/20/2015 1032h	4/27/2015 1303h	E200.7	1.00	<b>11.1</b>	
Selenium	mg/L	4/20/2015 1032h	4/22/2015 1409h	E200.8	0.00500	<b>0.246</b>	
Silver	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/20/2015 1032h	4/27/2015 1142h	E200.7	50.0	<b>746</b>	
Thallium	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.000500	<b>0.000656</b>	
Tin	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/20/2015 1032h	4/22/2015 1310h	E200.8	0.000300	<b>0.0223</b>	
Vanadium	mg/L	4/20/2015 1032h	4/27/2015 1303h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/20/2015 1032h	4/30/2015 055h	E200.8	0.0100	< 0.0100	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-005  
**Client Sample ID:** MW-36\_04162015  
**Collection Date:** 4/16/2015 800h  
**Received Date:** 4/17/2015 950h

### Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Ammonia (as N)	mg/L	4/22/2015 753h	4/22/2015 1539h	E350.1	0.0500	<b>0.0545</b>	
Toll Free: (888) 263-8686	Bicarbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	<b>280</b>	
Fax: (801) 263-8687	Carbonate (as CaCO <sub>3</sub> )	mg/L		4/20/2015 1014h	SM2320B	1.00	< 1.00	
e-mail: awal@awal-labs.com	Chloride	mg/L		4/20/2015 1829h	E300.0	10.0	<b>60.7</b>	
web: www.awal-labs.com	Fluoride	mg/L		4/20/2015 2242h	E300.0	0.100	<b>0.272</b>	
	Ion Balance	%		4/27/2015 1446h	Calc.	-100	<b>1.01</b>	
	Nitrate/Nitrite (as N)	mg/L		4/21/2015 1557h	E353.2	0.100	<b>0.129</b>	
	Sulfate	mg/L		4/20/2015 1524h	E300.0	1,000	<b>2,840</b>	
	Total Anions, Measured	meq/L		4/27/2015 1446h	Calc.		<b>66.5</b>	
	Total Cations, Measured	meq/L		4/27/2015 1446h	Calc.		<b>67.9</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids	mg/L		4/17/2015 1130h	SM2540C	20.0	<b>4,580</b>	
	Total Dissolved Solids Ratio, Measured/Calculated			4/27/2015 1446h	Calc.		<b>1.03</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		4/27/2015 1446h	Calc.		<b>4,440</b>	



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-005A  
**Client Sample ID:** MW-36\_04162015  
**Collection Date:** 4/16/2015 800h  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/20/2015 1052h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
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 e-mail: awal@awal-labs.com  
 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.4	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	66.1	50.00	132	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.8	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 12, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-36_04162015	Project: DNMI00100
Sample ID: 371248005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 16-APR-15 08:00	
Receive Date: 17-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.326	0.830	1.00	pCi/L		AXM6	05/05/15	1652	1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.2	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-001  
**Client Sample ID:** MW-37\_06242015  
**Collection Date:** 6/24/2015 820h  
**Received Date:** 6/25/2015 905h

### Analytical Results

### DISSOLVED METALS

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 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/25/2015 1452h	7/6/2015 1348h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/25/2015 1452h	7/6/2015 1348h	E200.7	50.0	<b>453</b>	1
Chromium	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/25/2015 1452h	7/6/2015 1348h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/25/2015 1452h	7/6/2015 1348h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/25/2015 1452h	7/8/2015 1153h	E200.7	10.0	<b>131</b>	
Manganese	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/25/2015 1559h	6/26/2015 1048h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/25/2015 1452h	7/6/2015 1445h	E200.7	1.00	<b>15.8</b>	
Selenium	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.00500	<b>0.00505</b>	
Silver	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/25/2015 1452h	7/6/2015 1348h	E200.7	50.0	<b>536</b>	2
Thallium	mg/L	6/25/2015 1452h	7/6/2015 1348h	E200.8	0.000500	<b>0.000687</b>	
Tin	mg/L	6/25/2015 1452h	7/9/2015 949h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2134h	E200.8	0.000300	<b>0.0141</b>	
Vanadium	mg/L	6/25/2015 1452h	7/6/2015 1445h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/25/2015 1452h	7/6/2015 1315h	E200.8	0.0100	<b>0.0977</b>	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-001  
**Client Sample ID:** MW-37\_06242015  
**Collection Date:** 6/24/2015 820h  
**Received Date:** 6/25/2015 905h

## Analytical Results

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2015 1610h	6/30/2015 1128h	E350.1	0.0500	<b>0.0688</b>	
Bicarbonate (as CaCO3)	mg/L		6/26/2015 1102h	SM2320B	1.00	<b>219</b>	
Carbonate (as CaCO3)	mg/L		6/26/2015 1102h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/6/2015 1900h	E300.0	10.0	<b>46.4</b>	
Fluoride	mg/L		7/6/2015 2024h	E300.0	0.100	<b>0.290</b>	
Ion Balance	%		7/8/2015 1530h	Calc.	-100	<b>-3.20</b>	
Nitrate/Nitrite (as N)	mg/L		7/2/2015 1757h	E353.2	0.100	<b>0.227</b>	
Sulfate	mg/L		7/6/2015 1735h	E300.0	1,000	<b>2,650</b>	
Total Anions, Measured	meq/L		7/8/2015 1530h	Calc.		<b>60.9</b>	
Total Cations, Measured	meq/L		7/8/2015 1530h	Calc.		<b>57.1</b>	
Total Dissolved Solids	mg/L		6/29/2015 1430h	SM2540C	20.0	<b>3,920</b>	
Total Dissolved Solids Ratio, Measured/Calculated			7/8/2015 1530h	Calc.		<b>0.988</b>	
Total Dissolved Solids, Calculated	mg/L		7/8/2015 1530h	Calc.		<b>3,960</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-001A  
**Client Sample ID:** MW-37\_06242015  
**Collection Date:** 6/24/2015 820h  
**Received Date:** 6/25/2015 905h Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/25/2015 1709h

**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
2-Butanone	78-93-3	20.0	< 20.0			
Acetone	67-64-1	20.0	< 20.0			
Benzene	71-43-2	1.00	< 1.00			
Carbon tetrachloride	56-23-5	1.00	< 1.00			
Chloroform	67-66-3	1.00	< 1.00			
Chloromethane	74-87-3	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	< 1.00			
Naphthalene	91-20-3	1.00	< 1.00			
Tetrahydrofuran	109-99-9	1.00	< 1.00			
Toluene	108-88-3	1.00	< 1.00			
Xylenes, Total	1330-20-7	1.00	< 1.00			
<b>Surrogate</b>	<b>CAS</b>	<b>Result</b>	<b>Amount Spiked</b>	<b>% REC</b>	<b>Limits</b>	<b>Qual</b>
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.2	50.00	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.7	50.00	97.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	46.9	50.00	93.7	80-124	
Surr: Toluene-d8	2037-26-5	46.6	50.00	93.2	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 29, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-37_05272015	Project: DNMI00100
Sample ID: 374145001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 27-MAY-15 13:30	
Receive Date: 02-JUN-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.184	0.465	1.00	pCi/L		AXM6	06/29/15	0949	1485844	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
I	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.7	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-009  
**Client Sample ID:** MW-65\_04092015  
**Collection Date:** 4/9/2015 755h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	4/14/2015 1044h	4/16/2015 859h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	4/14/2015 1044h	4/17/2015 1248h	E200.7	50.0	<b>508</b>	
Chromium	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.0100	< 0.0100	
Copper	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.0100	< 0.0100	
Iron	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.0300	<b>0.102</b>	
Lead	mg/L	4/14/2015 1044h	4/16/2015 1052h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	4/14/2015 1044h	4/17/2015 1248h	E200.7	50.0	<b>159</b>	
Manganese	mg/L	4/14/2015 1044h	4/16/2015 919h	E200.8	0.0100	<b>0.236</b>	
Mercury	mg/L	4/13/2015 1300h	4/14/2015 1031h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	4/14/2015 1044h	4/17/2015 1511h	E200.7	1.00	<b>11.6</b>	
Selenium	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.00500	< 0.00500	
Silver	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	4/14/2015 1044h	4/17/2015 1248h	E200.7	50.0	<b>420</b>	
Thallium	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.000500	< 0.000500	
Tin	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.100	< 0.100	
Uranium	mg/L	4/14/2015 1044h	4/15/2015 1926h	E200.8	0.000300	<b>0.0199</b>	
Vanadium	mg/L	4/14/2015 1044h	4/17/2015 1511h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	4/14/2015 1044h	4/21/2015 1909h	E200.8	0.0100	< 0.0100	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-009  
**Client Sample ID:** MW-65\_04092015  
**Collection Date:** 4/9/2015 755h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

### Analytical Results

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	4/16/2015 805h	4/16/2015 1650h	E350.1	0.0500	0.157	
Bicarbonate (as CaCO3)	mg/L		4/14/2015 700h	SM2320B	1.00	327	B
Carbonate (as CaCO3)	mg/L		4/14/2015 700h	SM2320B	1.00	< 1.00	
Chloride	mg/L		4/15/2015 049h	E300.0	10.0	65.4	
Fluoride	mg/L		4/15/2015 842h	E300.0	0.100	0.333	
Ion Balance	%		4/17/2015 1555h	Calc.	-100	0.0688	
Nitrate/Nitrite (as N)	mg/L		4/10/2015 1656h	E353.2	0.100	< 0.100	
Sulfate	mg/L		4/14/2015 1855h	E300.0	1,000	2,330	
Total Anions, Measured	meq/L		4/17/2015 1555h	Calc.		56.9	
Total Cations, Measured	meq/L		4/17/2015 1555h	Calc.		57.0	
Total Dissolved Solids	mg/L		4/14/2015 1150h	SM2540C	20.0	3,720	
Total Dissolved Solids Ratio, Measured/Calculated			4/17/2015 1555h	Calc.		1.01	
Total Dissolved Solids, Calculated	mg/L		4/17/2015 1555h	Calc.		3,690	

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-009A  
**Client Sample ID:** MW-65\_04092015  
**Collection Date:** 4/9/2015 755h  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/13/2015 958h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.7	50.00	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.1	50.00	98.1	80-124	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.0	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: May 11, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-65_04092015	Project: DNMI00100
Sample ID: 370955009	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 09-APR-15 07:55	
Receive Date: 14-APR-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time Batch	Method
Rad Gas Flow Proportional Counting											
GFPC, Total Alpha Radium, Liquid "As Received"											
Gross Radium Alpha		4.98	+/-0.672	0.760	1.00	pCi/L		AXM6	05/05/15	1654 1475925	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.1	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-003  
**Client Sample ID:** MW-70\_04302015  
**Collection Date:** 4/30/2015 840h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/1/2015 1229h	5/13/2015 1259h	E200.7	50.0	<b>493</b>	
Chromium	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/1/2015 1229h	5/12/2015 1611h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/1/2015 1229h	5/12/2015 1611h	E200.8	0.120	<b>1.33</b>	
Lead	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/1/2015 1229h	5/13/2015 1259h	E200.7	50.0	<b>216</b>	
Manganese	mg/L	5/1/2015 1229h	5/13/2015 1503h	E200.8	0.0500	<b>5.06</b>	
Mercury	mg/L	5/4/2015 1515h	5/5/2015 1120h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/1/2015 1229h	5/12/2015 1801h	E200.7	1.00	<b>17.0</b>	
Selenium	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/1/2015 1229h	5/13/2015 1259h	E200.7	50.0	<b>494</b>	
Thallium	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/1/2015 1229h	5/12/2015 1611h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/1/2015 1229h	5/12/2015 1713h	E200.8	0.000300	<b>0.0115</b>	
Vanadium	mg/L	5/1/2015 1229h	5/12/2015 1801h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/1/2015 1229h	5/12/2015 1611h	E200.8	0.0100	<b>0.0119</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-003  
**Client Sample ID:** MW-70\_04302015  
**Collection Date:** 4/30/2015 840h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/5/2015 1340h	5/5/2015 1648h	E350.1	0.0500	<b>0.590</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		5/4/2015 845h	SM2320B	1.00	<b>299</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		5/4/2015 845h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/5/2015 1813h	E300.0	10.0	<b>39.9</b>	
Fluoride	mg/L		5/5/2015 1903h	E300.0	0.100	< 0.100	
Ion Balance	%		5/13/2015 1559h	Calc.	-100	<b>1.25</b>	
Nitrate/Nitrite (as N)	mg/L		5/8/2015 1451h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/5/2015 1739h	E300.0	1,000	<b>2,670</b>	
Total Anions, Measured	meq/L		5/13/2015 1559h	Calc.		<b>62.8</b>	
Total Cations, Measured	meq/L		5/13/2015 1559h	Calc.		<b>64.4</b>	
Total Dissolved Solids	mg/L		5/1/2015 1245h	SM2540C	20.0	<b>4,230</b>	
Total Dissolved Solids Ratio, Measured/Calculated			5/13/2015 1559h	Calc.		<b>1.03</b>	
Total Dissolved Solids, Calculated	mg/L		5/13/2015 1559h	Calc.		<b>4,120</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-003A  
**Client Sample ID:** MW-70\_04302015  
**Collection Date:** 4/30/2015 840h  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1242h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.8	50.00	97.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.1	50.00	98.1	80-124	
Surr: Toluene-d8	2037-26-5	52.4	50.00	105	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 2, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-70_04302015	Project: DNMI00100
Sample ID: 372310003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 30-APR-15 08:40	
Receive Date: 05-MAY-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.292	0.923	1.00	pCi/L		AXM6	05/29/15	1440	1479494	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			101	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504208-010A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 4/7/2015  
**Received Date:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/13/2015 1017h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.1	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.4	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.1	50.00	98.2	80-124	
Surr: Toluene-d8	2037-26-5	51.2	50.00	102	77-129	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1504309-006A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 4/13/2015  
**Received Date:** 4/17/2015 950h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 4/20/2015 1111h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.3	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	68.0	50.00	136	80-152	
Surr: Dibromofluoromethane	1868-53-7	49.4	50.00	98.9	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Sample ID:** 1505005-013A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 4/27/2015  
**Received Date:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/1/2015 1557h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.9	50.00	99.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.0	50.00	104	80-152	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.0	80-124	
Surr: Toluene-d8	2037-26-5	51.7	50.00	103	77-129	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Sample ID:** 1506525-004A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/24/2015  
**Received Date:** 6/25/2015 905h Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/25/2015 1413h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.5	50.00	97.0	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.3	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.1	50.00	94.3	80-124	
Surr: Toluene-d8	2037-26-5	46.8	50.00	93.6	77-129	



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2015

Dear Garrin Palmer:

Lab Set ID: 1504208

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 4/10/2015 for the analyses presented in the following report.

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web: [www.awal-labs.com](http://www.awal-labs.com)

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Thank You,

Approved by:

<b>Jose G. Rocha</b>	Digitally signed by Jose G. Rocha
	DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US Date: 2015.04.24 10:54:29 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504208  
**Date Received:** 4/10/2015 1021h

3440 South 700 West Salt Lake City, UT 84119	<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date Collected</b>		<b>Matrix</b>	<b>Analysis</b>
	1504208-001A	MW-11_04082015	4/8/2015	1135h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1504208-001B	MW-11_04082015	4/8/2015	1135h	Aqueous	Anions, E300.0
	1504208-001B	MW-11_04082015	4/8/2015	1135h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Phone: (801) 263-8686	1504208-001C	MW-11_04082015	4/8/2015	1135h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1504208-001D	MW-11_04082015	4/8/2015	1135h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1504208-001D	MW-11_04082015	4/8/2015	1135h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1504208-001E	MW-11_04082015	4/8/2015	1135h	Aqueous	Ion Balance
	1504208-001E	MW-11_04082015	4/8/2015	1135h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1504208-001E	MW-11_04082015	4/8/2015	1135h	Aqueous	ICPMS Metals, Dissolved
	1504208-001E	MW-11_04082015	4/8/2015	1135h	Aqueous	Mercury, Drinking Water Dissolved
Kyle F. Gross	1504208-002A	MW-14_04082015	4/8/2015	1505h	Aqueous	VOA by GC/MS Method 8260C/5030C
Laboratory Director	1504208-002B	MW-14_04082015	4/8/2015	1505h	Aqueous	Anions, E300.0
	1504208-002B	MW-14_04082015	4/8/2015	1505h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Jose Rocha	1504208-002C	MW-14_04082015	4/8/2015	1505h	Aqueous	Total Dissolved Solids, A2540C
QA Officer	1504208-002D	MW-14_04082015	4/8/2015	1505h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1504208-002D	MW-14_04082015	4/8/2015	1505h	Aqueous	Ammonia, Aqueous
	1504208-002E	MW-14_04082015	4/8/2015	1505h	Aqueous	Ion Balance
	1504208-002E	MW-14_04082015	4/8/2015	1505h	Aqueous	ICP Metals, Dissolved
	1504208-002E	MW-14_04082015	4/8/2015	1505h	Aqueous	ICPMS Metals, Dissolved
	1504208-002E	MW-14_04082015	4/8/2015	1505h	Aqueous	Mercury, Drinking Water Dissolved
	1504208-003A	MW-25_04072015	4/7/2015	1315h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1504208-003B	MW-25_04072015	4/7/2015	1315h	Aqueous	Anions, E300.0
	1504208-003B	MW-25_04072015	4/7/2015	1315h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1504208-003C	MW-25_04072015	4/7/2015	1315h	Aqueous	Total Dissolved Solids, A2540C
	1504208-003D	MW-25_04072015	4/7/2015	1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1504208-003D	MW-25_04072015	4/7/2015	1315h	Aqueous	Ammonia, Aqueous
	1504208-003E	MW-25_04072015	4/7/2015	1315h	Aqueous	Ion Balance
	1504208-003E	MW-25_04072015	4/7/2015	1315h	Aqueous	ICP Metals, Dissolved
	1504208-003E	MW-25_04072015	4/7/2015	1315h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504208  
**Date Received:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1504208-003E	MW-25_04072015	4/7/2015 1315h	Aqueous	Mercury, Drinking Water Dissolved
1504208-004A	MW-26_04092015	4/9/2015 730h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504208-004B	MW-26_04092015	4/9/2015 730h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504208-004B	MW-26_04092015	4/9/2015 730h	Aqueous	Anions, E300.0
1504208-004C	MW-26_04092015	4/9/2015 730h	Aqueous	Total Dissolved Solids, A2540C
1504208-004D	MW-26_04092015	4/9/2015 730h	Aqueous	Ammonia, Aqueous
1504208-004D	MW-26_04092015	4/9/2015 730h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504208-004E	MW-26_04092015	4/9/2015 730h	Aqueous	Ion Balance
1504208-004E	MW-26_04092015	4/9/2015 730h	Aqueous	ICP Metals, Dissolved
1504208-004E	MW-26_04092015	4/9/2015 730h	Aqueous	ICPMS Metals, Dissolved
1504208-004E	MW-26_04092015	4/9/2015 730h	Aqueous	Mercury, Drinking Water Dissolved
1504208-005A	MW-30_04082015	4/8/2015 1625h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504208-005B	MW-30_04082015	4/8/2015 1625h	Aqueous	Anions, E300.0
1504208-005B	MW-30_04082015	4/8/2015 1625h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504208-005C	MW-30_04082015	4/8/2015 1625h	Aqueous	Total Dissolved Solids, A2540C
1504208-005D	MW-30_04082015	4/8/2015 1625h	Aqueous	Ammonia, Aqueous
1504208-005D	MW-30_04082015	4/8/2015 1625h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504208-005E	MW-30_04082015	4/8/2015 1625h	Aqueous	Ion Balance
1504208-005E	MW-30_04082015	4/8/2015 1625h	Aqueous	ICP Metals, Dissolved
1504208-005E	MW-30_04082015	4/8/2015 1625h	Aqueous	ICPMS Metals, Dissolved
1504208-005E	MW-30_04082015	4/8/2015 1625h	Aqueous	Mercury, Drinking Water Dissolved
1504208-006A	MW-31_04072015	4/7/2015 1430h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504208-006B	MW-31_04072015	4/7/2015 1430h	Aqueous	Anions, E300.0
1504208-006B	MW-31_04072015	4/7/2015 1430h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504208-006C	MW-31_04072015	4/7/2015 1430h	Aqueous	Total Dissolved Solids, A2540C
1504208-006D	MW-31_04072015	4/7/2015 1430h	Aqueous	Ammonia, Aqueous
1504208-006D	MW-31_04072015	4/7/2015 1430h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504208-006E	MW-31_04072015	4/7/2015 1430h	Aqueous	Mercury, Drinking Water Dissolved
1504208-006E	MW-31_04072015	4/7/2015 1430h	Aqueous	ICPMS Metals, Dissolved
1504208-006E	MW-31_04072015	4/7/2015 1430h	Aqueous	Ion Balance

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504208  
**Date Received:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1504208-006E	MW-31_04072015	4/7/2015 1430h	Aqueous	ICP Metals, Dissolved
3440 South 700 West Salt Lake City, UT 84119	1504208-007A	MW-32_04082015 4/8/2015 1210h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1504208-007B	MW-32_04082015 4/8/2015 1210h	Aqueous	Anions, E300.0
	1504208-007B	MW-32_04082015 4/8/2015 1210h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Phone: (801) 263-8686	1504208-007C	MW-32_04082015 4/8/2015 1210h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1504208-007D	MW-32_04082015 4/8/2015 1210h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1504208-007D	MW-32_04082015 4/8/2015 1210h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1504208-007E	MW-32_04082015 4/8/2015 1210h	Aqueous	ICP Metals, Dissolved
	1504208-007E	MW-32_04082015 4/8/2015 1210h	Aqueous	ICPMS Metals, Dissolved
web: www.awal-labs.com	1504208-007E	MW-32_04082015 4/8/2015 1210h	Aqueous	Mercury, Drinking Water Dissolved
	1504208-007E	MW-32_04082015 4/8/2015 1210h	Aqueous	Ion Balance
	1504208-008A	MW-35_04092015 4/9/2015 755h	Aqueous	VOA by GC/MS Method 8260C/5030C
Kyle F. Gross Laboratory Director	1504208-008B	MW-35_04092015 4/9/2015 755h	Aqueous	Anions, E300.0
	1504208-008B	MW-35_04092015 4/9/2015 755h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Jose Rocha QA Officer	1504208-008C	MW-35_04092015 4/9/2015 755h	Aqueous	Total Dissolved Solids, A2540C
	1504208-008D	MW-35_04092015 4/9/2015 755h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1504208-008D	MW-35_04092015 4/9/2015 755h	Aqueous	Ammonia, Aqueous
	1504208-008E	MW-35_04092015 4/9/2015 755h	Aqueous	ICPMS Metals, Dissolved
	1504208-008E	MW-35_04092015 4/9/2015 755h	Aqueous	Mercury, Drinking Water Dissolved
	1504208-008E	MW-35_04092015 4/9/2015 755h	Aqueous	ICP Metals, Dissolved
	1504208-008E	MW-35_04092015 4/9/2015 755h	Aqueous	Ion Balance
	1504208-009A	MW-65_04092015 4/9/2015 755h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1504208-009B	MW-65_04092015 4/9/2015 755h	Aqueous	Anions, E300.0
	1504208-009B	MW-65_04092015 4/9/2015 755h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1504208-009C	MW-65_04092015 4/9/2015 755h	Aqueous	Total Dissolved Solids, A2540C
	1504208-009D	MW-65_04092015 4/9/2015 755h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1504208-009D	MW-65_04092015 4/9/2015 755h	Aqueous	Ammonia, Aqueous
	1504208-009E	MW-65_04092015 4/9/2015 755h	Aqueous	Ion Balance
	1504208-009E	MW-65_04092015 4/9/2015 755h	Aqueous	ICP Metals, Dissolved
	1504208-009E	MW-65_04092015 4/9/2015 755h	Aqueous	ICPMS Metals, Dissolved
	1504208-009E	MW-65_04092015 4/9/2015 755h	Aqueous	Mercury, Drinking Water Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504208  
**Date Received:** 4/10/2015 1021h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1504208-010A	Trip Blank	4/7/2015	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504208

### Sample Receipt Information:

**Date of Receipt:** 4/10/2015  
**Dates of Collection:** 4/7-4/9/2015  
**Sample Condition:** See C-O-C  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1504208-001D	Ammonia (as N)	MS/RPD	Sample matrix interference or sample non-homogeneity
1504208-001E	Calcium	MS	High analyte concentration
1504208-001E	Sodium	MS/MSD	High analyte concentration

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.

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Jose Rocha  
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## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504208

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Kyle F. Gross  
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Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 4/10/2015  
**Dates of Collection:** 4/7-4/9/2015  
**Sample Condition:** See C-O-C  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** No target analytes were observed above reporting limits.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-36532		Date Analyzed:		04/17/2015 1217h									
Test Code:		200.7-DIS		Date Prepared:		04/14/2015 1044h							
Calcium	10.1	mg/L	E200.7	0.0401	1.00	10.00	0	101	85 - 115				
Magnesium	10.0	mg/L	E200.7	0.0294	1.00	10.00	0	100	85 - 115				
Potassium	10.1	mg/L	E200.7	0.247	1.00	10.00	0	101	85 - 115				
Sodium	10.7	mg/L	E200.7	0.0330	1.00	10.00	0	107	85 - 115				
Vanadium	0.204	mg/L	E200.7	0.00116	0.00500	0.2000	0	102	85 - 115				
<b>Lab Sample ID:</b> LCS-36534		Date Analyzed:		04/16/2015 813h									
Test Code:		200.8-DIS		Date Prepared:		04/14/2015 1044h							
Arsenic	0.199	mg/L	E200.8	0.0000920	0.00200	0.2000	0	99.5	85 - 115				
Beryllium	0.203	mg/L	E200.8	0.0000288	0.00200	0.2000	0	101	85 - 115				
Cadmium	0.196	mg/L	E200.8	0.000193	0.000500	0.2000	0	98.0	85 - 115				
Chromium	0.192	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.0	85 - 115				
Cobalt	0.190	mg/L	E200.8	0.0000434	0.00400	0.2000	0	95.1	85 - 115				
Copper	0.193	mg/L	E200.8	0.000692	0.00200	0.2000	0	96.7	85 - 115				
Iron	0.960	mg/L	E200.8	0.0118	0.100	1.000	0	96.0	85 - 115				
Lead	0.194	mg/L	E200.8	0.000264	0.00200	0.2000	0	96.9	85 - 115				
Manganese	0.195	mg/L	E200.8	0.00153	0.00200	0.2000	0	97.3	85 - 115				
Molybdenum	0.199	mg/L	E200.8	0.000206	0.00200	0.2000	0	99.3	85 - 115				
Nickel	0.190	mg/L	E200.8	0.000754	0.00200	0.2000	0	94.8	85 - 115				
Selenium	0.198	mg/L	E200.8	0.0000634	0.00200	0.2000	0	99.0	85 - 115				
Silver	0.180	mg/L	E200.8	0.0000244	0.00200	0.2000	0	90.0	85 - 115				
Thallium	0.187	mg/L	E200.8	0.0000242	0.00200	0.2000	0	93.4	85 - 115				
Tin	0.988	mg/L	E200.8	0.000348	0.00200	1.000	0	98.8	85 - 115				
Uranium	0.195	mg/L	E200.8	0.0000112	0.00200	0.2000	0	97.5	85 - 115				
<b>Lab Sample ID:</b> LCS-36534		Date Analyzed:		04/21/2015 1814h									
Test Code:		200.8-DIS		Date Prepared:		04/14/2015 1044h							
Zinc	0.980	mg/L	E200.8	0.00476	0.00500	1.000	0	98.0	85 - 115				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-36522	Date Analyzed:		04/14/2015 1002h										
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared:		04/13/2015 1300h										
Mercury	0.00342	mg/L	E245.1	0.00000892	0.000150	0.003330	0	103	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1504208

**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB-36532</b>		Date Analyzed: 04/17/2015 1215h											
Test Code: 200.7-DIS		Date Prepared: 04/14/2015 1044h											
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
<b>Lab Sample ID: MB-36534</b>		Date Analyzed: 04/15/2015 1830h											
Test Code: 200.8-DIS		Date Prepared: 04/14/2015 1044h											
Arsenic	< 0.000200	mg/L	E200.8	0.00000920	0.000200								
Cadmium	< 0.0000500	mg/L	E200.8	0.0000193	0.0000500								
Chromium	< 0.000200	mg/L	E200.8	0.000154	0.000200								
Cobalt	< 0.000400	mg/L	E200.8	0.00000434	0.000400								
Copper	< 0.000200	mg/L	E200.8	0.0000692	0.000200								
Iron	< 0.0100	mg/L	E200.8	0.00118	0.0100								
Manganese	< 0.000200	mg/L	E200.8	0.000153	0.000200								
Molybdenum	< 0.000200	mg/L	E200.8	0.0000206	0.000200								
Nickel	< 0.000200	mg/L	E200.8	0.0000754	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.00000634	0.000200								
Silver	< 0.000200	mg/L	E200.8	0.00000244	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.00000242	0.000200								
Tin	< 0.000200	mg/L	E200.8	0.0000348	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
<b>Lab Sample ID: MB-36534</b>		Date Analyzed: 04/16/2015 810h											
Test Code: 200.8-DIS		Date Prepared: 04/14/2015 1044h											
Beryllium	< 0.000500	mg/L	E200.8	0.00000720	0.000500								
Lead	< 0.000500	mg/L	E200.8	0.0000660	0.000500								



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1504208

**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-36534	Date Analyzed:	04/21/2015	1811h										
Test Code:	200.8-DIS	Date Prepared:	04/14/2015	1044h									
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								
<b>Lab Sample ID:</b> MB-36522	Date Analyzed:	04/14/2015	1000h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	04/13/2015	1300h									
Mercury	< 0.000150	mg/L	E245.1	0.00000892	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504208-001EMS</b>													
Date Analyzed:		04/17/2015 1225h											
Test Code:		200.7-DIS											
Date Prepared:		04/14/2015 1044h											
Calcium	88.5	mg/L	E200.7	0.802	20.0	10.00	81.7	68.1	70 - 130				2
Magnesium	36.3	mg/L	E200.7	0.588	20.0	10.00	26.3	99.6	70 - 130				
Sodium	613	mg/L	E200.7	0.660	20.0	10.00	621	-71.8	70 - 130				2
<b>Lab Sample ID: 1504208-001EMS</b>													
Date Analyzed:		04/17/2015 1448h											
Test Code:		200.7-DIS											
Date Prepared:		04/14/2015 1044h											
Potassium	17.1	mg/L	E200.7	0.247	1.00	10.00	7.02	101	70 - 130				
Vanadium	0.207	mg/L	E200.7	0.00116	0.00500	0.2000	0	104	70 - 130				
<b>Lab Sample ID: 1504208-001EMS</b>													
Date Analyzed:		04/16/2015 820h											
Test Code:		200.8-DIS											
Date Prepared:		04/14/2015 1044h											
Arsenic	0.209	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000323	104	75 - 125				
Beryllium	0.186	mg/L	E200.8	0.0000288	0.00200	0.2000	0.0000678	93.2	75 - 125				
Cadmium	0.193	mg/L	E200.8	0.000193	0.000500	0.2000	0.000057	96.7	75 - 125				
Chromium	0.194	mg/L	E200.8	0.00154	0.00200	0.2000	0.00016	97.1	75 - 125				
Cobalt	0.192	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000533	95.7	75 - 125				
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0.00018	97.2	75 - 125				
Iron	1.03	mg/L	E200.8	0.0118	0.100	1.000	0.0682	96.2	75 - 125				
Lead	0.191	mg/L	E200.8	0.000264	0.00200	0.2000	0.0000483	95.6	75 - 125				
Manganese	0.366	mg/L	E200.8	0.00153	0.00200	0.2000	0.17	98.1	75 - 125				
Molybdenum	0.206	mg/L	E200.8	0.000206	0.00200	0.2000	0.00242	102	75 - 125				
Nickel	0.191	mg/L	E200.8	0.000754	0.00200	0.2000	0.000768	95.1	75 - 125				
Selenium	0.197	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000089	98.3	75 - 125				
Silver	0.175	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000524	87.5	75 - 125				
Thallium	0.182	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000112	91.2	75 - 125				
Tin	1.00	mg/L	E200.8	0.000348	0.00200	1.000	0.000214	100	75 - 125				
Uranium	0.196	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000898	97.6	75 - 125				



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504208-001EMS      Date Analyzed: 04/21/2015 1830h													
Test Code: 200.8-DIS      Date Prepared: 04/14/2015 1044h													
Zinc	1.00	mg/L	E200.8	0.00476	0.00500	1.000	0.00839	99.2	75 - 125				
<b>Lab Sample ID:</b> 1504208-001EMS      Date Analyzed: 04/14/2015 1010h													
Test Code: HG-DW-DIS-245.1      Date Prepared: 04/13/2015 1300h													
Mercury	0.00350	mg/L	E245.1	0.00000892	0.000150	0.003330	0	105	85 - 115				

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504208-001EMSD	Date Analyzed:	04/17/2015	1227h										
Test Code:	200.7-DIS	Date Prepared:	04/14/2015	1044h									
Calcium	89.6	mg/L	E200.7	0.802	20.0	10.00	81.7	78.7	70 - 130	88.5	1.19	20	
Magnesium	36.0	mg/L	E200.7	0.588	20.0	10.00	26.3	96.6	70 - 130	36.3	0.838	20	
Sodium	617	mg/L	E200.7	0.660	20.0	10.00	621	-35.7	70 - 130	613	0.586	20	
<b>Lab Sample ID:</b> 1504208-001EMSD	Date Analyzed:	04/17/2015	1449h										
Test Code:	200.7-DIS	Date Prepared:	04/14/2015	1044h									
Potassium	17.2	mg/L	E200.7	0.247	1.00	10.00	7.02	102	70 - 130	17.1	0.568	20	
Vanadium	0.207	mg/L	E200.7	0.00116	0.00500	0.2000	0	104	70 - 130	0.207	0.0652	20	
<b>Lab Sample ID:</b> 1504208-001EMSD	Date Analyzed:	04/16/2015	823h										
Test Code:	200.8-DIS	Date Prepared:	04/14/2015	1044h									
Arsenic	0.209	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000323	105	75 - 125	0.209	0.280	20	
Beryllium	0.195	mg/L	E200.8	0.0000288	0.00200	0.2000	0.0000678	97.5	75 - 125	0.186	4.49	20	
Cadmium	0.203	mg/L	E200.8	0.000193	0.000500	0.2000	0.000057	102	75 - 125	0.193	5.09	20	
Chromium	0.197	mg/L	E200.8	0.00154	0.00200	0.2000	0.00016	98.6	75 - 125	0.194	1.49	20	
Cobalt	0.197	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000533	98.1	75 - 125	0.192	2.49	20	
Copper	0.198	mg/L	E200.8	0.000692	0.00200	0.2000	0.00018	98.9	75 - 125	0.195	1.67	20	
Iron	1.06	mg/L	E200.8	0.0118	0.100	1.000	0.0682	99.6	75 - 125	1.03	3.19	20	
Lead	0.202	mg/L	E200.8	0.000264	0.00200	0.2000	0.0000483	101	75 - 125	0.191	5.55	20	
Manganese	0.381	mg/L	E200.8	0.00153	0.00200	0.2000	0.17	105	75 - 125	0.366	3.93	20	
Molybdenum	0.218	mg/L	E200.8	0.000206	0.00200	0.2000	0.00242	108	75 - 125	0.206	5.45	20	
Nickel	0.198	mg/L	E200.8	0.000754	0.00200	0.2000	0.000768	98.7	75 - 125	0.191	3.71	20	
Selenium	0.197	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000089	98.5	75 - 125	0.197	0.270	20	
Silver	0.184	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000524	91.9	75 - 125	0.175	5.01	20	
Thallium	0.192	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000112	96.1	75 - 125	0.182	5.26	20	
Tin	1.06	mg/L	E200.8	0.000348	0.00200	1.000	0.000214	106	75 - 125	1	5.68	20	
Uranium	0.209	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000898	104	75 - 125	0.196	6.50	20	



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1504208

**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504208-001EMSD	Date Analyzed:		04/21/2015 1833h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:		04/14/2015 1044h										
Zinc	0.993	mg/L	E200.8	0.00476	0.00500	1.000	0.00839	98.5	75 - 125	1	0.689	20	
<b>Lab Sample ID:</b> 1504208-001EMSD	Date Analyzed:		04/14/2015 1012h										
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared:		04/13/2015 1300h										
Mercury	0.00303	mg/L	E245.1	0.00000892	0.000150	0.003330	0	91.0	85 - 115	0.0035	14.2	20	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504208-001CDUP	Date Analyzed: 04/14/2015 1150h												
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	2,000	mg/L	SM2540C	12.3	20.0					2010	0.398	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-R77606													
Date Analyzed: 04/14/2015 1356h													
Test Code: 300.0-W													
Chloride	5.16	mg/L	E300.0	0.00751	0.100	5.000	0	103	90 - 110				
Fluoride	5.32	mg/L	E300.0	0.00681	0.100	5.000	0	106	90 - 110				
Sulfate	5.29	mg/L	E300.0	0.0211	0.750	5.000	0	106	90 - 110				
<b>Lab Sample ID:</b> LCS-R77548													
Date Analyzed: 04/14/2015 700h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	51,900	mg/L	SM2320B	0.504	1.00	50,000	0	104	90 - 110				
<b>Lab Sample ID:</b> LCS-36592													
Date Analyzed: 04/16/2015 1621h													
Test Code: NH3-W-350.1													
Date Prepared: 04/16/2015 805h													
Ammonia (as N)	9.54	mg/L	E350.1	0.0226	0.0500	10.00	0	95.4	90 - 110				
<b>Lab Sample ID:</b> LCS-R77485													
Date Analyzed: 04/10/2015 1618h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.980	mg/L	E353.2	0.00833	0.0100	1.000	0	98.0	90 - 110				
<b>Lab Sample ID:</b> LCS-R77637													
Date Analyzed: 04/14/2015 1150h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	190	mg/L	SM2540C	6.13	10.0	205.0	0	92.7	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB-R77606</b> Date Analyzed: 04/14/2015 1340h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID: MB-R77548</b> Date Analyzed: 04/14/2015 700h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	1.00	mg/L	SM2320B	0.504	1.00								B
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
<b>Lab Sample ID: MB-36592</b> Date Analyzed: 04/16/2015 1619h													
Test Code: NH3-W-350.1      Date Prepared: 04/16/2015 805h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0226	0.0500								
<b>Lab Sample ID: MB-R77485</b> Date Analyzed: 04/10/2015 1617h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID: MB-R77637</b> Date Analyzed: 04/14/2015 1150h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504208-003BMS</b> Date Analyzed: 04/14/2015 1730h													
Test Code: 300.0-W													
Chloride	4,910	mg/L	E300.0	7.51	100	5,000	31.1	97.6	90 - 110				
Fluoride	4,930	mg/L	E300.0	6.81	100	5,000	0	98.5	90 - 110				
Sulfate	6,760	mg/L	E300.0	21.1	750	5,000	1580	103	90 - 110				
<b>Lab Sample ID: 1504208-005BMS</b> Date Analyzed: 04/14/2015 1928h													
Test Code: 300.0-W													
Chloride	635	mg/L	E300.0	0.751	10.0	500.0	142	98.7	90 - 110				
Fluoride	502	mg/L	E300.0	0.681	10.0	500.0	0	100	90 - 110				
Sulfate	1,280	mg/L	E300.0	2.11	75.0	500.0	783	98.9	90 - 110				
<b>Lab Sample ID: 1504208-001BMS</b> Date Analyzed: 04/14/2015 2217h													
Test Code: 300.0-W													
Chloride	82.9	mg/L	E300.0	0.0751	1.00	50.00	32.5	101	90 - 110				
Fluoride	50.6	mg/L	E300.0	0.0681	1.00	50.00	0.32	101	90 - 110				
<b>Lab Sample ID: 1504208-001BMS</b> Date Analyzed: 04/15/2015 535h													
Test Code: 300.0-W													
Fluoride	5.38	mg/L	E300.0	0.00681	0.100	5,000	0.32	101	90 - 110				
<b>Lab Sample ID: 1504208-001BMS</b> Date Analyzed: 04/14/2015 700h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO <sub>3</sub> )	417	mg/L	SM2320B	0.504	1.00	100.0	315	102	80 - 120				
<b>Lab Sample ID: 1504208-001DMS</b> Date Analyzed: 04/16/2015 1634h													
Test Code: NH3-W-350.1 Date Prepared: 04/16/2015 805h													
Ammonia (as N)	9.06	mg/L	E350.1	0.0226	0.0500	10.00	0.685	83.7	90 - 110				
<b>Lab Sample ID: 1504208-001DMS</b> Date Analyzed: 04/10/2015 1640h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.904	mg/L	E353.2	0.00833	0.0100	1.000	0	90.4	90 - 110				

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

Report Date: 4/24/2015 Page 47 of 53



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504208-003BMSD</b> Date Analyzed: 04/14/2015 1747h													
Test Code: 300.0-W													
Chloride	4,990	mg/L	E300.0	7.51	100	5,000	31.1	99.2	90 - 110	4910	1.54	20	
Fluoride	5,030	mg/L	E300.0	6.81	100	5,000	0	101	90 - 110	4930	2.10	20	
Sulfate	6,750	mg/L	E300.0	21.1	750	5,000	1580	103	90 - 110	6760	0.112	20	
<b>Lab Sample ID: 1504208-005BMSD</b> Date Analyzed: 04/14/2015 1945h													
Test Code: 300.0-W													
Chloride	639	mg/L	E300.0	0.751	10.0	500.0	142	99.4	90 - 110	635	0.569	20	
Fluoride	501	mg/L	E300.0	0.681	10.0	500.0	0	100	90 - 110	502	0.161	20	
Sulfate	1,310	mg/L	E300.0	2.11	75.0	500.0	783	104	90 - 110	1280	2.11	20	
<b>Lab Sample ID: 1504208-001BMSD</b> Date Analyzed: 04/14/2015 2234h													
Test Code: 300.0-W													
Chloride	83.4	mg/L	E300.0	0.0751	1.00	50.00	32.5	102	90 - 110	82.9	0.487	20	
Fluoride	50.6	mg/L	E300.0	0.0681	1.00	50.00	0.32	100	90 - 110	50.6	0.164	20	
<b>Lab Sample ID: 1504208-001BMSD</b> Date Analyzed: 04/15/2015 552h													
Test Code: 300.0-W													
Fluoride	5.36	mg/L	E300.0	0.00681	0.100	5.000	0.32	101	90 - 110	5.38	0.300	20	
<b>Lab Sample ID: 1504208-001BMSD</b> Date Analyzed: 04/14/2015 700h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	421	mg/L	SM2320B	0.504	1.00	100.0	315	106	80 - 120	417	0.859	10	
<b>Lab Sample ID: 1504208-001DMSD</b> Date Analyzed: 04/16/2015 1635h													
Test Code: NH3-W-350.1 Date Prepared: 04/16/2015 805h													
Ammonia (as N)	10.6	mg/L	E350.1	0.0226	0.0500	10.00	0.685	99.1	90 - 110	9.06	15.7	10	@
<b>Lab Sample ID: 1504208-001DMSD</b> Date Analyzed: 04/10/2015 1642h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.900	mg/L	E353.2	0.00833	0.0100	1.000	0	90.0	90 - 110	0.905	0.454	10	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

Report Date: 4/24/2015 Page 48 of 53



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: LCS VOC-1 041015A</b> Date Analyzed: 04/10/2015 706h													
Test Code: 8260-W-DEN100													
Benzene	20.7	µg/L	SW8260C	0.270	1.00	20.00	0	104	62 - 127				
Chloroform	20.9	µg/L	SW8260C	0.153	1.00	20.00	0	104	67 - 132				
Methylene chloride	19.6	µg/L	SW8260C	0.172	1.00	20.00	0	98.1	32 - 185				
Naphthalene	20.0	µg/L	SW8260C	0.587	1.00	20.00	0	100	28 - 136				
Tetrahydrofuran	21.2	µg/L	SW8260C	0.516	1.00	20.00	0	106	43 - 146				
Toluene	20.5	µg/L	SW8260C	0.183	1.00	20.00	0	102	64 - 129				
Xylenes, Total	63.1	µg/L	SW8260C	0.857	1.00	60.00	0	105	52 - 134				
Surr: 1,2-Dichloroethane-d4	50.3	µg/L	SW8260C			50.00		101	76 - 138				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.7	77 - 121				
Surr: Dibromofluoromethane	49.1	µg/L	SW8260C			50.00		98.3	67 - 128				
Surr: Toluene-d8	49.0	µg/L	SW8260C			50.00		98.1	81 - 135				
<b>Lab Sample ID: LCS VOC-1 041315A</b> Date Analyzed: 04/13/2015 721h													
Test Code: 8260-W-DEN100													
Benzene	20.8	µg/L	SW8260C	0.270	1.00	20.00	0	104	62 - 127				
Chloroform	20.9	µg/L	SW8260C	0.153	1.00	20.00	0	104	67 - 132				
Methylene chloride	19.8	µg/L	SW8260C	0.172	1.00	20.00	0	99.2	32 - 185				
Naphthalene	19.9	µg/L	SW8260C	0.587	1.00	20.00	0	99.4	28 - 136				
Tetrahydrofuran	22.0	µg/L	SW8260C	0.516	1.00	20.00	0	110	43 - 146				
Toluene	20.5	µg/L	SW8260C	0.183	1.00	20.00	0	102	64 - 129				
Xylenes, Total	62.6	µg/L	SW8260C	0.857	1.00	60.00	0	104	52 - 134				
Surr: 1,2-Dichloroethane-d4	52.4	µg/L	SW8260C			50.00		105	76 - 138				
Surr: 4-Bromofluorobenzene	49.2	µg/L	SW8260C			50.00		98.5	77 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.5	67 - 128				
Surr: Toluene-d8	49.3	µg/L	SW8260C			50.00		98.7	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB VOC-1 041015A</b> Date Analyzed: 04/10/2015 748h													
Test Code: 8260-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260C	4.11	20.0								
Acetone	< 20.0	µg/L	SW8260C	1.70	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	51.8	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	51.6	µg/L	SW8260C			50.00		103	77 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260C			50.00		99.1	67 - 128				
Surr: Toluene-d8	50.5	µg/L	SW8260C			50.00		101	81 - 135				

<b>Lab Sample ID: MB VOC-1 041315A</b> Date Analyzed: 04/13/2015 802h													
Test Code: 8260-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260C	4.11	20.0								
Acetone	< 20.0	µg/L	SW8260C	1.70	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB VOC-1 041315A</b>		Date Analyzed: 04/13/2015 802h											
Test Code: 8260-W-DEN100													
Surr: 1,2-Dichloroethane-d4	53.0	µg/L	SW8260C			50.00		106	76 - 138				
Surr: 4-Bromofluorobenzene	51.9	µg/L	SW8260C			50.00		104	77 - 121				
Surr: Dibromofluoromethane	49.6	µg/L	SW8260C			50.00		99.3	67 - 128				
Surr: Toluene-d8	50.6	µg/L	SW8260C			50.00		101	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504208-004AMS		Date Analyzed: 04/13/2015 840h											
<b>Test Code:</b> 8260-W-DEN100													
Benzene	449	µg/L	SW8260C	5.40	20.0	400.0	0	112	66 - 145				
Chloroform	1,920	µg/L	SW8260C	3.06	20.0	400.0	1520	101	50 - 146				
Methylene chloride	423	µg/L	SW8260C	3.44	20.0	400.0	3.99	105	30 - 192				
Naphthalene	380	µg/L	SW8260C	11.7	20.0	400.0	0	95.0	41 - 131				
Tetrahydrofuran	464	µg/L	SW8260C	10.3	20.0	400.0	0	116	43 - 146				
Toluene	427	µg/L	SW8260C	3.66	20.0	400.0	0	107	18 - 192				
Xylenes, Total	1,320	µg/L	SW8260C	17.1	20.0	1,200	0	110	42 - 167				
Surr: 1,2-Dichloroethane-d4	1,040	µg/L	SW8260C			1,000		104	72 - 151				
Surr: 4-Bromofluorobenzene	966	µg/L	SW8260C			1,000		96.6	80 - 128				
Surr: Dibromofluoromethane	999	µg/L	SW8260C			1,000		99.9	80 - 124				
Surr: Toluene-d8	979	µg/L	SW8260C			1,000		97.9	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504208  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504208-004AMSD		<b>Date Analyzed:</b> 04/13/2015 900h											
<b>Test Code:</b> 8260-W-DEN100													
Benzene	427	µg/L	SW8260C	5.40	20.0	400.0	0	107	66 - 145	449	4.89	25	
Chloroform	1,860	µg/L	SW8260C	3.06	20.0	400.0	1520	85.5	50 - 146	1920	3.21	25	
Methylene chloride	411	µg/L	SW8260C	3.44	20.0	400.0	3.99	102	30 - 192	423	3.02	25	
Naphthalene	393	µg/L	SW8260C	11.7	20.0	400.0	0	98.2	41 - 131	380	3.26	25	
Tetrahydrofuran	467	µg/L	SW8260C	10.3	20.0	400.0	0	117	43 - 146	464	0.731	25	
Toluene	415	µg/L	SW8260C	3.66	20.0	400.0	0	104	18 - 192	427	2.80	25	
Xylenes, Total	1,250	µg/L	SW8260C	17.1	20.0	1,200	0	104	42 - 167	1320	5.45	25	
Surr: 1,2-Dichloroethane-d4	1,050	µg/L	SW8260C			1,000		105	72 - 151				
Surr: 4-Bromofluorobenzene	977	µg/L	SW8260C			1,000		97.7	80 - 128				
Surr: Dibromofluoromethane	1,000	µg/L	SW8260C			1,000		100	80 - 124				
Surr: Toluene-d8	991	µg/L	SW8260C			1,000		99.1	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1504208**

Page 1 of 7

**Client:** Energy Fuels Resources, Inc.

Due Date: 4/21/2015

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2015

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Dissolved metals were field filtered.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1504208-001A	MW-11_04082015	4/8/2015 1135h	4/10/2015 1021h	8260-W-DEN100	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
1504208-001B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			
				<i>2 SEL Analytes: ALKB ALKC</i>			
1504208-001C				TDS-W-2540C		ww - tds	
				<i>1 SEL Analytes: TDS</i>			
1504208-001D				NH3-W-350.1		df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR			
				df - no2/no3 & nh3			
				NO2/NO3-W-353.2			
				<i>1 SEL Analytes: NO3NO2N</i>			
1504208-001E				200.7-DIS		df-met	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>			
				200.7-DIS-PR			
				df-met			
				200.8-DIS			
				<i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>			
				200.8-DIS-PR			
				df-met			
				HG-DW-DIS-245.1			
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			
				df-met			
				IONBALANCE			
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1504208-002A	MW-14_04082015	4/8/2015 1505h	4/10/2015 1021h	8260-W-DEN100	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
1504208-002B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			
				<i>2 SEL Analytes: ALKB ALKC</i>			

# WORK ORDER Summary

Work Order: **1504208** Page 2 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 4/21/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1504208-002C	MW-14_04082015	4/8/2015 1505h	4/10/2015 1021h	TDS-W-2540C	Aqueous	ww	tds
				<i>1 SEL Analytes: TDS</i>			
1504208-002D				NH3-W-350.1		df	no2/no3 & nh3
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR		df	no2/no3 & nh3
				NO2/NO3-W-353.2		df	no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
1504208-002E				200.7-DIS		df	met
				<i>6 SEL Analytes: CA MG K NA V ZN</i>			
				200.7-DIS-PR		df	met
				200.8-DIS		df	met
				<i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>			
				200.8-DIS-PR		df	met
				HG-DW-DIS-245.1		df	met
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR		df	met
				IONBALANCE		df	met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1504208-003A	MW-25_04072015	4/7/2015 1315h	4/10/2015 1021h	8260-W-DEN100	Aqueous	VOC	Fridge
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
1504208-003B				300.0-W		df	wc
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL		df	wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1504208-003C				TDS-W-2540C		ww	tds
				<i>1 SEL Analytes: TDS</i>			
1504208-003D				NH3-W-350.1		df	no2/no3 & nh3
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR		df	no2/no3 & nh3
				NO2/NO3-W-353.2		df	no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
1504208-003E				200.7-DIS		df	met
				<i>6 SEL Analytes: CA MG K NA V ZN</i>			
				200.7-DIS-PR		df	met
				200.8-DIS		df	met
				<i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>			
				200.8-DIS-PR		df	met

# WORK ORDER Summary

Work Order: **1504208**

Page 3 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 4/21/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1504208-003E	MW-25_04072015	4/7/2015 1315h	4/10/2015 1021h	HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>	Aqueous	df-met		1
				HG-DW-DIS-PR		df-met		
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met		
1504208-004A	MW-26_04092015	4/9/2015 0730h	4/10/2015 1021h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge		3
1504208-004B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc		1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc		
1504208-004C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - tds		
1504208-004D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3		
				NH3-W-PR		df - no2/no3 & nh3		
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3		
1504208-004E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		df-met		
				200.7-DIS-PR		df-met		
				200.8-DIS <i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>		df-met		
				200.8-DIS-PR		df-met		
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met		
				HG-DW-DIS-PR		df-met		
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met		
1504208-005A	MW-30_0408205	4/8/2015 1625h	4/10/2015 1021h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge		3
1504208-005B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc		1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc		
1504208-005C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - tds		

# WORK ORDER Summary

Work Order: **1504208** Page 4 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 4/21/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1504208-005D	MW-30_0408205	4/8/2015 1625h	4/10/2015 1021h	NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>	Aqueous	df - no2/no3 & nh3	1
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1504208-005E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Antons Cations TDS-Balance TDS-Calc</i>		df-met	
1504208-006A	MW-31_04072015	4/7/2015 1430h	4/10/2015 1021h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
1504208-006B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
1504208-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - tds	
1504208-006D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1504208-006E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	

# WORK ORDER Summary

Work Order: **1504208** Page 5 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 4/21/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1504208-006E	MW-31_04072015	4/7/2015 1430h	4/10/2015 1021h	HG-DW-DIS-PR	Aqueous	df-met		1
				IONBALANCE		df-met		
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1504208-007A	MW-32_04082015	4/8/2015 1210h	4/10/2015 1021h	8260-W-DEN100	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				
1504208-007B				300.0-W		df - wc		1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL		df - wc		
				2 SEL Analytes: ALKB ALKC				
1504208-007C				TDS-W-2540C		ww - tds		
				1 SEL Analytes: TDS				
1504208-007D				NH3-W-350.1		df - no2/no3 & nh3		
				1 SEL Analytes: NH3N				
				NH3-W-PR		df - no2/no3 & nh3		
				NO2/NO3-W-353.2		df - no2/no3 & nh3		
				1 SEL Analytes: NO3NO2N				
1504208-007E				200.7-DIS		df-met		
				6 SEL Analytes: CA MG K NA V ZN				
				200.7-DIS-PR		df-met		
				200.8-DIS		df-met		
				16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U				
				200.8-DIS-PR		df-met		
				HG-DW-DIS-245.1		df-met		
				1 SEL Analytes: HG				
				HG-DW-DIS-PR		df-met		
				IONBALANCE		df-met		
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1504208-008A	MW-35_04092015	4/9/2015 0755h	4/10/2015 1021h	8260-W-DEN100	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4				
1504208-008B				300.0-W		df - wc		1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL		df - wc		
				2 SEL Analytes: ALKB ALKC				
1504208-008C				TDS-W-2540C		ww - tds		
				1 SEL Analytes: TDS				
1504208-008D				NH3-W-350.1		df - no2/no3 & nh3		
				1 SEL Analytes: NH3N				
				NH3-W-PR		df - no2/no3 & nh3		

# WORK ORDER Summary

Work Order: **1504208** Page 6 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 4/21/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1504208-008D	MW-35_04092015	4/9/2015 0755h	4/10/2015 1021h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	df - no2/no3 & nh3	1
1504208-008E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1504208-009A	MW-65_04092015	4/9/2015 0755h	4/10/2015 1021h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
1504208-009B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
1504208-009C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - tds	
1504208-009D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1504208-009E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>16 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	

# WORK ORDER Summary

Work Order: **1504208** Page 7 of 7

Client: Energy Fuels Resources, Inc.

Due Date: 4/21/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1504208-010A	Trip Blank	4/7/2015	4/10/2015 1021h	8260-W-DEN100	Aqueous	VOCFridge	3

*Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4*



# AMERICAN WEST ANALYTICAL LABORATORIES

463 W. 3600 S. SALT LAKE CITY, UT 84115  
PHONE # (801) 263-8686 TOLL FREE # (888) 263-8686

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WWW.AWAL-LABS.COM

## CHAIN OF CUSTODY

ALL ANALYSIS WILL BE CONDUCTED USING NELAP ACCREDITED METHODS AND ALL DATA WILL BE REPORTED USING AWAL'S STANDARD ANALYTE LISTS AND REPORTING LIMITS (PQL) UNLESS SPECIFICALLY REQUESTED OTHERWISE ON THIS CHAIN OF CUSTODY AND/OR ATTACHED DOCUMENTATION.

1504208

AWAL LAB SAMPLE SET #

PAGE 1 OF 1

CLIENT: **Energy Fuels Resources, Inc.**  
 ADDRESS: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 CONTACT: **Garrin Palmer**  
 PHONE #: **(435) 678-2221** CELL #: \_\_\_\_\_  
 EMAIL: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**  
 PROJECT NAME: **2nd Quarter Groundwater 2015**  
 PROJECT #: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 SAMPLER NAME: **Tanner Holliday**

QC LEVEL:		TURN AROUND TIME:		UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.		DUE DATE:					
3		STANDARD									
# OF CONTAINERS	SAMPLE MATRIX	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Ti, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	KNOWN HAZARDS & SAMPLE COMMENTS
7	W	X	X	X	X	X	X	X	X	X	
7	W	X	X	X	X	X	X	X	X	X	
7	W	X	X	X	X	X	X	X	X	X	
7	W	X	X	X	X	X	X	X	X	X	
7	W	X	X	X	X	X	X	X	X	X	
7	W	X	X	X	X	X	X	X	X	X	
7	W	X	X	X	X	X	X	X	X	X	
7	W	X	X	X	X	X	X	X	X	X	
3	W									X	
1	W										

INCLUDE EDD:  
LOCUS UPLOAD  
EXCEL  
 FIELD FILTERED FOR:  
Dissolved Metals

FOR COMPLIANCE WITH:  
 NELAP  
 RCRA  
 CWA  
 SDWA  
 ELAP / A2LA  
 NLLAP  
 NON-COMPLIANCE  
 OTHER:

LABORATORY USE ONLY

SAMPLES WERE: **Fed Ex**

1 SHIPPED OR HAND DELIVERED  Y

2 AMBIENT OR CHILLED  Y

3 TEMPERATURE **2.3** °C  Y

4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)  Y  N

5 PROPERLY PRESERVED  Y  N  
CHECKED AT BENCH  Y  N

6 RECEIVED WITHIN HOLDING TIMES  Y  N

COC TAPS WERE:

1 PRESENT ON OUTER PACKAGE  Y  N **NA**

2 UNBROKEN ON OUTER PACKAGE  Y  N **NA**

3 PRESENT ON SAMPLE  Y  N **NA**

4 UNBROKEN ON SAMPLE  Y  N **NA**

DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD?  Y  N

	SAMPLE ID:	DATE SAMPLED	TIME SAMPLED
1	MW-11_04082015	4/8/2015	1135
2	MW-14_04082015	4/8/2015	1505
3	MW-25_04072015	4/7/2015	1315
4	MW-26_04092015	4/9/2015	730
5	MW-30_04082015	4/8/2015	1625
6	MW-31_04072015	4/7/2015	1430
7	MW-32_04082015	4/8/2015	1210
8	MW-35_04092015	4/9/2015	755
9	MW-65_04092015	4/9/2015	755
10	TRIP BLANK	4/7/2015	
11	TEMP BLANK	4/9/2015	

RELINQUISHED BY: <b>Tanner Holliday</b> SIGNATURE: _____ DATE: <b>4/9/2015</b> TIME: <b>1100</b>	RECEIVED BY: <b>Denise Bruun</b> SIGNATURE: _____ DATE: <b>4/10/15</b> TIME: <b>10:21</b>
RELINQUISHED BY: _____ SIGNATURE: _____ DATE: _____ TIME: _____	RECEIVED BY: _____ SIGNATURE: _____ DATE: _____ TIME: _____
RELINQUISHED BY: _____ SIGNATURE: _____ DATE: _____ TIME: _____	RECEIVED BY: _____ SIGNATURE: _____ DATE: _____ TIME: _____
RELINQUISHED BY: _____ SIGNATURE: _____ DATE: _____ TIME: _____	RECEIVED BY: _____ SIGNATURE: _____ DATE: _____ TIME: _____

SPECIAL INSTRUCTIONS:

Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Contaminant	Analytical Methods to be Used	Reporting Limit <sup>1</sup>	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
Tin	E200.7 or E200.8	100 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Uranium	E200.7 or E200.8	0.30 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Vanadium	E200.7 or E200.8	15 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
Zinc	E200.7 or E200.8	10 µg/L	6 months	HNO <sub>3</sub> to pH<2	None
<b>Radiologies</b>					
Gross Alpha	E 900.0 or E900.1	1.0 pCi/L	6 months	HNO <sub>3</sub> to pH<2	None
<b>Volatile Organic Compounds</b>					
Acetone	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Benzene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
2-Butanone (MEK)	SW8260B or SW8260C	20 µg/L	14 days	HCl to pH<2	≤ 6°C
Carbon Tetrachloride	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloroform	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Chloromethane	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Dichloromethane (Methylene Chloride)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Naphthalene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Tetrahydrofuran	SW8260B	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C

Contaminant	Analytical Methods to be Used	Reporting Limit <sup>1</sup>	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
	or SW8260C				
Toluene	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
Xylenes (total)	SW8260B or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
<b>Others</b>					
Field pH (S.U.)	A4500-H B	0.01 s.u.	Immediate	None	None
Fluoride	A4500-F C or E300.0	0.1 mg/L	28 days	None	None
TDS	A2540 C	10 mg/L	7 days	None	≤ 6°C
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	None
Sulfate	A4500- SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO <sub>3</sub>	A2320 B	1 mg/L	14 days	None	≤ 6°C
Sodium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Potassium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Magnesium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None
Calcium	E200.7	0.5 mg/L	6 months	HNO <sub>3</sub> to pH<2	None

1. The Analytical Laboratory will be required to meet the reporting limits ("RLs") in the foregoing Table, unless the RL must be increased due to sample matrix interference (i.e., due to dilution gain), in which case the increased RL will be used, or unless otherwise approved by the Executive Secretary.

Lab Set ID: 1504208

DB 4/9/15

<b>Samples Were:</b>	<b>COC Tape Was:</b>	<b>Container Type:</b>	No. Rec.
<input type="checkbox"/> Shipped By:	<b>Present on Outer Package</b>	<input type="checkbox"/> AWAL Supplied Plastic	
<input checked="" type="checkbox"/> Hand Delivered	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> AWAL Supplied Clear Glass	
<input type="checkbox"/> Ambient	<b>Unbroken on Outer package</b>	<input type="checkbox"/> AWAL Supplied Amber Glass	
<input checked="" type="checkbox"/> Chilled	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> AWAL Supplied VOA/TOC/TOX Vials	
Temperature <u>2.3</u> °C	<b>Present on Sample</b>	<input type="checkbox"/> Amber <input type="checkbox"/> Clear <input type="checkbox"/> Headspace <input type="checkbox"/> No Headspace	
Rec. Broken/Leaking <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> Non AWAL Supplied Container	
<b>Notes:</b>	<b>Unbroken on Sample</b>	<b>Notes:</b>	
Properly Preserved <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
<b>Notes:</b>	<b>Notes:</b>		
Rec. Within Hold <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Discrepancies Between Labels and COC</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>Notes:</b>		<b>Notes:</b>	

Bottle Type	Preservative	All pHs OK	-001	-002	-003	-004	-005	-006	-007	-008	-009						
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>		yes														
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Cyanide	pH >12 NaOH																
Metals	pH <2 HNO <sub>3</sub>		yes														
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>		yes														
Nutrients	pH <2 H <sub>2</sub> SO <sub>4</sub>																
O & G	pH <2 HCL																
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																
Sulfide	pH > 9NaOH, ZnAC																
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TOC	pH <2 H <sub>3</sub> PO <sub>4</sub>																
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																
TPH	pH <2 HCL																

- Procedure:
- 1) Pour a small amount of sample in the sample lid
  - 2) Pour sample from Lid gently over wide range pH paper
  - 3) Do Not dip the pH paper in the sample bottle or lid
  - 4) If sample is not preserved properly list its extension and receiving pH in the appropriate column above
  - 5) Flag COC and notify client for further instructions
  - 6) Place client conversation on COC
  - 7) Samples may be adjusted at client request



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2015

Dear Garrin Palmer:

Lab Set ID: 1504309

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 4/17/2015 for the analyses presented in the following report.

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

web: [www.awal-labs.com](http://www.awal-labs.com)

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by:

Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou,  
email=jose@awal-labs.com,  
c=US  
Date: 2015.05.01 09:34:05  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504309  
**Date Received:** 4/17/2015 950h

**Contact:** Garrin Palmer

3440 South 700 West  
Salt Lake City, UT 84119

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1504309-001A	MW-01_04152015	4/15/2015 1635h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504309-001B	MW-01_04152015	4/15/2015 1635h	Aqueous	Anions, E300.0
1504309-001B	MW-01_04152015	4/15/2015 1635h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504309-001C	MW-01_04152015	4/15/2015 1635h	Aqueous	Total Dissolved Solids, A2540C
1504309-001D	MW-01_04152015	4/15/2015 1635h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504309-001D	MW-01_04152015	4/15/2015 1635h	Aqueous	Ammonia, Aqueous
1504309-001E	MW-01_04152015	4/15/2015 1635h	Aqueous	Ion Balance
1504309-001E	MW-01_04152015	4/15/2015 1635h	Aqueous	ICP Metals, Dissolved
1504309-001E	MW-01_04152015	4/15/2015 1635h	Aqueous	ICPMS Metals, Dissolved
1504309-001E	MW-01_04152015	4/15/2015 1635h	Aqueous	Mercury, Drinking Water Dissolved
1504309-002A	MW-15_04132015	4/13/2015 1530h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504309-002B	MW-15_04132015	4/13/2015 1530h	Aqueous	Anions, E300.0
1504309-002B	MW-15_04132015	4/13/2015 1530h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504309-002C	MW-15_04132015	4/13/2015 1530h	Aqueous	Total Dissolved Solids, A2540C
1504309-002D	MW-15_04132015	4/13/2015 1530h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504309-002D	MW-15_04132015	4/13/2015 1530h	Aqueous	Ammonia, Aqueous
1504309-002E	MW-15_04132015	4/13/2015 1530h	Aqueous	Ion Balance
1504309-002E	MW-15_04132015	4/13/2015 1530h	Aqueous	ICP Metals, Dissolved
1504309-002E	MW-15_04132015	4/13/2015 1530h	Aqueous	ICPMS Metals, Dissolved
1504309-002E	MW-15_04132015	4/13/2015 1530h	Aqueous	Mercury, Drinking Water Dissolved
1504309-003A	MW-18_04152015	4/15/2015 1310h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504309-003B	MW-18_04152015	4/15/2015 1310h	Aqueous	Anions, E300.0
1504309-003B	MW-18_04152015	4/15/2015 1310h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504309-003C	MW-18_04152015	4/15/2015 1310h	Aqueous	Total Dissolved Solids, A2540C
1504309-003D	MW-18_04152015	4/15/2015 1310h	Aqueous	Ammonia, Aqueous
1504309-003D	MW-18_04152015	4/15/2015 1310h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504309-003E	MW-18_04152015	4/15/2015 1310h	Aqueous	Ion Balance
1504309-003E	MW-18_04152015	4/15/2015 1310h	Aqueous	ICP Metals, Dissolved
1504309-003E	MW-18_04152015	4/15/2015 1310h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504309  
**Date Received:** 4/17/2015 950h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1504309-003E	MW-18_04152015	4/15/2015 1310h	Aqueous	Mercury, Drinking Water Dissolved
1504309-004A	MW-19_04142015	4/14/2015 1525h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504309-004B	MW-19_04142015	4/14/2015 1525h	Aqueous	Anions, E300.0
1504309-004B	MW-19_04142015	4/14/2015 1525h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504309-004C	MW-19_04142015	4/14/2015 1525h	Aqueous	Total Dissolved Solids, A2540C
1504309-004D	MW-19_04142015	4/14/2015 1525h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504309-004D	MW-19_04142015	4/14/2015 1525h	Aqueous	Ammonia, Aqueous
1504309-004E	MW-19_04142015	4/14/2015 1525h	Aqueous	ICP Metals, Dissolved
1504309-004E	MW-19_04142015	4/14/2015 1525h	Aqueous	ICPMS Metals, Dissolved
1504309-004E	MW-19_04142015	4/14/2015 1525h	Aqueous	Ion Balance
1504309-004E	MW-19_04142015	4/14/2015 1525h	Aqueous	Mercury, Drinking Water Dissolved
1504309-005A	MW-36_04162015	4/16/2015 800h	Aqueous	VOA by GC/MS Method 8260C/5030C
1504309-005B	MW-36_04162015	4/16/2015 800h	Aqueous	Anions, E300.0
1504309-005B	MW-36_04162015	4/16/2015 800h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504309-005C	MW-36_04162015	4/16/2015 800h	Aqueous	Total Dissolved Solids, A2540C
1504309-005D	MW-36_04162015	4/16/2015 800h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504309-005D	MW-36_04162015	4/16/2015 800h	Aqueous	Ammonia, Aqueous
1504309-005E	MW-36_04162015	4/16/2015 800h	Aqueous	Ion Balance
1504309-005E	MW-36_04162015	4/16/2015 800h	Aqueous	ICP Metals, Dissolved
1504309-005E	MW-36_04162015	4/16/2015 800h	Aqueous	ICPMS Metals, Dissolved
1504309-005E	MW-36_04162015	4/16/2015 800h	Aqueous	Mercury, Drinking Water Dissolved
1504309-006A	Trip Blank	4/13/2015	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504309

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 Salt Lake City, UT 84119

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

## Sample Receipt Information:

**Date of Receipt:** 4/17/2015  
**Dates of Collection:** 4/13-4/16/2015  
**Sample Condition:** See C-O-C  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1504309-001E	Calcium	MSD	High analyte concentration
1504309-001E	Potassium	MS/MSD	Sample matrix interference

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504309

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 4/17/2015  
**Dates of Collection:** 4/13-4/16/2015  
**Sample Condition:** See C-O-C  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** No target analytes were observed above reporting limits.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-36631	Date Analyzed:		04/27/2015 1118h										
Test Code:	Date Prepared:		200.7-DIS 04/20/2015 1032h										
Calcium	10.6	mg/L	E200.7	0.0401	1.00	10.00	0	106	85 - 115				
Magnesium	10.6	mg/L	E200.7	0.0294	1.00	10.00	0	106	85 - 115				
Potassium	10.3	mg/L	E200.7	0.247	1.00	10.00	0	103	85 - 115				
Sodium	11.0	mg/L	E200.7	0.0330	1.00	10.00	0	110	85 - 115				
Vanadium	0.205	mg/L	E200.7	0.00116	0.00500	0.2000	0	102	85 - 115				
<b>Lab Sample ID:</b> LCS-36632	Date Analyzed:		04/22/2015 1231h										
Test Code:	Date Prepared:		200.8-DIS 04/20/2015 1032h										
Arsenic	0.203	mg/L	E200.8	0.0000920	0.00200	0.2000	0	102	85 - 115				
Beryllium	0.197	mg/L	E200.8	0.0000288	0.00200	0.2000	0	98.7	85 - 115				
Cadmium	0.193	mg/L	E200.8	0.000193	0.000500	0.2000	0	96.7	85 - 115				
Chromium	0.192	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.1	85 - 115				
Cobalt	0.192	mg/L	E200.8	0.0000434	0.00400	0.2000	0	96.1	85 - 115				
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0	97.5	85 - 115				
Iron	0.961	mg/L	E200.8	0.0118	0.100	1.000	0	96.1	85 - 115				
Lead	0.188	mg/L	E200.8	0.000264	0.00200	0.2000	0	93.8	85 - 115				
Manganese	0.195	mg/L	E200.8	0.00153	0.00200	0.2000	0	97.7	85 - 115				
Molybdenum	0.197	mg/L	E200.8	0.000206	0.00200	0.2000	0	98.5	85 - 115				
Nickel	0.191	mg/L	E200.8	0.000754	0.00200	0.2000	0	95.4	85 - 115				
Selenium	0.198	mg/L	E200.8	0.0000634	0.00200	0.2000	0	99.2	85 - 115				
Silver	0.176	mg/L	E200.8	0.0000244	0.00200	0.2000	0	87.9	85 - 115				
Thallium	0.189	mg/L	E200.8	0.0000242	0.00200	0.2000	0	94.5	85 - 115				
Tin	0.983	mg/L	E200.8	0.000348	0.00200	1.000	0	98.3	85 - 115				
Uranium	0.193	mg/L	E200.8	0.0000112	0.00200	0.2000	0	96.6	85 - 115				
<b>Lab Sample ID:</b> LCS-36632	Date Analyzed:		04/30/2015 032h										
Test Code:	Date Prepared:		200.8-DIS 04/20/2015 1032h										
Zinc	1.06	mg/L	E200.8	0.00476	0.00500	1.000	0	106	85 - 115				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-36703	Date Analyzed:		04/24/2015 923h										
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared:		04/22/2015 1315h										
Mercury	0.00362	mg/L	E245.1	0.00000892	0.000150	0.003330	0	109	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-36631	Date Analyzed:	04/27/2015	1116h										
Test Code:	200,7-DIS	Date Prepared:	04/20/2015	1032h									
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
<b>Lab Sample ID:</b> MB-36632	Date Analyzed:	04/22/2015	1227h										
Test Code:	200,8-DIS	Date Prepared:	04/20/2015	1032h									
Arsenic	< 0.000200	mg/L	E200.8	0.00000920	0.000200								
Beryllium	< 0.000200	mg/L	E200.8	0.00000288	0.000200								
Cadmium	< 0.0000500	mg/L	E200.8	0.0000193	0.0000500								
Chromium	< 0.000200	mg/L	E200.8	0.000154	0.000200								
Cobalt	< 0.000400	mg/L	E200.8	0.00000434	0.000400								
Copper	< 0.000200	mg/L	E200.8	0.0000692	0.000200								
Iron	< 0.0100	mg/L	E200.8	0.00118	0.0100								
Lead	< 0.000200	mg/L	E200.8	0.0000264	0.000200								
Manganese	< 0.000200	mg/L	E200.8	0.000153	0.000200								
Molybdenum	< 0.000200	mg/L	E200.8	0.0000206	0.000200								
Nickel	< 0.000200	mg/L	E200.8	0.0000754	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.00000634	0.000200								
Silver	< 0.000200	mg/L	E200.8	0.00000244	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.00000242	0.000200								
Tin	< 0.000200	mg/L	E200.8	0.0000348	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
<b>Lab Sample ID:</b> MB-36632	Date Analyzed:	04/30/2015	018h										
Test Code:	200,8-DIS	Date Prepared:	04/20/2015	1032h									
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								



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QA Officer

## QC SUMMARY REPORT

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**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-36703	Date Analyzed:	04/24/2015	921h										
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared:	04/22/2015	1315h										
Mercury	< 0.000150	mg/L	E245.1	0.00000892	0.000150								



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**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504309-001EMS</b>													
Date Analyzed:		04/27/2015 1132h											
Test Code:		200.7-DIS											
Date Prepared:		04/20/2015 1032h											
Calcium	218	mg/L	E200.7	0.401	10.0	10.00	207	109	70 - 130				
Magnesium	80.1	mg/L	E200.7	0.294	10.0	10.00	71.5	86.5	70 - 130				
Sodium	186	mg/L	E200.7	0.330	10.0	10.00	178	81.1	70 - 130				
<b>Lab Sample ID: 1504309-001EMS</b>													
Date Analyzed:		04/27/2015 1253h											
Test Code:		200.7-DIS											
Date Prepared:		04/20/2015 1032h											
Potassium	21.5	mg/L	E200.7	0.247	1.00	10.00	14.6	69.0	70 - 130				
Vanadium	0.199	mg/L	E200.7	0.00116	0.00500	0.2000	0	99.6	70 - 130				
<b>Lab Sample ID: 1504309-001EMS</b>													
Date Analyzed:		04/22/2015 1244h											
Test Code:		200.8-DIS											
Date Prepared:		04/20/2015 1032h											
Arsenic	0.198	mg/L	E200.8	0.0000920	0.00200	0.2000	0	99.0	75 - 125				
Beryllium	0.181	mg/L	E200.8	0.0000288	0.00200	0.2000	0.0000049	90.6	75 - 125				
Cadmium	0.182	mg/L	E200.8	0.000193	0.000500	0.2000	0.0000461	91.0	75 - 125				
Chromium	0.184	mg/L	E200.8	0.00154	0.00200	0.2000	0	92.2	75 - 125				
Cobalt	0.182	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000903	91.0	75 - 125				
Copper	0.183	mg/L	E200.8	0.000692	0.00200	0.2000	0.000217	91.6	75 - 125				
Iron	1.03	mg/L	E200.8	0.0118	0.100	1.000	0.112	92.0	75 - 125				
Lead	0.177	mg/L	E200.8	0.000264	0.00200	0.2000	0	88.6	75 - 125				
Manganese	0.224	mg/L	E200.8	0.00153	0.00200	0.2000	0.0364	93.8	75 - 125				
Molybdenum	0.190	mg/L	E200.8	0.000206	0.00200	0.2000	0.00123	94.5	75 - 125				
Nickel	0.180	mg/L	E200.8	0.000754	0.00200	0.2000	0.000267	89.7	75 - 125				
Selenium	0.189	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000432	94.4	75 - 125				
Silver	0.166	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000171	82.8	75 - 125				
Thallium	0.177	mg/L	E200.8	0.0000242	0.00200	0.2000	0	88.3	75 - 125				
Tin	0.947	mg/L	E200.8	0.000348	0.00200	1.000	0	94.7	75 - 125				
Uranium	0.185	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000475	92.4	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504309-001EMS		Date Analyzed:	04/30/2015 039h										
Test Code:		200.8-DIS		Date Prepared:	04/20/2015 1032h								
Zinc	1.12	mg/L	E200.8	0.00476	0.00500	1.000	0.0117	111	75 - 125				
<b>Lab Sample ID:</b> 1504309-001EMS		Date Analyzed:	04/24/2015 932h										
Test Code:		HG-DW-DIS-245.1		Date Prepared:	04/22/2015 1315h								
Mercury	0.00349	mg/L	E245.1	0.00000892	0.000150	0.003330	0	105	85 - 115				

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504309-001EMSD</b>													
Date Analyzed:		04/27/2015 1134h											
Test Code:		200 7-DIS											
Date Prepared:		04/20/2015 1032h											
Calcium	209	mg/L	E200.7	0.401	10.0	10.00	207	25.8	70 - 130	218	3.88	20	2
Magnesium	80.9	mg/L	E200.7	0.294	10.0	10.00	71.5	94.2	70 - 130	80.1	0.967	20	
Sodium	191	mg/L	E200.7	0.330	10.0	10.00	178	130	70 - 130	186	2.57	20	
<b>Lab Sample ID: 1504309-001EMSD</b>													
Date Analyzed:		04/27/2015 1255h											
Test Code:		200 7-DIS											
Date Prepared:		04/20/2015 1032h											
Potassium	20.3	mg/L	E200.7	0.247	1.00	10.00	14.6	57.3	70 - 130	21.5	5.57	20	1
Vanadium	0.203	mg/L	E200.7	0.00116	0.00500	0.2000	0	101	70 - 130	0.199	1.64	20	
<b>Lab Sample ID: 1504309-001EMSD</b>													
Date Analyzed:		04/22/2015 1247h											
Test Code:		200 8-DIS											
Date Prepared:		04/20/2015 1032h											
Arsenic	0.198	mg/L	E200.8	0.0000920	0.00200	0.2000	0	98.9	75 - 125	0.198	0.152	20	
Beryllium	0.184	mg/L	E200.8	0.0000288	0.00200	0.2000	0.0000049	92.0	75 - 125	0.181	1.55	20	
Cadmium	0.185	mg/L	E200.8	0.000193	0.000500	0.2000	0.0000461	92.2	75 - 125	0.182	1.39	20	
Chromium	0.185	mg/L	E200.8	0.00154	0.00200	0.2000	0	92.7	75 - 125	0.184	0.567	20	
Cobalt	0.183	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000903	91.4	75 - 125	0.182	0.434	20	
Copper	0.183	mg/L	E200.8	0.000692	0.00200	0.2000	0.000217	91.5	75 - 125	0.183	0.131	20	
Iron	1.03	mg/L	E200.8	0.0118	0.100	1.000	0.112	92.0	75 - 125	1.03	0.0169	20	
Lead	0.177	mg/L	E200.8	0.000264	0.00200	0.2000	0	88.7	75 - 125	0.177	0.172	20	
Manganese	0.222	mg/L	E200.8	0.00153	0.00200	0.2000	0.0364	92.6	75 - 125	0.224	1.08	20	
Molybdenum	0.192	mg/L	E200.8	0.000206	0.00200	0.2000	0.00123	95.2	75 - 125	0.19	0.710	20	
Nickel	0.180	mg/L	E200.8	0.000754	0.00200	0.2000	0.000267	89.9	75 - 125	0.18	0.234	20	
Selenium	0.192	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000432	95.6	75 - 125	0.189	1.26	20	
Silver	0.166	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000171	83.0	75 - 125	0.166	0.229	20	
Thallium	0.178	mg/L	E200.8	0.0000242	0.00200	0.2000	0	88.8	75 - 125	0.177	0.572	20	
Tin	0.952	mg/L	E200.8	0.000348	0.00200	1.000	0	95.2	75 - 125	0.947	0.519	20	
Uranium	0.185	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000475	92.2	75 - 125	0.185	0.212	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504309-001EMSD		Date Analyzed:		04/30/2015 042h									
<b>Test Code:</b> 200.8-DIS		Date Prepared:		04/20/2015 1032h									
Zinc	1.02	mg/L	E200.8	0.00476	0.00500	1.000	0.0117	101	75 - 125	1.12	9.16	20	
<b>Lab Sample ID:</b> 1504309-001EMSD		Date Analyzed:		04/24/2015 948h									
<b>Test Code:</b> HG-DW-DIS-245.1		Date Prepared:		04/22/2015 1315h									
Mercury	0.00350	mg/L	E245.1	0.00000892	0.000150	0.003330	0	105	85 - 115	0.00349	0.429	20	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504309-001CDUP		Date Analyzed: 04/17/2015 1130h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,590	mg/L	SM2540C	12.3	20.0					1560	1.52	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-R77806													
Date Analyzed: 04/20/2015 1359h													
Test Code: 300.0-W													
Chloride	4.99	mg/L	E300.0	0.00751	0.100	5.000	0	99.9	90 - 110				
Fluoride	5.08	mg/L	E300.0	0.00681	0.100	5.000	0	102	90 - 110				
Sulfate	5.24	mg/L	E300.0	0.0211	0.750	5.000	0	105	90 - 110				
<b>Lab Sample ID:</b> LCS-R77760													
Date Analyzed: 04/20/2015 1014h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	51,600	mg/L	SM2320B	0.504	1.00	50,000	0	103	90 - 110				
<b>Lab Sample ID:</b> LCS-36690													
Date Analyzed: 04/22/2015 1459h													
Test Code: NH3-W-350.1													
Date Prepared: 04/22/2015 753h													
Ammonia (as N)	9.70	mg/L	E350.1	0.0226	0.0500	10.00	0	97.0	90 - 110				
<b>Lab Sample ID:</b> LCS-R77824													
Date Analyzed: 04/21/2015 1445h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.03	mg/L	E353.2	0.00833	0.0100	1.000	0	103	90 - 110				
<b>Lab Sample ID:</b> LCS-R77775													
Date Analyzed: 04/17/2015 1130h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	222	mg/L	SM2540C	6.13	10.0	205.0	0	108	80 - 120				



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**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB-R77806</b>													
Date Analyzed: 04/20/2015 1342h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID: MB-R77760</b>													
Date Analyzed: 04/20/2015 1014h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
<b>Lab Sample ID: MB-36690</b>													
Date Analyzed: 04/22/2015 1458h													
Test Code: NH3-W-350.1													
Date Prepared: 04/22/2015 753h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0226	0.0500								
<b>Lab Sample ID: MB-R77824</b>													
Date Analyzed: 04/21/2015 1443h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID: MB-R77775</b>													
Date Analyzed: 04/17/2015 1130h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504309-002BMS</b> Date Analyzed: 04/20/2015 1433h													
Test Code: 300.0-W													
Chloride	4,990	mg/L	E300.0	7.51	100	5,000	41.1	99.0	90 - 110				
Fluoride	5,010	mg/L	E300.0	6.81	100	5,000	0	100	90 - 110				
Sulfate	7,550	mg/L	E300.0	21.1	750	5,000	2490	101	90 - 110				
<b>Lab Sample ID: 1504309-001BMS</b> Date Analyzed: 04/20/2015 1631h													
Test Code: 300.0-W													
Sulfate	1,390	mg/L	E300.0	2.11	75.0	500.0	892	100	90 - 110				
<b>Lab Sample ID: 1504309-003BMS</b> Date Analyzed: 04/20/2015 2151h													
Test Code: 300.0-W													
Fluoride	5.12	mg/L	E300.0	0.00681	0.100	5.000	0.188	98.6	90 - 110				
<b>Lab Sample ID: 1504309-001BMS</b> Date Analyzed: 04/20/2015 1014h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	336	mg/L	SM2320B	0.504	1.00	100.0	235	102	80 - 120				
<b>Lab Sample ID: 1504309-005DMS</b> Date Analyzed: 04/22/2015 1540h													
Test Code: NH3-W-350.1      Date Prepared: 04/22/2015 753h													
Ammonia (as N)	10.1	mg/L	E350.1	0.0226	0.0500	10.00	0.0545	101	90 - 110				
<b>Lab Sample ID: 1504309-001DMS</b> Date Analyzed: 04/21/2015 1546h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.12	mg/L	E353.2	0.00833	0.0100	1.000	0.144	98.0	90 - 110				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504309-002BMSD</b> Date Analyzed: 04/20/2015 1450h													
Test Code: 300.0-W													
Chloride	5,030	mg/L	E300.0	7.51	100	5,000	41.1	99.8	90 - 110	4990	0.807	20	
Fluoride	5,080	mg/L	E300.0	6.81	100	5,000	0	102	90 - 110	5010	1.40	20	
Sulfate	7,590	mg/L	E300.0	21.1	750	5,000	2490	102	90 - 110	7550	0.468	20	
<b>Lab Sample ID: 1504309-001BMSD</b> Date Analyzed: 04/20/2015 1648h													
Test Code: 300.0-W													
Sulfate	1,390	mg/L	E300.0	2.11	75.0	500.0	892	100	90 - 110	1390	0.0174	20	
<b>Lab Sample ID: 1504309-003BMSD</b> Date Analyzed: 04/20/2015 2208h													
Test Code: 300.0-W													
Fluoride	5.11	mg/L	E300.0	0.00681	0.100	5.000	0.188	98.5	90 - 110	5.12	0.0851	20	
<b>Lab Sample ID: 1504309-001BMSD</b> Date Analyzed: 04/20/2015 1014h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	332	mg/L	SM2320B	0.504	1.00	100.0	235	98.0	80 - 120	336	1.05	10	
<b>Lab Sample ID: 1504309-005DMSD</b> Date Analyzed: 04/22/2015 1541h													
Test Code: NH3-W-350.1 Date Prepared: 04/22/2015 753h													
Ammonia (as N)	9.95	mg/L	E350.1	0.0226	0.0500	10.00	0.0545	99.0	90 - 110	10.1	1.75	10	
<b>Lab Sample ID: 1504309-001DMSD</b> Date Analyzed: 04/21/2015 1547h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.15	mg/L	E353.2	0.00833	0.0100	1.000	0.144	100	90 - 110	1.12	2.03	10	



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-1 042015A		<b>Date Analyzed:</b> 04/20/2015 738h											
<b>Test Code:</b> 8260-W-DEN100													
Benzene	20.8	µg/L	SW8260C	0.270	1.00	20.00	0	104	62 - 127				
Chloroform	20.7	µg/L	SW8260C	0.153	1.00	20.00	0	104	67 - 132				
Methylene chloride	21.2	µg/L	SW8260C	0.172	1.00	20.00	0	106	32 - 185				
Naphthalene	20.8	µg/L	SW8260C	0.587	1.00	20.00	0	104	28 - 136				
Tetrahydrofuran	18.5	µg/L	SW8260C	0.516	1.00	20.00	0	92.4	43 - 146				
Toluene	20.0	µg/L	SW8260C	0.183	1.00	20.00	0	100	64 - 129				
Xylenes, Total	60.1	µg/L	SW8260C	0.857	1.00	60.00	0	100	52 - 134				
Surr: 1,2-Dichloroethane-d4	52.2	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	55.9	µg/L	SW8260C			50.00		112	80 - 152				
Surr: Dibromofluoromethane	49.7	µg/L	SW8260C			50.00		99.3	67 - 128				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.8	81 - 135				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB VOC-1 042015A		Date Analyzed: 04/20/2015 817h											
Test Code: 8260-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260C	4.11	20.0								
Acetone	< 20.0	µg/L	SW8260C	1.70	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	51.5	µg/L	SW8260C			50.00		103	76 - 138				
Surr: 4-Bromofluorobenzene	64.8	µg/L	SW8260C			50.00		130	80 - 152				
Surr: Dibromofluoromethane	47.8	µg/L	SW8260C			50.00		95.5	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.7	81 - 135				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504309-001AMS</b>		Date Analyzed: 04/20/2015 915h											
Test Code: 8260-W-DEN100													
Benzene	20.2	µg/L	SW8260C	0.270	1.00	20.00	0	101	66 - 145				
Chloroform	20.0	µg/L	SW8260C	0.153	1.00	20.00	0	99.8	50 - 146				
Methylene chloride	17.3	µg/L	SW8260C	0.172	1.00	20.00	0	86.3	30 - 192				
Naphthalene	19.9	µg/L	SW8260C	0.587	1.00	20.00	0	99.6	41 - 131				
Tetrahydrofuran	18.9	µg/L	SW8260C	0.516	1.00	20.00	0	94.6	43 - 146				
Toluene	19.3	µg/L	SW8260C	0.183	1.00	20.00	0	96.7	18 - 192				
Xylenes, Total	55.6	µg/L	SW8260C	0.857	1.00	60.00	0	92.6	42 - 167				
Surr: 1,2-Dichloroethane-d4	48.3	µg/L	SW8260C			50.00		96.6	72 - 151				
Surr: 4-Bromofluorobenzene	57.2	µg/L	SW8260C			50.00		114	80 - 152				
Surr: Dibromofluoromethane	45.7	µg/L	SW8260C			50.00		91.3	80 - 124				
Surr: Toluene-d8	45.0	µg/L	SW8260C			50.00		90.0	77 - 129				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504309  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504309-001AMSD		Date Analyzed: 04/20/2015 934h											
Test Code: 8260-W-DEN100													
Benzene	19.6	µg/L	SW8260C	0.270	1.00	20.00	0	97.9	66 - 145	20.2	3.32	25	
Chloroform	19.2	µg/L	SW8260C	0.153	1.00	20.00	0	95.9	50 - 146	20	4.04	25	
Methylene chloride	15.8	µg/L	SW8260C	0.172	1.00	20.00	0	78.8	30 - 192	17.3	9.09	25	
Naphthalene	20.3	µg/L	SW8260C	0.587	1.00	20.00	0	101	41 - 131	19.9	1.74	25	
Tetrahydrofuran	19.0	µg/L	SW8260C	0.516	1.00	20.00	0	94.8	43 - 146	18.9	0.106	25	
Toluene	18.7	µg/L	SW8260C	0.183	1.00	20.00	0	93.4	18 - 192	19.3	3.42	25	
Xylenes, Total	53.8	µg/L	SW8260C	0.857	1.00	60.00	0	89.7	42 - 167	55.6	3.24	25	
Surr: 1,2-Dichloroethane-d4	48.9	µg/L	SW8260C			50.00		97.9	72 - 151				
Surr: 4-Bromofluorobenzene	58.2	µg/L	SW8260C			50.00		116	80 - 152				
Surr: Dibromofluoromethane	45.8	µg/L	SW8260C			50.00		91.7	80 - 124				
Surr: Toluene-d8	45.0	µg/L	SW8260C			50.00		90.0	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1504309** Page 1 of 4

**Client:** Energy Fuels Resources, Inc.

Due Date: 4/28/2015

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2015

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals were field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1504309-001A	MW-01_04152015	4/15/2015 1635h	4/17/2015 0950h	8260-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
1504309-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1504309-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1504309-001D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1504309-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1504309-002A	MW-15_04132015	4/13/2015 1530h	4/17/2015 0950h	8260-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				
1504309-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				



# WORK ORDER Summary

Work Order: **1504309** Page 3 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 4/28/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1504309-003E	MW-18_04152015	4/15/2015 1310h	4/17/2015 0950h	HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>	Aqueous	<input checked="" type="checkbox"/>	df-met
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met
				IONBALANCE		<input checked="" type="checkbox"/>	df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1504309-004A	MW-19_04142015	4/14/2015 1525h	4/17/2015 0950h	8260-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
1504309-004B				300.0-W		<input checked="" type="checkbox"/>	df - wc
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1504309-004C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds
				<i>1 SEL Analytes: TDS</i>			
1504309-004D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
1504309-004E				200.7-DIS		<input checked="" type="checkbox"/>	df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met
				200.8-DIS		<input checked="" type="checkbox"/>	df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met
				IONBALANCE		<input checked="" type="checkbox"/>	df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1504309-005A	MW-36_04162015	4/16/2015 0800h	4/17/2015 0950h	8260-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
1504309-005B				300.0-W		<input checked="" type="checkbox"/>	df - wc
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL		<input checked="" type="checkbox"/>	df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1504309-005C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds
				<i>1 SEL Analytes: TDS</i>			

# WORK ORDER Summary

Work Order: **1504309** Page 4 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 4/28/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage			
1504309-005D	MW-36_04162015	4/16/2015 0800h	4/17/2015 0950h	NH3-W-350.1	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1		
				<i>1 SEL Analytes: NH3N</i>						
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3			
1504309-005E				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3			
				<i>1 SEL Analytes: NO3NO2N</i>						
				200.7-DIS		<input checked="" type="checkbox"/>	df-met			
				<i>5 SEL Analytes: CA MG K NA V</i>						
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met			
				200.8-DIS		<input checked="" type="checkbox"/>	df-met			
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>						
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met			
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met			
				<i>1 SEL Analytes: HG</i>						
HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met							
IONBALANCE		<input checked="" type="checkbox"/>	df-met							
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>										
1504309-006A	Trip Blank	4/13/2015	4/17/2015 0950h	8260-W-DEN100	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3		
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>						







Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2015

Dear Garrin Palmer:

Lab Set ID: 1504455

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 4/24/2015 for the analyses presented in the following report.

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American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

web: [www.awal-labs.com](http://www.awal-labs.com)

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by:

**Jose G. Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou,  
email=jose@awal-labs.com,  
c=US  
Date: 2015.05.14 13:14:35  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504455  
**Date Received:** 4/24/2015 1030h

3440 South 700 West Salt Lake City, UT 84119	<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Date Collected</u>	<u>Matrix</u>	<u>Analysis</u>
	1504455-001B	MW-02_04212015	4/21/2015 1535h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1504455-001B	MW-02_04212015	4/21/2015 1535h	Aqueous	Anions, E300.0
	1504455-001C	MW-02_04212015	4/21/2015 1535h	Aqueous	Total Dissolved Solids, A2540C
Phone: (801) 263-8686	1504455-001D	MW-02_04212015	4/21/2015 1535h	Aqueous	Nitrite/Nitrate (as N), E353.2
Toll Free: (888) 263-8686	1504455-001D	MW-02_04212015	4/21/2015 1535h	Aqueous	Ammonia, Aqueous
Fax: (801) 263-8687	1504455-001E	MW-02_04212015	4/21/2015 1535h	Aqueous	Ion Balance
e-mail: awal@awal-labs.com	1504455-001E	MW-02_04212015	4/21/2015 1535h	Aqueous	ICP Metals, Dissolved
	1504455-001E	MW-02_04212015	4/21/2015 1535h	Aqueous	ICPMS Metals, Dissolved
web: www.awal-labs.com	1504455-001E	MW-02_04212015	4/21/2015 1535h	Aqueous	Mercury, Drinking Water Dissolved
	1504455-002B	MW-03_04232015	4/23/2015 830h	Aqueous	Anions, E300.0
	1504455-002B	MW-03_04232015	4/23/2015 830h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Kyle F. Gross Laboratory Director	1504455-002C	MW-03_04232015	4/23/2015 830h	Aqueous	Total Dissolved Solids, A2540C
	1504455-002D	MW-03_04232015	4/23/2015 830h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1504455-002D	MW-03_04232015	4/23/2015 830h	Aqueous	Ammonia, Aqueous
Jose Rocha QA Officer	1504455-002E	MW-03_04232015	4/23/2015 830h	Aqueous	Ion Balance
	1504455-002E	MW-03_04232015	4/23/2015 830h	Aqueous	ICP Metals, Dissolved
	1504455-002E	MW-03_04232015	4/23/2015 830h	Aqueous	ICPMS Metals, Dissolved
	1504455-002E	MW-03_04232015	4/23/2015 830h	Aqueous	Mercury, Drinking Water Dissolved
	1504455-003B	MW-03A_04232015	4/23/2015 715h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1504455-003B	MW-03A_04232015	4/23/2015 715h	Aqueous	Anions, E300.0
	1504455-003C	MW-03A_04232015	4/23/2015 715h	Aqueous	Total Dissolved Solids, A2540C
	1504455-003D	MW-03A_04232015	4/23/2015 715h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1504455-003D	MW-03A_04232015	4/23/2015 715h	Aqueous	Ammonia, Aqueous
	1504455-003E	MW-03A_04232015	4/23/2015 715h	Aqueous	Ion Balance
	1504455-003E	MW-03A_04232015	4/23/2015 715h	Aqueous	ICP Metals, Dissolved
	1504455-003E	MW-03A_04232015	4/23/2015 715h	Aqueous	ICPMS Metals, Dissolved
	1504455-003E	MW-03A_04232015	4/23/2015 715h	Aqueous	Mercury, Drinking Water Dissolved
	1504455-004B	MW-05_04212015	4/21/2015 1200h	Aqueous	Anions, E300.0
	1504455-004B	MW-05_04212015	4/21/2015 1200h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1504455-004C	MW-05_04212015	4/21/2015 1200h	Aqueous	Total Dissolved Solids, A2540C



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504455  
**Date Received:** 4/24/2015 1030h

**Contact:** Garrin Palmer

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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1504455-004D	MW-05_04212015	4/21/2015 1200h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504455-004D	MW-05_04212015	4/21/2015 1200h	Aqueous	Ammonia, Aqueous
1504455-004E	MW-05_04212015	4/21/2015 1200h	Aqueous	Ion Balance
1504455-004E	MW-05_04212015	4/21/2015 1200h	Aqueous	ICP Metals, Dissolved
1504455-004E	MW-05_04212015	4/21/2015 1200h	Aqueous	ICPMS Metals, Dissolved
1504455-004E	MW-05_04212015	4/21/2015 1200h	Aqueous	Mercury, Drinking Water Dissolved
1504455-005B	MW-12_04212015	4/21/2015 1550h	Aqueous	Anions, E300.0
1504455-005B	MW-12_04212015	4/21/2015 1550h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504455-005C	MW-12_04212015	4/21/2015 1550h	Aqueous	Total Dissolved Solids, A2540C
1504455-005D	MW-12_04212015	4/21/2015 1550h	Aqueous	Ammonia, Aqueous
1504455-005D	MW-12_04212015	4/21/2015 1550h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504455-005E	MW-12_04212015	4/21/2015 1550h	Aqueous	ICP Metals, Dissolved
1504455-005E	MW-12_04212015	4/21/2015 1550h	Aqueous	ICPMS Metals, Dissolved
1504455-005E	MW-12_04212015	4/21/2015 1550h	Aqueous	Mercury, Drinking Water Dissolved
1504455-005E	MW-12_04212015	4/21/2015 1550h	Aqueous	Ion Balance
1504455-006B	MW-17_04222015	4/22/2015 1205h	Aqueous	Anions, E300.0
1504455-006B	MW-17_04222015	4/22/2015 1205h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504455-006C	MW-17_04222015	4/22/2015 1205h	Aqueous	Total Dissolved Solids, A2540C
1504455-006D	MW-17_04222015	4/22/2015 1205h	Aqueous	Ammonia, Aqueous
1504455-006D	MW-17_04222015	4/22/2015 1205h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504455-006E	MW-17_04222015	4/22/2015 1205h	Aqueous	Mercury, Drinking Water Dissolved
1504455-006E	MW-17_04222015	4/22/2015 1205h	Aqueous	ICPMS Metals, Dissolved
1504455-006E	MW-17_04222015	4/22/2015 1205h	Aqueous	Ion Balance
1504455-006E	MW-17_04222015	4/22/2015 1205h	Aqueous	ICP Metals, Dissolved
1504455-007B	MW-22_04222015	4/22/2015 1150h	Aqueous	Anions, E300.0
1504455-007B	MW-22_04222015	4/22/2015 1150h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1504455-007C	MW-22_04222015	4/22/2015 1150h	Aqueous	Total Dissolved Solids, A2540C
1504455-007D	MW-22_04222015	4/22/2015 1150h	Aqueous	Nitrite/Nitrate (as N), E353.2
1504455-007D	MW-22_04222015	4/22/2015 1150h	Aqueous	Ammonia, Aqueous
1504455-007E	MW-22_04222015	4/22/2015 1150h	Aqueous	Ion Balance
1504455-007E	MW-22_04222015	4/22/2015 1150h	Aqueous	Mercury, Drinking Water Dissolved
1504455-007E	MW-22_04222015	4/22/2015 1150h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504455  
**Date Received:** 4/24/2015 1030h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis	
1504455-007E	MW-22_04222015	4/22/2015 1150h	Aqueous	ICP Metals, Dissolved	
3440 South 700 West Salt Lake City, UT 84119	1504455-008B	MW-27_04202015	4/20/2015 1520h	Aqueous	Anions, E300.0
	1504455-008B	MW-27_04202015	4/20/2015 1520h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1504455-008C	MW-27_04202015	4/20/2015 1520h	Aqueous	Total Dissolved Solids, A2540C
	1504455-008D	MW-27_04202015	4/20/2015 1520h	Aqueous	Nitrite/Nitrate (as N), E353.2
Phone: (801) 263-8686	1504455-008D	MW-27_04202015	4/20/2015 1520h	Aqueous	Ammonia, Aqueous
Toll Free: (888) 263-8686	1504455-008E	MW-27_04202015	4/20/2015 1520h	Aqueous	ICPMS Metals, Dissolved
Fax: (801) 263-8687	1504455-008E	MW-27_04202015	4/20/2015 1520h	Aqueous	Mercury, Drinking Water Dissolved
e-mail: awal@awal-labs.com	1504455-008E	MW-27_04202015	4/20/2015 1520h	Aqueous	ICP Metals, Dissolved
	1504455-008E	MW-27_04202015	4/20/2015 1520h	Aqueous	Ion Balance
web: www.awal-labs.com	1504455-009B	MW-28_04212015	4/21/2015 1135h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1504455-009B	MW-28_04212015	4/21/2015 1135h	Aqueous	Anions, E300.0
Kyle F. Gross Laboratory Director	1504455-009C	MW-28_04212015	4/21/2015 1135h	Aqueous	Total Dissolved Solids, A2540C
	1504455-009D	MW-28_04212015	4/21/2015 1135h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1504455-009D	MW-28_04212015	4/21/2015 1135h	Aqueous	Ammonia, Aqueous
Jose Rocha QA Officer	1504455-009E	MW-28_04212015	4/21/2015 1135h	Aqueous	Mercury, Drinking Water Dissolved
	1504455-009E	MW-28_04212015	4/21/2015 1135h	Aqueous	Ion Balance
	1504455-009E	MW-28_04212015	4/21/2015 1135h	Aqueous	ICP Metals, Dissolved
	1504455-009E	MW-28_04212015	4/21/2015 1135h	Aqueous	ICPMS Metals, Dissolved



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1504455

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

### Sample Receipt Information:

**Date of Receipt:** 4/24/2015  
**Dates of Collection:** 4/20-4/23/2015  
**Sample Condition:** See C-O-C  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1504455-001E	Calcium	MS/MSD	High analyte concentration
1504455-001E	Magnesium	MS	High analyte concentration
1504455-001E	Sodium	MS/MSD	High analyte concentration

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-36745													
Date Analyzed: 05/06/2015 1440h													
Test Code: 200.7-DIS													
Date Prepared: 04/24/2015 1234h													
Calcium	10.4	mg/L	E200.7	0.0401	1.00	10.00	0	104	85 - 115				
Magnesium	10.4	mg/L	E200.7	0.0294	1.00	10.00	0	104	85 - 115				
Potassium	10.4	mg/L	E200.7	0.247	1.00	10.00	0	104	85 - 115				
Sodium	10.1	mg/L	E200.7	0.0330	1.00	10.00	0	101	85 - 115				
Vanadium	0.197	mg/L	E200.7	0.00116	0.00500	0.2000	0	98.6	85 - 115				
<b>Lab Sample ID:</b> LCS-36746													
Date Analyzed: 05/05/2015 1852h													
Test Code: 200.8-DIS													
Date Prepared: 04/24/2015 1234h													
Arsenic	0.198	mg/L	E200.8	0.0000920	0.00200	0.2000	0	98.8	85 - 115				
Beryllium	0.208	mg/L	E200.8	0.0000288	0.00200	0.2000	0	104	85 - 115				
Cadmium	0.196	mg/L	E200.8	0.000193	0.000500	0.2000	0	97.8	85 - 115				
Chromium	0.195	mg/L	E200.8	0.00154	0.00200	0.2000	0	97.7	85 - 115				
Cobalt	0.197	mg/L	E200.8	0.0000434	0.00400	0.2000	0	98.3	85 - 115				
Copper	0.198	mg/L	E200.8	0.000692	0.00200	0.2000	0	98.9	85 - 115				
Iron	0.997	mg/L	E200.8	0.0118	0.100	1.000	0	99.7	85 - 115				
Lead	0.197	mg/L	E200.8	0.000264	0.00200	0.2000	0	98.6	85 - 115				
Molybdenum	0.198	mg/L	E200.8	0.000206	0.00200	0.2000	0	99.2	85 - 115				
Nickel	0.193	mg/L	E200.8	0.000754	0.00200	0.2000	0	96.6	85 - 115				
Selenium	0.194	mg/L	E200.8	0.0000634	0.00200	0.2000	0	97.0	85 - 115				
Silver	0.187	mg/L	E200.8	0.0000244	0.00200	0.2000	0	93.5	85 - 115				
Thallium	0.190	mg/L	E200.8	0.0000242	0.00200	0.2000	0	95.0	85 - 115				
Tin	0.991	mg/L	E200.8	0.000348	0.00200	1.000	0	99.1	85 - 115				
Uranium	0.201	mg/L	E200.8	0.0000112	0.00200	0.2000	0	100	85 - 115				
<b>Lab Sample ID:</b> LCS-36746													
Date Analyzed: 05/07/2015 912h													
Test Code: 200.8-DIS													
Date Prepared: 04/24/2015 1234h													
Manganese	0.210	mg/L	E200.8	0.00153	0.00200	0.2000	0	105	85 - 115				
Zinc	1.06	mg/L	E200.8	0.00476	0.00500	1.000	0	106	85 - 115				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-36898	Date Analyzed:		05/05/2015 1040h										
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared:		05/04/2015 1515h										
Mercury	0.00340	mg/L	E245.1	0.00000892	0.000150	0.003330	0	102	85 - 115				



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Jose Rocha  
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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-36745	Date Analyzed:	05/06/2015	1438h										
Test Code:	200.7-DIS	Date Prepared:	04/24/2015	1234h									
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
<b>Lab Sample ID:</b> MB-36746	Date Analyzed:	05/05/2015	1849h										
Test Code:	200.8-DIS	Date Prepared:	04/24/2015	1234h									
Arsenic	< 0.000200	mg/L	E200.8	0.00000920	0.000200								
Beryllium	< 0.000200	mg/L	E200.8	0.00000288	0.000200								
Cadmium	< 0.0000500	mg/L	E200.8	0.0000193	0.0000500								
Chromium	< 0.000200	mg/L	E200.8	0.000154	0.000200								
Cobalt	< 0.000400	mg/L	E200.8	0.00000434	0.000400								
Copper	< 0.000200	mg/L	E200.8	0.0000692	0.000200								
Iron	< 0.0100	mg/L	E200.8	0.00118	0.0100								
Lead	< 0.000200	mg/L	E200.8	0.0000264	0.000200								
Molybdenum	< 0.000200	mg/L	E200.8	0.0000206	0.000200								
Nickel	< 0.000200	mg/L	E200.8	0.0000754	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.00000634	0.000200								
Silver	< 0.000200	mg/L	E200.8	0.00000244	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.00000242	0.000200								
Tin	< 0.000200	mg/L	E200.8	0.0000348	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
<b>Lab Sample ID:</b> MB-36746	Date Analyzed:	05/07/2015	909h										
Test Code:	200.8-DIS	Date Prepared:	04/24/2015	1234h									
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-36898	Date Analyzed:	05/05/2015	1038h										
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared:	05/04/2015	1515h										
Mercury	< 0.000150	mg/L	E245.1	0.00000892	0.000150								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504455-001EMS</b>													
Date Analyzed:		05/08/2015 915h											
Test Code:		200.7-DIS											
Date Prepared:		04/24/2015 1234h											
Potassium	20.7	mg/L	E200.7	0.247	1.00	10.00	10.6	102	70 - 130				
<b>Lab Sample ID: 1504455-001EMS</b>													
Date Analyzed:		05/06/2015 1444h											
Test Code:		200.7-DIS											
Date Prepared:		04/24/2015 1234h											
Calcium	330	mg/L	E200.7	2.00	50.0	10.00	330	5.32	70 - 130				±
Magnesium	102	mg/L	E200.7	1.47	50.0	10.00	97.5	45.5	70 - 130				±
Sodium	509	mg/L	E200.7	1.65	50.0	10.00	524	-152	70 - 130				±
<b>Lab Sample ID: 1504455-001EMS</b>													
Date Analyzed:		05/07/2015 1501h											
Test Code:		200.7-DIS											
Date Prepared:		04/24/2015 1234h											
Vanadium	0.210	mg/L	E200.7	0.00116	0.00500	0.2000	0	105	70 - 130				
<b>Lab Sample ID: 1504455-001EMS</b>													
Date Analyzed:		05/05/2015 1905h											
Test Code:		200.8-DIS											
Date Prepared:		04/24/2015 1234h											
Arsenic	0.208	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000511	104	75 - 125				
Beryllium	0.193	mg/L	E200.8	0.0000288	0.00200	0.2000	0	96.4	75 - 125				
Cadmium	0.194	mg/L	E200.8	0.000193	0.000500	0.2000	0.0000734	96.8	75 - 125				
Chromium	0.197	mg/L	E200.8	0.00154	0.00200	0.2000	0	98.4	75 - 125				
Cobalt	0.197	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000159	98.5	75 - 125				
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0.000332	97.3	75 - 125				
Iron	0.989	mg/L	E200.8	0.0118	0.100	1.000	0.0013	98.8	75 - 125				
Lead	0.191	mg/L	E200.8	0.000264	0.00200	0.2000	0	95.6	75 - 125				
Molybdenum	0.206	mg/L	E200.8	0.000206	0.00200	0.2000	0.00114	102	75 - 125				
Nickel	0.196	mg/L	E200.8	0.000754	0.00200	0.2000	0.000693	97.7	75 - 125				
Selenium	0.201	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00837	96.5	75 - 125				
Silver	0.181	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000275	90.5	75 - 125				
Thallium	0.186	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000263	92.8	75 - 125				
Tin	1.03	mg/L	E200.8	0.000348	0.00200	1.000	0.0000454	103	75 - 125				
Uranium	0.210	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0107	99.5	75 - 125				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504455-001EMS</b>													
Date Analyzed:		05/07/2015 925h											
Test Code:		200.8-DIS											
Date Prepared:		04/24/2015 1234h											
Manganese	0.202	mg/L	E200.8	0.00153	0.00200	0.2000	0	101	75 - 125				
Zinc	1.03	mg/L	E200.8	0.00476	0.00500	1.000	0.0113	102	75 - 125				
<b>Lab Sample ID: 1504455-001EMS</b>													
Date Analyzed:		05/05/2015 1046h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		05/04/2015 1515h											
Mercury	0.00344	mg/L	E245.1	0.00000892	0.000150	0.003330	0	103	85 - 115				
<b>Lab Sample ID: 1505005-001EMS</b>													
Date Analyzed:		05/05/2015 1115h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		05/04/2015 1515h											
Mercury	0.00336	mg/L	E245.1	0.00000892	0.000150	0.003330	0	101	85 - 115				

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504455-001EMSD</b>													
Date Analyzed:		05/08/2015 917h											
Test Code:		200.7-DIS											
Date Prepared:		04/24/2015 1234h											
Potassium	20.5	mg/L	E200.7	0.247	1.00	10.00	10.6	99.1	70 - 130	20.7	1.16	20	
<b>Lab Sample ID: 1504455-001EMSD</b>													
Date Analyzed:		05/06/2015 1446h											
Test Code:		200.7-DIS											
Date Prepared:		04/24/2015 1234h											
Calcium	333	mg/L	E200.7	2.00	50.0	10.00	330	38.3	70 - 130	330	0.993	20	■
Magnesium	105	mg/L	E200.7	1.47	50.0	10.00	97.5	71.2	70 - 130	102	2.49	20	
Sodium	513	mg/L	E200.7	1.65	50.0	10.00	524	-118	70 - 130	509	0.674	20	■
<b>Lab Sample ID: 1504455-001EMSD</b>													
Date Analyzed:		05/07/2015 1503h											
Test Code:		200.7-DIS											
Date Prepared:		04/24/2015 1234h											
Vanadium	0.208	mg/L	E200.7	0.00116	0.00500	0.2000	0	104	70 - 130	0.21	1.16	20	
<b>Lab Sample ID: 1504455-001EMSD</b>													
Date Analyzed:		05/05/2015 1909h											
Test Code:		200.8-DIS											
Date Prepared:		04/24/2015 1234h											
Arsenic	0.199	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000511	99.2	75 - 125	0.208	4.60	20	
Beryllium	0.189	mg/L	E200.8	0.0000288	0.00200	0.2000	0	94.7	75 - 125	0.193	1.74	20	
Cadmium	0.190	mg/L	E200.8	0.000193	0.000500	0.2000	0.0000734	95.1	75 - 125	0.194	1.74	20	
Chromium	0.192	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.1	75 - 125	0.197	2.35	20	
Cobalt	0.192	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000159	96.2	75 - 125	0.197	2.41	20	
Copper	0.191	mg/L	E200.8	0.000692	0.00200	0.2000	0.000332	95.4	75 - 125	0.195	1.88	20	
Iron	0.961	mg/L	E200.8	0.0118	0.100	1.000	0.0013	96.0	75 - 125	0.989	2.91	20	
Lead	0.189	mg/L	E200.8	0.000264	0.00200	0.2000	0	94.3	75 - 125	0.191	1.43	20	
Molybdenum	0.202	mg/L	E200.8	0.000206	0.00200	0.2000	0.00114	101	75 - 125	0.206	1.71	20	
Nickel	0.191	mg/L	E200.8	0.000754	0.00200	0.2000	0.000693	95.0	75 - 125	0.196	2.79	20	
Selenium	0.195	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00837	93.5	75 - 125	0.201	3.07	20	
Silver	0.179	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000275	89.3	75 - 125	0.181	1.39	20	
Thallium	0.183	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000263	91.3	75 - 125	0.186	1.63	20	
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0.0000454	101	75 - 125	1.03	1.92	20	
Uranium	0.206	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0107	97.5	75 - 125	0.21	1.93	20	



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1504455

**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504455-001EMSD	Date Analyzed:	05/07/2015	928h										
Test Code:	200.8-DIS	Date Prepared:	04/24/2015	1234h									
Manganese	0.200	mg/L	E200.8	0.00153	0.00200	0.2000	0	100	75 - 125	0.202	0.925	20	
Zinc	1.03	mg/L	E200.8	0.00476	0.00500	1.000	0.0113	102	75 - 125	1.03	0.0737	20	
<b>Lab Sample ID:</b> 1504455-001EMSD	Date Analyzed:	05/05/2015	1048h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	05/04/2015	1515h									
Mercury	0.00342	mg/L	E245.1	0.00000892	0.000150	0.003330	0	103	85 - 115	0.00344	0.631	20	
<b>Lab Sample ID:</b> 1505005-001EMSD	Date Analyzed:	05/05/2015	1117h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	05/04/2015	1515h									
Mercury	0.00340	mg/L	E245.1	0.00000892	0.000150	0.003330	0	102	85 - 115	0.00336	1.18	20	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504455-001CDUP		Date Analyzed: 04/27/2015 1410h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	3,080	mg/L	SM2540C	12.3	20.0					2940	4.64	5	



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1504455

**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer

**Dept:** WC

**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-R78094      Date Analyzed: 04/27/2015 1223h													
Test Code: 300.0-W													
Sulfate	5.12	mg/L	E300.0	0.0211	0.750	5.000	0	102	90 - 110				
<b>Lab Sample ID:</b> LCS-R78095      Date Analyzed: 04/28/2015 956h													
Test Code: 300.0-W													
Chloride	5.18	mg/L	E300.0	0.00751	0.100	5.000	0	104	90 - 110				
Fluoride	4.85	mg/L	E300.0	0.00681	0.100	5.000	0	97.0	90 - 110				
Sulfate	5.32	mg/L	E300.0	0.0211	0.750	5.000	0	106	90 - 110				
<b>Lab Sample ID:</b> LCS-R78025      Date Analyzed: 04/27/2015 1100h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO <sub>3</sub> )	49,900	mg/L	SM2320B	0.504	1.00	50,000	0	99.8	90 - 110				
<b>Lab Sample ID:</b> LCS-36780      Date Analyzed: 04/28/2015 1616h													
Test Code: NH3-W-350.1      Date Prepared: 04/28/2015 1230h													
Ammonia (as N)	9.65	mg/L	E350.1	0.0226	0.0500	10.00	0	96.5	90 - 110				
<b>Lab Sample ID:</b> LCS-R78422      Date Analyzed: 05/07/2015 1355h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.913	mg/L	E353.2	0.00833	0.0100	1.000	0	91.3	90 - 110				
<b>Lab Sample ID:</b> LCS-R78076      Date Analyzed: 04/27/2015 1410h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	214	mg/L	SM2540C	6.13	10.0	205.0	0	104	80 - 120				



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB-R78094</b> Date Analyzed: 04/27/2015 1206h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID: MB-R78095</b> Date Analyzed: 04/28/2015 939h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID: MB-R78025</b> Date Analyzed: 04/27/2015 1100h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
<b>Lab Sample ID: MB-36780</b> Date Analyzed: 04/28/2015 1615h													
Test Code: NH3-W-350.1      Date Prepared: 04/28/2015 1230h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0226	0.0500								
<b>Lab Sample ID: MB-R78422</b> Date Analyzed: 05/07/2015 1353h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID: MB-R78076</b> Date Analyzed: 04/27/2015 1410h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504455-003BMS</b> Date Analyzed: 04/27/2015 1330h													
Test Code: 300.0-W													
Sulfate	8,890	mg/L	E300.0	21.1	750	5,000	3720	103	90 - 110				
<b>Lab Sample ID: 1504455-007BMS</b> Date Analyzed: 04/28/2015 1748h													
Test Code: 300.0-W													
Chloride	107	mg/L	E300.0	0.0751	1.00	50.00	59.3	95.9	90 - 110				
Fluoride	60.4	mg/L	E300.0	0.0681	1.00	50.00	13.9	93.0	90 - 110				
<b>Lab Sample ID: 1504455-001BMS</b> Date Analyzed: 04/27/2015 1100h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	396	mg/L	SM2320B	0.504	1.00	100.0	296	99.7	80 - 120				
<b>Lab Sample ID: 1504455-001DMS</b> Date Analyzed: 04/28/2015 1626h													
Test Code: NH3-W-350.1 Date Prepared: 04/28/2015 1230h													
Ammonia (as N)	10.4	mg/L	E350.1	0.0226	0.0500	10.00	0.0432	104	90 - 110				
<b>Lab Sample ID: 1504455-001DMS</b> Date Analyzed: 05/07/2015 1357h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00833	0.0100	1.000	0.0655	94.3	90 - 110				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1504455  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1504455-003BMSD</b> Date Analyzed: 04/27/2015 1347h													
Test Code: 300.0-W													
Sulfate	9,080	mg/L	E300.0	21.1	750	5,000	3720	107	90 - 110	8890	2.11	20	
<b>Lab Sample ID: 1504455-007BMSD</b> Date Analyzed: 04/28/2015 1805h													
Test Code: 300.0-W													
Chloride	108	mg/L	E300.0	0.0751	1.00	50.00	59.3	98.1	90 - 110	107	1.02	20	
Fluoride	61.0	mg/L	E300.0	0.0681	1.00	50.00	13.9	94.2	90 - 110	60.4	0.959	20	
<b>Lab Sample ID: 1504455-001BMSD</b> Date Analyzed: 04/27/2015 1100h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	394	mg/L	SM2320B	0.504	1.00	100.0	296	98.0	80 - 120	396	0.431	10	
<b>Lab Sample ID: 1504455-001DMSD</b> Date Analyzed: 04/28/2015 1627h													
Test Code: NH3-W-350.1 Date Prepared: 04/28/2015 1230h													
Ammonia (as N)	10.3	mg/L	E350.1	0.0226	0.0500	10.00	0.0432	102	90 - 110	10.4	1.54	10	
<b>Lab Sample ID: 1504455-001DMSD</b> Date Analyzed: 05/07/2015 1359h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00833	0.0100	1.000	0.0655	97.0	90 - 110	1.01	2.64	10	

# American West Analytical Laboratories

REVISED: 4-28-15

Cancelled all VOC's per Kathy. EH

UL  
Denison

## WORK ORDER Summary

Work Order: **1504455** Page 1 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 5/8/2015

Client ID: DEN100

Contact: Garrin Palmer

Project: 2nd Quarter Groundwater 2015

QC Level: III

WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; 4-27-15 cancelled all VOC's, per Kathy.; )

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1504455-001A	MW-02_04212015	4/21/2015 1535h	4/24/2015 1030h		Aqueous	VOCFridge	3
1504455-001B				300.0-W		df - wc	1
				3 SEL Analytes: CL F SO4			
				ALK-W-2320B-LL		df - wc	
				2 SEL Analytes: ALKB ALKC			
1504455-001C				TDS-W-2540C		ww - tds	
				1 SEL Analytes: TDS			
1504455-001D				NH3-W-350.1		df - no2/no3 & nh3	
				1 SEL Analytes: NH3N			
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N			
1504455-001E				200.7-DIS		df-met	
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
				1 SEL Analytes: HG			
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
1504455-002A	MW-03_04232015	4/23/2015 0830h	4/24/2015 1030h		Aqueous	VOCFridge	3
1504455-002B				300.0-W		df - wc	1
				3 SEL Analytes: CL F SO4			
				ALK-W-2320B-LL		df - wc	
				2 SEL Analytes: ALKB ALKC			
1504455-002C				TDS-W-2540C		ww - tds	
				1 SEL Analytes: TDS			

# WORK ORDER Summary

Work Order: **1504455** Page 2 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 5/8/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1504455-002D	MW-03_04232015	4/23/2015 0830h	4/24/2015 1030h	NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>	Aqueous	df - no2/no3 & nh3	1
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1504455-002E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1504455-003A	MW-03A_04232015	4/23/2015 0715h	4/24/2015 1030h		Aqueous	VOCFridge	3
1504455-003B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
1504455-003C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - tds	
1504455-003D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1504455-003E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	

# WORK ORDER Summary

Work Order: **1504455** Page 3 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 5/8/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1504455-003E	MW-03A_04232015	4/23/2015 0715h	4/24/2015 1030h	<b>IONBALANCE</b> <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>	Aqueous	df-met	1
1504455-004A	MW-05_04212015	4/21/2015 1200h	4/24/2015 1030h	<b>300.0-W</b> <i>3 SEL Analytes: CL F SO4</i>	Aqueous	VOCFridge	3
1504455-004B				<b>ALK-W-2320B-LL</b> <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	1
1504455-004C				<b>TDS-W-2540C</b> <i>1 SEL Analytes: TDS</i>		ww - tds	
1504455-004D				<b>NH3-W-350.1</b> <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				<b>NH3-W-PR</b>		df - no2/no3 & nh3	
				<b>NO2/NO3-W-353.2</b> <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1504455-004E				<b>200.7-DIS</b> <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				<b>200.7-DIS-PR</b>		df-met	
				<b>200.8-DIS</b> <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				<b>200.8-DIS-PR</b>		df-met	
				<b>HG-DW-DIS-245.1</b> <i>1 SEL Analytes: HG</i>		df-met	
				<b>HG-DW-DIS-PR</b>		df-met	
				<b>IONBALANCE</b> <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1504455-005A	MW-12_04212015	4/21/2015 1550h	4/24/2015 1030h		Aqueous	VOCFridge	3
1504455-005B				<b>300.0-W</b> <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				<b>ALK-W-2320B-LL</b> <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
1504455-005C				<b>TDS-W-2540C</b> <i>1 SEL Analytes: TDS</i>		ww - tds	
1504455-005D				<b>NH3-W-350.1</b> <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				<b>NH3-W-PR</b>		df - no2/no3 & nh3	
				<b>NO2/NO3-W-353.2</b> <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	

# WORK ORDER Summary

Work Order: **1504455** Page 4 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 5/8/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1504455-005E	MW-12_04212015	4/21/2015 1550h	4/24/2015 1030h	200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>	Aqueous	df-met	1
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1504455-006A	MW-17_04222015	4/22/2015 1205h	4/24/2015 1030h		Aqueous	VOCFridge	3
1504455-006B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
1504455-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - ids	
1504455-006D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1504455-006E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1504455-007A	MW-22_04222015	4/22/2015 1150h	4/24/2015 1030h		Aqueous	VOCFridge	3
1504455-007B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1

# WORK ORDER Summary

Work Order: **1504455** Page 5 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 5/8/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
1504455-007B	MW-22_04222015	4/22/2015 1150h	4/24/2015 1030h	ALK-W-2320B-LL	Aqueous		df - wc		
						2 SEL Analytes: ALKB ALKC			
1504455-007C				TDS-W-2540C				ww - tds	
						1 SEL Analytes: TDS			
1504455-007D				NH3-W-350.1				df - no2/no3 & nh3	
						1 SEL Analytes: NH3N			
				NH3-W-PR				df - no2/no3 & nh3	
				NO2/NO3-W-353.2				df - no2/no3 & nh3	
							1 SEL Analytes: NO3NO2N		
1504455-007E				200.7-DIS				df-met	
							5 SEL Analytes: CA MG K NA V		
				200.7-DIS-PR				df-met	
	200.8-DIS				df-met				
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN					
	200.8-DIS-PR				df-met				
	HG-DW-DIS-245.1				df-met				
				1 SEL Analytes: HG					
	HG-DW-DIS-PR				df-met				
	IONBALANCE				df-met				
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc					
1504455-008A	MW-27_04202015	4/20/2015 1520h	4/24/2015 1030h		Aqueous		VOCFridge		
1504455-008B				300.0-W			df - wc		
							3 SEL Analytes: CL F SO4		
				ALK-W-2320B-LL				df - wc	
							2 SEL Analytes: ALKB ALKC		
1504455-008C				TDS-W-2540C				ww - tds	
							1 SEL Analytes: TDS		
1504455-008D				NH3-W-350.1				df - no2/no3 & nh3	
							1 SEL Analytes: NH3N		
				NH3-W-PR				df - no2/no3 & nh3	
				NO2/NO3-W-353.2				df - no2/no3 & nh3	
							1 SEL Analytes: NO3NO2N		
1504455-008E				200.7-DIS				df-met	
				5 SEL Analytes: CA MG K NA V					
	200.7-DIS-PR				df-met				
	200.8-DIS				df-met				
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN					

# WORK ORDER Summary

Work Order: **1504455** Page 6 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 5/8/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1504455-008E	MW-27_04202015	4/20/2015 1520h	4/24/2015 1030h	200.8-DIS-PR	Aqueous	df-met	1
				HG-DW-DIS-245.1		df-met	
				1 SEL Analytes: HG			
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
1504455-009A	MW-28_04212015	4/21/2015 1135h	4/24/2015 1030h		Aqueous	VOCFridge	3
1504455-009B				300.0-W		df - wc	1
				3 SEL Analytes: CL F SO4			
				ALK-W-2320B-LL		df - wc	
				2 SEL Analytes: ALKB ALKC			
1504455-009C				TDS-W-2540C		ww - tds	
				1 SEL Analytes: TDS			
1504455-009D				NH3-W-350.1		df - no2/no3 & nh3	
				1 SEL Analytes: NH3N			
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N			
1504455-009E				200.7-DIS		df-met	
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
				1 SEL Analytes: HG			
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
1504455-010A	Trip Blank	4/20/2015	4/24/2015 1030h		Aqueous	VOCFridge	3



# AMERICAN WEST ANALYTICAL LABORATORIES

463 W. 3600 S. SALT LAKE CITY, UT 84115  
 PHONE # (801) 263-8686 TOLL FREE # (888) 263-8686  
 FAX # (801) 263-8687 EMAIL AWAL@AWAL-LABS.COM

WWW.AWAL-LABS.COM

## CHAIN OF CUSTODY

1504455

ALL ANALYSIS WILL BE CONDUCTED USING NELAP ACCREDITED METHODS AND ALL DATA WILL BE REPORTED USING AWAL STANDARD ANALYTE LISTS AND REPORTING LIMITS (PQL) UNLESS SPECIFICALLY REQUESTED OTHERWISE ON THIS CHAIN OF CUSTODY AND/OR ATTACHED DOCUMENTATION.

AWAL LAB SAMPLE SET #  
 PAGE 1 OF 1

CLIENT: **Energy Fuels Resources, Inc.**  
 ADDRESS: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 CONTACT: **Garrin Palmer**  
 PHONE #: **(435) 678-2221** CELL #:  
 EMAIL: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**  
 PROJECT NAME: **2nd Quarter Groundwater 2015**  
 PROJECT #:  
 PO #:  
 SAMPLER NAME: **TANNER HOLLIDAY**

QC LEVEL:		TURN AROUND TIME:		UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.		DUE DATE:	
3		STANDARD					
# OF CONTAINERS SAMPLE MATRIX NO2/NO3 (353.2) NEG (4500C or 350.1) F, Cl, SO4 (4500 or 300.0) TDS (2540C) Carb/Bicarb (2320B) Dissolved Metals (200.7/200.8/245.1) As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Ti, Sn, U, V, Zn, Na, K, Mg, Ca Ion Balance VOCs (8260C)							

INCLUDE EDD:  
 LOCUS UPLOAD  
 EXCEL  
 FIELD FILTERED FOR:  
 Dissolved Metals

FOR COMPLIANCE WITH:  
 NELAP  
 RCRA  
 CWA  
 SDWA  
 ELAP / A2LA  
 NLLAP  
 NON-COMPLIANCE  
 OTHER:

KNOWN HAZARDS & SAMPLE COMMENTS

LABORATORY USE ONLY

SAMPLES WERE: **Field**

- SHIPPED OR HAND DELIVERED
- AMBIENT OR CHILLED
- TEMPERATURE **715** °C
- RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)
- PROPERLY PRESERVED
- RECEIVED WITHIN HOLDING TIMES

COC TAPE WAS:

- PRESENT ON OUTER PACKAGE
- UNBROKEN ON OUTER PACKAGE
- PRESENT ON SAMPLE
- UNBROKEN ON SAMPLE

DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD?

	SAMPLE ID:	DATE SAMPLED	TIME SAMPLED	# OF CONTAINERS	W	X	X	X	X	X	X	X	X	X	X	X	X
1	MW-02_04212015	4/21/2015	1535	7	W	X	X	X	X	X	X	X	X	X	X	X	X
2	MW-03_04232015	4/23/2015	830	7	W	X	X	X	X	X	X	X	X	X	X	X	X
3	MW-03A_04232015	4/23/2015	715	7	W	X	X	X	X	X	X	X	X	X	X	X	X
4	MW-05_04212015	4/21/2015	1200	7	W	X	X	X	X	X	X	X	X	X	X	X	X
5	MW-12_04212015	4/21/2015	1550	7	W	X	X	X	X	X	X	X	X	X	X	X	X
6	MW-17_04222015	4/22/2015	1205	7	W	X	X	X	X	X	X	X	X	X	X	X	X
7	MW-22_04222015	4/22/2015	1150	7	W	X	X	X	X	X	X	X	X	X	X	X	X
8	MW-27_04202015	4/20/2015	1520	7	W	X	X	X	X	X	X	X	X	X	X	X	X
9	MW-28_04212015	4/21/2015	1135	7	W	X	X	X	X	X	X	X	X	X	X	X	X
10	TRIP BLANK	4/20/2015		3	W												X
11	TEMP BLANK	4/23/2015		1	W												
12																	

RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE: <b>4/23/2015</b> TIME: <b>1100</b>	RECEIVED BY: <i>Elana Hefner</i> SIGNATURE	DATE: <b>4/24/15</b> TIME: <b>1070</b>
RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE: TIME: 	RECEIVED BY: SIGNATURE	DATE: TIME: 
RELINQUISHED BY: SIGNATURE	DATE: TIME: 	RECEIVED BY: SIGNATURE	DATE: TIME: 
RELINQUISHED BY: SIGNATURE	DATE: TIME: 	RECEIVED BY: SIGNATURE	DATE: TIME: 

SPECIAL INSTRUCTIONS:

Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

**4/27/15 cancelled all voc's per Kathy J**

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9								
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes																
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO <sub>3</sub>	yes																
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes																
O & G	pH <2 HCL																	
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
Sulfide	pH > 9NaOH, Zn Acetate																	
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																	

- Procedure:
- 1) Pour a small amount of sample in the sample lid
  - 2) Pour sample from Lid gently over wide range pH paper
  - 3) **Do Not** dip the pH paper in the sample bottle or lid
  - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
  - 5) Flag COC, notify client if requested
  - 6) Place client conversation on COC
  - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- \* The sample required additional preservative upon receipt.
- + The sample was received unpreserved
- ▲ The Sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix
- The sample pH was unadjustable to a pH > \_\_\_\_ due to the sample matrix interference



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2015

Dear Garrin Palmer:

Lab Set ID: 1505005

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 5/1/2015 for the analyses presented in the following report.

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

web: [www.awal-labs.com](http://www.awal-labs.com)

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by:

Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou,  
email=jose@awal-labs.com,  
c=US  
Date: 2015.05.14 13:45:38  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1505005  
**Date Received:** 5/1/2015 1005h

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1505005-001A	MW-23_04302015	4/30/2015 730h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-001B	MW-23_04302015	4/30/2015 730h	Aqueous	Anions, E300.0
1505005-001B	MW-23_04302015	4/30/2015 730h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1505005-001C	MW-23_04302015	4/30/2015 730h	Aqueous	Total Dissolved Solids, A2540C
1505005-001D	MW-23_04302015	4/30/2015 730h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505005-001D	MW-23_04302015	4/30/2015 730h	Aqueous	Ammonia, Aqueous
1505005-001E	MW-23_04302015	4/30/2015 730h	Aqueous	Mercury, Drinking Water Dissolved
1505005-001E	MW-23_04302015	4/30/2015 730h	Aqueous	Ion Balance
1505005-001E	MW-23_04302015	4/30/2015 730h	Aqueous	ICP Metals, Dissolved
1505005-001E	MW-23_04302015	4/30/2015 730h	Aqueous	ICPMS Metals, Dissolved
1505005-002A	MW-29_04302015	4/30/2015 840h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-002B	MW-29_04302015	4/30/2015 840h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1505005-002B	MW-29_04302015	4/30/2015 840h	Aqueous	Anions, E300.0
1505005-002C	MW-29_04302015	4/30/2015 840h	Aqueous	Total Dissolved Solids, A2540C
1505005-002D	MW-29_04302015	4/30/2015 840h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505005-002D	MW-29_04302015	4/30/2015 840h	Aqueous	Ammonia, Aqueous
1505005-002E	MW-29_04302015	4/30/2015 840h	Aqueous	ICPMS Metals, Dissolved
1505005-002E	MW-29_04302015	4/30/2015 840h	Aqueous	Ion Balance
1505005-002E	MW-29_04302015	4/30/2015 840h	Aqueous	ICP Metals, Dissolved
1505005-002E	MW-29_04302015	4/30/2015 840h	Aqueous	Mercury, Drinking Water Dissolved
1505005-003A	MW-70_04302015	4/30/2015 840h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-003B	MW-70_04302015	4/30/2015 840h	Aqueous	Anions, E300.0
1505005-003B	MW-70_04302015	4/30/2015 840h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1505005-003C	MW-70_04302015	4/30/2015 840h	Aqueous	Total Dissolved Solids, A2540C
1505005-003D	MW-70_04302015	4/30/2015 840h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505005-003D	MW-70_04302015	4/30/2015 840h	Aqueous	Ammonia, Aqueous
1505005-003E	MW-70_04302015	4/30/2015 840h	Aqueous	Mercury, Drinking Water Dissolved
1505005-003E	MW-70_04302015	4/30/2015 840h	Aqueous	Ion Balance
1505005-003E	MW-70_04302015	4/30/2015 840h	Aqueous	ICP Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1505005  
**Date Received:** 5/1/2015 1005h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1505005-003E	MW-70_04302015	4/30/2015 840h	Aqueous	ICPMS Metals, Dissolved
1505005-004A	MW-02_04282015	4/28/2015 1150h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-005A	MW-03_04292015	4/29/2015 1340h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-006A	MW-03A_04292015	4/29/2015 1455h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-007A	MW-05_04272015	4/27/2015 1550h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-008A	MW-12_04282015	4/28/2015 900h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-009A	MW-17_04292015	4/29/2015 1100h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-010A	MW-22_04292015	4/29/2015 1230h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-011A	MW-27_04282015	4/28/2015 1615h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-012A	MW-28_04272015	4/27/2015 1545h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505005-013A	Trip Blank	4/27/2015	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1505005

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Jose Rocha  
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### Sample Receipt Information:

**Date of Receipt:** 5/1/2015  
**Dates of Collection:** 4/27-4/30/2015  
**Sample Condition:** See C-O-C  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1505005-001E	Calcium	MSD	High analyte concentration
1505005-001E	Magnesium	MS	High analyte concentration
1505005-001E	Sodium	MS/MSD	High analyte concentration
1505005-001D	Ammonia	MSD	Sample matrix interference

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1505005

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### Sample Receipt Information:

**Date of Receipt:** 5/1/2015  
**Dates of Collection:** 4/27-4/30/2015  
**Sample Condition:** See C-O-C  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** Multiple target analytes were observed above reporting limits.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.

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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: LCS-36865</b>													
Date Analyzed:		05/12/2015 1726h											
Test Code:		200.7-DIS											
Date Prepared:		05/01/2015 1229h											
Potassium	9.72	mg/L	E200.7	0.247	1.00	10.00	0	97.2	85 - 115				
Vanadium	0.189	mg/L	E200.7	0.00116	0.00500	0.2000	0	94.5	85 - 115				
<b>Lab Sample ID: LCS-36865</b>													
Date Analyzed:		05/13/2015 1243h											
Test Code:		200.7-DIS											
Date Prepared:		05/01/2015 1229h											
Calcium	10.3	mg/L	E200.7	0.0401	1.00	10.00	0	103	85 - 115				
Magnesium	9.66	mg/L	E200.7	0.0294	1.00	10.00	0	96.6	85 - 115				
Sodium	10.5	mg/L	E200.7	0.0330	1.00	10.00	0	105	85 - 115				
<b>Lab Sample ID: LCS-36866</b>													
Date Analyzed:		05/12/2015 1512h											
Test Code:		200.8-DIS											
Date Prepared:		05/01/2015 1229h											
Arsenic	0.190	mg/L	E200.8	0.0000920	0.00200	0.2000	0	95.1	85 - 115				
Beryllium	0.214	mg/L	E200.8	0.0000288	0.00200	0.2000	0	107	85 - 115				
Cadmium	0.188	mg/L	E200.8	0.000193	0.000500	0.2000	0	94.1	85 - 115				
Chromium	0.193	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.6	85 - 115				
Cobalt	0.192	mg/L	E200.8	0.0000434	0.00400	0.2000	0	95.8	85 - 115				
Copper	0.197	mg/L	E200.8	0.000692	0.00200	0.2000	0	98.7	85 - 115				
Iron	0.964	mg/L	E200.8	0.0118	0.100	1.000	0	96.4	85 - 115				
Lead	0.194	mg/L	E200.8	0.000264	0.00200	0.2000	0	97.2	85 - 115				
Manganese	0.191	mg/L	E200.8	0.00153	0.00200	0.2000	0	95.5	85 - 115				
Molybdenum	0.194	mg/L	E200.8	0.000206	0.00200	0.2000	0	96.9	85 - 115				
Nickel	0.190	mg/L	E200.8	0.000754	0.00200	0.2000	0	95.2	85 - 115				
Selenium	0.185	mg/L	E200.8	0.0000634	0.00200	0.2000	0	92.6	85 - 115				
Silver	0.180	mg/L	E200.8	0.0000244	0.00200	0.2000	0	89.8	85 - 115				
Thallium	0.189	mg/L	E200.8	0.0000242	0.00200	0.2000	0	94.6	85 - 115				
Tin	0.972	mg/L	E200.8	0.000348	0.00200	1.000	0	97.2	85 - 115				
Uranium	0.200	mg/L	E200.8	0.0000112	0.00200	0.2000	0	99.8	85 - 115				
Zinc	0.955	mg/L	E200.8	0.00476	0.00500	1.000	0	95.5	85 - 115				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-36898	Date Analyzed: 05/05/2015 1040h												
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared: 05/04/2015 1515h												
Mercury	0.00340	mg/L	E245.1	0.00000892	0.000150	0.003330	0	102	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-36865	Date Analyzed:		05/12/2015 1724h										
Test Code:	Date Prepared:		05/01/2015 1229h										
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
<b>Lab Sample ID:</b> MB-36865	Date Analyzed:		05/13/2015 1241h										
Test Code:	Date Prepared:		05/01/2015 1229h										
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
<b>Lab Sample ID:</b> MB-36866	Date Analyzed:		05/12/2015 1509h										
Test Code:	Date Prepared:		05/01/2015 1229h										
Copper	< 0.00200	mg/L	E200.8	0.000692	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000348	0.00200								
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								
<b>Lab Sample ID:</b> MB-36866	Date Analyzed:		05/12/2015 1703h										
Test Code:	Date Prepared:		05/01/2015 1229h										
Arsenic	< 0.000200	mg/L	E200.8	0.00000920	0.000200								
Beryllium	< 0.000200	mg/L	E200.8	0.00000288	0.000200								
Cadmium	< 0.0000500	mg/L	E200.8	0.0000193	0.0000500								
Chromium	< 0.000200	mg/L	E200.8	0.000154	0.000200								
Cobalt	< 0.000400	mg/L	E200.8	0.00000434	0.000400								
Iron	< 0.0100	mg/L	E200.8	0.00118	0.0100								
Lead	< 0.000200	mg/L	E200.8	0.0000264	0.000200								
Molybdenum	< 0.000200	mg/L	E200.8	0.0000206	0.000200								
Nickel	< 0.000200	mg/L	E200.8	0.0000754	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.00000634	0.000200								
Silver	< 0.000200	mg/L	E200.8	0.00000244	0.000200								



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-36866	Date Analyzed:	05/12/2015	1703h										
Test Code:	200.8-DIS	Date Prepared:	05/01/2015	1229h									
Thallium	< 0.000200	mg/L	E200.8	0.00000242	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
<b>Lab Sample ID:</b> MB-36898	Date Analyzed:	05/05/2015	1038h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	05/04/2015	1515h									
Mercury	< 0.000150	mg/L	E245.1	0.00000892	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505005-001EMS</b>													
Date Analyzed:		05/12/2015 1755h											
Test Code:		200.7-DIS											
Date Prepared:		05/01/2015 1229h											
Potassium	20.4	mg/L	E200.7	0.247	1.00	10.00	9.8	105	70 - 130				
Vanadium	0.189	mg/L	E200.7	0.00116	0.00500	0.2000	0	94.3	70 - 130				
<b>Lab Sample ID: 1505005-001EMS</b>													
Date Analyzed:		05/13/2015 1253h											
Test Code:		200.7-DIS											
Date Prepared:		05/01/2015 1229h											
Calcium	478	mg/L	E200.7	2.00	50.0	10.00	468	91.5	70 - 130				
Magnesium	163	mg/L	E200.7	1.47	50.0	10.00	156	68.2	70 - 130				#
Sodium	418	mg/L	E200.7	1.65	50.0	10.00	413	48.2	70 - 130				#
<b>Lab Sample ID: 1505005-001EMS</b>													
Date Analyzed:		05/12/2015 1601h											
Test Code:		200.8-DIS											
Date Prepared:		05/01/2015 1229h											
Arsenic	0.188	mg/L	E200.8	0.0000920	0.00200	0.2000	0.0000935	94.1	75 - 125				
Beryllium	0.191	mg/L	E200.8	0.0000288	0.00200	0.2000	0.00002	95.3	75 - 125				
Cadmium	0.173	mg/L	E200.8	0.000193	0.000500	0.2000	0.0000651	86.6	75 - 125				
Chromium	0.178	mg/L	E200.8	0.00154	0.00200	0.2000	0.000157	88.8	75 - 125				
Cobalt	0.175	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000227	87.7	75 - 125				
Copper	0.178	mg/L	E200.8	0.000692	0.00200	0.2000	0.000655	88.8	75 - 125				
Iron	0.883	mg/L	E200.8	0.0118	0.100	1.000	0.00143	88.1	75 - 125				
Lead	0.175	mg/L	E200.8	0.000264	0.00200	0.2000	0	87.6	75 - 125				
Manganese	0.186	mg/L	E200.8	0.00153	0.00200	0.2000	0.0104	87.8	75 - 125				
Molybdenum	0.189	mg/L	E200.8	0.000206	0.00200	0.2000	0.000646	94.4	75 - 125				
Nickel	0.177	mg/L	E200.8	0.000754	0.00200	0.2000	0.00112	87.8	75 - 125				
Selenium	0.177	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000677	88.1	75 - 125				
Silver	0.165	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000119	82.4	75 - 125				
Thallium	0.172	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000228	85.9	75 - 125				
Tin	0.937	mg/L	E200.8	0.000348	0.00200	1.000	0.000295	93.7	75 - 125				
Uranium	0.192	mg/L	E200.8	0.0000112	0.00200	0.2000	0.00912	91.5	75 - 125				
Zinc	0.910	mg/L	E200.8	0.00476	0.00500	1.000	0.00881	90.1	75 - 125				



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504455-001EMS	Date Analyzed:	05/05/2015	1046h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	05/04/2015	1515h										
Mercury	0.00344	mg/L	E245.1	0.00000892	0.000150	0.003330	0	103	85 - 115				
<b>Lab Sample ID:</b> 1505005-001EMS	Date Analyzed:	05/05/2015	1115h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	05/04/2015	1515h										
Mercury	0.00336	mg/L	E245.1	0.00000892	0.000150	0.003330	0	101	85 - 115				

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505005-001EMSD</b>													
Date Analyzed:		05/12/2015 1757h											
Test Code:		200.7-DIS											
Date Prepared:		05/01/2015 1229h											
Potassium	19.9	mg/L	E200.7	0.247	1.00	10.00	9.8	101	70 - 130	20.4	2.37	20	
Vanadium	0.185	mg/L	E200.7	0.00116	0.00500	0.2000	0	92.6	70 - 130	0.189	1.85	20	
<b>Lab Sample ID: 1505005-001EMSD</b>													
Date Analyzed:		05/13/2015 1255h											
Test Code:		200.7-DIS											
Date Prepared:		05/01/2015 1229h											
Calcium	470	mg/L	E200.7	2.00	50.0	10.00	468	15.2	70 - 130	478	1.61	20	±
Magnesium	164	mg/L	E200.7	1.47	50.0	10.00	156	79.8	70 - 130	163	0.713	20	
Sodium	413	mg/L	E200.7	1.65	50.0	10.00	413	-5.57	70 - 130	418	1.30	20	±
<b>Lab Sample ID: 1505005-001EMSD</b>													
Date Analyzed:		05/12/2015 1604h											
Test Code:		200.8-DIS											
Date Prepared:		05/01/2015 1229h											
Arsenic	0.189	mg/L	E200.8	0.0000920	0.00200	0.2000	0.0000935	94.4	75 - 125	0.188	0.320	20	
Beryllium	0.197	mg/L	E200.8	0.0000288	0.00200	0.2000	0.00002	98.7	75 - 125	0.191	3.46	20	
Cadmium	0.176	mg/L	E200.8	0.000193	0.000500	0.2000	0.0000651	88.0	75 - 125	0.173	1.56	20	
Chromium	0.180	mg/L	E200.8	0.00154	0.00200	0.2000	0.000157	90.1	75 - 125	0.178	1.48	20	
Cobalt	0.180	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000227	89.8	75 - 125	0.175	2.31	20	
Copper	0.182	mg/L	E200.8	0.000692	0.00200	0.2000	0.000655	90.6	75 - 125	0.178	1.93	20	
Iron	0.908	mg/L	E200.8	0.0118	0.100	1.000	0.00143	90.7	75 - 125	0.883	2.84	20	
Lead	0.180	mg/L	E200.8	0.000264	0.00200	0.2000	0	89.8	75 - 125	0.175	2.49	20	
Manganese	0.191	mg/L	E200.8	0.00153	0.00200	0.2000	0.0104	90.1	75 - 125	0.186	2.48	20	
Molybdenum	0.190	mg/L	E200.8	0.000206	0.00200	0.2000	0.000646	94.9	75 - 125	0.189	0.575	20	
Nickel	0.180	mg/L	E200.8	0.000754	0.00200	0.2000	0.00112	89.5	75 - 125	0.177	1.99	20	
Selenium	0.179	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000677	89.0	75 - 125	0.177	1.03	20	
Silver	0.165	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000119	82.6	75 - 125	0.165	0.338	20	
Thallium	0.175	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000228	87.6	75 - 125	0.172	2.04	20	
Tin	0.949	mg/L	E200.8	0.000348	0.00200	1.000	0.000295	94.8	75 - 125	0.937	1.24	20	
Uranium	0.197	mg/L	E200.8	0.0000112	0.00200	0.2000	0.00912	93.7	75 - 125	0.192	2.34	20	
Zinc	0.919	mg/L	E200.8	0.00476	0.00500	1.000	0.00881	91.0	75 - 125	0.91	1.02	20	



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1504455-001EMSD	Date Analyzed: 05/05/2015 1048h												
Test Code: HG-DW-DIS-245.1	Date Prepared: 05/04/2015 1515h												
Mercury	0.00342	mg/L	E245.1	0.00000892	0.000150	0.003330	0	103	85 - 115	0.00344	0.631	20	
<b>Lab Sample ID:</b> 1505005-001EMSD	Date Analyzed: 05/05/2015 1117h												
Test Code: HG-DW-DIS-245.1	Date Prepared: 05/04/2015 1515h												
Mercury	0.00340	mg/L	E245.1	0.00000892	0.000150	0.003330	0	102	85 - 115	0.00336	1.18	20	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505005-001CDUP	Date Analyzed: 05/01/2015 1245h												
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	3,530	mg/L	SM2540C	12.3	20.0					3570	1.24	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-R78399		Date Analyzed: 05/05/2015 1219h											
Test Code: 300.0-W													
Chloride	5.00	mg/L	E300.0	0.00751	0.100	5.000	0	100	90 - 110				
Fluoride	4.87	mg/L	E300.0	0.00681	0.100	5.000	0	97.5	90 - 110				
Sulfate	4.89	mg/L	E300.0	0.0211	0.750	5.000	0	97.7	90 - 110				
<b>Lab Sample ID:</b> LCS-R78260		Date Analyzed: 05/04/2015 845h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	51,600	mg/L	SM2320B	0.504	1.00	50,000	0	103	90 - 110				
<b>Lab Sample ID:</b> LCS-36910		Date Analyzed: 05/05/2015 1603h											
Test Code: NH3-W-350.1		Date Prepared: 05/05/2015 1340h											
Ammonia (as N)	9.69	mg/L	E350.1	0.0226	0.0500	10.00	0	96.9	90 - 110				
<b>Lab Sample ID:</b> LCS-R78473		Date Analyzed: 05/08/2015 1421h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.10	mg/L	E353.2	0.00833	0.0100	1.000	0	110	90 - 110				
<b>Lab Sample ID:</b> LCS-R78283		Date Analyzed: 05/01/2015 1245h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	220	mg/L	SM2540C	6.13	10.0	205.0	0	107	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-R78399	Date Analyzed: 05/05/2015 1202h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID:</b> MB-R78260	Date Analyzed: 05/04/2015 845h												
Test Code:	ALK-W-2320B-LL												
Bicarbonate (as CaCO <sub>3</sub> )	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO <sub>3</sub> )	< 1.00	mg/L	SM2320B	0.504	1.00								
<b>Lab Sample ID:</b> MB-36910	Date Analyzed: 05/05/2015 1602h												
Test Code:	NH3-W-350.1												
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0226	0.0500								
<b>Lab Sample ID:</b> MB-R78473	Date Analyzed: 05/08/2015 1419h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID:</b> MB-R78283	Date Analyzed: 05/01/2015 1245h												
Test Code:	TDS-W-2540C												
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505005-001BMS</b>		Date Analyzed: 05/05/2015 1648h											
Test Code: 300.0-W													
Chloride	4,990	mg/L	E300.0	7.51	100	5,000	7.81	99.6	90 - 110				
Fluoride	4,840	mg/L	E300.0	6.81	100	5,000	0	96.7	90 - 110				
Sulfate	7,090	mg/L	E300.0	21.1	750	5,000	2230	97.2	90 - 110				
<b>Lab Sample ID: 1505005-001BMS</b>		Date Analyzed: 05/04/2015 845h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	383	mg/L	SM2320B	0.504	1.00	100.0	278	105	80 - 120				
<b>Lab Sample ID: 1505005-001DMS</b>		Date Analyzed: 05/05/2015 1639h											
Test Code: NH3-W-350.1		Date Prepared: 05/05/2015 1340h											
Ammonia (as N)	9.32	mg/L	E350.1	0.0226	0.0500	10.00	0.0517	92.7	90 - 110				
<b>Lab Sample ID: 1505005-001DMS</b>		Date Analyzed: 05/08/2015 1447h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.18	mg/L	E353.2	0.00833	0.0100	1.000	0.181	100	90 - 110				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505005-001BMSD</b> Date Analyzed: 05/05/2015 1705h													
Test Code: 300.0-W													
Chloride	5,050	mg/L	E300.0	7.51	100	5,000	7.81	101	90 - 110	4990	1.23	20	
Fluoride	4,890	mg/L	E300.0	6.81	100	5,000	0	97.8	90 - 110	4840	1.14	20	
Sulfate	7,380	mg/L	E300.0	21.1	750	5,000	2230	103	90 - 110	7090	4.03	20	
<b>Lab Sample ID: 1505005-001BMSD</b> Date Analyzed: 05/04/2015 845h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	390	mg/L	SM2320B	0.504	1.00	100.0	278	112	80 - 120	383	1.81	10	
<b>Lab Sample ID: 1505005-001DMSD</b> Date Analyzed: 05/05/2015 1640h													
Test Code: NH3-W-350.1 Date Prepared: 05/05/2015 1340h													
Ammonia (as N)	8.61	mg/L	E350.1	0.0226	0.0500	10.00	0.0517	85.6	90 - 110	9.32	7.92	10	1
<b>Lab Sample ID: 1505005-001DMSD</b> Date Analyzed: 05/08/2015 1449h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.13	mg/L	E353.2	0.00833	0.0100	1.000	0.181	94.9	90 - 110	1.18	4.58	10	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-2 050115A		<b>Date Analyzed:</b> 05/01/2015 723h											
<b>Test Code:</b> 8260-W-DEN100													
Benzene	18.6	µg/L	SW8260C	0.270	1.00	20.00	0	92.8	62 - 127				
Chloroform	17.7	µg/L	SW8260C	0.153	1.00	20.00	0	88.4	67 - 132				
Methylene chloride	16.3	µg/L	SW8260C	0.172	1.00	20.00	0	81.6	32 - 185				
Naphthalene	23.6	µg/L	SW8260C	0.587	1.00	20.00	0	118	28 - 136				
Tetrahydrofuran	16.2	µg/L	SW8260C	0.516	1.00	20.00	0	81.0	43 - 146				
Toluene	19.9	µg/L	SW8260C	0.183	1.00	20.00	0	99.4	64 - 129				
Xylenes, Total	63.9	µg/L	SW8260C	0.857	1.00	60.00	0	107	52 - 134				
Surr: 1,2-Dichloroethane-d4	46.5	µg/L	SW8260C			50.00		93.0	76 - 138				
Surr: 4-Bromofluorobenzene	50.6	µg/L	SW8260C			50.00		101	80 - 152				
Surr: Dibromofluoromethane	48.9	µg/L	SW8260C			50.00		97.8	67 - 128				
Surr: Toluene-d8	51.6	µg/L	SW8260C			50.00		103	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB VOC-2 050115A</b>		Date Analyzed: 05/01/2015 802h											
Test Code: 8260-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260C	4.11	20.0								
Acetone	< 20.0	µg/L	SW8260C	1.70	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	47.0	µg/L	SW8260C			50.00		94.1	76 - 138				
Surr: 4-Bromofluorobenzene	51.8	µg/L	SW8260C			50.00		104	80 - 152				
Surr: Dibromofluoromethane	47.9	µg/L	SW8260C			50.00		95.8	67 - 128				
Surr: Toluene-d8	50.9	µg/L	SW8260C			50.00		102	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505005-001AMS		Date Analyzed: 05/01/2015 1143h											
Test Code: 8260-W-DEN100													
Benzene	18.2	µg/L	SW8260C	0.270	1.00	20.00	0	91.1	66 - 145				
Chloroform	17.2	µg/L	SW8260C	0.153	1.00	20.00	0	86.0	50 - 146				
Methylene chloride	16.1	µg/L	SW8260C	0.172	1.00	20.00	0	80.6	30 - 192				
Naphthalene	19.1	µg/L	SW8260C	0.587	1.00	20.00	0	95.3	41 - 131				
Tetrahydrofuran	14.7	µg/L	SW8260C	0.516	1.00	20.00	0	73.4	43 - 146				
Toluene	18.8	µg/L	SW8260C	0.183	1.00	20.00	0	94.2	18 - 192				
Xylenes, Total	60.5	µg/L	SW8260C	0.857	1.00	60.00	0	101	42 - 167				
Surr: 1,2-Dichloroethane-d4	47.0	µg/L	SW8260C			50.00		94.1	72 - 151				
Surr: 4-Bromofluorobenzene	49.5	µg/L	SW8260C			50.00		98.9	80 - 152				
Surr: Dibromofluoromethane	48.4	µg/L	SW8260C			50.00		96.8	80 - 124				
Surr: Toluene-d8	50.1	µg/L	SW8260C			50.00		100	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505005  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505005-001AMSD</b>		Date Analyzed: 05/01/2015 1202h											
Test Code: 8260-W-DEN100													
Benzene	17.9	µg/L	SW8260C	0.270	1.00	20.00	0	89.6	66 - 145	18.2	1.66	25	
Chloroform	16.7	µg/L	SW8260C	0.153	1.00	20.00	0	83.6	50 - 146	17.2	2.71	25	
Methylene chloride	16.0	µg/L	SW8260C	0.172	1.00	20.00	0	79.8	30 - 192	16.1	0.873	25	
Naphthalene	18.6	µg/L	SW8260C	0.587	1.00	20.00	0	92.8	41 - 131	19.1	2.71	25	
Tetrahydrofuran	15.9	µg/L	SW8260C	0.516	1.00	20.00	0	79.4	43 - 146	14.7	7.86	25	
Toluene	18.6	µg/L	SW8260C	0.183	1.00	20.00	0	93.0	18 - 192	18.8	1.28	25	
Xylenes, Total	59.3	µg/L	SW8260C	0.857	1.00	60.00	0	98.9	42 - 167	60.5	2.00	25	
Surr: 1,2-Dichloroethane-d4	45.7	µg/L	SW8260C			50.00		91.3	72 - 151				
Surr: 4-Bromofluorobenzene	49.0	µg/L	SW8260C			50.00		98.1	80 - 152				
Surr: Dibromofluoromethane	47.1	µg/L	SW8260C			50.00		94.2	80 - 124				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.4	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1505005**

Page 1 of 3

**Client:** Energy Fuels Resources, Inc.

Due Date: 5/15/2015

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2015

**QC Level:** III

WO Type: Project

**Comments:** QC 3 (no chromatograms). EDD-Denison. CC KWeinel@energyfuels.com; Samples have been field filtered for metals.;

*el*

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1505005-001A	MW-23_04302015	4/30/2015 0730h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>							
1505005-001B				300.0-W		df - wc	1
<i>3 SEL Analytes: CL F SO4</i>							
				ALK-W-2320B-LL		df - wc	
<i>2 SEL Analytes: ALKB ALKC</i>							
1505005-001C				TDS-W-2540C		ww - tds	
<i>1 SEL Analytes: TDS</i>							
1505005-001D				NH3-W-350.1		df - no2/no3 & nh3	
<i>1 SEL Analytes: NH3N</i>							
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2		df - no2/no3 & nh3	
<i>1 SEL Analytes: NO3NO2N</i>							
1505005-001E				200.7-DIS		df-met	
<i>5 SEL Analytes: CA MG K NA V</i>							
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>							
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
<i>1 SEL Analytes: HG</i>							
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>							
1505005-002A	MW-29_04302015	4/30/2015 0840h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>							
1505005-002B				300.0-W		df - wc	1
<i>3 SEL Analytes: CL F SO4</i>							
				ALK-W-2320B-LL		df - wc	
<i>2 SEL Analytes: ALKB ALKC</i>							
1505005-002C				TDS-W-2540C		ww - tds	
<i>1 SEL Analytes: TDS</i>							

# WORK ORDER Summary

Work Order: **1505005** Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 5/15/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1505005-002D	MW-29_04302015	4/30/2015 0840h	5/1/2015 1005h	NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>	Aqueous		df - no2/no3 & nh3 1
				NH3-W-PR			df - no2/no3 & nh3
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3
1505005-002E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met
				200.7-DIS-PR			df-met
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met
				HG-DW-DIS-PR			df-met
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met
1505005-003A	MW-70_04302015	4/30/2015 0840h	5/1/2015 1005h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1505005-003B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc
1505005-003C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			ww - tds
1505005-003D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>			df - no2/no3 & nh3
				NH3-W-PR			df - no2/no3 & nh3
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3
1505005-003E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met
				200.7-DIS-PR			df-met
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met

# WORK ORDER Summary

Work Order: **1505005** Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 5/15/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1505005-003E	MW-70_04302015	4/30/2015 0840h	5/1/2015 1005h	HG-DW-DIS-PR IONBALANCE	Aqueous	df-met	1
5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc							
1505005-004A	MW-02_04282015	4/28/2015 1150h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-005A	MW-03_04292015	4/29/2015 1340h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-006A	MW-03A_04292015	4/29/2015 1455h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-007A	MW-05_04272015	4/27/2015 1550h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-008A	MW-12_04282015	4/28/2015 0900h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-009A	MW-17_04292015	4/29/2015 1100h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-010A	MW-22_04292015	4/29/2015 1230h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-011A	MW-27_04282015	4/28/2015 1615h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-012A	MW-28_04272015	4/27/2015 1545h	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							
1505005-013A	Trip Blank	4/27/2015	5/1/2015 1005h	8260-W-DEN100	Aqueous	VOCFridge	3
Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4							



# American West Analytical Laboratories

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## CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

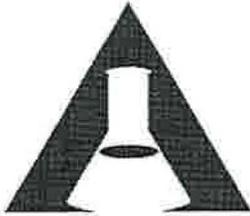
1505005

AWAL Lab Sample Set #  
 Page 1 of 2

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 Contact: **Garrin Palmer**  
 Phone #: **(435) 678-2221** Cell #: \_\_\_\_\_  
 Email: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**  
 Project Name: **2nd Quarter Groundwater 2015**  
 Project #: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:								
3		Standard												
# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.77/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Laboratory Use Only			
											Samples Were:			
											<input checked="" type="checkbox"/> Include EDD: <b>LOCUS UPLOAD EXCEL</b> <input checked="" type="checkbox"/> Field Filtered For: <b>Dissolved Metals</b>	Samples Were: <b>Fed X</b> <input checked="" type="checkbox"/> Shipped or hand delivered <input checked="" type="checkbox"/> Ambient or Chilled 2 Ambient or Chilled <b>3.2</b> °C 3 Temperature <b>3.2</b> °C 4 Received Broken/Leaking (Improperly Sealed) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Checked at bench <input type="checkbox"/> Y <input checked="" type="checkbox"/> N 5 Properly Preserved <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Received Within Holding Times <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
											For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:	Known Hazards & Sample Comments		
Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.77/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Special Instructions
1 MW-23_04302015	4/30/2015	730	7	w	x	x	x	x	x	x	x	x	x	
2 MW-29_04302015	4/30/2015	840	7	w	x	x	x	x	x	x	x	x	x	
3 MW-70_04302015	4/30/2015	840	7	w	x	x	x	x	x	x	x	x	x	
4 MW-02_04282015	4/28/2015	1150	3	w									x	
5 MW-03_04292015	4/29/2015	1340	3	w									x	
6 MW-03A_04292015	4/29/2015	1455	3	w									x	
7 MW-05_04272015	4/27/2015	1550	3	w									x	
8 MW-12_04282015	4/28/2015	900	3	w									x	
9 MW-17_04292015	4/29/2015	1100	3	w									x	
10 MW-22_04292015	4/29/2015	1230	3	w									x	
11 MW-27_04282015	4/28/2015	1615	3	w									x	
12 MW-28_04272015	4/27/2015	1545	3	w									x	

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 4/30/2015	Received by: Signature <i>Elmer Hayward</i>	Date: 5-1-15	Special Instructions:  Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1100	Print Name: Elmer Hayward	Time: 1005	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	



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**CHAIN OF CUSTODY**

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1508005  
 AWAL Lab Sample Set #  
 Page 2 of 2

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 Contact: **Garrin Palmer**  
 Phone #: **(435) 678-2221** Cell #:  
**gpalmer@energyfuels.com; kWeinel@energyfuels.com;**  
 Email: **dturk@energyfuels.com**  
 Project Name: **2nd Quarter Groundwater 2015**  
 Project #:  
 PO #:  
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:										
3		Standard														
Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Laboratory Use Only		
														Known Hazards & Sample Comments	Samples Were:	
1 TRIP BLANK	4/27/2015		3	W										X	Include EDD: LOCUS UPLOAD EXCEL X Field Filtered For: Dissolved Metals	Shipped or hand delivered <b>Yes</b>
2 TEMP BLANK	4/30/2015		1	W											For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:	Ambient or Chilled <b>Yes</b>
3															<input type="checkbox"/>	Temperature <b>3.2</b> °C
4															<input type="checkbox"/>	Received Broken/Leaking (Improperly Sealed) <b>Yes</b>
5															<input type="checkbox"/>	Checked at bench <b>Yes</b>
6															<input type="checkbox"/>	Received Within Holding Times <b>Yes</b>
7															<input type="checkbox"/>	
8															<input type="checkbox"/>	
9															<input type="checkbox"/>	
10															<input type="checkbox"/>	
11															<input type="checkbox"/>	
12															<input type="checkbox"/>	

Relinquished by: Signature: <i>Tanner Holliday</i>	Date: 4/30/2015	Received by: Signature: <i>[Signature]</i>	Date:	Special Instructions:
Print Name: Tanner Holliday	Time: 1100	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature: <i>[Signature]</i>	Date: 5-1-15	Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name:	Time:	Print Name: <i>[Signature]</i>	Time: 1005	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	

GOC Tape Was:

1 Present on Outer Package **Yes** N NA

2 Unbroken on Outer Package **Yes** N NA

3 Present on Sample **Yes** N NA

4 Unbroken on Sample **Yes** N NA

Discrepancies Between Sample Labels and GOC Record? **Yes** N

**Preservation Check Sheet**

**Sample Set Extension and pH**

Analysis	Preservative	1	2	3															
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes	yes	yes															
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO <sub>3</sub>	yes	yes	yes															
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes	yes	yes															
O & G	pH <2 HCL																		
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																		

- Procedure:
- 1) Pour a small amount of sample in the sample lid
  - 2) Pour sample from Lid gently over wide range pH paper
  - 3) **Do Not** dip the pH paper in the sample bottle or lid
  - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
  - 5) Flag COC, notify client if requested
  - 6) Place client conversation on COC
  - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- \* The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > \_\_\_\_ due to the sample matrix interference.



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2015

Dear Garrin Palmer:

Lab Set ID: 1505395

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 5/21/2015 for the analyses presented in the following report.

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)  
web: [www.awal-labs.com](http://www.awal-labs.com)

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Thank You,

Approved by:

**Jose G. Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou,  
email=jose@awal-labs.com,  
c=US  
Date: 2015.06.08 11:01:28  
-08'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1505395  
**Date Received:** 5/21/2015 1554h

**Contact:** Garrin Palmer

3440 South 700 West  
Salt Lake City, UT 84119

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web: www.awal-labs.com

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1505395-001A	MW-03_05202015 Re Sample	5/20/2015 820h	Aqueous	Mercury, Drinking Water Dissolved
1505395-001A	MW-03_05202015 Re Sample	5/20/2015 820h	Aqueous	ICPMS Metals, Dissolved
1505395-001A	MW-03_05202015 Re Sample	5/20/2015 820h	Aqueous	ICP Metals, Dissolved

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015  
**Lab Set ID:** 1505395

3440 South 700 West  
Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 5/21/2015  
**Date of Collection:** 5/20/2015  
**Sample Condition:** See Chain of Custody  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP:

**Method Blanks (MB):** Zinc was detected above the reporting limit on MB-37219. The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration. No other target analytes were detected above reporting limits.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1505395-001A	Calcium	MS/MSD	High analyte concentration
1505395-001A	Magnesium	MSD	High analyte concentration
1505395-001A	Sodium	MS	High analyte concentration

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505395  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: LCS-37218</b>													
Date Analyzed:		05/26/2015 1609h											
Test Code:		200.7-DIS											
Date Prepared:		05/22/2015 1021h											
Potassium	10.2	mg/L	E200.7	0.247	1.00	10.00	0	102	85 - 115				
Vanadium	0.187	mg/L	E200.7	0.00116	0.00500	0.2000	0	93.7	85 - 115				
<b>Lab Sample ID: LCS-37218</b>													
Date Analyzed:		06/04/2015 1058h											
Test Code:		200.7-DIS											
Date Prepared:		05/22/2015 1021h											
Calcium	10.0	mg/L	E200.7	0.0401	1.00	10.00	0	100	85 - 115				
Magnesium	10.1	mg/L	E200.7	0.0294	1.00	10.00	0	101	85 - 115				
Sodium	10.1	mg/L	E200.7	0.0330	1.00	10.00	0	101	85 - 115				
<b>Lab Sample ID: LCS-37219</b>													
Date Analyzed:		06/01/2015 1218h											
Test Code:		200.8-DIS											
Date Prepared:		05/22/2015 1021h											
Arsenic	0.207	mg/L	E200.8	0.0000920	0.00200	0.2000	0	104	85 - 115				
Chromium	0.199	mg/L	E200.8	0.00154	0.00200	0.2000	0	99.5	85 - 115				
Cobalt	0.198	mg/L	E200.8	0.0000434	0.00400	0.2000	0	99.1	85 - 115				
Copper	0.201	mg/L	E200.8	0.000692	0.00200	0.2000	0	101	85 - 115				
Iron	1.01	mg/L	E200.8	0.0118	0.100	1.000	0	101	85 - 115				
Manganese	0.201	mg/L	E200.8	0.00153	0.00200	0.2000	0	100	85 - 115				
Nickel	0.198	mg/L	E200.8	0.000754	0.00200	0.2000	0	98.9	85 - 115				
Zinc	1.03	mg/L	E200.8	0.00476	0.00500	1.000	0	103	85 - 115				
<b>Lab Sample ID: LCS-37219</b>													
Date Analyzed:		05/29/2015 2050h											
Test Code:		200.8-DIS											
Date Prepared:		05/22/2015 1021h											
Beryllium	0.193	mg/L	E200.8	0.0000288	0.00200	0.2000	0	96.3	85 - 115				
Cadmium	0.194	mg/L	E200.8	0.000193	0.000500	0.2000	0	97.0	85 - 115				
Lead	0.192	mg/L	E200.8	0.000264	0.00200	0.2000	0	96.1	85 - 115				
Molybdenum	0.197	mg/L	E200.8	0.000206	0.00200	0.2000	0	98.6	85 - 115				
Selenium	0.191	mg/L	E200.8	0.0000634	0.00200	0.2000	0	95.7	85 - 115				
Silver	0.189	mg/L	E200.8	0.0000244	0.00200	0.2000	0	94.5	85 - 115				
Thallium	0.187	mg/L	E200.8	0.0000242	0.00200	0.2000	0	93.5	85 - 115				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505395  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-37219		Date Analyzed:		05/29/2015 2050h									
Test Code:		200.8-DIS		Date Prepared:		05/22/2015 1021h							
Tin	0.994	mg/L	E200.8	0.000348	0.00200	1.000	0	99.4	85 - 115				
Uranium	0.205	mg/L	E200.8	0.0000112	0.00200	0.2000	0	102	85 - 115				
<b>Lab Sample ID:</b> LCS-37286		Date Analyzed:		05/28/2015 902h									
Test Code:		HG-DW-DIS-245.1		Date Prepared:		05/27/2015 1700h							
Mercury	0.00339	mg/L	E245.1	0.00000892	0.000150	0.003330	0	102	85 - 115				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505395  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-37218	Date Analyzed:	05/26/2015	1607h										
Test Code:	200.7-DIS	Date Prepared:	05/22/2015	1021h									
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
<b>Lab Sample ID:</b> MB-37218	Date Analyzed:	06/04/2015	1055h										
Test Code:	200.7-DIS	Date Prepared:	05/22/2015	1021h									
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
<b>Lab Sample ID:</b> MB-37219	Date Analyzed:	05/29/2015	2046h										
Test Code:	200.8-DIS	Date Prepared:	05/22/2015	1021h									
Arsenic	< 0.00200	mg/L	E200.8	0.0000920	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00154	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.0000434	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.000692	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000206	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000754	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.0000244	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000348	0.00200								
Zinc	0.0157	mg/L	E200.8	0.00476	0.00500								B
<b>Lab Sample ID:</b> MB-37219	Date Analyzed:	05/29/2015	2142h										
Test Code:	200.8-DIS	Date Prepared:	05/22/2015	1021h									
Beryllium	< 0.000500	mg/L	E200.8	0.00000720	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00296	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.0000660	0.000500								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505395  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-37219	Date Analyzed:	05/29/2015	2142h										
Test Code:	200.8-DIS	Date Prepared:	05/22/2015	1021h									
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								
<b>Lab Sample ID:</b> MB-37219	Date Analyzed:	05/29/2015	2202h										
Test Code:	200.8-DIS	Date Prepared:	05/22/2015	1021h									
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
<b>Lab Sample ID:</b> MB-37286	Date Analyzed:	05/28/2015	901h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	05/27/2015	1700h									
Mercury	< 0.000150	mg/L	E245.1	0.00000892	0.000150								

*B - The method blank was acceptable, as the method blank result is less than 10% of the lowest reported sample concentration.*



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1505395

**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505395-001AMS</b>													
Date Analyzed:		05/26/2015 1621h											
Test Code:		200.7-DIS											
Date Prepared:		05/22/2015 1021h											
Potassium	39.4	mg/L	E200.7	0.247	1.00	10.00	26.9	125	70 - 130				
Vanadium	0.188	mg/L	E200.7	0.00116	0.00500	0.2000	0	93.9	70 - 130				
<b>Lab Sample ID: 1505395-001AMS</b>													
Date Analyzed:		06/04/2015 1101h											
Test Code:		200.7-DIS											
Date Prepared:		05/22/2015 1021h											
Calcium	473	mg/L	E200.7	2.00	50.0	10.00	452	210	70 - 130				2
Magnesium	271	mg/L	E200.7	1.47	50.0	10.00	260	110	70 - 130				
Sodium	767	mg/L	E200.7	1.65	50.0	10.00	732	350	70 - 130				2
<b>Lab Sample ID: 1505395-001AMS</b>													
Date Analyzed:		05/29/2015 2103h											
Test Code:		200.8-DIS											
Date Prepared:		05/22/2015 1021h											
Arsenic	0.209	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00131	104	75 - 125				
Beryllium	0.183	mg/L	E200.8	0.0000288	0.00200	0.2000	0.00208	90.4	75 - 125				
Cadmium	0.203	mg/L	E200.8	0.000193	0.000500	0.2000	0.0142	94.6	75 - 125				
Chromium	0.193	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.6	75 - 125				
Cobalt	0.196	mg/L	E200.8	0.0000434	0.00400	0.2000	0.00486	95.6	75 - 125				
Copper	0.194	mg/L	E200.8	0.000692	0.00200	0.2000	0.00429	94.7	75 - 125				
Iron	0.992	mg/L	E200.8	0.0118	0.100	1.000	0	99.2	75 - 125				
Lead	0.180	mg/L	E200.8	0.000264	0.00200	0.2000	0	90.2	75 - 125				
Manganese	1.44	mg/L	E200.8	0.00153	0.00200	0.2000	1.24	101	75 - 125				
Molybdenum	0.205	mg/L	E200.8	0.000206	0.00200	0.2000	0.000503	102	75 - 125				
Nickel	0.287	mg/L	E200.8	0.000754	0.00200	0.2000	0.0962	95.3	75 - 125				
Selenium	0.253	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0617	95.9	75 - 125				
Silver	0.179	mg/L	E200.8	0.0000244	0.00200	0.2000	0.000247	89.4	75 - 125				
Thallium	0.178	mg/L	E200.8	0.0000242	0.00200	0.2000	0.00151	88.1	75 - 125				
Tin	1.00	mg/L	E200.8	0.000348	0.00200	1.000	0	100	75 - 125				
Uranium	0.218	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0189	99.7	75 - 125				
Zinc	1.35	mg/L	E200.8	0.00476	0.00500	1.000	0.373	97.3	75 - 125				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505395  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505395-001AMS	Date Analyzed:		05/28/2015 909h										
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared:		05/27/2015 1700h										
Mercury	0.00351	mg/L	E245.1	0.00000892	0.000150	0.003330	0	105	85 - 115				

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505395  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505395-001AMSD</b>													
Date Analyzed:		05/26/2015 1623h											
Test Code:		200.7-DIS											
Date Prepared:		05/22/2015 1021h											
Potassium	39.1	mg/L	E200.7	0.247	1.00	10.00	26.9	122	70 - 130	39.4	0.948	20	
Vanadium	0.187	mg/L	E200.7	0.00116	0.00500	0.2000	0	93.5	70 - 130	0.188	0.335	20	
<b>Lab Sample ID: 1505395-001AMSD</b>													
Date Analyzed:		06/04/2015 1103h											
Test Code:		200.7-DIS											
Date Prepared:		05/22/2015 1021h											
Calcium	456	mg/L	E200.7	2.00	50.0	10.00	452	40.0	70 - 130	473	3.66	20	±
Magnesium	261	mg/L	E200.7	1.47	50.0	10.00	260	10.0	70 - 130	271	3.76	20	±
Sodium	745	mg/L	E200.7	1.65	50.0	10.00	732	130	70 - 130	767	2.91	20	
<b>Lab Sample ID: 1505395-001AMSD</b>													
Date Analyzed:		05/29/2015 2106h											
Test Code:		200.8-DIS											
Date Prepared:		05/22/2015 1021h											
Arsenic	0.209	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00131	104	75 - 125	0.209	0.317	20	
Beryllium	0.184	mg/L	E200.8	0.0000288	0.00200	0.2000	0.00208	90.7	75 - 125	0.183	0.370	20	
Cadmium	0.202	mg/L	E200.8	0.000193	0.000500	0.2000	0.0142	93.9	75 - 125	0.203	0.711	20	
Chromium	0.196	mg/L	E200.8	0.00154	0.00200	0.2000	0	97.8	75 - 125	0.193	1.25	20	
Cobalt	0.197	mg/L	E200.8	0.0000434	0.00400	0.2000	0.00486	95.9	75 - 125	0.196	0.270	20	
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0.00429	95.4	75 - 125	0.194	0.704	20	
Iron	1.00	mg/L	E200.8	0.0118	0.100	1.000	0	100	75 - 125	0.992	0.840	20	
Lead	0.181	mg/L	E200.8	0.000264	0.00200	0.2000	0	90.6	75 - 125	0.18	0.403	20	
Manganese	1.45	mg/L	E200.8	0.00153	0.00200	0.2000	1.24	104	75 - 125	1.44	0.435	20	
Molybdenum	0.203	mg/L	E200.8	0.000206	0.00200	0.2000	0.000503	101	75 - 125	0.205	1.01	20	
Nickel	0.286	mg/L	E200.8	0.000754	0.00200	0.2000	0.0962	94.7	75 - 125	0.287	0.451	20	
Selenium	0.252	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0617	95.0	75 - 125	0.253	0.694	20	
Silver	0.179	mg/L	E200.8	0.0000244	0.00200	0.2000	0.000247	89.4	75 - 125	0.179	0.0451	20	
Thallium	0.178	mg/L	E200.8	0.0000242	0.00200	0.2000	0.00151	88.1	75 - 125	0.178	0.0806	20	
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125	1	0.443	20	
Uranium	0.220	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0189	101	75 - 125	0.218	0.742	20	
Zinc	1.34	mg/L	E200.8	0.00476	0.00500	1.000	0.373	96.5	75 - 125	1.35	0.657	20	



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505395  
**Project:** 2nd Quarter Groundwater 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505395-001AMSD	Date Analyzed: 05/28/2015 911h												
<b>Test Code:</b> HG-DW-DIS-245.1	Date Prepared: 05/27/2015 1700h												
Mercury	0.00346	mg/L	E245.1	0.00000892	0.000150	0.003330	0	104	85 - 115	0.00351	1.44	20	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1505395**

Page 1 of 1

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/5/2015

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2015

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals were field filtered.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1505395-001A	MW-03_05202015 Re Sample	5/20/2015 0820h	5/21/2015 1554h	200.7-DIS	Aqueous		df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			df-met



**American West  
Analytical Laboratories**

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 www.awal-labs.com

**CHAIN OF CUSTODY**

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1505395

AWAL Lab Sample Set #  
 Page 1 of 1

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 Contact: **Garrin Palmer**  
 Phone #: **(435) 678-2221** Cell #:  
**gpalmer@energyfuels.com; kWeinel@energyfuels.com;**  
**dturk@energyfuels.com**  
 Project Name: **2nd Quarter Groundwater 2015**  
 Project #:  
 PO #:  
 Sampler Name: **Garrin Palmer**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:								
3		Standard												
# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Sc, Ag, Ti, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	X Include EDD: <b>LOCUS UPLOAD EXCEL</b> X Field Filtered For: <b>Dissolved Metals</b>	Laboratory Use Only		
Y	N	Y	N	Y	N	Y	N	Y	N	Y		N	Samples Were:	Temperature
1	W						X	X	X				UPS	10.8 °C
2													DB5/15	
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Sc, Ag, Ti, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
1 MW-03_05202015 Re Sample	5/20/2015	820	1	W						X	X	X		
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

**Laboratory Use Only**

Samples Were: UPS

1 Shipped and received: DB5/15

2 Ambient or Chilled

3 Temperature 10.8 °C

4 Received Broken/Leaking (Improperly Sealed): Y N

5 Properly Preserved: Y N  
Checked at bench: Y N

6 Received Within Holding Times: Y N

COC Tape Was:

1 Present on Outer Packaging: Y N NA

2 Unbroken on Outer Packaging: Y N NA

3 Present on Sample: Y N NA

4 Unbroken on Sample: Y N NA

Discrepancies Between Sample Labels and COC Record: Y N

Relinquished by: <u>Garrin Palmer</u> Signature	Date: <u>5/20/15</u> Time:	Received by: <u>Garrin Palmer</u> Signature	Date: <u>5/20/15</u> Time:
Print Name: <u>Garrin Palmer</u>	Date: <u>1000</u>	Print Name:	Date:
Relinquished by: <u>Garrin Palmer</u> Signature	Date:	Received by: <u>Denise Bruun</u> Signature	Date: <u>5/21/15</u> Time: <u>15:54</u>
Print Name:	Date:	Print Name: <u>Denise Bruun</u>	Date:
Relinquished by: <u>Garrin Palmer</u> Signature	Date:	Received by: <u>Denise Bruun</u> Signature	Date:
Print Name:	Date:	Print Name: <u>Denise Bruun</u>	Date:

Special Instructions:

Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.





Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2015 Re Sample

Dear Garrin Palmer:

Lab Set ID: 1506525

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 6/25/2015 for the analyses presented in the following report.

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Fax: (801) 263-8687  
e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

web: [www.awal-labs.com](http://www.awal-labs.com)

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

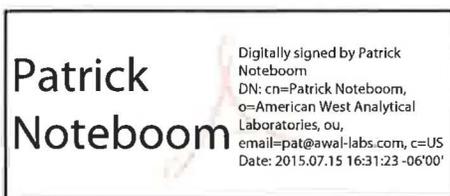
Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by:



Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Set ID:** 1506525  
**Date Received:** 6/25/2015 905h

3440 South 700 West Salt Lake City, UT 84119	<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date Collected</b>	<b>Matrix</b>	<b>Analysis</b>
	1506525-001A	MW-37_06242015	6/24/2015 820h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1506525-001B	MW-37_06242015	6/24/2015 820h	Aqueous	Anions, E300.0
	1506525-001B	MW-37_06242015	6/24/2015 820h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Phone: (801) 263-8686	1506525-001C	MW-37_06242015	6/24/2015 820h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1506525-001D	MW-37_06242015	6/24/2015 820h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1506525-001D	MW-37_06242015	6/24/2015 820h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1506525-001E	MW-37_06242015	6/24/2015 820h	Aqueous	Ion Balance
	1506525-001E	MW-37_06242015	6/24/2015 820h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1506525-001E	MW-37_06242015	6/24/2015 820h	Aqueous	ICPMS Metals, Dissolved
	1506525-001E	MW-37_06242015	6/24/2015 820h	Aqueous	Mercury, Drinking Water Dissolved
Kyle F. Gross	1506525-002A	MW-20_06242015	6/24/2015 840h	Aqueous	VOA by GC/MS Method 8260C/5030C
Laboratory Director	1506525-002B	MW-20_06242015	6/24/2015 840h	Aqueous	Anions, E300.0
	1506525-002B	MW-20_06242015	6/24/2015 840h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Jose Rocha	1506525-002C	MW-20_06242015	6/24/2015 840h	Aqueous	Total Dissolved Solids, A2540C
QA Officer	1506525-002D	MW-20_06242015	6/24/2015 840h	Aqueous	Ammonia, Aqueous
	1506525-002D	MW-20_06242015	6/24/2015 840h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1506525-002E	MW-20_06242015	6/24/2015 840h	Aqueous	Ion Balance
	1506525-002E	MW-20_06242015	6/24/2015 840h	Aqueous	ICP Metals, Dissolved
	1506525-002E	MW-20_06242015	6/24/2015 840h	Aqueous	ICPMS Metals, Dissolved
	1506525-002E	MW-20_06242015	6/24/2015 840h	Aqueous	Mercury, Drinking Water Dissolved
	1506525-003A	MW-24_06242015	6/24/2015 900h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1506525-003B	MW-24_06242015	6/24/2015 900h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1506525-003B	MW-24_06242015	6/24/2015 900h	Aqueous	Anions, E300.0
	1506525-003C	MW-24_06242015	6/24/2015 900h	Aqueous	Total Dissolved Solids, A2540C
	1506525-003D	MW-24_06242015	6/24/2015 900h	Aqueous	Ammonia, Aqueous
	1506525-003D	MW-24_06242015	6/24/2015 900h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1506525-003E	MW-24_06242015	6/24/2015 900h	Aqueous	Ion Balance
	1506525-003E	MW-24_06242015	6/24/2015 900h	Aqueous	ICP Metals, Dissolved
	1506525-003E	MW-24_06242015	6/24/2015 900h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Set ID:** 1506525  
**Date Received:** 6/25/2015 905h

**Contact:** Garrin Palmer

3440 South 700 West  
Salt Lake City, UT 84119

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1506525-003E	MW-24_06242015	6/24/2015 900h	Aqueous	Mercury, Drinking Water Dissolved
1506525-004A	Trip Blank	6/24/2015	Aqueous	VOA by GC/MS Method 8260C/5030C

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Jose Rocha  
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## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Set ID:** 1506525

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Jose Rocha  
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### Sample Receipt Information:

**Date of Receipt:** 6/25/2015  
**Date of Collection:** 6/24/2015  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1506524-001E	Calcium	MS/MSD	High analyte concentrations
1506524-001E	Sodium	MS/MSD	High analyte concentrations
1506524-003B	Nitrate/Nitrite	MS/MSD	Sample matrix interference

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2015 Re Sample  
**Lab Set ID:** 1506525

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Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 6/25/2015  
**Date of Collection:** 6/24/2015  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** No target analytes were observed above reporting limits.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506525  
**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-37765													
Date Analyzed: 07/06/2015 1346h													
Test Code: 200.7-DIS													
Date Prepared: 06/25/2015 1452h													
Calcium	9.61	mg/L	E200.7	0.0401	1.00	10.00	0	96.1	85 - 115				
Potassium	10.3	mg/L	E200.7	0.247	1.00	10.00	0	103	85 - 115				
Sodium	10.1	mg/L	E200.7	0.0330	1.00	10.00	0	101	85 - 115				
Vanadium	0.195	mg/L	E200.7	0.00116	0.00500	0.2000	0	97.4	85 - 115				
<b>Lab Sample ID:</b> LCS-37765													
Date Analyzed: 07/08/2015 1151h													
Test Code: 200.7-DIS													
Date Prepared: 06/25/2015 1452h													
Magnesium	10.1	mg/L	E200.7	0.0294	1.00	10.00	0	101	85 - 115				
<b>Lab Sample ID:</b> LCS-37766													
Date Analyzed: 07/06/2015 1223h													
Test Code: 200.8-DIS													
Date Prepared: 06/25/2015 1452h													
Arsenic	0.204	mg/L	E200.8	0.0000920	0.00200	0.2000	0	102	85 - 115				
Beryllium	0.205	mg/L	E200.8	0.0000288	0.00200	0.2000	0	102	85 - 115				
Cadmium	0.196	mg/L	E200.8	0.000193	0.000500	0.2000	0	98.0	85 - 115				
Chromium	0.203	mg/L	E200.8	0.00154	0.00200	0.2000	0	102	85 - 115				
Cobalt	0.202	mg/L	E200.8	0.0000434	0.00400	0.2000	0	101	85 - 115				
Copper	0.207	mg/L	E200.8	0.000692	0.00200	0.2000	0	103	85 - 115				
Iron	1.03	mg/L	E200.8	0.0118	0.100	1.000	0	103	85 - 115				
Lead	0.191	mg/L	E200.8	0.000264	0.00200	0.2000	0	95.7	85 - 115				
Manganese	0.204	mg/L	E200.8	0.00153	0.00200	0.2000	0	102	85 - 115				
Molybdenum	0.200	mg/L	E200.8	0.000206	0.00200	0.2000	0	99.9	85 - 115				
Nickel	0.200	mg/L	E200.8	0.000754	0.00200	0.2000	0	100	85 - 115				
Selenium	0.189	mg/L	E200.8	0.0000634	0.00200	0.2000	0	94.4	85 - 115				
Silver	0.189	mg/L	E200.8	0.0000244	0.00200	0.2000	0	94.6	85 - 115				
Thallium	0.187	mg/L	E200.8	0.0000242	0.00200	0.2000	0	93.3	85 - 115				
Zinc	1.02	mg/L	E200.8	0.00476	0.00500	1.000	0	102	85 - 115				
<b>Lab Sample ID:</b> LCS-37766													
Date Analyzed: 07/09/2015 946h													
Test Code: 200.8-DIS													
Date Prepared: 06/25/2015 1452h													
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	85 - 115				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-37766	Date Analyzed:	07/09/2015	946h										
Test Code:	200 8-DIS	Date Prepared:	06/25/2015	1452h									
Uranium	0,199	mg/L	E200.8	0.0000112	0.00200	0.2000	0	99,4	85 - 115				
<b>Lab Sample ID:</b> LCS-37761	Date Analyzed:	06/26/2015	1043h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	06/25/2015	1559h									
Mercury	0.00347	mg/L	E245.1	0.00000892	0.000150	0.003330	0	104	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Lab Set ID:** 1506525

**Dept:** ME

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-37765	Date Analyzed:		07/06/2015 1344h										
Test Code:	Date Prepared:		200.7-DIS 06/25/2015 1452h										
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
<b>Lab Sample ID:</b> MB-37765	Date Analyzed:		07/08/2015 1149h										
Test Code:	Date Prepared:		200.7-DIS 06/25/2015 1452h										
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
<b>Lab Sample ID:</b> MB-37766	Date Analyzed:		07/06/2015 1220h										
Test Code:	Date Prepared:		200.8-DIS 06/25/2015 1452h										
Arsenic	< 0.00200	mg/L	E200.8	0.0000920	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00154	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.0000434	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.000692	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000206	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000754	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.0000244	0.00200								
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								
<b>Lab Sample ID:</b> MB-37766	Date Analyzed:		07/06/2015 1342h										
Test Code:	Date Prepared:		200.8-DIS 06/25/2015 1452h										
Beryllium	< 0.000500	mg/L	E200.8	0.00000720	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00296	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.0000660	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-37766	Date Analyzed:	07/07/2015	2115h										
Test Code:	200.8-DIS	Date Prepared:	06/25/2015	1452h									
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
<b>Lab Sample ID:</b> MB-37766	Date Analyzed:	07/09/2015	942h										
Test Code:	200.8-DIS	Date Prepared:	06/25/2015	1452h									
Tin	< 0.00200	mg/L	E200.8	0.000348	0.00200								
<b>Lab Sample ID:</b> MB-37761	Date Analyzed:	06/26/2015	1041h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	06/25/2015	1559h									
Mercury	< 0.000150	mg/L	E245.1	0.00000892	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1506525-001EMS	Date Analyzed:		07/06/2015 1354h										
Test Code:	Date Prepared:		06/25/2015 1452h										
Calcium	478	mg/L	E200.7	2.00	50.0	10.00	453	255	70 - 130				
Sodium	556	mg/L	E200.7	1.65	50.0	10.00	536	200	70 - 130				
<b>Lab Sample ID:</b> 1506525-001EMS	Date Analyzed:		07/06/2015 1447h										
Test Code:	Date Prepared:		06/25/2015 1452h										
Potassium	26.2	mg/L	E200.7	0.247	1.00	10.00	15.8	104	70 - 130				
Vanadium	0.207	mg/L	E200.7	0.00116	0.00500	0.2000	0	104	70 - 130				
<b>Lab Sample ID:</b> 1506525-001EMS	Date Analyzed:		07/08/2015 1155h										
Test Code:	Date Prepared:		06/25/2015 1452h										
Magnesium	144	mg/L	E200.7	0.294	10.0	10.00	131	127	70 - 130				
<b>Lab Sample ID:</b> 1506524-001AMS	Date Analyzed:		07/06/2015 1236h										
Test Code:	Date Prepared:		06/25/2015 1452h										
Arsenic	0.211	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000375	105	75 - 125				
Beryllium	0.203	mg/L	E200.8	0.0000288	0.00200	0.2000	0.000069	102	75 - 125				
Cadmium	0.195	mg/L	E200.8	0.000193	0.000500	0.2000	0	97.5	75 - 125				
Chromium	0.200	mg/L	E200.8	0.00154	0.00200	0.2000	0	100	75 - 125				
Cobalt	0.197	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000588	98.4	75 - 125				
Copper	0.196	mg/L	E200.8	0.000692	0.00200	0.2000	0	98.1	75 - 125				
Iron	1.05	mg/L	E200.8	0.0118	0.100	1.000	0.0571	99.6	75 - 125				
Lead	0.187	mg/L	E200.8	0.000264	0.00200	0.2000	0.000533	93.4	75 - 125				
Manganese	0.349	mg/L	E200.8	0.00153	0.00200	0.2000	0.149	100	75 - 125				
Molybdenum	0.207	mg/L	E200.8	0.000206	0.00200	0.2000	0.00259	102	75 - 125				
Nickel	0.196	mg/L	E200.8	0.000754	0.00200	0.2000	0	98.0	75 - 125				
Selenium	0.194	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000251	96.7	75 - 125				
Silver	0.187	mg/L	E200.8	0.0000244	0.00200	0.2000	0.000766	93.0	75 - 125				
Thallium	0.183	mg/L	E200.8	0.0000242	0.00200	0.2000	0.0000318	91.3	75 - 125				
Zinc	1.04	mg/L	E200.8	0.00476	0.00500	1.000	0.0117	102	75 - 125				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506525-001EMS</b>													
Date Analyzed:		07/06/2015 1319h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Arsenic	0.213	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000482	106	75 - 125				
Beryllium	0.203	mg/L	E200.8	0.0000288	0.00200	0.2000	0	101	75 - 125				
Cadmium	0.195	mg/L	E200.8	0.000193	0.000500	0.2000	0.000369	97.2	75 - 125				
Chromium	0.203	mg/L	E200.8	0.00154	0.00200	0.2000	0	101	75 - 125				
Cobalt	0.198	mg/L	E200.8	0.0000434	0.00400	0.2000	0.00016	98.9	75 - 125				
Copper	0.199	mg/L	E200.8	0.000692	0.00200	0.2000	0.00108	98.9	75 - 125				
Iron	1.00	mg/L	E200.8	0.0118	0.100	1.000	0	100	75 - 125				
Lead	0.184	mg/L	E200.8	0.000264	0.00200	0.2000	0	92.2	75 - 125				
Manganese	0.205	mg/L	E200.8	0.00153	0.00200	0.2000	0.00281	101	75 - 125				
Molybdenum	0.208	mg/L	E200.8	0.000206	0.00200	0.2000	0.000797	104	75 - 125				
Nickel	0.204	mg/L	E200.8	0.000754	0.00200	0.2000	0.00681	98.4	75 - 125				
Selenium	0.199	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00505	97.0	75 - 125				
Silver	0.184	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000286	91.8	75 - 125				
Thallium	0.181	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000687	90.3	75 - 125				
Zinc	1.12	mg/L	E200.8	0.00476	0.00500	1.000	0.0977	102	75 - 125				
<b>Lab Sample ID: 1506524-001AMS</b>													
Date Analyzed:		07/09/2015 1008h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Tin	1.00	mg/L	E200.8	0.000348	0.00200	1.000	0.000878	100	75 - 125				
Uranium	0.197	mg/L	E200.8	0.0000112	0.00200	0.2000	0.00068	98.0	75 - 125				
<b>Lab Sample ID: 1506525-001EMS</b>													
Date Analyzed:		07/09/2015 952h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Tin	1.04	mg/L	E200.8	0.000348	0.00200	1.000	0	104	75 - 125				
Uranium	0.216	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0141	101	75 - 125				
<b>Lab Sample ID: 1506525-001EMS</b>													
Date Analyzed:		06/26/2015 1050h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		06/25/2015 1559h											
Mercury	0.00353	mg/L	E245.1	0.00000892	0.000150	0.003330	0	106	85 - 115				

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Report Date: 7/15/2015 Page 21 of 32



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506525  
**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506525-001EMSD</b>													
Date Analyzed:		07/06/2015 1357h											
Test Code:		200.7-DIS											
Date Prepared:		06/25/2015 1452h											
Calcium	453	mg/L	E200.7	2.00	50.0	10.00	453	1.60	70 - 130	478	5.45	20	±
Sodium	524	mg/L	E200.7	1.65	50.0	10.00	536	-119	70 - 130	556	5.91	20	±
<b>Lab Sample ID: 1506525-001EMSD</b>													
Date Analyzed:		07/06/2015 1449h											
Test Code:		200.7-DIS											
Date Prepared:		06/25/2015 1452h											
Potassium	25.4	mg/L	E200.7	0.247	1.00	10.00	15.8	96.2	70 - 130	26.2	2.97	20	
Vanadium	0.202	mg/L	E200.7	0.00116	0.00500	0.2000	0	101	70 - 130	0.207	2.82	20	
<b>Lab Sample ID: 1506525-001EMSD</b>													
Date Analyzed:		07/08/2015 1158h											
Test Code:		200.7-DIS											
Date Prepared:		06/25/2015 1452h											
Magnesium	139	mg/L	E200.7	0.294	10.0	10.00	131	82.6	70 - 130	144	3.16	20	
<b>Lab Sample ID: 1506524-001AMSD</b>													
Date Analyzed:		07/06/2015 1239h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Arsenic	0.209	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000375	104	75 - 125	0.211	1.13	20	
Beryllium	0.202	mg/L	E200.8	0.0000288	0.00200	0.2000	0.000069	101	75 - 125	0.203	0.882	20	
Cadmium	0.194	mg/L	E200.8	0.000193	0.000500	0.2000	0	97.0	75 - 125	0.195	0.503	20	
Chromium	0.200	mg/L	E200.8	0.00154	0.00200	0.2000	0	100	75 - 125	0.2	0.0383	20	
Cobalt	0.195	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000588	97.0	75 - 125	0.197	1.47	20	
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0	97.7	75 - 125	0.196	0.413	20	
Iron	1.04	mg/L	E200.8	0.0118	0.100	1.000	0.0571	98.1	75 - 125	1.05	1.40	20	
Lead	0.184	mg/L	E200.8	0.000264	0.00200	0.2000	0.000533	91.6	75 - 125	0.187	1.91	20	
Manganese	0.347	mg/L	E200.8	0.00153	0.00200	0.2000	0.149	99.0	75 - 125	0.349	0.772	20	
Molybdenum	0.206	mg/L	E200.8	0.000206	0.00200	0.2000	0.00259	102	75 - 125	0.207	0.628	20	
Nickel	0.193	mg/L	E200.8	0.000754	0.00200	0.2000	0	96.7	75 - 125	0.196	1.36	20	
Selenium	0.189	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000251	94.2	75 - 125	0.194	2.58	20	
Silver	0.186	mg/L	E200.8	0.0000244	0.00200	0.2000	0.000766	92.5	75 - 125	0.187	0.560	20	
Thallium	0.179	mg/L	E200.8	0.0000242	0.00200	0.2000	0.0000318	89.4	75 - 125	0.183	2.10	20	
Zinc	1.03	mg/L	E200.8	0.00476	0.00500	1.000	0.0117	101	75 - 125	1.04	1.03	20	



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Kyle F. Gross  
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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506525  
**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506525-001EMSD</b>													
Date Analyzed:		07/06/2015 1322h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Arsenic	0.210	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000482	105	75 - 125	0.213	1.33	20	
Beryllium	0.198	mg/L	E200.8	0.0000288	0.00200	0.2000	0	98.8	75 - 125	0.203	2.57	20	
Cadmium	0.191	mg/L	E200.8	0.000193	0.000500	0.2000	0.000369	95.3	75 - 125	0.195	1.97	20	
Chromium	0.196	mg/L	E200.8	0.00154	0.00200	0.2000	0	98.0	75 - 125	0.203	3.36	20	
Cobalt	0.192	mg/L	E200.8	0.0000434	0.00400	0.2000	0.00016	96.0	75 - 125	0.198	2.98	20	
Copper	0.193	mg/L	E200.8	0.000692	0.00200	0.2000	0.00108	95.8	75 - 125	0.199	3.11	20	
Iron	0.973	mg/L	E200.8	0.0118	0.100	1.000	0	97.3	75 - 125	1	3.03	20	
Lead	0.178	mg/L	E200.8	0.000264	0.00200	0.2000	0	89.2	75 - 125	0.184	3.35	20	
Manganese	0.197	mg/L	E200.8	0.00153	0.00200	0.2000	0.00281	97.3	75 - 125	0.205	3.56	20	
Molybdenum	0.203	mg/L	E200.8	0.000206	0.00200	0.2000	0.000797	101	75 - 125	0.208	2.25	20	
Nickel	0.198	mg/L	E200.8	0.000754	0.00200	0.2000	0.00681	95.4	75 - 125	0.204	2.99	20	
Selenium	0.193	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00505	93.7	75 - 125	0.199	3.30	20	
Silver	0.181	mg/L	E200.8	0.0000244	0.00200	0.2000	0.0000286	90.5	75 - 125	0.184	1.40	20	
Thallium	0.176	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000687	87.9	75 - 125	0.181	2.67	20	
Zinc	1.09	mg/L	E200.8	0.00476	0.00500	1.000	0.0977	99.3	75 - 125	1.12	2.31	20	
<b>Lab Sample ID: 1506524-001AMSD</b>													
Date Analyzed:		07/09/2015 1012h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0.000878	101	75 - 125	1	0.965	20	
Uranium	0.198	mg/L	E200.8	0.0000112	0.00200	0.2000	0.00068	98.7	75 - 125	0.197	0.625	20	
<b>Lab Sample ID: 1506525-001EMSD</b>													
Date Analyzed:		07/09/2015 955h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Tin	0.948	mg/L	E200.8	0.000348	0.00200	1.000	0	94.8	75 - 125	1.04	9.65	20	
Uranium	0.196	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0141	91.1	75 - 125	0.216	9.78	20	
<b>Lab Sample ID: 1506525-001EMSD</b>													
Date Analyzed:		06/26/2015 1052h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		06/25/2015 1559h											
Mercury	0.00347	mg/L	E245.1	0.00000892	0.000150	0.003330	0	104	85 - 115	0.00353	1.57	20	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** WC

**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-005DDUP</b> Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,580	mg/L	SM2540C	12.3	20.0					1630	3.24	5	
<b>Lab Sample ID: 1506525-001CDUP</b> Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	3,880	mg/L	SM2540C	12.3	20.0					3920	0.821	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506525  
**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-R80397													
Date Analyzed: 07/06/2015 1322h													
Test Code: 300.0-W													
Chloride	5.20	mg/L	E300.0	0.00751	0.100	5.000	0	104	90 - 110				
Fluoride	5.04	mg/L	E300.0	0.00681	0.100	5.000	0	101	90 - 110				
Sulfate	4.81	mg/L	E300.0	0.0211	0.750	5.000	0	96.3	90 - 110				
<b>Lab Sample ID:</b> LCS-R80122													
Date Analyzed: 06/26/2015 1102h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	50,400	mg/L	SM2320B	0.504	1.00	50,000	0	101	90 - 110				
<b>Lab Sample ID:</b> LCS-37805													
Date Analyzed: 06/30/2015 1116h													
Test Code: NH3-W-350.1													
Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	9.00	mg/L	E350.1	0.0226	0.0500	10.00	0	90.0	90 - 110				
<b>Lab Sample ID:</b> LCS-R80357													
Date Analyzed: 07/02/2015 1647h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00833	0.0100	1.000	0	106	90 - 110				
<b>Lab Sample ID:</b> LCS-R80229													
Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	228	mg/L	SM2540C	6.13	10.0	205.0	0	111	80 - 120				



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**Dept:** WC  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB-R80397</b> Date Analyzed: 07/06/2015 1306h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID: MB-R80122</b> Date Analyzed: 06/26/2015 1102h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
<b>Lab Sample ID: MB-37805</b> Date Analyzed: 06/30/2015 1114h													
Test Code: NH3-W-350.1      Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0226	0.0500								
<b>Lab Sample ID: MB-R80357</b> Date Analyzed: 07/02/2015 1644h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID: MB-R80229</b> Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-005CMS</b> Date Analyzed: 07/06/2015 1538h													
Test Code: 300.0-W													
Chloride	743	mg/L	E300.0	0.751	10.0	500.0	228	103	90 - 110				
Fluoride	493	mg/L	E300.0	0.681	10.0	500.0	4.15	97.9	90 - 110				
Sulfate	1,190	mg/L	E300.0	2.11	75.0	500.0	691	100	90 - 110				
<b>Lab Sample ID: 1506525-001BMS</b> Date Analyzed: 07/06/2015 1752h													
Test Code: 300.0-W													
Chloride	5,150	mg/L	E300.0	7.51	100	5,000	46.4	102	90 - 110				
Fluoride	4,900	mg/L	E300.0	6.81	100	5,000	0	98.0	90 - 110				
Sulfate	7,720	mg/L	E300.0	21.1	750	5,000	2650	101	90 - 110				
<b>Lab Sample ID: 1506525-001BMS</b> Date Analyzed: 06/26/2015 1102h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	1,490	mg/L	SM2320B	0.504	1.00	1,260	219	101	80 - 120				
<b>Lab Sample ID: 1506524-004BMS</b> Date Analyzed: 06/30/2015 1120h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.8	mg/L	E350.1	0.0226	0.0500	10.00	0.0997	107	90 - 110				
<b>Lab Sample ID: 1506525-001DMS</b> Date Analyzed: 06/30/2015 1129h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.4	mg/L	E350.1	0.0226	0.0500	10.00	0.0688	103	90 - 110				
<b>Lab Sample ID: 1506524-003BMS NO3</b> Date Analyzed: 07/02/2015 1743h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.45	mg/L	E353.2	0.00833	0.0100	1.000	0.588	86.3	90 - 110				1
<b>Lab Sample ID: 1506525-001DMS NO3</b> Date Analyzed: 07/02/2015 1759h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.17	mg/L	E353.2	0.00833	0.0100	1.000	0.227	94.2	90 - 110				

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-005CMSD</b> Date Analyzed: 07/06/2015 1554h													
Test Code: 300.0-W													
Chloride	753	mg/L	E300.0	0.751	10.0	500.0	228	105	90 - 110	743	1.37	20	
Fluoride	504	mg/L	E300.0	0.681	10.0	500.0	4.15	100	90 - 110	493	2.18	20	
Sulfate	1,190	mg/L	E300.0	2.11	75.0	500.0	691	100	90 - 110	1190	0.101	20	
<b>Lab Sample ID: 1506525-001BMSD</b> Date Analyzed: 07/06/2015 1809h													
Test Code: 300.0-W													
Chloride	5,150	mg/L	E300.0	7.51	100	5,000	46.4	102	90 - 110	5150	0.0203	20	
Fluoride	4,910	mg/L	E300.0	6.81	100	5,000	0	98.3	90 - 110	4900	0.250	20	
Sulfate	7,680	mg/L	E300.0	21.1	750	5,000	2650	101	90 - 110	7720	0.417	20	
<b>Lab Sample ID: 1506525-001BMSD</b> Date Analyzed: 06/26/2015 1102h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	1,480	mg/L	SM2320B	0.504	1.00	1,260	219	100	80 - 120	1490	0.587	10	
<b>Lab Sample ID: 1506524-004BMSD</b> Date Analyzed: 06/30/2015 1122h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.7	mg/L	E350.1	0.0226	0.0500	10.00	0.0997	106	90 - 110	10.8	0.934	10	
<b>Lab Sample ID: 1506525-001DMSD</b> Date Analyzed: 06/30/2015 1136h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.3	mg/L	E350.1	0.0226	0.0500	10.00	0.0688	103	90 - 110	10.4	0.290	10	
<b>Lab Sample ID: 1506524-003BMSD NO3</b> Date Analyzed: 07/02/2015 1752h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.44	mg/L	E353.2	0.00833	0.0100	1.000	0.588	85.4	90 - 110	1.45	0.622	10	
<b>Lab Sample ID: 1506525-001DMSD NO3</b> Date Analyzed: 07/02/2015 1800h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.15	mg/L	E353.2	0.00833	0.0100	1.000	0.227	92.6	90 - 110	1.17	1.38	10	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-1 062515A													
Date Analyzed: 06/25/2015 749h													
Test Code: 8260-W-DEN100													
Benzene	23.1	µg/L	SW8260C	0.270	1.00	20.00	0	115	62 - 127				
Chloroform	22.8	µg/L	SW8260C	0.153	1.00	20.00	0	114	67 - 132				
Methylene chloride	20.6	µg/L	SW8260C	0.172	1.00	20.00	0	103	32 - 185				
Naphthalene	18.5	µg/L	SW8260C	0.587	1.00	20.00	0	92.4	28 - 136				
Tetrahydrofuran	17.5	µg/L	SW8260C	0.516	1.00	20.00	0	87.4	43 - 146				
Toluene	23.0	µg/L	SW8260C	0.183	1.00	20.00	0	115	64 - 129				
Xylenes, Total	62.5	µg/L	SW8260C	0.857	1.00	60.00	0	104	52 - 134				
Surr: 1,2-Dichloroethane-d4	45.9	µg/L	SW8260C			50.00		91.9	76 - 138				
Surr: 4-Bromofluorobenzene	46.8	µg/L	SW8260C			50.00		93.6	80 - 152				
Surr: Dibromofluoromethane	45.8	µg/L	SW8260C			50.00		91.7	67 - 128				
Surr: Toluene-d8	46.1	µg/L	SW8260C			50.00		92.1	81 - 135				



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**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB VOC-1 062515A</b>		Date Analyzed: 06/25/2015 828h											
<b>Test Code: 8260-W-DEN100</b>													
2-Butanone	< 20.0	µg/L	SW8260C	4.11	20.0								
Acetone	< 20.0	µg/L	SW8260C	1.70	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	48.2	µg/L	SW8260C			50.00		96.4	76 - 138				
Surr: 4-Bromofluorobenzene	48.0	µg/L	SW8260C			50.00		96.0	80 - 152				
Surr: Dibromofluoromethane	47.1	µg/L	SW8260C			50.00		94.2	67 - 128				
Surr: Toluene-d8	47.2	µg/L	SW8260C			50.00		94.4	81 - 135				



3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687  
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506525

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-003DMS</b>		Date Analyzed: 06/25/2015 1630h											
Test Code: 8260-W-DEN100													
Benzene	2,360	µg/L	SW8260C	27.0	100	2,000	0	118	66 - 145				
Chloroform	4,890	µg/L	SW8260C	15.3	100	2,000	2610	114	50 - 146				
Methylene chloride	2,230	µg/L	SW8260C	17.2	100	2,000	0	111	30 - 192				
Naphthalene	1,710	µg/L	SW8260C	58.7	100	2,000	0	85.4	41 - 131				
Tetrahydrofuran	2,080	µg/L	SW8260C	51.6	100	2,000	0	104	43 - 146				
Toluene	2,250	µg/L	SW8260C	18.3	100	2,000	0	113	18 - 192				
Xylenes, Total	6,090	µg/L	SW8260C	85.7	100	6,000	0	102	42 - 167				
Surr: 1,2-Dichloroethane-d4	4,730	µg/L	SW8260C			5,000		94.7	72 - 151				
Surr: 4-Bromofluorobenzene	4,700	µg/L	SW8260C			5,000		94.1	80 - 152				
Surr: Dibromofluoromethane	4,650	µg/L	SW8260C			5,000		93.0	80 - 124				
Surr: Toluene-d8	4,540	µg/L	SW8260C			5,000		90.7	77 - 129				
<b>Lab Sample ID: 1506525-002AMS</b>		Date Analyzed: 06/25/2015 1729h											
Test Code: 8260-W-DEN100													
Benzene	22.4	µg/L	SW8260C	0.270	1.00	20.00	0	112	66 - 145				
Chloroform	21.9	µg/L	SW8260C	0.153	1.00	20.00	0	109	50 - 146				
Methylene chloride	20.6	µg/L	SW8260C	0.172	1.00	20.00	0	103	30 - 192				
Naphthalene	16.5	µg/L	SW8260C	0.587	1.00	20.00	0	82.5	41 - 131				
Tetrahydrofuran	21.6	µg/L	SW8260C	0.516	1.00	20.00	0	108	43 - 146				
Toluene	21.2	µg/L	SW8260C	0.183	1.00	20.00	0	106	18 - 192				
Xylenes, Total	58.1	µg/L	SW8260C	0.857	1.00	60.00	0	96.9	42 - 167				
Surr: 1,2-Dichloroethane-d4	47.8	µg/L	SW8260C			50.00		95.6	72 - 151				
Surr: 4-Bromofluorobenzene	46.9	µg/L	SW8260C			50.00		93.7	80 - 152				
Surr: Dibromofluoromethane	46.7	µg/L	SW8260C			50.00		93.3	80 - 124				
Surr: Toluene-d8	46.2	µg/L	SW8260C			50.00		92.4	77 - 129				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Lab Set ID:** 1506525

**Dept:** MSVOA

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-003DMSD</b>													
Date Analyzed: 06/25/2015 1650h													
Test Code: 8260-W-DEN100													
Benzene	2,260	µg/L	SW8260C	27.0	100	2,000	0	113	66 - 145	2360	4.64	25	
Chloroform	4,710	µg/L	SW8260C	15.3	100	2,000	2610	105	50 - 146	4890	3.83	25	
Methylene chloride	2,190	µg/L	SW8260C	17.2	100	2,000	0	109	30 - 192	2230	1.86	25	
Naphthalene	1,710	µg/L	SW8260C	58.7	100	2,000	0	85.4	41 - 131	1710	0	25	
Tetrahydrofuran	2,080	µg/L	SW8260C	51.6	100	2,000	0	104	43 - 146	2080	0.481	25	
Toluene	2,200	µg/L	SW8260C	18.3	100	2,000	0	110	18 - 192	2250	2.47	25	
Xylenes, Total	5,900	µg/L	SW8260C	85.7	100	6,000	0	98.3	42 - 167	6090	3.19	25	
Surr: 1,2-Dichloroethane-d4	4,720	µg/L	SW8260C			5,000		94.4	72 - 151				
Surr: 4-Bromofluorobenzene	4,600	µg/L	SW8260C			5,000		92.0	80 - 152				
Surr: Dibromofluoromethane	4,590	µg/L	SW8260C			5,000		91.9	80 - 124				
Surr: Toluene-d8	4,530	µg/L	SW8260C			5,000		90.5	77 - 129				
<b>Lab Sample ID: 1506525-002AMSD</b>													
Date Analyzed: 06/25/2015 1749h													
Test Code: 8260-W-DEN100													
Benzene	23.9	µg/L	SW8260C	0.270	1.00	20.00	0	120	66 - 145	22.4	6.70	25	
Chloroform	23.5	µg/L	SW8260C	0.153	1.00	20.00	0	118	50 - 146	21.9	7.19	25	
Methylene chloride	22.0	µg/L	SW8260C	0.172	1.00	20.00	0	110	30 - 192	20.6	6.58	25	
Naphthalene	19.1	µg/L	SW8260C	0.587	1.00	20.00	0	95.6	41 - 131	16.5	14.7	25	
Tetrahydrofuran	24.0	µg/L	SW8260C	0.516	1.00	20.00	0	120	43 - 146	21.6	10.3	25	
Toluene	23.6	µg/L	SW8260C	0.183	1.00	20.00	0	118	18 - 192	21.2	10.4	25	
Xylenes, Total	63.9	µg/L	SW8260C	0.857	1.00	60.00	0	106	42 - 167	58.1	9.44	25	
Surr: 1,2-Dichloroethane-d4	47.4	µg/L	SW8260C			50.00		94.7	72 - 151				
Surr: 4-Bromofluorobenzene	47.2	µg/L	SW8260C			50.00		94.3	80 - 152				
Surr: Dibromofluoromethane	46.7	µg/L	SW8260C			50.00		93.4	80 - 124				
Surr: Toluene-d8	47.0	µg/L	SW8260C			50.00		94.1	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1506525** Page 1 of 3

**Client:** Energy Fuels Resources, Inc.

Due Date: 7/10/2015

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2015 Re Sample

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals were field filtered.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1506525-001A	MW-37_06242015	6/24/2015 0820h	6/25/2015 0905h	8260-W-DEN100	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
1506525-001B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			
				<i>2 SEL Analytes: ALKB ALKC</i>			
1506525-001C				TDS-W-2540C		ww - tds	
				<i>1 SEL Analytes: TDS</i>			
1506525-001D				NH3-W-350.1		df - no2/no3 & nh3	
				<i>1 SEL Analytes: NH3N</i>			
				NH3-W-PR			
				df - no2/no3 & nh3			
				NO2/NO3-W-353.2			
				<i>1 SEL Analytes: NO3NO2N</i>			
1506525-001E				200.7-DIS		df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			
				df-met			
				200.8-DIS			
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR			
				df-met			
				HG-DW-DIS-245.1			
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			
				df-met			
				IONBALANCE			
				df-met			
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1506525-002A	MW-20_06242015	6/24/2015 0840h	6/25/2015 0905h	8260-W-DEN100	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>			
1506525-002B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			
				<i>2 SEL Analytes: ALKB ALKC</i>			

# WORK ORDER Summary

Work Order: **1506525** Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 7/10/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1506525-002C	MW-20_06242015	6/24/2015 0840h	6/25/2015 0905h	TDS-W-2540C <i>1 SEL Analytes: TDS</i>	Aqueous	ww - tds	1
1506525-002D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1506525-002E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1506525-003A	MW-24_06242015	6/24/2015 0900h	6/25/2015 0905h	8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
1506525-003B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
1506525-003C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - tds	
1506525-003D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3 & nh3	
				NH3-W-PR		df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1506525-003E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	

# WORK ORDER Summary

Work Order: **1506525** Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 7/10/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506525-003E	MW-24_06242015	6/24/2015 0900h	6/25/2015 0905h	HG-DW-DIS-245.1	Aqueous		df-met	1
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1506525-004A	Trip Blank	6/24/2015	6/25/2015 0905h	8260-W-DEN100	Aqueous		VOCFridge	3
				<i>Test Group: 8260-W-DEN100; # of Analytes: 11 / # of Surr: 4</i>				



**American West  
Analytical Laboratories**

463 W. 3600 S. Salt Lake City, UT 84115  
 Phone # (801) 263-8686 Toll Free # (888) 263-8686  
 Fax # (801) 263-8687 Email awal@awal-labs.com  
 www.awal-labs.com

**CHAIN OF CUSTODY**

All analysis will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (PQL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

1506525  
 AWAL Lab Sample Set #  
 Page 1 of 1

Client: **Energy Fuels Resources, Inc.**  
 Address: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 Contact: **Garrin Palmer**  
 Phone #: **(435) 678-2221** Cell #: **4354599463**  
 Email: **gpalmer@energyfuels.com; kweinel@energyfuels.com; dturk@energyfuels.com**  
 Project Name: **2nd Quarter Groundwater 2015 Re Sample**  
 Project #:  
 PO #:  
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:	
3		Standard				7/10/15	
Sample Matrix		Field Filtered For:		For Compliance With:		Laboratory Use Only	
NO2/NO3 (353.2)		Dissolved Metals		<input checked="" type="checkbox"/> Include EDD: <b>LOCUS UPLOAD EXCEL</b> <input checked="" type="checkbox"/> Field Filtered For: <b>Dissolved Metals</b>		Samples Were: 1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <b>2.0</b> °C 4 Received Broken/Leaking (Improperly Sealed) Y N 5 Properly Preserved Y N Checked at bench Y N 6 Received Within Holding Times Y N	
NHS (4500G or 350.1)		As, Bc, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Sc, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca		<input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:		Known Hazards & Sample Comments	
Fl. Cl. SO4 (4500 or 300.0)		Ion Balance				VOCs (8260C)	
TDS (2540C)						COC Tape Was: 1 Present on Outer Package Y N NA 2 Unbroken on Outer Package Y N NA 3 Present on Sample Y N NA 4 Unbroken on Sample Y N NA Discrepancies Between Sample Labels and COC Record? Y N	
Carb/Bicarb (2320B)							
Dissolved Metals (200.7 / 200.8 / 245.1)							
# of Containers							
7							
Sample Matrix							
NO2/NO3 (353.2)							
NHS (4500G or 350.1)							
Fl. Cl. SO4 (4500 or 300.0)							
TDS (2540C)							
Carb/Bicarb (2320B)							
Dissolved Metals (200.7 / 200.8 / 245.1)							
As, Bc, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Sc, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca							
Ion Balance							
VOCs (8260C)							
Sample ID:		Date Sampled		Time Sampled			
1 MW-37_06242015		6/24/2015		820			
2 MW-20_06242015		6/24/2015		840			
3 MW-24_06242015		6/24/2015		900			
4 Temp Blank		6/24/2015					
5 Trip Blank		6/24/2015					
6							
7							
8							
9							
10							
11							
12							

Relinquished by: Signature: <i>Garrin Palmer</i>	Date: <i>6/25/15</i>	Received by: Signature: <i>Denise Brown</i>	Date: <i>6/25/15</i>	Special Instructions:  Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: <i>Garrin Palmer</i>	Time: <i>0905</i>	Print Name: <i>Denise Brown</i>	Time: <i>0905</i>	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	
Relinquished by: Signature:	Date:	Received by: Signature:	Date:	
Print Name:	Time:	Print Name:	Time:	

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003															
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes	yes	yes															
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO <sub>3</sub>	yes	yes	yes															
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes	yes	yes															
O & G	pH <2 HCL																		
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																		

- Procedure:
- 1) Pour a small amount of sample in the sample lid
  - 2) Pour sample from Lid gently over wide range pH paper
  - 3) **Do Not** dip the pH paper in the sample bottle or lid
  - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
  - 5) Flag COC, notify client if requested
  - 6) Place client conversation on COC
  - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- \* The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > \_\_\_\_ due to the sample matrix interference.



May 11, 2015

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 370955

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 14, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 370955**

**May 11, 2015**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary:**

**Sample receipt:** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on April 14, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
370955001	MW-11_04082015
370955002	MW-14_04082015
370955003	MW-25_04072015
370955004	MW-26_04092015
370955005	MW-30_04082015
370955006	MW-31_04072015
370955007	MW-32_04082015
370955008	MW-35_04092015
370955009	MW-65_04092015

**Case Narrative:**

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

*Julie Robinson*

Julie Robinson  
Project Manager



370955

# CHAIN OF CUSTODY

**Samples Shipped to:** Gel Laboratories 2040 Savage Road Charleston, SC 29407 **Contact:** Garrin Palmer Ph: 435.678.4115 gpalmer@energyfuels.com

## Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
2ND Quarter Groundwater 2015	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-11_04082015	4/8/2015	1135	Gross Alpha
MW-14_04082015	4/8/2015	1505	Gross Alpha
MW-25_04072015	4/7/2015	1315	Gross Alpha
MW-26_04092015	4/9/2015	730	Gross Alpha
MW-30_04082015	4/8/2015	1625	Gross Alpha
MW-31_04072015	4/7/2015	1430	Gross Alpha
MW-32_04082015	4/8/2015	1210	Gross Alpha
MW-35_04092015	4/9/2015	755	Gross Alpha
MW-65_04092015	4/9/2015	755	Gross Alpha
			Gross Alpha
Comments: Please send report to Kathy Weinel at <a href="mailto:kweinel@energyfuels.com">kweinel@energyfuels.com</a>			

Relinquished By:(Signature) <i>Tanner Holliday</i>	Date/Time 4/9/2015 1100	Received By:(Signature) <i>Alan...</i>	Date/Time 4-9-15 8:50
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>D NMAI</u>		SDG/AR/COC/Work Order: <u>370955</u>
Received By: <u>Shanta Mack</u>		Date Received: <u>4-17-15 8:50</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>516 grd.</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____
Samples identified as Foreign Soil?	<input type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Ice bags <u>Blue ice</u> Dry ice None Other (describe) *all temperatures are recorded in Celsius <u>20C</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <u>E4092024947</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 VOA vials free of headspace (defined as < 6mm bubble)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
8 Are Encore containers present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
9 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
10 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
11 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
12 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
13 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15 Carrier and tracking number.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>8064 8112 5045</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 11-MAY-15  
 Work Order: 370955  
 Page 1 of 2

GEL Work Order/SDG: 370955      2nd Quarter GW 2015  
 Client SDG: 370955  
 Project Manager: Julie Robinson  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 12-MAY-15  
 Package Due Date: 09-MAY-15  
 EDD Due Date: 12-MAY-15  
 Due Date: 12-MAY-15  
 JAR1

Collector: C  
 Prelogin #: 20150429171  
 Project Workdef ID: 1294356  
 SDG Status: Closed  
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
370955001	MW-11_04082015		08-APR-15 11:35	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955002	MW-14_04082015		08-APR-15 15:05	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955003	MW-25_04072015		07-APR-15 13:15	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955004	MW-26_04092015		09-APR-15 07:30	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955005	MW-30_04082015		08-APR-15 16:25	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955006	MW-31_04072015		07-APR-15 14:30	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955007	MW-32_04082015		08-APR-15 12:10	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955008	MW-35_04092015		09-APR-15 07:55	14-APR-15 08:50	-2	1	GROUND WATER		20		1		
370955009	MW-65_04092015		09-APR-15 07:55	14-APR-15 08:50	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-11_04082015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-002 MW-14_04082015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-003 MW-25_04072015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-004 MW-26_04092015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-005 MW-30_04082015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-006 MW-31_04072015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-007 MW-32_04082015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-008 MW-35_04092015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-009 MW-65_04092015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	Y

# GEL Laboratories LLC – Login Review Report

Report Date: 11-MAY-15  
 Work Order: 370955  
 Page 2 of 2

Temperature (C) 20

**Product:** GFCTORAL    **Workdef ID:** 1297250    **In Product Group?** No    **Group Name:**    **Group Reference:**  
**Method:** EPA 900.1 Modified    **Path:** Standard  
**Product Description:** GFPC, Total Alpha Radium, Liquid    **Product Reference:** Gross Alpha  
**Samples:** 001, 002, 003, 004, 005, 006, 007, 008, 009    **Moisture Correction:** "As Received"  
**Parmname Check:** All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action	Product Name	Description	Samples
Contingent Tests			

**Login Requirements:**

Requirement	Include?	Comments

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**Radiochemistry  
Technical Case Narrative  
Energy Fuels Resources (DNMI)  
SDG #: 370955**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1475925

<b>Sample ID</b>	<b>Client ID</b>
370955001	MW-11_04082015
370955002	MW-14_04082015
370955003	MW-25_04072015
370955004	MW-26_04092015
370955005	MW-30_04082015
370955006	MW-31_04072015
370955007	MW-32_04082015
370955008	MW-35_04092015
370955009	MW-65_04092015
1203311316	Method Blank (MB)
1203311320	Laboratory Control Sample (LCS)
1203311317	370955008(MW-35_04092015) Sample Duplicate (DUP)
1203311318	370955008(MW-35_04092015) Matrix Spike (MS)
1203311319	370955008(MW-35_04092015) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

### **Quality Control (QC) Information:**

#### **Blank Information**

The blank volume is representative of the sample volume in this batch.

#### **Designated QC**

The following sample was used for QC: 370955008 (MW-35\_04092015).

#### **QC Information**

All of the QC samples met the required acceptance limits.

### **Technical Information:**

#### **Holding Time**

All sample procedures for this sample set were performed within the required holding time.

#### **Sample Re-prep/Re-analysis**

Samples were reprepared due to high recovery. The re-analysis is being reported.

#### **Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

#### **Recounts**

None of the samples in this sample set were recounted.

### **Miscellaneous Information:**

#### **Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

#### **Manual Integration**

No manual integrations were performed on data in this batch.

#### **Sample-Specific MDA/MDC**

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

#### **Additional Comments**

The matrix spike and matrix spike duplicate, 1203311318 (MW-35\_04092015MS) and 1203311319 (MW-35\_04092015MSD), aliquots were reduced to conserve sample volume.

### **Qualifier Information**

Manual qualifiers were not required.

### **Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 370955 GEL Work Order: 370955

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

**Signature:** 

**Name:** Kate Gellatly

**Date:** 11 MAY 2015

**Title:** Analyst I

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: May 11, 2015

Page 1 of 2

**Energy Fuels Resources (USA), Inc.**  
**225 Union Boulevard**  
**Suite 600**  
**Lakewood, Colorado**

**Contact: Ms. Kathy Weinel**

**Workorder: 370955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1475925										
QC1203311317	370955008	DUP									
Gross Radium Alpha		4.25		4.15	pCi/L	2.34		(0%-20%)	AXM6	05/05/15	16:53
	Uncertainty	+/-0.621		+/-0.551							
QC1203311320	LCS										
Gross Radium Alpha	413			411	pCi/L		99.6	(75%-125%)		05/05/15	16:52
	Uncertainty			+/-5.98							
QC1203311316	MB										
Gross Radium Alpha			U	0.0971	pCi/L					05/05/15	16:54
	Uncertainty			+/-0.216							
QC1203311318	370955008	MS									
Gross Radium Alpha	836	4.25		709	pCi/L		84.3	(75%-125%)		05/05/15	16:52
	Uncertainty	+/-0.621		+/-12.1							
QC1203311319	370955008	MSD									
Gross Radium Alpha	836	4.25		739	pCi/L	4.25	88	(0%-20%)		05/05/15	16:52
	Uncertainty	+/-0.621		+/-10.7							

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).  
 The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 370955

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the CRDL.									
UI		Gamma Spectroscopy--Uncertain identification									
UJ		Gamma Spectroscopy--Uncertain identification									
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y		QC Samples were not spiked with this compound									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h		Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.  
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



May 13, 2015

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 371248

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 17, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative**  
**for**  
**Energy Fuels Resources (USA), Inc.**  
**SDG: 371248**

**May 13, 2015**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary:**

**Sample receipt:** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on April 17, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
371248001	MW-01_04152015
371248002	MW-15_04132015
371248003	MW-18_04152015
371248004	MW-19_04142015
371248005	MW-36_04162015

**Case Narrative:**

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

*Julie Robinson*

Julie Robinson  
Project Manager



**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DMI</u>		SDG/AR/COC/Work Order: <u>371248</u>
Received By: <u>Shanta Mack</u>		Date Received: <u>4-17-15 8:55</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>30 cpm</u>
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>		Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>78c</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: <u>If Preservation added, Lot#:</u>
6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7 VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
8 Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
9 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
10 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
11 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
13 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
14 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
15 Carrier and tracking number.				Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other  <u>8064 40716601</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 13-MAY-15  
 Work Order: 371248  
 Page 1 of 2

GEL Work Order/SDG: 371248      2nd Quarter GW 2015  
 Client SDG: 371248  
 Project Manager: Julie Robinson  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 15-MAY-15  
 Package Due Date: 12-MAY-15  
 EDD Due Date: 15-MAY-15  
 Due Date: 15-MAY-15  
 JAR1

Collector: C  
 Prelogin #: 20150429171  
 Project Workdef ID: 1294356  
 SDG Status: Closed  
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
371248001	MW-01_04152015		15-APR-15 16:35	17-APR-15 08:55	-2	1	GROUND WATER		20		1		
371248002	MW-15_04132015		13-APR-15 15:30	17-APR-15 08:55	-2	1	GROUND WATER		20		1		
371248003	MW-18_04152015		15-APR-15 13:10	17-APR-15 08:55	-2	1	GROUND WATER		20		1		
371248004	MW-19_04142015		14-APR-15 15:25	17-APR-15 08:55	-2	1	GROUND WATER		20		1		
371248005	MW-36_04162015		16-APR-15 08:00	17-APR-15 08:55	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-01_04152015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 18
-002 MW-15_04132015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 18
-003 MW-18_04152015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 18
-004 MW-19_04142015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 18
-005 MW-36_04162015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 18

<b>Product:</b> GFCTORAL	<b>Workdef ID:</b> 1297250	<b>In Product Group?</b> No	<b>Group Name:</b>	<b>Group Reference:</b>			
<b>Method:</b> EPA 900.1 Modified				<b>Path:</b> Standard			
<b>Product Description:</b> GFPC, Total Alpha Radium, Liquid				<b>Product Reference:</b> Gross Alpha			
<b>Samples:</b> 001, 002, 003, 004, 005				<b>Moisture Correction:</b> "As Received"			
<b>Parmname Check:</b> All parmnames scheduled properly							
<b>CAS #</b>	<b>Parmname</b>	<b>Client RDL or PQL &amp; Unit</b>	<b>Reporting Units</b>	<b>Parm Function</b>	<b>Included in Sample?</b>	<b>Included in QC?</b>	<b>Custom List?</b>
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

# GEL Laboratories LLC – Login Review Report

Report Date: 13-MAY-15  
Work Order: 371248  
Page 2 of 2

Action	Product Name	Description	Samples
<b>Contingent Tests</b>			

## Login Requirements:

Requirement	Include?	Comments
-------------	----------	----------

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**Radiochemistry  
Technical Case Narrative  
Energy Fuels Resources (DNMI)  
SDG #: 371248**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1475925

<b>Sample ID</b>	<b>Client ID</b>
371248001	MW-01_04152015
371248002	MW-15_04132015
371248003	MW-18_04152015
371248004	MW-19_04142015
371248005	MW-36_04162015
1203311316	Method Blank (MB)
1203311320	Laboratory Control Sample (LCS)
1203311317	370955008(MW-35_04092015) Sample Duplicate (DUP)
1203311318	370955008(MW-35_04092015) Matrix Spike (MS)
1203311319	370955008(MW-35_04092015) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 370955008 (MW-35\_04092015).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:****Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

Samples were re-prepped due to high recovery. The re-analysis is being reported.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Recounts**

Sample 371248002 (MW-15\_04132015) was recounted due to high MDC. The recount is reported.

**Miscellaneous Information:****Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Manual Integration**

No manual integrations were performed on data in this batch.

**Sample-Specific MDA/MDC**

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1203311318 (MW-35\_04092015MS) and 1203311319 (MW-35\_04092015MSD), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 371248 GEL Work Order: 371248

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Kate Gellatly

Date: 12 MAY 2015

Title: Analyst I

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: May 12, 2015

Page 1 of 2

**Energy Fuels Resources (USA), Inc.**  
**225 Union Boulevard**  
**Suite 600**  
**Lakewood, Colorado**

**Contact: Ms. Kathy Weinel**

**Workorder: 371248**

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1475925										
QC1203311317	370955008	DUP									
Gross Radium Alpha		4.25		4.15	pCi/L	2.34		(0%-20%)	AXM6	05/05/15	16:53
	Uncertainty	+/-0.621		+/-0.551							
QC1203311320	LCS										
Gross Radium Alpha	413			411	pCi/L		99.6	(75%-125%)		05/05/15	16:52
	Uncertainty			+/-5.98							
QC1203311316	MB										
Gross Radium Alpha			U	0.0971	pCi/L					05/05/15	16:54
	Uncertainty			+/-0.216							
QC1203311318	370955008	MS									
Gross Radium Alpha	836	4.25		709	pCi/L		84.3	(75%-125%)		05/05/15	16:52
	Uncertainty	+/-0.621		+/-12.1							
QC1203311319	370955008	MSD									
Gross Radium Alpha	836	4.25		739	pCi/L	4.25	88	(0%-20%)		05/05/15	16:52
	Uncertainty	+/-0.621		+/-10.7							

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 371248

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the CRDL.									
UI		Gamma Spectroscopy--Uncertain identification									
UJ		Gamma Spectroscopy--Uncertain identification									
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y		QC Samples were not spiked with this compound									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h		Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



May 18, 2015

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 371879

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 28, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative**  
**for**  
**Energy Fuels Resources (USA), Inc.**  
**SDG: 371879**

**May 18, 2015**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary:**

**Sample receipt:** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on April 28, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
371879001	MW-02_04212015
371879002	MW-03_04232015
371879003	MW-03A_04232015
371879004	MW-05_04212015
371879005	MW-12_04212015
371879006	MW-17_04222015
371879007	MW-22_04222015
371879008	MW-27_04202015
371879009	MW-28_04212015

**Case Narrative:**

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

*Julie Robinson*

Julie Robinson  
Project Manager

371879



Sheet 1 of 2

# CHAIN OF CUSTODY

**Samples Shipped to:** Gel Laboratories **Contact:** Garrin Palmer  
2040 Savage Road Ph: 435.678.4115  
Charleston, SC 29407 gpalmer@energyfuels.com

## Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
2ND Quarter Groundwater 2015	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-02_04212015	4/21/2015	1535	Gross Alpha
MW-03_04232015	4/23/2015	830	Gross Alpha
MW-03A_04232015	4/23/2015	715	Gross Alpha
MW-05_04212015	4/21/2015	1200	Gross Alpha
MW-12_04212015	4/21/2015	1550	Gross Alpha
MW-17_04222015	4/22/2015	1205	Gross Alpha
MW-22_04222015	4/22/2015	1150	Gross Alpha
MW-27_04202015	4/20/2015	1520	Gross Alpha
MW-28_04212015	4/21/2015	1135	Gross Alpha
Comments: Please send report to Kathy Weinel at <a href="mailto:kweinel@energyfuels.com">kweinel@energyfuels.com</a>			

Relinquished By:(Signature) <i>Tanner Holliday</i>	Date/Time 4/23/2015 100	Received By:(Signature) <i>Shirley Mink</i>	Date/Time 4/23/15 8:50
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DMNI</u>		SDG/AR/COC/Work Order: <u>371879</u>
Received By: <u>Shark Maki</u>		Date Received: <u>4-28-15 8:50</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>64pm</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input type="checkbox"/>	<input type="checkbox"/>		Preservation Method: Ice bags <u>Blue ice</u> Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>20 C</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required?	<input type="checkbox"/>	<input type="checkbox"/>		Sample ID's and containers affected:
7 VOA vials free of headspace (defined as < 6mm bubble)?	<input type="checkbox"/>	<input type="checkbox"/>		Sample ID's and containers affected:
8 Are Encore containers present?	<input type="checkbox"/>	<input type="checkbox"/>		(If yes, immediately deliver to Volatiles laboratory)
9 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
10 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
11 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
13 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
14 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
15 Carrier and tracking number.				Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8064 8112 5623</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 18-MAY-15  
 Work Order: 371879  
 Page 1 of 2

GEL Work Order/SDG: 371879      2nd Quarter GW 2015  
 Client SDG: 371879  
 Project Manager: Julie Robinson  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 26-MAY-15  
 Package Due Date: 23-MAY-15  
 EDD Due Date: 26-MAY-15  
 Due Date: 26-MAY-15  
 JAR1

Collector: C  
 Prelogin #: 20150429171  
 Project Workdef ID: 1294356  
 SDG Status: Closed  
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
371879001	MW-02_04212015		21-APR-15 15:35	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879002	MW-03_04232015		23-APR-15 08:30	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879003	MW-03A_04232015		23-APR-15 07:15	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879004	MW-05_04212015		21-APR-15 12:00	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879005	MW-12_04212015		21-APR-15 15:50	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879006	MW-17_04222015		22-APR-15 12:05	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879007	MW-22_04222015		22-APR-15 11:50	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879008	MW-27_04202015		20-APR-15 15:20	28-APR-15 08:50	-2	1	GROUND WATER		20		1		
371879009	MW-28_04212015		21-APR-15 11:35	28-APR-15 08:50	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-02_04212015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-002 MW-03_04232015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-003 MW-03A_04232015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-004 MW-05_04212015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-005 MW-12_04212015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-006 MW-17_04222015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-007 MW-22_04222015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-008 MW-27_04202015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 20
-009 MW-28_04212015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	Y

# GEL Laboratories LLC – Login Review Report

Report Date: 18-MAY-15  
 Work Order: 371879  
 Page 2 of 2

Temperature (C) 20

**Product:** GFCTORAL    **Workdef ID:** 1297250    **In Product Group?** No    **Group Name:**    **Group Reference:**  
**Method:** EPA 900.1 Modified    **Path:** Standard  
**Product Description:** GFPC, Total Alpha Radium, Liquid    **Product Reference:** Gross Alpha  
**Samples:** 001, 002, 003, 004, 005, 006, 007, 008, 009    **Moisture Correction:** "As Received"  
**Parmname Check:** All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action	Product Name	Description	Samples
Contingent Tests			

**Login Requirements:**

Requirement	Include?	Comments

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**Radiochemistry  
Technical Case Narrative  
Energy Fuels Resources (DNMI)  
SDG #: 371879**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1478354

<b>Sample ID</b>	<b>Client ID</b>
371879001	MW-02_04212015
371879002	MW-03_04232015
371879003	MW-03A_04232015
371879004	MW-05_04212015
371879005	MW-12_04212015
371879006	MW-17_04222015
371879007	MW-22_04222015
371879008	MW-27_04202015
371879009	MW-28_04212015
1203317679	Method Blank (MB)
1203317683	Laboratory Control Sample (LCS)
1203317680	371879008(MW-27_04202015) Sample Duplicate (DUP)
1203317681	371879008(MW-27_04202015) Matrix Spike (MS)
1203317682	371879008(MW-27_04202015) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 371879008 (MW-27\_04202015).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:**

**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Recounts**

None of the samples in this sample set were recounted.

**Miscellaneous Information:**

**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Sample-Specific MDA/MDC**

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1203317681 (MW-27\_04202015MS) and 1203317682 (MW-27\_04202015MSD), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 371879 GEL Work Order: 371879

**The Qualifiers in this report are defined as follows:**

\* A quality control analyte recovery is outside of specified acceptance criteria

\*\* Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the CRDL.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Kate Gellatly

Date: 22 MAY 2015

Title: Analyst I

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: May 22, 2015

Page 1 of 2

Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 371879

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1478354										
QC1203317680	371879008	DUP									
Gross Radium Alpha		U	0.152	U	0.648	pCi/L	N/A		N/A AXM6	05/15/15	06:26
		Uncertainty	+/-0.285		+/-0.281						
QC1203317683	LCS										
Gross Radium Alpha		413			413	pCi/L	100	(75%-125%)		05/14/15	17:58
		Uncertainty			+/-5.95						
QC1203317679	MB										
Gross Radium Alpha				U	-0.67	pCi/L				05/15/15	06:25
		Uncertainty			+/-0.148						
QC1203317681	371879008	MS									
Gross Radium Alpha		1640	U	0.152	1540	pCi/L	93.3	(75%-125%)		05/14/15	17:58
		Uncertainty		+/-0.285	+/-22.4						
QC1203317682	371879008	MSD									
Gross Radium Alpha		1640	U	0.152	1660	pCi/L	7.70	101	(0%-20%)	05/14/15	17:58
		Uncertainty		+/-0.285	+/-23.1						

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit





Laboratories LLC

a member of **The GEL Group** INC



PO Box 30712 Charleston, SC 29417  
2040 Savage Road Charleston, SC 29407  
P 843.556.8171  
F 843.766.1178

gel.com

June 02, 2015

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 372310

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 05, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 372310**

**June 02, 2015**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary:**

**Sample receipt:** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on May 05, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
372310001	MW-23_04302015
372310002	MW-29_04302015
372310003	MW-70_04302015

**Case Narrative:**

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.



Julie Robinson  
Project Manager



SAMPLE RECEIPT & REVIEW FORM

Client: <u>energy fuels</u>		SDG/AR/COC/Work Order: <u>372310</u>
Received By: <u>CS</u>		Date Received: <u>05/05/15</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: Ice bags Blue ice Dry ice <u>(None)</u> Other (describe) *all temperatures are recorded in Celsius <u>24.2°C</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>E4092024932</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
8 Are Encore containers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
9 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
10 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
11 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
12 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
13 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15 Carrier and tracking number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other  <u>8064 8112 1495</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 02-JUN-15  
 Work Order: 372310  
 Page 1 of 2

GEL Work Order/SDG: 372310      2nd Quarter GW 2015  
 Client SDG: 372310  
 Project Manager: Julie Robinson  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 03-JUN-15  
 Package Due Date: 31-MAY-15  
 EDD Due Date: 03-JUN-15  
 Due Date: 03-JUN-15  
 JAR1

Collector: C  
 Prelogin #: 20150429171  
 Project Workdef ID: 1294356  
 SDG Status: Closed  
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
372310001	MW-23_04302015		30-APR-15 07:30	05-MAY-15 08:50	-2	1	GROUND WATER		20		1		
372310002	MW-29_04302015		30-APR-15 08:40	05-MAY-15 08:50	-2	1	GROUND WATER		20		1		
372310003	MW-70_04302015		30-APR-15 08:40	05-MAY-15 08:50	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-23_04302015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C) 24.2	
-002 MW-29_04302015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	
-003 MW-70_04302015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	

<b>Product:</b> GFCTORAL	<b>Workdef ID:</b> 1297250	<b>In Product Group?</b> No	<b>Group Name:</b>	<b>Group Reference:</b>			
<b>Method:</b> EPA 900.1 Modified				<b>Path:</b> Standard			
<b>Product Description:</b> GFPC, Total Alpha Radium, Liquid				<b>Product Reference:</b> Gross Alpha			
<b>Samples:</b> 001, 002, 003				<b>Moisture Correction:</b> "As Received"			
<b>Parmname Check:</b> All parmnames scheduled properly							
<b>CAS #</b>	<b>Parmname</b>	<b>Client RDL or PQL &amp; Unit</b>	<b>Reporting Units</b>	<b>Parm Function</b>	<b>Included in Sample?</b>	<b>Included in QC?</b>	<b>Custom List?</b>
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action	Product Name	Description	Samples
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Contingent Tests

# GEL Laboratories LLC – Login Review Report

Report Date: 02-JUN-15  
Work Order: 372310  
Page 2 of 2

## Login Requirements:

Requirement	Include? Comments
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Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**Radiochemistry  
Technical Case Narrative  
Energy Fuels Resources (DNMI)  
SDG #: 372310**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1479494

<b>Sample ID</b>	<b>Client ID</b>
372310001	MW-23_04302015
372310002	MW-29_04302015
372310003	MW-70_04302015
1203320799	Method Blank (MB)
1203320803	Laboratory Control Sample (LCS)
1203320800	372310003(MW-70_04302015) Sample Duplicate (DUP)
1203320801	372310003(MW-70_04302015) Matrix Spike (MS)
1203320802	372310003(MW-70_04302015) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 372310003 (MW-70\_04302015).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:****Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Recounts**

None of the samples in this sample set were recounted.

**Miscellaneous Information:****Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Sample-Specific MDA/MDC**

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1203320801 (MW-70\_04302015MS) and 1203320802 (MW-70\_04302015MSD), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 372310 GEL Work Order: 372310

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Theresa Austin

Date: 02 JUN 2015

Title: Group Leader

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: June 2, 2015

Page 1 of 2

Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 372310

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1479494										
QC1203320800	372310003	DUP									
Gross Radium Alpha		U	0.510	U	0.292	pCi/L	N/A		N/A AXM6	05/29/15	14:39
		Uncertainty	+/-0.292		+/-0.274						
QC1203320803	LCS										
Gross Radium Alpha	413				440	pCi/L	107	(75%-125%)		05/29/15	14:40
		Uncertainty			+/-6.08						
QC1203320799	MB										
Gross Radium Alpha				U	-0.207	pCi/L				05/29/15	14:40
		Uncertainty			+/-0.129						
QC1203320801	372310003	MS									
Gross Radium Alpha	1670	U	0.510		1430	pCi/L	85.5	(75%-125%)		05/29/15	14:40
		Uncertainty	+/-0.292		+/-21.2						
QC1203320802	372310003	MSD									
Gross Radium Alpha	1670	U	0.510		1640	pCi/L	13.5	97.8	(0%-20%)	05/29/15	14:39
		Uncertainty	+/-0.292		+/-23.3						

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- NI See case narrative
- ND Analyte concentration is not detected above the detection limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 372310

Page 2 of 2

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the CRDL.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.  
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



June 29, 2015

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 374145

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 02, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: DW16138  
Enclosures

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 374145**

**June 29, 2015**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary:**

**Sample receipt:** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on June 02, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
374145001	MW-37_05272015
374145002	MW-20_05272015
374145003	MW-24_05282015

**Case Narrative:**

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.



Julie Robinson  
Project Manager



**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DNMT</u>		SDG/AR/COC/Work Order: <u>37445</u>	
Received By: <u>P. Went</u>		Date Received: <u>6/2/15</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0.1cpm</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>		Preservation Method: Ice bags <u>Blue</u> ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>21c</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <u>201404336</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7 VOA vials free of headspace (defined as < 6mm bubble)?		<input checked="" type="checkbox"/>		Sample ID's and containers affected:
8 Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
9 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
10 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
11 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 Number of containers received match number indicated on COC?			<input checked="" type="checkbox"/>	Sample ID's affected: <u>Lab rec'd (1) - Containers each</u>
13 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
14 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
15 Carrier and tracking number.				Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other  <u>8064 8112 1429-21c</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 29-JUN-15  
 Work Order: 374145  
 Page 1 of 2

GEL Work Order/SDG: 374145      2nd Quarter GW 2015  
 Client SDG: 374145  
 Project Manager: Julie Robinson  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 30-JUN-15  
 Package Due Date: 27-JUN-15  
 EDD Due Date: 30-JUN-15  
 Due Date: 30-JUN-15  
 JAR1

Collector: C  
 Prelogin #: 20150429171  
 Project Workdef ID: 1294356  
 SDG Status: Closed  
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
374145001	MW-37_05272015		27-MAY-15 13:30	02-JUN-15 09:00	-2	1	GROUND WATER		20		1		
374145002	MW-20_05272015		27-MAY-15 14:00	02-JUN-15 09:00	-2	1	GROUND WATER		20		1		
374145003	MW-24_05282015		28-MAY-15 06:15	02-JUN-15 09:00	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-37_05272015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Y	
-002 MW-20_05272015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Y	
-003 MW-24_05282015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Y	

Product: GFCTORAL      Workdef ID: 1297250      In Product Group? No      Group Name:      Group Reference:  
 Method: EPA 900.1 Modified      Path: Standard  
 Product Description: GFPC, Total Alpha Radium, Liquid      Product Reference: Gross Alpha  
 Samples: 001, 002, 003      Moisture Correction: "As Received"

Parmname Check:	CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
All parmnames scheduled properly		Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action      Product Name      Description      Samples

Contingent Tests

# GEL Laboratories LLC – Login Review Report

Report Date: 29-JUN-15  
Work Order: 374145  
Page 2 of 2

## Login Requirements:

Requirement	Include?	Comments
-------------	----------	----------

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**Radiochemistry  
Technical Case Narrative  
Energy Fuels Resources (DNMI)  
SDG #: 374145**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1485844

<b>Sample ID</b>	<b>Client ID</b>
374145001	MW-37_05272015
374145002	MW-20_05272015
374145003	MW-24_05282015
1203337621	Method Blank (MB)
1203337625	Laboratory Control Sample (LCS)
1203337622	374145002(MW-20_05272015) Sample Duplicate (DUP)
1203337623	374145002(MW-20_05272015) Matrix Spike (MS)
1203337624	374145002(MW-20_05272015) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 374145002 (MW-20\_05272015).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:****Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Recounts**

None of the samples in this sample set were recounted.

**Miscellaneous Information:****Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Sample-Specific MDA/MDC**

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1203337623 (MW-20\_05272015MS) and 1203337624 (MW-20\_05272015MSD), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 374145 GEL Work Order: 374145

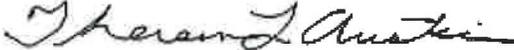
**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Theresa Austin

Date: 29 JUN 2015

Title: Group Leader

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: June 29, 2015

Page 1 of 2

**Energy Fuels Resources (USA), Inc.**  
**225 Union Boulevard**  
**Suite 600**  
**Lakewood, Colorado**

**Contact: Ms. Kathy Weinel**

**Workorder: 374145**

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1485844										
QC1203337622	374145002	DUP									
Gross Radium Alpha	U	0.0339	U	0.214	pCi/L	N/A		N/A	AXM6	06/29/15	09:50
	Uncertainty	+/-0.151		+/-0.170							
QC1203337625	LCS										
Gross Radium Alpha	413			369	pCi/L		89.5	(75%-125%)		06/29/15	09:49
	Uncertainty			+/-3.89							
QC1203337621	MB										
Gross Radium Alpha			U	-0.187	pCi/L					06/29/15	09:50
	Uncertainty			+/-0.0516							
QC1203337623	374145002	MS									
Gross Radium Alpha	1670	U	0.0339	1580	pCi/L		94.6	(75%-125%)		06/29/15	09:50
	Uncertainty	+/-0.151		+/-15.6							
QC1203337624	374145002	MSD									
Gross Radium Alpha	1670	U	0.0339	1690	pCi/L	6.86	101	(0%-20%)		06/29/15	09:50
	Uncertainty	+/-0.151		+/-16.5							

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

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## QC Summary

Workorder: 374145

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the CRDL.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Tab F

Laboratory Analytical Reports – Accelerated Monitoring

Tab F1

Laboratory Analytical Reports – Accelerated Monitoring

May 2015



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-001  
**Client Sample ID:** MW-11\_05112015  
**Collection Date:** 5/11/2015 1535h  
**Received Date:** 5/15/2015 1030h

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	5/18/2015 1128h	5/19/2015 1700h	E200_8	0.0100	<b>0.123</b>	

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 web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-002  
**Client Sample ID:** MW-25\_05112015  
**Collection Date:** 5/11/2015 1055h  
**Received Date:** 5/15/2015 1030h

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	5/18/2015 1128h	5/19/2015 1717h	E200.8	0.000500	<b>0.00138</b>	
Uranium	mg/L	5/18/2015 1128h	5/19/2015 1955h	E200.8	0.000300	<b>0.00638</b>	

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-003  
**Client Sample ID:** MW-26\_05122015  
**Collection Date:** 5/12/2015 950h  
**Received Date:** 5/15/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Uranium	mg/L	5/18/2015 1128h	5/19/2015 1958h	E200.8	0.000300	0.0633	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-003  
**Client Sample ID:** MW-26\_05122015  
**Collection Date:** 5/12/2015 950h  
**Received Date:** 5/15/2015 1030h

### Analytical Results

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<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		5/28/2015 1724h	E300.0	10.0	<b>61.4</b>	
Nitrate/Nitrite (as N)	mg/L		5/22/2015 1655h	E353.2	0.100	<b>0.606</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer





# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-004  
**Client Sample ID:** MW-30\_05122015  
**Collection Date:** 5/12/2015 1010h  
**Received Date:** 5/15/2015 1030h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	5/18/2015 1128h	5/19/2015 1730h	E200.8	0.00500	<b>0.0357</b>	
Uranium	mg/L	5/18/2015 1128h	5/19/2015 2002h	E200.8	0.000300	<b>0.00838</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-004  
**Client Sample ID:** MW-30\_05122015  
**Collection Date:** 5/12/2015 1010h  
**Received Date:** 5/15/2015 1030h

## Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/20/2015 1420h	5/20/2015 1600h	E350.1	0.0500	<b>0.0824</b>	
Chloride	mg/L		5/28/2015 1651h	E300.0	100	<b>145</b>	
Nitrate/Nitrite (as N)	mg/L		5/29/2015 1843h	E353.2	1.00	<b>16.1</b>	2

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer





## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-005  
**Client Sample ID:** MW-31\_05112015  
**Collection Date:** 5/11/2015 1300h  
**Received Date:** 5/15/2015 1030h

**Contact:** Garrin Palmer

### Analytical Results

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		5/28/2015 1600h	E300.0	100	<b>225</b>	
Nitrate/Nitrite (as N)	mg/L		5/29/2015 1845h	E353.2	1.00	<b>18.4</b>	
Sulfate	mg/L		5/28/2015 1600h	E300.0	100	<b>668</b>	
Total Dissolved Solids	mg/L		5/15/2015 1500h	SM2540C	20.0	<b>1,700</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-006  
**Client Sample ID:** MW-35\_05122015  
**Collection Date:** 5/12/2015 745h  
**Received Date:** 5/15/2015 1030h

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	5/18/2015 1128h	5/19/2015 1736h	E200.8	0.0100	<b>0.207</b>	
Selenium	mg/L	5/18/2015 1128h	5/19/2015 1736h	E200.8	0.00500	<b>0.00911</b>	
Thallium	mg/L	5/18/2015 1128h	5/19/2015 1749h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	5/18/2015 1128h	5/19/2015 2005h	E200.8	0.000300	<b>0.0225</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 16, 2015

Company : Energy Fuels Resources (USA), Inc.  
Address : 225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228  
Contact: Ms. Kathy Weinel  
Project: White Mesa Mill GW

Client Sample ID: MW-35\_05122015      Project: DNMI00100  
Sample ID: 373296001      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 12-MAY-15 07:45  
Receive Date: 19-MAY-15  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		4.47	+/-0.195	0.263	1.00	pCi/L		AXM6	06/12/15	1653	1482388	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			100	(25%-125%)

### Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Sample ID:** 1505272-007  
**Client Sample ID:** MW-65\_05122015  
**Collection Date:** 5/12/2015 745h  
**Received Date:** 5/15/2015 1030h

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	5/18/2015 1128h	5/19/2015 1739h	E200.8	0.0100	<b>0.220</b>	
Selenium	mg/L	5/18/2015 1128h	5/19/2015 1739h	E200.8	0.00500	<b>0.00963</b>	
Thallium	mg/L	5/18/2015 1128h	5/19/2015 1753h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	5/18/2015 1128h	5/19/2015 2008h	E200.8	0.000300	<b>0.0222</b>	

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: June 16, 2015

Company : Energy Fuels Resources (USA), Inc.  
 Address : 225 Union Boulevard  
 Suite 600  
 Lakewood, Colorado 80228  
 Contact: Ms. Kathy Weinel  
 Project: White Mesa Mill GW

Client Sample ID: MW-65_05122015	Project: DNMI00100
Sample ID: 373296002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 12-MAY-15 07:45	
Receive Date: 19-MAY-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		2.59	+/-0.158	0.250	1.00	pCi/L		AXM6	06/12/15	1653	1482388	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			100	(25%-125%)

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** May Ground Water 2015

**Lab Sample ID:** 1505272-008A

**Client Sample ID:** Trip Blank

**Collection Date:** 5/12/2015

**Received Date:** 5/15/2015 1030h

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/18/2015 939h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.8	50.00	99.6	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.4	50.00	94.8	80-124	
Surr: Toluene-d8	2037-26-5	48.2	50.00	96.3	77-129	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: May Ground Water 2015

Dear Garrin Palmer:

Lab Set ID: 1505272

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 5/15/2015 for the analyses presented in the following report.

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American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by:

<b>Jose G. Rocha</b>	Digitally signed by Jose G. Rocha
	DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US Date: 2015.06.03 14:39:12 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Ground Water 2015  
**Lab Set ID:** 1505272  
**Date Received:** 5/15/2015 1030h

**Contact:** Garrin Palmer

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Salt Lake City, UT 84119

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1505272-001A	MW-11_05112015	5/11/2015 1535h	Aqueous	ICPMS Metals, Dissolved
1505272-002A	MW-25_05112015	5/11/2015 1055h	Aqueous	ICPMS Metals, Dissolved
1505272-003A	MW-26_05122015	5/12/2015 950h	Aqueous	ICPMS Metals, Dissolved
1505272-003B	MW-26_05122015	5/12/2015 950h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505272-003C	MW-26_05122015	5/12/2015 950h	Aqueous	Anions, E300.0
1505272-003D	MW-26_05122015	5/12/2015 950h	Aqueous	VOA by GC/MS Method 8260C/5030C
1505272-004A	MW-30_05122015	5/12/2015 1010h	Aqueous	ICPMS Metals, Dissolved
1505272-004B	MW-30_05122015	5/12/2015 1010h	Aqueous	Ammonia, Aqueous
1505272-004B	MW-30_05122015	5/12/2015 1010h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505272-004C	MW-30_05122015	5/12/2015 1010h	Aqueous	Anions, E300.0
1505272-005A	MW-31_05112015	5/11/2015 1300h	Aqueous	ICPMS Metals, Dissolved
1505272-005B	MW-31_05112015	5/11/2015 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1505272-005C	MW-31_05112015	5/11/2015 1300h	Aqueous	Anions, E300.0
1505272-005D	MW-31_05112015	5/11/2015 1300h	Aqueous	Total Dissolved Solids, A2540C
1505272-006A	MW-35_05122015	5/12/2015 745h	Aqueous	ICPMS Metals, Dissolved
1505272-007A	MW-65_05122015	5/12/2015 745h	Aqueous	ICPMS Metals, Dissolved
1505272-008A	Trip Blank	5/12/2015	Aqueous	VOA by GC/MS Method 8260C/5030C



# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Set ID:** 1505272

3440 South 700 West  
 Salt Lake City, UT 84119

### Sample Receipt Information:

**Date of Receipt:** 5/15/2015  
**Dates of Collection:** 5/11-5/12/2015  
**Sample Condition:** See Chain of Custody  
**C-O-C Discrepancies:** None

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 e-mail: awal@awal-labs.com

**Holding Time and Preservation Requirements:** The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

web: www.awal-labs.com

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

Kyle F. Gross  
 Laboratory Director

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Jose Rocha  
 QA Officer

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
1505272-004B	Nitrate-Nitrite	MS/MSD	High analyte concentration

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** May Ground Water 2015  
**Lab Set ID:** 1505272

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 5/15/2015  
**Dates of Collection:** 5/11-5/12/2015  
**Sample Condition:** See Chain of Custody  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** Multiple target analytes were observed above reporting limits.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-37130	Date Analyzed:		05/19/2015 1657h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:		05/18/2015 1128h										
Cadmium	0.188	mg/L	E200.8	0.000193	0.000500	0.2000	0	94.0	85 - 115				
Manganese	0.194	mg/L	E200.8	0.00153	0.00200	0.2000	0	97.2	85 - 115				
Selenium	0.185	mg/L	E200.8	0.0000634	0.00200	0.2000	0	92.4	85 - 115				
Thallium	0.184	mg/L	E200.8	0.0000242	0.00200	0.2000	0	91.9	85 - 115				
Uranium	0.198	mg/L	E200.8	0.0000112	0.00200	0.2000	0	98.8	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-37130	Date Analyzed:	05/19/2015	1654h										
Test Code:	200.8-DIS	Date Prepared:	05/18/2015	1128h									
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
<b>Lab Sample ID:</b> MB-37130	Date Analyzed:	05/19/2015	1743h										
Test Code:	200.8-DIS	Date Prepared:	05/18/2015	1128h									
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								
<b>Lab Sample ID:</b> MB-37130	Date Analyzed:	05/19/2015	1948h										
Test Code:	200.8-DIS	Date Prepared:	05/18/2015	1128h									
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1505272

**Project:** May Ground Water 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505272-001AMS	Date Analyzed:		05/19/2015 1710h										
<b>Test Code:</b> 200 8-DIS	Date Prepared:		05/18/2015 1128h										
Cadmium	0.185	mg/L	E200.8	0.000193	0.000500	0.2000	0	92.5	75 - 125				
Manganese	0.312	mg/L	E200.8	0.00153	0.00200	0.2000	0.123	94.4	75 - 125				
Selenium	0.185	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0000707	92.6	75 - 125				
Thallium	0.177	mg/L	E200.8	0.0000242	0.00200	0.2000	0.0000751	88.4	75 - 125				
Uranium	0.193	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000592	96.2	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1505272

**Project:** May Ground Water 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505272-001AMSD	Date Analyzed:		05/19/2015 1713h										
<b>Test Code:</b> 200 8-DIS	Date Prepared:		05/18/2015 1128h										
Cadmium	0.183	mg/L	E200.8	0.000193	0.000500	0.2000	0	91.5	75 - 125	0.185	1.06	20	
Manganese	0.309	mg/L	E200.8	0.00153	0.00200	0.2000	0.123	93.0	75 - 125	0.312	0.879	20	
Selenium	0.180	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0000707	89.8	75 - 125	0.185	3.00	20	
Thallium	0.174	mg/L	E200.8	0.0000242	0.00200	0.2000	0.0000751	87.1	75 - 125	0.177	1.48	20	
Uranium	0.192	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000592	95.7	75 - 125	0.193	0.581	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505272-005DDUP		Date Analyzed: 05/15/2015 1500h											
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	1,680	mg/L	SM2540C	12.3	20.0					1700	0.946	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-R79174		Date Analyzed:		05/29/2015 712h									
Test Code:		300.0-W											
Chloride	4.99	mg/L	E300.0	0.00751	0.100	5.000	0	99.7	90 - 110				
Sulfate	5.21	mg/L	E300.0	0.0211	0.750	5.000	0	104	90 - 110				
<b>Lab Sample ID:</b> LCS-37182		Date Analyzed:		05/20/2015 1547h									
Test Code:		NH3-W-350.1											
Ammonia (as N)	9.78	mg/L	E350.1	0.0226	0.0500	10.00	0	97.8	90 - 110				
<b>Lab Sample ID:</b> LCS-R79007		Date Analyzed:		05/22/2015 1633h									
Test Code:		NO2/NO3-W-353.2											
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00833	0.0100	1.000	0	105	90 - 110				
<b>Lab Sample ID:</b> LCS NO3		Date Analyzed:		05/29/2015 1701h									
Test Code:		NO2/NO3-W-353.2											
Nitrate/Nitrite (as N)	1.00	mg/L	E353.2	0.00833	0.0100	1.000	0	100	90 - 110				
<b>Lab Sample ID:</b> LCS-R78819		Date Analyzed:		05/15/2015 1500h									
Test Code:		TDS-W-2540C											
Total Dissolved Solids	212	mg/L	SM2540C	6.13	10.0	205.0	0	103	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB-R79174</b> Date Analyzed: 05/28/2015 1527h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID: MB-37182</b> Date Analyzed: 05/20/2015 1546h													
Test Code: NH3-W-350.1 Date Prepared: 05/20/2015 1420h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0226	0.0500								
<b>Lab Sample ID: MB-R79007</b> Date Analyzed: 05/22/2015 1632h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID: MB-R79216</b> Date Analyzed: 05/29/2015 1658h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID: MB-R78819</b> Date Analyzed: 05/15/2015 1500h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505272-005CMS</b>		Date Analyzed: 05/28/2015 1617h											
Test Code: 300.0-W													
Chloride	734	mg/L	E300.0	0.751	10.0	500.0	225	102	90 - 110				
Sulfate	1,180	mg/L	E300.0	2.11	75.0	500.0	668	103	90 - 110				
<b>Lab Sample ID: 1505272-004BMS</b>		Date Analyzed: 05/20/2015 1601h											
Test Code: NH3-W-350.1		Date Prepared: 05/20/2015 1420h											
Ammonia (as N)	10.2	mg/L	E350.1	0.0226	0.0500	10.00	0.0824	101	90 - 110				
<b>Lab Sample ID: 1505272-003BMS</b>		Date Analyzed: 05/22/2015 1656h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.65	mg/L	E353.2	0.00833	0.0100	1.000	0.606	104	90 - 110				
<b>Lab Sample ID: 1505272-004BMS NO3</b>		Date Analyzed: 05/29/2015 1844h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	16.9	mg/L	E353.2	0.0833	0.100	1.000	16.1	74.0	90 - 110				2

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505272-005CMSD		Date Analyzed: 05/28/2015 1634h											
Test Code: 300.0-W													
Chloride	738	mg/L	E300.0	0.751	10.0	500.0	225	103	90 - 110	734	0.471	20	
Sulfate	1,200	mg/L	E300.0	2.11	75.0	500.0	668	106	90 - 110	1180	1.21	20	
<b>Lab Sample ID:</b> 1505272-004BMSD		Date Analyzed: 05/20/2015 1602h											
Test Code: NH3-W-350.1		Date Prepared: 05/20/2015 1420h											
Ammonia (as N)	9.95	mg/L	E350.1	0.0226	0.0500	10.00	0.0824	98.7	90 - 110	10.2	1.98	10	
<b>Lab Sample ID:</b> 1505272-003BMSD		Date Analyzed: 05/22/2015 1658h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.66	mg/L	E353.2	0.00833	0.0100	1.000	0.606	106	90 - 110	1.65	1.09	10	
<b>Lab Sample ID:</b> 1505272-004BMSD NO3		Date Analyzed: 05/29/2015 1816h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	18.4	mg/L	E353.2	0.0833	0.100	1.000	16.1	226	90 - 110	16.9	8.62	10	<sup>2</sup>

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-1 051815A      Date Analyzed: 05/18/2015 739h													
Test Code: 8260-W-DEN100													
Chloroform	21.3	µg/L	SW8260C	0.153	1.00	20.00	0	106	67 - 132				
Methylene chloride	20.4	µg/L	SW8260C	0.172	1.00	20.00	0	102	32 - 185				
Surr: 1,2-Dichloroethane-d4	53.0	µg/L	SW8260C			50.00		106	76 - 138				
Surr: 4-Bromofluorobenzene	48.9	µg/L	SW8260C			50.00		97.8	80 - 152				
Surr: Dibromofluoromethane	49.1	µg/L	SW8260C			50.00		98.2	67 - 128				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.8	81 - 135				



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## QC SUMMARY REPORT

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**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB VOC-1 051815A</b>		Date Analyzed: 05/18/2015 818h											
Test Code: 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	53.5	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	50.8	µg/L	SW8260C			50.00		102	80 - 152				
Surr: Dibromofluoromethane	48.0	µg/L	SW8260C			50.00		96.0	67 - 128				
Surr: Toluene-d8	48.8	µg/L	SW8260C			50.00		97.7	81 - 135				



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## QC SUMMARY REPORT

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**Lab Set ID:** 1505272  
**Project:** May Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> 1505272-003DMS		Date Analyzed: 05/18/2015 1018h											
Test Code: 8260-W-DEN100													
Chloroform	1,500	µg/L	SW8260C	3.06	20.0	400.0	1160	85.8	50 - 146				
Methylene chloride	379	µg/L	SW8260C	3.44	20.0	400.0	0	94.8	30 - 192				
Surr: 1,2-Dichloroethane-d4	1,010	µg/L	SW8260C			1,000		101	72 - 151				
Surr: 4-Bromofluorobenzene	900	µg/L	SW8260C			1,000		90.0	80 - 152				
Surr: Dibromofluoromethane	912	µg/L	SW8260C			1,000		91.2	80 - 124				
Surr: Toluene-d8	892	µg/L	SW8260C			1,000		89.2	77 - 129				



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## QC SUMMARY REPORT

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**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1505272-003DMSD</b>		Date Analyzed: 05/18/2015 1038h											
Test Code: 8260-W-DEN100													
Chloroform	1,450	µg/L	SW8260C	3.06	20.0	400.0	1160	71.6	50 - 146	1500	3.86	25	
Methylene chloride	373	µg/L	SW8260C	3.44	20.0	400.0	0	93.2	30 - 192	379	1.70	25	
Surr: 1,2-Dichloroethane-d4	994	µg/L	SW8260C			1,000		99.4	72 - 151				
Surr: 4-Bromofluorobenzene	885	µg/L	SW8260C			1,000		88.5	80 - 152				
Surr: Dibromofluoromethane	900	µg/L	SW8260C			1,000		90.0	80 - 124				
Surr: Toluene-d8	871	µg/L	SW8260C			1,000		87.1	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1505272** Page 1 of 2

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/1/2015

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** May Ground Water 2015

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals were field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1505272-001A	MW-11_05112015	5/11/2015 1535h	5/15/2015 1030h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous		df-met 1
				200.8-DIS-PR			df-met
1505272-002A	MW-25_05112015	5/11/2015 1055h	5/15/2015 1030h	200.8-DIS <i>2 SEL Analytes: CD U</i>	Aqueous		df-met 1
				200.8-DIS-PR			df-met
1505272-003A	MW-26_05122015	5/12/2015 0950h	5/15/2015 1030h	200.8-DIS <i>1 SEL Analytes: U</i>	Aqueous		df-met 1
				200.8-DIS-PR			df-met
1505272-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			DF-NO2/NO3
1505272-003C				300.0-W <i>1 SEL Analytes: CL</i>			DF-cl
1505272-003D				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>			vOC 3
1505272-004A	MW-30_05122015	5/12/2015 1010h	5/15/2015 1030h	200.8-DIS <i>2 SEL Analytes: SE U</i>	Aqueous		df-met 1
				200.8-DIS-PR			df-met
1505272-004B				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>			DF-NO2/NO3
				NH3-W-PR			DF-NO2/NO3
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			DF-NO2/NO3
1505272-004C				300.0-W <i>1 SEL Analytes: CL</i>			DF-cl
1505272-005A	MW-31_05112015	5/11/2015 1300h	5/15/2015 1030h	200.8-DIS <i>1 SEL Analytes: SE</i>	Aqueous		df-met 1
				200.8-DIS-PR			df-met
1505272-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			DF-NO2/NO3

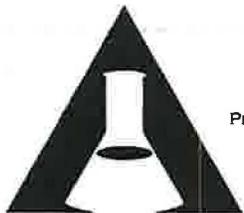
**WORK ORDER Summary**Work Order: **1505272**

Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 6/1/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1505272-005C	MW-31_05112015	5/11/2015 1300h	5/15/2015 1030h	300.0-W 2 SEL Analytes: CL SO4	Aqueous		DF-cl	1
1505272-005D				TDS-W-2540C 1 SEL Analytes: TDS			DF-tds	
1505272-006A	MW-35_05122015	5/12/2015 0745h	5/15/2015 1030h	200.8-DIS 4 SEL Analytes: MN SE TL U	Aqueous		df-met	1
				200.8-DIS-PR			df-met	
1505272-007A	MW-65_05122015	5/12/2015 0745h	5/15/2015 1030h	200.8-DIS 4 SEL Analytes: MN SE TL U	Aqueous		df-met	1
				200.8-DIS-PR			df-met	
1505272-008A	Trip Blank	5/12/2015	5/15/2015 1030h	8260-W-DEN100 Test Group: 8260-W-DEN100; # of Analytes: 2 / # of Surr: 4	Aqueous		vOC	3



**AMERICAN WEST  
ANALYTICAL LABORATORIES**

463 W. 3600 S. SALT LAKE CITY, UT 84115  
PHONE # (801) 263-8686 TOLL FREE # (888) 263-8686

FAX # (801) 263-8687 EMAIL AWAL@AWAL-LABS.COM

WWW.AWAL-LABS.COM

**CHAIN OF CUSTODY**

ALL ANALYSIS WILL BE CONDUCTED USING NELAP ACCREDITED METHODS AND ALL DATA WILL BE REPORTED USING AWAL'S STANDARD ANALYTE LISTS AND REPORTING LIMITS (PQL) UNLESS SPECIFICALLY REQUESTED OTHERWISE ON THIS CHAIN OF CUSTODY AND/OR ATTACHED DOCUMENTATION.

1545272

AWAL LAB SAMPLE SET #  
PAGE 1 OF 1

CLIENT: **Energy Fuels Resources, Inc.**  
ADDRESS: **6425 S. Hwy. 191  
Blanding, UT 84511**  
CONTACT: **Garrin Palmer**  
PHONE #: **(435) 678-2221** CELL #:  
EMAIL: **gpalmer@energyfuels.com; kweinel@energyfuels.com; dturk@energyfuels.com**  
PROJECT NAME: **May Ground Water 2015**  
PROJECT #:  
PO #:  
SAMPLER NAME: **Tanner Holliday**

QC LEVEL:		TURN AROUND TIME:		UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.		DUE DATE:									
3		STANDARD													
# OF CONTAINERS	SAMPLE MATRIX	NO2/NOS (353.2)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	NH3 (4500G or 350.1)	TDS (2540C)	Dissolved Uranium (200.7/200.8)	Dissolved Cadmium (200.7/200.8)	Dissolved Selenium (200.7/200.8)	Dissolved Thallium (200.7/200.8)	SO4 (4500 or 300.0)	VOCs Chloroform, Dichloromethane, (8260C)	LABORATORY USE ONLY		
													INCLUDE EDD: LOCUS UPLOAD EXCEL	FIELD FILTERED FOR: Dissolved Metals	SAMPLES WERE: <i>Field</i>
FOR COMPLIANCE WITH:													SHIPPED OR HAND DELIVERED		
<input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> NON-COMPLIANCE <input type="checkbox"/> OTHER:													2 AMBIENT OR CHILLED		
KNOWN HAZARDS & SAMPLE COMMENTS													3 TEMPERATURE <u>4.0</u> °C		
													4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) Y N		
													5 PROPERLY PRESERVED Y N		
													CHECKED AT BENCH Y N		
													6 RECEIVED WITHIN MOLDING TIMES Y N		
													1. PRESENT ON OUTER PACKAGE Y N NA		
													2. UNBROKEN ON OUTER PACKAGE Y N NA		
													3. PRESENT ON SAMPLE Y N NA		
													4. UNBROKEN ON SAMPLE Y N NA		
													DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD? Y N		
1			X												
2							X	X							
3		X	X				X					X			
4		X	X	X			X	X							
5		X	X		X		X		X		X				
6			X				X		X	X					
7			X				X		X	X					
8												X			
10															
11															
12															

RELINQUISHED BY: SIGNATURE: <i>Tanner Holliday</i>	DATE: <u>5/14/2015</u>	RECEIVED BY: SIGNATURE: <i>[Signature]</i>	DATE:	SPECIAL INSTRUCTIONS: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
PRINT NAME: <u>Tanner Holliday</u>	TIME: <u>1100</u>	PRINT NAME:	TIME:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE: <i>[Signature]</i>	DATE: <u>5/15/15</u>	
PRINT NAME:	TIME:	PRINT NAME: <u>S. Linn</u>	TIME: <u>1030</u>	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7											
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>				yes														
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO <sub>3</sub>	yes																	
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>			yes	yes	yes													
O & G	pH <2 HCL																		
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																		

- Procedure:
- 1) Pour a small amount of sample in the sample lid
  - 2) Pour sample from Lid gently over wide range pH paper
  - 3) **Do Not** dip the pH paper in the sample bottle or lid
  - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
  - 5) Flag COC, notify client if requested
  - 6) Place client conversation on COC
  - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- \* The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > \_\_\_\_ due to the sample matrix interference.



June 16, 2015

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 373296

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 19, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 373296**

**June 16, 2015**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary:**

**Sample receipt:** The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on May 19, 2015 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
373296001	MW-35_05122015
373296002	MW-65_05122015

**Case Narrative:**

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.



Julie Robinson  
Project Manager



**SAMPLE RECEIPT & REVIEW FORM**

Client: <b>DNMI</b>		SDG/AR/COC/Work Order: <b>373094</b>
Received By: <b>ELW</b>		Date Received: <b>5/19/15</b>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <b>0cpm</b>
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			<input checked="" type="checkbox"/>	21°C Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <b>201404336</b>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required?			<input checked="" type="checkbox"/>	Sample ID's and containers affected:
7 VOA vials free of headspace (defined as < 6mm bubble)?			<input checked="" type="checkbox"/>	Sample ID's and containers affected:
8 Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
9 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
10 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
11 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
13 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
14 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
15 Carrier and tracking number.	<input checked="" type="checkbox"/>			Circle Applicable: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other  <b>8064 8112 1462</b>

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials

*gpc*

Date

**5-19-15**

Page

of

**1**

GL-CHL-SR-001 Rev 1

# GEL Laboratories LLC – Login Review Report

Report Date: 16-JUN-15  
 Work Order: 373296  
 Page 1 of 2

GEL Work Order/SDG: 373296      May Groundwater 2015  
 Client SDG: 373296  
 Project Manager: Julie Robinson  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 17-JUN-15  
 Package Due Date: 14-JUN-15  
 EDD Due Date: 17-JUN-15  
 Due Date: 17-JUN-15  
 JAR1

Collector: C  
 Prelogin #: 20150429171  
 Project Workdef ID: 1294356  
 SDG Status: Closed  
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
373296001	MW-35_05122015		12-MAY-15 07:45	19-MAY-15 09:00	-2	1	GROUND WATER		20		1		
373296002	MW-65_05122015		12-MAY-15 07:45	19-MAY-15 09:00	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-35_05122015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Y	
-002 MW-65_05122015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Y	

Product: GFCTORAL      Workdef ID: 1297250      In Product Group? No      Group Name:      Group Reference:

Method: EPA 900.1 Modified      Path: Standard

Product Description: GFPC, Total Alpha Radium, Liquid      Product Reference: Gross Alpha

Samples: 001, 002      Moisture Correction: "As Received"

Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action	Product Name	Description	Samples
Contingent Tests			

**Login Requirements:**

Requirement	Include?	Comments

# GEL Laboratories LLC – Login Review Report

Report Date: 16-JUN-15

Work Order: 373296

Page 2 of 2

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**Radiochemistry  
Technical Case Narrative  
Energy Fuels Resources (DNMI)  
SDG #: 373296**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1482388

<b>Sample ID</b>	<b>Client ID</b>
373296001	MW-35_05122015
373296002	MW-65_05122015
1203328464	Method Blank (MB)
1203328468	Laboratory Control Sample (LCS)
1203328465	373296002(MW-65_05122015) Sample Duplicate (DUP)
1203328466	373296002(MW-65_05122015) Matrix Spike (MS)
1203328467	373296002(MW-65_05122015) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 373296002 (MW-65\_05122015).

**QC Information**

All of the QC samples meet the required acceptance limits with the following exceptions: The sample and the duplicate, 1203328465 (MW-65\_05122015DUP) and 373296002 (MW-65\_05122015) , did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with a value of 2.5194.

**Technical Information:****Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Recounts**

None of the samples in this sample set were recounted.

**Miscellaneous Information:****Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Sample-Specific MDA/MDC**

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1203328466 (MW-65\_05122015MS) and 1203328467 (MW-65\_05122015MSD), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.  
Client SDG: 373296 GEL Work Order: 373296

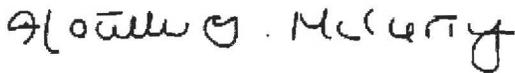
**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Heather McCarty

Date: 16 JUN 2015

Title: Analyst II

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: June 16, 2015

Page 1 of 2

Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 373296

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1482388										
QC1203328465	373296002	DUP									
Gross Radium Alpha		2.59		3.77	pCi/L	37.0*		(0%-20%)	AXM6	06/12/15	16:54
	Uncertainty	+/-0.158		+/-0.190							
QC1203328468	LCS										
Gross Radium Alpha	413			398	pCi/L		96.5	(75%-125%)		06/12/15	16:54
	Uncertainty			+/-5.70							
QC1203328464	MB										
Gross Radium Alpha			U	-0.0235	pCi/L					06/12/15	16:54
	Uncertainty			+/-0.113							
QC1203328466	373296002	MS									
Gross Radium Alpha	1670	2.59		1540	pCi/L		91.7	(75%-125%)		06/12/15	16:54
	Uncertainty	+/-0.158		+/-19.9							
QC1203328467	373296002	MSD									
Gross Radium Alpha	1670	2.59		1430	pCi/L	7.01	85.5	(0%-20%)		06/12/15	16:54
	Uncertainty	+/-0.158		+/-19.5							

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Workorder: 373296

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q											
		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R											
		Sample results are rejected									
U											
		Analyte was analyzed for, but not detected above the CRDL.									
UI											
		Gamma Spectroscopy--Uncertain identification									
UJ											
		Gamma Spectroscopy--Uncertain identification									
UL											
		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X											
		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y											
		QC Samples were not spiked with this compound									
^											
		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h											
		Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Tab F2

Laboratory Analytical Reports – Accelerated Monitoring

June 2015



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-001  
**Client Sample ID:** MW-11\_06232015  
**Collection Date:** 6/23/2015 1510h  
**Received Date:** 6/25/2015 905h

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	6/25/2015 1452h	7/6/2015 1226h	E200.8	0.0100	0.149	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-002  
**Client Sample ID:** MW-25\_06232015  
**Collection Date:** 6/23/2015 1025h  
**Received Date:** 6/25/2015 905h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	6/25/2015 1452h	7/6/2015 1243h	E200.8	0.000500	<b>0.00142</b>	
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2118h	E200.8	0.000300	<b>0.00588</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-003  
**Client Sample ID:** MW-26\_06242015  
**Collection Date:** 6/24/2015 1240h  
**Received Date:** 6/25/2015 905h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2121h	E200.8	0.000300	0.0674	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-003  
**Client Sample ID:** MW-26\_06242015  
**Collection Date:** 6/24/2015 1240h  
**Received Date:** 6/25/2015 905h

### Analytical Results

3440 South 700 West  
Salt Lake City, UT 84119

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		7/6/2015 1628h	E300.0	10.0	<b>60.8</b>	
Nitrate/Nitrite (as N)	mg/L		7/2/2015 1742h	E353.2	0.100	<b>0.588</b>	1

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-003D  
**Client Sample ID:** MW-26\_06242015  
**Collection Date:** 6/24/2015 1240h  
**Received Date:** 6/25/2015 905h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/25/2015 1610h

**Units:** µg/L      **Dilution Factor:** 100      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	2,610	5

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	4,950	5,000	98.9	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	4,800	5,000	96.0	80-152	
Surr: Dibromofluoromethane	1868-53-7	4,710	5,000	94.2	80-124	
Surr: Toluene-d8	2037-26-5	4,710	5,000	94.3	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 6/25/2015 1452h

**Units:** µg/L      **Dilution Factor:** 1      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	9.38	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.2	50.00	96.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.9	50.00	97.7	80-152	
Surr: Dibromofluoromethane	1868-53-7	47.2	50.00	94.4	80-124	
Surr: Toluene-d8	2037-26-5	46.5	50.00	93.0	77-129	

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## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** June Ground Water 2015

**Lab Sample ID:** 1506524-004

**Client Sample ID:** MW-30\_06242015

**Collection Date:** 6/24/2015 1015h

**Received Date:** 6/25/2015 905h

### Analytical Results

### DISSOLVED METALS

3440 South 700 West  
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	6/25/2015 1452h	7/6/2015 1302h	E200.8	0.00500	<b>0.0372</b>	
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2124h	E200.8	0.000300	<b>0.00746</b>	

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QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-004  
**Client Sample ID:** MW-30\_06242015  
**Collection Date:** 6/24/2015 1015h  
**Received Date:** 6/25/2015 905h

**Contact:** Garrin Palmer

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2015 1610h	6/30/2015 1119h	E350.1	0.0500	0.0997	
Chloride	mg/L		7/6/2015 1611h	E300.0	100	142	
Nitrate/Nitrite (as N)	mg/L		7/2/2015 1820h	E353.2	1.00	15.8	

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QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-005  
**Client Sample ID:** MW-31\_06232015  
**Collection Date:** 6/23/2015 1235h  
**Received Date:** 6/25/2015 905h

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	6/25/2015 1452h	7/6/2015 1306h	E200.8	0.00500	0.0744	

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QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** June Ground Water 2015

**Lab Sample ID:** 1506524-005

**Client Sample ID:** MW-31\_06232015

**Collection Date:** 6/23/2015 1235h

**Received Date:** 6/25/2015 905h

### Analytical Results

3440 South 700 West  
Salt Lake City, UT 84119

<b>Compound</b>	<b>Units</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Method Used</b>	<b>Reporting Limit</b>	<b>Analytical Result</b>	<b>Qual</b>
Chloride	mg/L		7/6/2015 1521h	E300.0	100	<b>228</b>	
Nitrate/Nitrite (as N)	mg/L		7/2/2015 1822h	E353.2	1.00	<b>18.0</b>	
Sulfate	mg/L		7/6/2015 1521h	E300.0	100	<b>691</b>	
Total Dissolved Solids	mg/L		6/29/2015 1430h	SM2540C	20.0	<b>1,630</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-006  
**Client Sample ID:** MW-35\_06232015  
**Collection Date:** 6/23/2015 1405h  
**Received Date:** 6/25/2015 905h

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	6/25/2015 1452h	7/6/2015 1309h	E200.8	0.0100	<b>0.214</b>	
Selenium	mg/L	6/25/2015 1452h	7/6/2015 1309h	E200.8	0.00500	<b>0.0136</b>	
Thallium	mg/L	6/25/2015 1452h	7/6/2015 1345h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2128h	E200.8	0.000300	<b>0.0207</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: July 1, 2015

Company : Energy Fuels Resources (USA), Inc.  
Address : 225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228  
Contact: Ms. Kathy Weinel  
Project: White Mesa Mill GW

Client Sample ID: MW-35\_06022015      Project: DNMI00100  
Sample ID: 374570001      Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 02-JUN-15 08:05  
Receive Date: 08-JUN-15  
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		4.01	+/-0.431	0.648	1.00	pCi/L		AXM6	06/29/15	0949	1485844	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
	EPA 900.1 Modified											
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits							
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			100	(25%-125%)							

### Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-007  
**Client Sample ID:** MW-65\_06242015  
**Collection Date:** 6/24/2015 1015h  
**Received Date:** 6/25/2015 905h

## Analytical Results

## DISSOLVED METALS

3440 South 700 West  
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	6/25/2015 1452h	7/6/2015 1312h	E200.8	0.00500	<b>0.0382</b>	
Uranium	mg/L	6/25/2015 1452h	7/7/2015 2131h	E200.8	0.000300	<b>0.00763</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-007  
**Client Sample ID:** MW-65\_06242015  
**Collection Date:** 6/24/2015 1015h  
**Received Date:** 6/25/2015 905h

## Analytical Results

3440 South 700 West  
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/29/2015 1610h	6/30/2015 1127h	E350.1	0.0500	<b>0.130</b>	
Chloride	mg/L		7/6/2015 1645h	E300.0	10.0	<b>142</b>	
Nitrate/Nitrite (as N)	mg/L		7/2/2015 1823h	E353.2	1.00	<b>16.1</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Ground Water 2015  
**Lab Sample ID:** 1506524-008A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/23/2015  
**Received Date:** 6/25/2015 905h

**Contact:** Garrin Palmer

Test Code: 8260-W-DEN100

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/25/2015 1432h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

3440 South 700 West  
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.0	50.00	96.1	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.5	50.00	97.0	80-152	
Surr: Dibromofluoromethane	1868-53-7	46.7	50.00	93.4	80-124	
Surr: Toluene-d8	2037-26-5	47.0	50.00	94.0	77-129	

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Laboratory Director

Jose Rocha  
QA Officer



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: June Ground Water 2015

Dear Garrin Palmer:

Lab Set ID: 1506524

3440 South 700 West  
Salt Lake City, UT 84119

American West Analytical Laboratories received sample(s) on 6/25/2015 for the analyses presented in the following report.

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American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

web: www.awal-labs.com

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by:

**Jose G. Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou,  
email=jose@awal-labs.com,  
c=US  
Date: 2015.07.10 15:17:45  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** June Ground Water 2015  
**Lab Set ID:** 1506524  
**Date Received:** 6/25/2015 905h

**Contact:** Garrin Palmer

3440 South 700 West Salt Lake City, UT 84119	<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date Collected</b>	<b>Matrix</b>	<b>Analysis</b>
Phone: (801) 263-8686	1506524-001A	MW-11_06232015	6/23/2015 1510h	Aqueous	ICPMS Metals, Dissolved
Toll Free: (888) 263-8686	1506524-002A	MW-25_06232015	6/23/2015 1025h	Aqueous	ICPMS Metals, Dissolved
Fax: (801) 263-8687	1506524-003A	MW-26_06242015	6/24/2015 1240h	Aqueous	ICPMS Metals, Dissolved
e-mail: awal@awal-labs.com	1506524-003B	MW-26_06242015	6/24/2015 1240h	Aqueous	Nitrite/Nitrate (as N), E353.2
web: www.awal-labs.com	1506524-003C	MW-26_06242015	6/24/2015 1240h	Aqueous	Anions, E300.0
	1506524-003D	MW-26_06242015	6/24/2015 1240h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1506524-004A	MW-30_06242015	6/24/2015 1015h	Aqueous	ICPMS Metals, Dissolved
	1506524-004B	MW-30_06242015	6/24/2015 1015h	Aqueous	Ammonia, Aqueous
	1506524-004B	MW-30_06242015	6/24/2015 1015h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1506524-004C	MW-30_06242015	6/24/2015 1015h	Aqueous	Anions, E300.0
	1506524-005A	MW-31_06232015	6/23/2015 1235h	Aqueous	ICPMS Metals, Dissolved
	1506524-005B	MW-31_06232015	6/23/2015 1235h	Aqueous	Nitrite/Nitrate (as N), E353.2
Kyle F. Gross Laboratory Director	1506524-005C	MW-31_06232015	6/23/2015 1235h	Aqueous	Anions, E300.0
	1506524-005D	MW-31_06232015	6/23/2015 1235h	Aqueous	Total Dissolved Solids, A2540C
	1506524-006A	MW-35_06232015	6/23/2015 1405h	Aqueous	ICPMS Metals, Dissolved
Jose Rocha QA Officer	1506524-007A	MW-65_06242015	6/24/2015 1015h	Aqueous	ICPMS Metals, Dissolved
	1506524-007B	MW-65_06242015	6/24/2015 1015h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1506524-007B	MW-65_06242015	6/24/2015 1015h	Aqueous	Ammonia, Aqueous
	1506524-007C	MW-65_06242015	6/24/2015 1015h	Aqueous	Anions, E300.0
	1506524-008A	Trip Blank	6/23/2015	Aqueous	VOA by GC/MS Method 8260C/5030C



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Set ID:** 1506524

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 6/25/2015  
**Date(s) of Collection:** 6/23 & 6/24/2015  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

**Holding Time and Preservation Requirements:** The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

**Preparation and Analysis Requirements:** The samples were analyzed following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD:

**Method Blanks (MB):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Samples (LCS):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicates (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: The MS and MSD percent recoveries were outside of control limits due to matrix interference on nitrate/nitrite for sample 1506524-003B.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** June Ground Water 2015  
**Lab Set ID:** 1506524

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 6/25/2015  
**Date(s) of Collection:** 6/23 & 6/24/2015  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** Multiple target analytes were observed above reporting limits.

**Holding Time and Preservation Requirements:** All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, and Surrogates.

**Method Blanks (MBs):** No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

**Laboratory Control Sample (LCSs):** All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

**Matrix Spike / Matrix Spike Duplicate (MS/MSD):** All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

**Surrogates:** All surrogate recoveries were within established limits.

**Corrective Action:** None required.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-37766	Date Analyzed:		07/06/2015 1223h										
Test Code:	Date Prepared:		200.8-DIS 06/25/2015 1452h										
Cadmium	0.196	mg/L	E200.8	0.000193	0.000500	0.2000	0	98.0	85 - 115				
Manganese	0.204	mg/L	E200.8	0.00153	0.00200	0.2000	0	102	85 - 115				
Selenium	0.189	mg/L	E200.8	0.0000634	0.00200	0.2000	0	94.4	85 - 115				
Thallium	0.187	mg/L	E200.8	0.0000242	0.00200	0.2000	0	93.3	85 - 115				
<b>Lab Sample ID:</b> LCS-37766	Date Analyzed:		07/09/2015 946h										
Test Code:	Date Prepared:		200.8-DIS 06/25/2015 1452h										
Uranium	0.199	mg/L	E200.8	0.0000112	0.00200	0.2000	0	99.4	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB-37766	Date Analyzed:	07/06/2015	1220h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/25/2015	1452h										
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
<b>Lab Sample ID:</b> MB-37766	Date Analyzed:	07/06/2015	1342h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/25/2015	1452h										
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								
<b>Lab Sample ID:</b> MB-37766	Date Analyzed:	07/07/2015	2115h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/25/2015	1452h										
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** ME  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-001AMS</b>													
Date Analyzed:		07/06/2015 1236h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Cadmium	0.195	mg/L	E200.8	0.000193	0.000500	0.2000	0	97.5	75 - 125				
Manganese	0.349	mg/L	E200.8	0.00153	0.00200	0.2000	0.149	100	75 - 125				
Selenium	0.194	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000251	96.7	75 - 125				
Thallium	0.183	mg/L	E200.8	0.0000242	0.00200	0.2000	0.0000318	91.3	75 - 125				
<b>Lab Sample ID: 1506525-001EMS</b>													
Date Analyzed:		07/06/2015 1319h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Cadmium	0.195	mg/L	E200.8	0.000193	0.000500	0.2000	0.000369	97.2	75 - 125				
Manganese	0.205	mg/L	E200.8	0.00153	0.00200	0.2000	0.00281	101	75 - 125				
Selenium	0.199	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00505	97.0	75 - 125				
Thallium	0.181	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000702	90.3	75 - 125				
<b>Lab Sample ID: 1506524-001AMS</b>													
Date Analyzed:		07/09/2015 1008h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Uranium	0.197	mg/L	E200.8	0.0000112	0.00200	0.2000	0.00068	98.0	75 - 125				
<b>Lab Sample ID: 1506525-001EMS</b>													
Date Analyzed:		07/09/2015 952h											
Test Code:		200.8-DIS											
Date Prepared:		06/25/2015 1452h											
Uranium	0.216	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0149	101	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506524

**Project:** June Ground Water 2015

**Contact:** Garrin Palmer

**Dept:** ME

**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-001AMSD</b>		Date Analyzed:	07/06/2015 1239h										
Test Code: 200.8-DIS		Date Prepared:	06/25/2015 1452h										
Cadmium	0.194	mg/L	E200.8	0.000193	0.000500	0.2000	0	97.0	75 - 125	0.195	0.503	20	
Manganese	0.347	mg/L	E200.8	0.00153	0.00200	0.2000	0.149	99.0	75 - 125	0.349	0.772	20	
Selenium	0.189	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000251	94.2	75 - 125	0.194	2.58	20	
Thallium	0.179	mg/L	E200.8	0.0000242	0.00200	0.2000	0.0000318	89.4	75 - 125	0.183	2.10	20	
<b>Lab Sample ID: 1506525-001EMSD</b>		Date Analyzed:	07/06/2015 1322h										
Test Code: 200.8-DIS		Date Prepared:	06/25/2015 1452h										
Cadmium	0.191	mg/L	E200.8	0.000193	0.000500	0.2000	0.000369	95.3	75 - 125	0.195	1.97	20	
Manganese	0.197	mg/L	E200.8	0.00153	0.00200	0.2000	0.00281	97.3	75 - 125	0.205	3.56	20	
Selenium	0.193	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00505	93.7	75 - 125	0.199	3.30	20	
Thallium	0.176	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000702	87.9	75 - 125	0.181	2.67	20	
<b>Lab Sample ID: 1506524-001AMSD</b>		Date Analyzed:	07/09/2015 1012h										
Test Code: 200.8-DIS		Date Prepared:	06/25/2015 1452h										
Uranium	0.198	mg/L	E200.8	0.0000112	0.00200	0.2000	0.00068	98.7	75 - 125	0.197	0.625	20	
<b>Lab Sample ID: 1506525-001EMSD</b>		Date Analyzed:	07/09/2015 955h										
Test Code: 200.8-DIS		Date Prepared:	06/25/2015 1452h										
Uranium	0.196	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0149	90.7	75 - 125	0.216	9.78	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506524

**Project:** June Ground Water 2015

**Contact:** Garrin Palmer

**Dept:** WC

**QC Type:** DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-005DDUP</b>													
Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,580	mg/L	SM2540C	12.3	20.0					1630	3.24	5	
<b>Lab Sample ID: 1506525-001CDUP</b>													
Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	3,880	mg/L	SM2540C	12.3	20.0					3920	0.821	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS-R80397      Date Analyzed: 07/06/2015 1322h													
Test Code: 300.0-W													
Chloride	5.20	mg/L	E300.0	0.00751	0.100	5.000	0	104	90 - 110				
Sulfate	4.81	mg/L	E300.0	0.0211	0.750	5.000	0	96.3	90 - 110				
<b>Lab Sample ID:</b> LCS-37805      Date Analyzed: 06/30/2015 1116h													
Test Code: NH3-W-350.1      Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	9.00	mg/L	E350.1	0.0226	0.0500	10.00	0	90.0	90 - 110				
<b>Lab Sample ID:</b> LCS-R80357      Date Analyzed: 07/02/2015 1647h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00833	0.0100	1.000	0	106	90 - 110				
<b>Lab Sample ID:</b> LCS-R80229      Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	228	mg/L	SM2540C	6.13	10.0	205.0	0	111	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: MB-R80397</b>													
Date Analyzed: 07/06/2015 1306h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
<b>Lab Sample ID: MB-37805</b>													
Date Analyzed: 06/30/2015 1114h													
Test Code: NH3-W-350.1													
Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0226	0.0500								
<b>Lab Sample ID: MB-R80357</b>													
Date Analyzed: 07/02/2015 1644h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
<b>Lab Sample ID: MB-R80229</b>													
Date Analyzed: 06/29/2015 1430h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-005CMS</b> Date Analyzed: 07/06/2015 1538h													
Test Code: 300.0-W													
Chloride	743	mg/L	E300.0	0,751	10.0	500.0	228	103	90 - 110				
Sulfate	1,190	mg/L	E300.0	2.11	75.0	500.0	691	100	90 - 110				
<b>Lab Sample ID: 1506525-001BMS</b> Date Analyzed: 07/06/2015 1752h													
Test Code: 300.0-W													
Chloride	5,150	mg/L	E300.0	7.51	100	5,000	150	100	90 - 110				
Sulfate	7,720	mg/L	E300.0	21.1	750	5,000	2650	101	90 - 110				
<b>Lab Sample ID: 1506524-004BMS</b> Date Analyzed: 06/30/2015 1120h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.8	mg/L	E350.1	0.0226	0.0500	10.00	0.0997	107	90 - 110				
<b>Lab Sample ID: 1506525-001DMS</b> Date Analyzed: 06/30/2015 1129h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.4	mg/L	E350.1	0.0226	0.0500	10.00	0.0688	103	90 - 110				
<b>Lab Sample ID: 1506524-003BMS NO3</b> Date Analyzed: 07/02/2015 1743h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.45	mg/L	E353.2	0.00833	0.0100	1.000	0.588	86.3	90 - 110				
<b>Lab Sample ID: 1506525-001DMS NO3</b> Date Analyzed: 07/02/2015 1759h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.17	mg/L	E353.2	0.00833	0.0100	1.000	0.227	94.2	90 - 110				

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-005CMSD</b> Date Analyzed: 07/06/2015 1554h													
Test Code: 300.0-W													
Chloride	753	mg/L	E300.0	0.751	10.0	500.0	228	105	90 - 110	743	1.37	20	
Sulfate	1,190	mg/L	E300.0	2.11	75.0	500.0	691	100	90 - 110	1190	0.101	20	
<b>Lab Sample ID: 1506525-001BMSD</b> Date Analyzed: 07/06/2015 1809h													
Test Code: 300.0-W													
Chloride	5,150	mg/L	E300.0	7.51	100	5,000	150	100	90 - 110	5150	0.0203	20	
Sulfate	7,680	mg/L	E300.0	21.1	750	5,000	2650	101	90 - 110	7720	0.417	20	
<b>Lab Sample ID: 1506524-004BMSD</b> Date Analyzed: 06/30/2015 1122h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.7	mg/L	E350.1	0.0226	0.0500	10.00	0.0997	106	90 - 110	10.8	0.934	10	
<b>Lab Sample ID: 1506525-001DMSD</b> Date Analyzed: 06/30/2015 1136h													
Test Code: NH3-W-350.1 Date Prepared: 06/29/2015 1610h													
Ammonia (as N)	10.3	mg/L	E350.1	0.0226	0.0500	10.00	0.0688	103	90 - 110	10.4	0.290	10	
<b>Lab Sample ID: 1506524-003BMSD NO3</b> Date Analyzed: 07/02/2015 1752h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.44	mg/L	E353.2	0.00833	0.0100	1.000	0.588	85.4	90 - 110	1.45	0.622	10	†
<b>Lab Sample ID: 1506525-001DMSD NO3</b> Date Analyzed: 07/02/2015 1800h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.15	mg/L	E353.2	0.00833	0.0100	1.000	0.227	92.6	90 - 110	1.17	1.38	10	

† - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506524

**Project:** June Ground Water 2015

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> LCS VOC-1 062515A		<b>Date Analyzed:</b> 06/25/2015 749h											
<b>Test Code:</b> 8260-W-DEN100													
Chloroform	22.8	µg/L	SW8260C	0.153	1.00	20.00	0	114	67 - 132				
Methylene chloride	20.6	µg/L	SW8260C	0.172	1.00	20.00	0	103	32 - 185				
Surr: 1,2-Dichloroethane-d4	45.9	µg/L	SW8260C			50.00		91.9	76 - 138				
Surr: 4-Bromofluorobenzene	46.8	µg/L	SW8260C			50.00		93.6	80 - 152				
Surr: Dibromofluoromethane	45.8	µg/L	SW8260C			50.00		91.7	67 - 128				
Surr: Toluene-d8	46.1	µg/L	SW8260C			50.00		92.1	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506524

**Project:** June Ground Water 2015

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID:</b> MB VOC-1 062515A	Date Analyzed: 06/25/2015 828h												
<b>Test Code:</b> 8260-W-DEN100													
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	48.2	µg/L	SW8260C			50.00		96.4	76 - 138				
Surr: 4-Bromofluorobenzene	48.0	µg/L	SW8260C			50.00		96.0	80 - 152				
Surr: Dibromofluoromethane	47.1	µg/L	SW8260C			50.00		94.2	67 - 128				
Surr: Toluene-d8	47.2	µg/L	SW8260C			50.00		94.4	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1506524

**Project:** June Ground Water 2015

**Contact:** Garrin Palmer

**Dept:** MSVOA

**QC Type:** MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-003DMS</b>		Date Analyzed: 06/25/2015 1630h											
Test Code: 8260-W-DEN100													
Chloroform	4,890	µg/L	SW8260C	15.3	100	2,000	2610	114	50 - 146				
Methylene chloride	2,230	µg/L	SW8260C	17.2	100	2,000	0	111	30 - 192				
Surr: 1,2-Dichloroethane-d4	4,730	µg/L	SW8260C			5,000		94.7	72 - 151				
Surr: 4-Bromofluorobenzene	4,700	µg/L	SW8260C			5,000		94.1	80 - 152				
Surr: Dibromofluoromethane	4,650	µg/L	SW8260C			5,000		93.0	80 - 124				
Surr: Toluene-d8	4,540	µg/L	SW8260C			5,000		90.7	77 - 129				
<b>Lab Sample ID: 1506525-002AMS</b>		Date Analyzed: 06/25/2015 1729h											
Test Code: 8260-W-DEN100													
Chloroform	21.9	µg/L	SW8260C	0.153	1.00	20.00	0	109	50 - 146				
Methylene chloride	20.6	µg/L	SW8260C	0.172	1.00	20.00	0	103	30 - 192				
Surr: 1,2-Dichloroethane-d4	47.8	µg/L	SW8260C			50.00		95.6	72 - 151				
Surr: 4-Bromofluorobenzene	46.9	µg/L	SW8260C			50.00		93.7	80 - 152				
Surr: Dibromofluoromethane	46.7	µg/L	SW8260C			50.00		93.3	80 - 124				
Surr: Toluene-d8	46.2	µg/L	SW8260C			50.00		92.4	77 - 129				



**American West**  
ANALYTICAL LABORATORIES

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1506524  
**Project:** June Ground Water 2015

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687  
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
<b>Lab Sample ID: 1506524-003DMSD</b>		Date Analyzed: 06/25/2015 1650h											
Test Code: 8260-W-DEN100													
Chloroform	4,710	µg/L	SW8260C	15.3	100	2,000	2610	105	50 - 146	4890	3.83	25	
Methylene chloride	2,190	µg/L	SW8260C	17.2	100	2,000	0	109	30 - 192	2230	1.86	25	
Surr: 1,2-Dichloroethane-d4	4,720	µg/L	SW8260C			5,000		94.4	72 - 151				
Surr: 4-Bromofluorobenzene	4,600	µg/L	SW8260C			5,000		92.0	80 - 152				
Surr: Dibromofluoromethane	4,590	µg/L	SW8260C			5,000		91.9	80 - 124				
Surr: Toluene-d8	4,530	µg/L	SW8260C			5,000		90.5	77 - 129				
<b>Lab Sample ID: 1506525-002AMSD</b>		Date Analyzed: 06/25/2015 1749h											
Test Code: 8260-W-DEN100													
Chloroform	23.5	µg/L	SW8260C	0.153	1.00	20.00	0	118	50 - 146	21.9	7.19	25	
Methylene chloride	22.0	µg/L	SW8260C	0.172	1.00	20.00	0	110	30 - 192	20.6	6.58	25	
Surr: 1,2-Dichloroethane-d4	47.4	µg/L	SW8260C			50.00		94.7	72 - 151				
Surr: 4-Bromofluorobenzene	47.2	µg/L	SW8260C			50.00		94.3	80 - 152				
Surr: Dibromofluoromethane	46.7	µg/L	SW8260C			50.00		93.4	80 - 124				
Surr: Toluene-d8	47.0	µg/L	SW8260C			50.00		94.1	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1506524** Page 1 of 2

**Client:** Energy Fuels Resources, Inc. **Due Date:** 7/10/2015  
**Client ID:** DEN100 **Contact:** Garrin Palmer  
**Project:** June Ground Water 2015 **QC Level:** III **WO Type:** Project  
**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Samples for metals were field filtered.; DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506524-001A	MW-11_06232015	6/23/2015 1510h	6/25/2015 0905h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	df - dis met		1
				200.8-DIS-PR		df - dis met		
1506524-002A	MW-25_06232015	6/23/2015 1025h	6/25/2015 0905h	200.8-DIS <i>2 SEL Analytes: CD U</i>	Aqueous	df - dis met		1
				200.8-DIS-PR		df - dis met		
1506524-003A	MW-26_06242015	6/24/2015 1240h	6/25/2015 0905h	200.8-DIS <i>1 SEL Analytes: U</i>	Aqueous	df - dis met		1
				200.8-DIS-PR		df - dis met		
1506524-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		
1506524-003C				300.0-W <i>1 SEL Analytes: CL</i>		df - cl		
1506524-003D				8260-W-DEN100 <i>Test Group: 8260-W-DEN100; # of Analytes: 2 / # of Surr: 4</i>		VOCFridge		3
1506524-004A	MW-30_06242015	6/24/2015 1015h	6/25/2015 0905h	200.8-DIS <i>2 SEL Analytes: SE U</i>	Aqueous	df - dis met		1
				200.8-DIS-PR		df - dis met		
1506524-004B				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		df - no2/no3		
				NH3-W-PR		df - no2/no3		
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		
1506524-004C				300.0-W <i>1 SEL Analytes: CL</i>		df - cl		
1506524-005A	MW-31_06232015	6/23/2015 1235h	6/25/2015 0905h	200.8-DIS <i>1 SEL Analytes: SE</i>	Aqueous	df - dis met		1
				200.8-DIS-PR		df - dis met		
1506524-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3		

# WORK ORDER Summary

Work Order: **1506524** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 7/10/2015

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1506524-005C	MW-31_06232015	6/23/2015 1235h	6/25/2015 0905h	300.0-W	Aqueous		df - cl/so4	1
				2 SEL Analytes: CL SO4				
1506524-005D				TDS-W-2540C			df - tds	
				1 SEL Analytes: TDS				
1506524-006A	MW-35_06232015	6/23/2015 1405h	6/25/2015 0905h	200.8-DIS	Aqueous		df - dis met	1
				4 SEL Analytes: MN SE TL U				
				200.8-DIS-PR				
1506524-007A	MW-65_06242015	6/24/2015 1015h	6/25/2015 0905h	200.8-DIS	Aqueous		df - dis met	1
				2 SEL Analytes: SE U				
				200.8-DIS-PR				
1506524-007B				NH3-W-350.1				
	1 SEL Analytes: NH3N							
	NH3-W-PR							
	NO2/NO3-W-353.2							
	1 SEL Analytes: NO3NO2N							
1506524-007C				300.0-W			df - cl	
				1 SEL Analytes: CL				
1506524-008A	Trip Blank	6/23/2015	6/25/2015 0905h	8260-W-DEN100	Aqueous		VOCFridge	3
				Test Group: 8260-W-DEN100; # of Analytes: 2 / # of Surr: 4				



**AMERICAN WEST  
ANALYTICAL LABORATORIES**

463 W. 3600 S. SALT LAKE CITY, UT 84115  
 PHONE # (801) 263-8686 TOLL FREE # (888) 263-8686  
 FAX # (801) 263-8687 EMAIL AWAL@AWAL-LABS.COM  
 WWW.AWAL-LABS.COM

**CHAIN OF CUSTODY**

ALL ANALYSIS WILL BE CONDUCTED USING NELAP ACCREDITED METHODS AND ALL DATA WILL BE REPORTED USING AWAL'S STANDARD ANALYTE LISTS AND REPORTING LIMITS (PQL) UNLESS SPECIFICALLY REQUESTED OTHERWISE ON THIS CHAIN OF CUSTODY AND/OR ATTACHED DOCUMENTATION.

1506524  
 AWAL LAB SAMPLE SET #  
 PAGE 1 OF 1

CLIENT: **Energy Fuels Resources, Inc.**  
 ADDRESS: **6425 S. Hwy. 191**  
**Blanding, UT 84511**  
 CONTACT: **Garrin Palmer**  
 PHONE #: **(435) 678-2221** CELL #: \_\_\_\_\_  
 EMAIL: **gpalmer@energyfuels.com; kweinel@energyfuels.com;**  
**dturk@energyfuels.com**  
 PROJECT NAME: **June Ground Water 2015**  
 PROJECT #: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 SAMPLER NAME: **Tanner Holliday**

QC LEVEL:		TURN AROUND TIME:		UNLESS OTHER ARRANGMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.		DUE DATE:												
3		STANDARD				7/10/15												
				X INCLUDE EDD: LOCUS UPLOAD EXCEL		LABORATORY USE ONLY												
				X FIELD FILTERED FOR: Dissolved Metals		SAMPLES WERE:												
				FOR COMPLIANCE WITH:		1 SHIPPED OR HAND DELIVERED												
				<input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> NON-COMPLIANCE <input type="checkbox"/> OTHER: <th colspan="2">2 AMBIENT OR CHILLED</th>		2 AMBIENT OR CHILLED												
				KNOWN HAZARDS & SAMPLE COMMENTS		3 TEMPERATURE 2.0 °C												
						4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) Y N												
						5 PROPERLY PRESERVED Y N CHECKED AT BENCH Y N												
						6 RECEIVED WITHIN HOLDING TIMES Y N												
						1 PRESENT ON OUTER PACKAGE Y N NA												
						2 UNBROKEN ON OUTER PACKAGE Y N NA												
						3 PRESENT ON SAMPLE Y N NA												
						4 UNBROKEN ON SAMPLE Y N NA												
						DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD? Y N												
1	MW-11_06232015	6/23/2015	1510	1	W		X											
3	MW-25_06232015	6/23/2015	1025	1	W					X	X							
4	MW-26_06242015	6/24/2015	1240	6	W	X		X		X				X				
5	MW-30_06242015	6/24/2015	1015	3	W	X		X	X	X								
6	MW-31_06232015	6/23/2015	1235	4	W	X		X		X			X					
7	MW-35_06232015	6/23/2015	1405	1	W		X			X	X	X						
8	MW-65_06242015	6/24/2015	1015	3	W	X		X	X	X								
9	Trip Blank	6/23/2015		3	W									X				
10																		
11																		
12																		

RELINQUISHED BY: SIGNATURE: <i>Garrin Palmer</i>	DATE: <i>6/25/15</i>	RECEIVED BY: SIGNATURE: <i>Denise Bruun</i>	DATE: <i>6/25/15</i>	SPECIAL INSTRUCTIONS: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
PRINT NAME: <i>Garrin Palmer</i>	TIME: <i>0905</i>	PRINT NAME: <i>Denise Bruun</i>	TIME: <i>0905</i>	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006	-007										
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>				yes	yes		yes										
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>				yes	#	25/14	yes										
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO <sub>3</sub>	yes	yes	yes	yes	yes	yes	yes										
NO <sub>2</sub> & NO <sub>3</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>			yes	yes	yes	yes	yes										
O & G	pH <2 HCL																	
Phenols	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
Sulfide	pH > 9NaOH, Zn Acetate																	
TKN	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
T PO <sub>4</sub>	pH <2 H <sub>2</sub> SO <sub>4</sub>																	

- Procedure:
- 1) Pour a small amount of sample in the sample lid
  - 2) Pour sample from Lid gently over wide range pH paper
  - 3) **Do Not** dip the pH paper in the sample bottle or lid
  - 4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
  - 5) Flag COC, notify client if requested
  - 6) Place client conversation on COC
  - 7) Samples may be adjusted

Frequency: All samples requiring preservation

- \* The sample required additional preservative upon receipt.
- + The sample was received unpreserved.
- ▲ The sample was received unpreserved and therefore preserved upon receipt.
- # The sample pH was unadjustable to a pH < 2 due to the sample matrix.
- The sample pH was unadjustable to a pH > \_\_\_\_ due to the sample matrix interference.



July 01, 2015

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 374570

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 08, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson  
Project Manager

Purchase Order: DW16138  
Enclosures



**Receipt Narrative**  
**for**  
**Energy Fuels Resources (USA), Inc.**  
**SDG: 374570**

**July 01, 2015**

**Laboratory Identification:**

GEL Laboratories LLC  
2040 Savage Road  
Charleston, South Carolina 29407  
(843) 556-8171

**Summary:**

**Sample receipt:** The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on June 08, 2015 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

**Sample Identification:** The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
374570001	MW-35_06022015

**Case Narrative:**

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.



Julie Robinson  
Project Manager



**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DNMI</u>		SDG/AR/COC/Work Order: <u>374570</u>	
Received By: <u>Brielle Luthman</u>		Date Received: <u>6/8/15</u> <u>850</u>	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 CPM</u>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?		<input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		<input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			<input checked="" type="checkbox"/>	Preservation Method: ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius <u>27</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>E5032015835</u> Secondary Temperature Device Serial # (If Applicable):
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 Do Low Level Perchlorate samples (EPA 6850) have headspace as required?			<input checked="" type="checkbox"/>	Sample ID's and containers affected:
7 VOA vials free of headspace (defined as < 6mm bubble)?			<input checked="" type="checkbox"/>	Sample ID's and containers affected:
8 Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
9 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
10 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
11 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
13 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
14 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
15 Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>8004 811 2 1381</u>

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials ju Date 6-8-15 Page 1 of 1 GL-CHL-SR-001 Rev 1

# GEL Laboratories LLC – Login Review Report

Report Date: 01-JUL-15  
 Work Order: 374570  
 Page 1 of 2

GEL Work Order/SDG: 374570      2nd Quarter GW 2015  
 Client SDG: 374570  
 Project Manager: Julie Robinson  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 07-JUL-15  
 Package Due Date: 04-JUL-15  
 EDD Due Date: 07-JUL-15  
 Due Date: 07-JUL-15  
 JAR1

Collector: C  
 Prelogin #: 20150429171  
 Project Workdef ID: 1294356  
 SDG Status: Closed  
 Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
374570001	MW-35_06022015		02-JUN-15 08:05	08-JUN-15 08:50	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-35_06022015	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 27

Product: GFCTORAL    Workdef ID: 1297250    In Product Group? No    Group Name:    Group Reference:  
 Method: EPA 900.1 Modified    Path: Standard  
 Product Description: GFPC, Total Alpha Radium, Liquid    Product Reference: Gross Alpha  
 Samples: 001    Moisture Correction: "As Received"  
 Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action	Product Name	Description	Samples
Contingent Tests			

**Login Requirements:**

Requirement	Include?	Comments

# GEL Laboratories LLC – Login Review Report

Report Date: 01-JUL-15  
Work Order: 374570  
Page 2 of 2

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**Radiochemistry  
Technical Case Narrative  
Energy Fuels Resources (DNMI)  
SDG #: 374570**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1485844

<b>Sample ID</b>	<b>Client ID</b>
374570001	MW-35_06022015
1203337621	Method Blank (MB)
1203337625	Laboratory Control Sample (LCS)
1203337622	374145002(MW-20_05272015) Sample Duplicate (DUP)
1203337623	374145002(MW-20_05272015) Matrix Spike (MS)
1203337624	374145002(MW-20_05272015) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

**SOP Reference**

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

**Calibration Information:**

**Calibration Information**

All initial and continuing calibration requirements have been met.

**Standards Information**

Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

**Sample Geometry**

All counting sources were prepared in the same geometry as the calibration standards.

**Quality Control (QC) Information:**

**Blank Information**

The blank volume is representative of the sample volume in this batch.

**Designated QC**

The following sample was used for QC: 374145002 (MW-20\_05272015).

**QC Information**

All of the QC samples met the required acceptance limits.

**Technical Information:**

**Holding Time**

All sample procedures for this sample set were performed within the required holding time.

**Sample Re-prep/Re-analysis**

None of the samples in this sample set required reprep or reanalysis.

**Chemical Recoveries**

All chemical recoveries meet the required acceptance limits for this sample set.

**Recounts**

None of the samples in this sample set were recounted.

**Miscellaneous Information:**

**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

**Sample-Specific MDA/MDC**

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

**Additional Comments**

The matrix spike and matrix spike duplicate, 1203337623 (MW-20\_05272015MS) and 1203337624 (MW-20\_05272015MSD), aliquots were reduced to conserve sample volume.

**Qualifier Information**

Manual qualifiers were not required.

**Certification Statement**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

## GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

### Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 374570 GEL Work Order: 374570

**The Qualifiers in this report are defined as follows:**

- \* A quality control analyte recovery is outside of specified acceptance criteria
- \*\* Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

**Review/Validation**

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

**Signature:**



**Name:** Kate Gellatly

**Date:** 01 JUL 2015

**Title:** Analyst I

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: July 1, 2015

Page 1 of 2

**Energy Fuels Resources (USA), Inc.**  
**225 Union Boulevard**  
**Suite 600**  
**Lakewood, Colorado**

**Contact: Ms. Kathy Weinel**

**Workorder: 374570**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1485844										
QC1203337622	374145002	DUP									
Gross Radium Alpha		U	0.0339	U	0.214	pCi/L	N/A		N/A AXM6	06/29/15	09:50
		Uncertainty	+/-0.151		+/-0.170						
QC1203337625	LCS										
Gross Radium Alpha		413			369	pCi/L	89.5	(75%-125%)		06/29/15	09:49
		Uncertainty			+/-3.89						
QC1203337621	MB										
Gross Radium Alpha				U	-0.187	pCi/L				06/29/15	09:50
		Uncertainty			+/-0.0516						
QC1203337623	374145002	MS									
Gross Radium Alpha		1670	U	0.0339	1580	pCi/L	94.6	(75%-125%)		06/29/15	09:50
		Uncertainty		+/-0.151	+/-15.6						
QC1203337624	374145002	MSD									
Gross Radium Alpha		1670	U	0.0339	1690	pCi/L	6.86	101	(0%-20%)	06/29/15	09:50
		Uncertainty		+/-0.151	+/-16.5						

**Notes:**

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- \*\* Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

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## QC Summary

Workorder: 374570

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier											
Q											
One or more quality control criteria have not been met. Refer to the applicable narrative or DER.											
R											
Sample results are rejected											
U											
Analyte was analyzed for, but not detected above the CRDL.											
UI											
Gamma Spectroscopy--Uncertain identification											
UJ											
Gamma Spectroscopy--Uncertain identification											
UL											
Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.											
X											
Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier											
Y											
QC Samples were not spiked with this compound											
^											
RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.											
h											
Preparation or preservation holding time was exceeded											

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

\* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Tab G

Quality Assurance and Data Validation Tables

G-1A: Routine Field Data QA/QC Evaluation

Well	Sample Date	Time Req'd for 2 Casings	Time Pumped (min)	Amount Sufficient?	Conductance		RPD(%)	pH		RPD(%)	Temp (°C)		RPD(%)	Redox Potential (Eh)		RPD(%)	Turbidity (NTU)		>5 NTU	RPD(%)
MW-01	4/15/2015	182.48	185	Y	1972	1975	0.15	7.16	7.15	0.14	14.53	14.50	0.21	305	300	1.65	0	0	N	0.00
MW-02	4/21/2015	114.95	120	Y	3742	3735	0.19	6.96	6.94	0.29	14.55	14.58	0.21	348	346	0.58	0	0	N	0.00
MW-02 Resample	4/28/2015	113.68	120	Y	3726	3763	0.99	7.02	7.01	0.14	15.42	15.41	0.06	359	357	0.56	0	0	N	0.00
MW-03	4/23/2015	51.02	60	Y	5717	5718	0.02	6.18	6.18	0.00	14.51	14.50	0.07	430	430	0.00	0	0	N	0.00
MW-03 Resample	4/29/2015	47.28	60	Y	5770	5726	0.77	6.52	6.51	0.15	16.94	16.90	0.24	396	397	0.25	0	0	N	0.00
MW-03 Resample	5/20/2015	50.10	55	Y	5612	5673	1.08	6.23	6.23	0.00	14.87	14.82	0.34	403	403	0.00	0	0	N	0.00
MW-03A	4/23/2015	65.86	70	Pumped dry	5999	6012	0.22	6.58	6.59	0.15	13.95	14.05	0.71	NM	NC	NC	NM	NM	N	NC
MW-03A Resample	4/29/2015	59.02	60	Y	5928	5926	0.03	6.24	6.24	0.00	18.27	18.28	0.05	353	353	0.00	1.2	1.3	N	8.00
MW-05	4/21/2015	194.93	220	Y	2959	2964	0.17	7.31	7.32	0.14	15.49	15.51	0.13	251	245	2.42	7.0	7.0	Y	0.00
MW-05 Resample	4/27/2015	194.09	200	Y	3006	3009	0.10	7.25	7.23	0.28	14.78	14.80	0.14	327	323	1.23	11.2	11.2	Y	0.00
MW-11	4/8/2015	265.17	270	Y	2948	2940	0.27	7.03	7.05	0.28	14.95	14.96	0.07	316	300	5.19	1.1	1.1	N	0.00
MW-12	4/21/2015	133.60	145	Y	4182	4180	0.05	6.51	6.50	0.15	15.54	15.50	0.26	370	369	0.27	1.0	1.0	N	0.00
MW-12 Resample	4/28/2015	131.56	135	Y	4263	4259	0.09	6.70	6.70	0.00	15.08	15.05	0.20	377	372	1.34	2.8	2.8	N	0.00
MW-14	4/8/2015	155.45	160	Y	3940	3940	0.00	6.53	6.55	0.31	14.47	14.40	0.48	377	376	0.27	0	0	N	0.00
MW-15	4/13/2015	184.64	190	Y	4318	4325	0.16	6.83	6.82	0.15	15.25	15.26	0.07	378	379	0.26	0	0	N	0.00
MW-17	4/22/2015	273.53	305	Y	3901	3911	0.26	6.75	6.75	0.00	15.14	15.10	0.26	368	365	0.82	295	294	Y	0.34
MW-17 Resample	4/29/2015	239.23	240	Y	3907	3910	0.08	6.82	6.79	0.44	14.75	14.75	0.00	377	376	0.27	2.2	2.2	N	0.00
MW-18	4/15/2015	375.85	380	Y	3516	3511	0.14	6.42	6.40	0.31	14.17	14.19	0.14	398	395	0.76	1.0	1.0	N	0.00
MW-19	4/14/2015	532.93	540	Y	1525	1523	0.13	6.80	6.79	0.15	15.20	15.23	0.20	375	373	0.53	0	0	N	0.00
MW-20	5/27/2015	N/A	N/A	Bailed dry	5879	5901	0.37	7.48	7.46	0.27	17.40	17.29	0.63	NM	NC	NC	NM	NM	N	NC
MW-20 Resample	6/24/2015	N/A	N/A	Bailed dry	5372	5425	0.98	8.55	8.52	0.35	18.03	17.99	0.22	NM	NC	NC	NM	NM	N	NC
MW-22	4/22/2015	253.13	260	Y	7864	7867	0.04	4.50	4.50	0.00	15.20	15.11	0.59	495	500	1.01	4.3	4.4	N	2.30
MW-22 Resample	4/29/2015	282.26	300	Y	7074	7049	0.35	4.81	4.80	0.21	15.08	15.06	0.13	475	477	0.42	5.8	5.9	Y	1.71
MW-23	4/30/2015	113.01	120	Pumped dry	3914	3918	0.10	6.84	6.80	0.59	14.42	14.45	0.21	NM	NC	NC	NM	NM	N	NC
MW-24	5/28/2015	45.02	50	Pumped dry	4417	4392	0.57	5.43	5.39	0.74	14.83	14.90	0.47	NM	NC	NC	NM	NM	N	NC
MW-24 Resample	6/24/2015	45.23	60	Pumped dry	2243	2371	5.55	6.01	5.98	0.50	17.04	17.08	0.23	NM	NC	NC	NM	NM	N	NC
MW-25	4/7/2015	237.84	255	Y	3216	3205	0.34	6.51	6.52	0.15	14.84	14.80	0.27	416	412	0.97	6.5	6.7	Y	3.03
MW-26	4/9/2015		NA			3465	NC	6.60		200.00	15.24		200.00	326	NC	NC	0		N	NC
MW-27	4/20/2015	250.24	260	Y	1529	1534	0.33	7.10	7.09	0.14	15.42	15.45	0.19	375	374	0.27	0	0	N	0.00
MW-27 Resample	4/28/2015	249.94	255	Y	1519	1520	0.07	7.12	7.10	0.28	15.26	15.25	0.07	382	383	0.26	0	0	N	0.00
MW-28	4/21/2015	208.83	210	Y	4043	4041	0.05	6.08	6.08	0.00	14.89	14.87	0.13	402	400	0.50	0	0	N	0.00
MW-28 Resample	4/27/2015	208.17	210	Y	4051	4054	0.07	6.18	6.17	0.16	14.45	14.41	0.28	421	422	0.24	0	0	N	0.00
MW-29	4/30/2015	156.35	160	Y	4682	4686	0.09	6.38	6.36	0.31	14.70	14.68	0.14	283	280	1.07	9.4	9.5	Y	1.06
MW-30	4/8/2015	210.43	215	Y	2062	2063	0.05	6.67	6.67	0.00	14.55	14.54	0.07	358	355	0.84	0	0	N	0.00
MW-31	4/7/2015	370.61	390	Y	2179	2163	0.74	6.76	6.80	0.59	14.67	14.68	0.07	404	401	0.75	0	0.0	N	0.00
MW-32	4/8/2015	336.86	345	Y	3871	3868	0.08	6.40	6.37	0.47	14.39	14.38	0.07	242	235	2.94	65	66	Y	1.53
MW-35	4/9/2015	72.76	75	Y	4186	4183	0.07	6.65	6.64	0.15	13.60	13.61	0.07	272	274	0.73	0	0	N	0.00
MW-36	4/16/2015	67.40	70	Y	4949	4949	0.00	6.86	6.87	0.15	13.92	13.90	0.14	416	416	0.00	0	0	N	0.00
MW-37	5/27/2015	N/A	N/A	Bailed dry	4267	4315	1.12	6.85	6.82	0.44	16.78	16.49	1.74	NM	NC	NC	NM	NM	N	NC
MW-37 Resample	6/24/2015	N/A	N/A	Bailed dry	4336	4349	0.30	6.75	6.74	0.15	15.75	15.69	0.38	NM	NC	NC	NM	NM	N	NC

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only.

MW-26 is a continuously pumped well.

Well was purged dry.

N/A = The amount of water in the well was insufficient to purge. The pump was not able to operate due to the minimal amount of water. The well was purged and sampled with a bailer.

NM = Not Measured. The QAP does not require the measurement of redox potential or turbidity in wells that were purged to dryness.

NC = Not calculated.

Well was purged dry after 2 casing volumes were removed.

G-1B: Accelerated Field Data QA/QC Evaluation

Well	Sample Date	Time Req'd for 2 Casings	Time Pumped (min)	Amount Sufficient?	Conductance		RPD (%)	pH		RPD (%)	Temp (°C)		RPD (%)	Redox Potential (Eh)		RPD (%)	Turbidity (NTU)		<5 (NTU)	RPD (%)
<b>Accelerated May Monthly</b>																				
MW-11	5/11/2015	263.00	270	Y	2875	2874	0.03	7.25	7.26	0.14	15.10	15.12	0.13	300	295	1.68	0	0	Y	0.00
MW-14	5/11/2015	153.10	160	Y	3843	3862	0.49	6.31	6.30	0.16	15.29	15.25	0.26	350	349	0.29	0	0	Y	0.00
MW-25	5/11/2015	235.92	240	Y	3177	3172	0.16	6.44	6.46	0.31	14.56	14.53	0.21	433	432	0.23	0	0	Y	0.00
MW-26	5/12/2015		NA		3378		NC	6.46		NC	15.01		NC	319		NC	0		Y	NC
MW-30	5/12/2015	208.41	210	Y	2049	2048	0.05	6.75	6.76	0.15	14.65	14.64	0.07	257	263	2.31	0	0	Y	0.00
MW-31	5/11/2015	369.83	380	Y	2180	2163	0.78	6.70	6.74	0.60	15.30	15.25	0.33	376	373	0.80	0	0	Y	0.00
MW-35	5/12/2015	72.82	75	Y	4124	4126	0.05	6.46	6.46	0.00	14.27	14.24	0.21	365	362	0.83	0	0	Y	0.00
<b>Accelerated June Monthly</b>																				
MW-11	6/1/2015	259.33	270	Y	2915	2925	0.34	7.56	7.53	0.40	15.42	15.40	0.13	356	349	1.99	0	0	Y	0.00
MW-11 Resample	6/23/2015	263.30	270	Y	2851	2881	1.05	7.40	7.39	0.14	15.29	15.27	0.13	236	230	2.58	0	0	Y	0.00
MW-14	6/1/2015	153.47	155	Y	3962	3973	0.28	6.68	6.65	0.45	15.02	15.00	0.13	415	416	0.24	0	0	Y	0.00
MW-25	6/1/2015	229.60	240	Y	3220	3226	0.19	6.60	6.59	0.15	14.93	14.93	0.00	462	462	0.00	22	22	N	0.00
MW-25 Resample	6/23/2015	234.77	240	Y	3169	3169	0.00	6.53	6.53	0.00	15.09	15.08	0.07	355	354	0.28	18	18	N	0.00
MW-26	6/3/2015		NA		3498		NC	6.58		NC	16.64		NC	406		NC	0.0		Y	NC
MW-26 Resample	6/24/2015		NA		3560		NC	6.20		NC	16.25		NC	376		NC	1.5		Y	NC
MW-30	6/2/2015	208.23	210	Y	2136	2135	0.05	6.95	6.94	0.14	15.37	15.39	0.13	400	399	0.25	0	0	Y	0.00
MW-30 Resample	6/24/2015	207.63	210	Y	2046	2042	0.20	6.31	6.32	0.16	14.97	14.97	0.00	450	448	0.45	0	0	Y	0.00
MW-31	6/1/2015	370.19	375	Y	2202	2208	0.27	7.15	7.14	0.14	15.56	15.51	0.32	431	431	0.00	2.1	2.0	Y	0.00
MW-31 Resample	6/23/2015	369.83	375	Y	2177	2178	0.05	7.10	7.08	0.28	15.37	15.35	0.13	328	328	0.00	114	118	N	0.00
MW-35	6/2/2015	73.18	75	Y	4181	4182	0.02	6.52	6.50	0.31	14.65	14.62	0.20	408	405	0.74	0	0	Y	0.00
MW-35 Resample	6/23/2015	72.82	75	Y	4198	4180	0.43	6.43	6.41	0.31	15.75	15.72	0.19	330	327	0.91	0	0	Y	0.00

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only. MW-26 is a continuously pumped well.

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	2-Butanone	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Acetone	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Benzene	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Carbon tetrachloride	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Chloroform	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Chloromethane	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Methylene chloride	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Naphthalene	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Tetrahydrofuran	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Toluene	4/7/2015	4/13/2015	6	14	OK
Trip Blank	Xylenes, Total	4/7/2015	4/13/2015	6	14	OK
Trip Blank	2-Butanone	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Acetone	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Benzene	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Carbon tetrachloride	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Chloroform	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Chloromethane	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Methylene chloride	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Naphthalene	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Tetrahydrofuran	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Toluene	4/13/2015	4/20/2015	7	14	OK
Trip Blank	Xylenes, Total	4/13/2015	4/20/2015	7	14	OK
Trip Blank	2-Butanone	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Acetone	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Benzene	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Carbon tetrachloride	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Chloroform	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Chloromethane	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Methylene chloride	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Naphthalene	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Tetrahydrofuran	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Toluene	4/27/2015	5/1/2015	4	14	OK
Trip Blank	Xylenes, Total	4/27/2015	5/1/2015	4	14	OK
Trip Blank	2-Butanone	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Acetone	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Benzene	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Carbon tetrachloride	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Chloroform	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Chloromethane	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Methylene chloride	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Naphthalene	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Tetrahydrofuran	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Toluene	6/24/2015	6/25/2015	1	14	OK
Trip Blank	Xylenes, Total	6/24/2015	6/25/2015	1	14	OK
MW-01	2-Butanone	4/15/2015	4/20/2015	5	14	OK
MW-01	Acetone	4/15/2015	4/20/2015	5	14	OK
MW-01	Ammonia (as N)	4/15/2015	4/22/2015	7	28	OK
MW-01	Arsenic	4/15/2015	4/22/2015	7	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-01	Benzene	4/15/2015	4/20/2015	5	14	OK
MW-01	Beryllium	4/15/2015	4/22/2015	7	180	OK
MW-01	Bicarbonate (as CaCO3)	4/15/2015	4/20/2015	5	14	OK
MW-01	Cadmium	4/15/2015	4/22/2015	7	180	OK
MW-01	Calcium	4/15/2015	4/27/2015	12	180	OK
MW-01	Carbon tetrachloride	4/15/2015	4/20/2015	5	14	OK
MW-01	Carbonate (as CaCO3)	4/15/2015	4/20/2015	5	14	OK
MW-01	Chloride	4/15/2015	4/20/2015	5	28	OK
MW-01	Chloroform	4/15/2015	4/20/2015	5	14	OK
MW-01	Chloromethane	4/15/2015	4/20/2015	5	14	OK
MW-01	Chromium	4/15/2015	4/22/2015	7	180	OK
MW-01	Cobalt	4/15/2015	4/22/2015	7	180	OK
MW-01	Copper	4/15/2015	4/22/2015	7	180	OK
MW-01	Fluoride	4/15/2015	4/20/2015	5	28	OK
MW-01	Gross Radium Alpha	4/15/2015	5/5/2015	20	180	OK
MW-01	Iron	4/15/2015	4/22/2015	7	180	OK
MW-01	Lead	4/15/2015	4/22/2015	7	180	OK
MW-01	Magnesium	4/15/2015	4/27/2015	12	180	OK
MW-01	Manganese	4/15/2015	4/22/2015	7	180	OK
MW-01	Mercury	4/15/2015	4/24/2015	9	180	OK
MW-01	Methylene chloride	4/15/2015	4/20/2015	5	14	OK
MW-01	Molybdenum	4/15/2015	4/22/2015	7	180	OK
MW-01	Naphthalene	4/15/2015	4/20/2015	5	14	OK
MW-01	Nickel	4/15/2015	4/22/2015	7	180	OK
MW-01	Nitrate/Nitrite (as N)	4/15/2015	4/21/2015	6	28	OK
MW-01	Potassium	4/15/2015	4/27/2015	12	180	OK
MW-01	Selenium	4/15/2015	4/22/2015	7	180	OK
MW-01	Silver	4/15/2015	4/22/2015	7	180	OK
MW-01	Sodium	4/15/2015	4/27/2015	12	180	OK
MW-01	Sulfate	4/15/2015	4/21/2015	6	28	OK
MW-01	Tetrahydrofuran	4/15/2015	4/20/2015	5	14	OK
MW-01	Thallium	4/15/2015	4/22/2015	7	180	OK
MW-01	Tin	4/15/2015	4/22/2015	7	180	OK
MW-01	Toluene	4/15/2015	4/20/2015	5	14	OK
MW-01	Total Dissolved Solids	4/15/2015	4/17/2015	2	7	OK
MW-01	Uranium	4/15/2015	4/22/2015	7	180	OK
MW-01	Vanadium	4/15/2015	4/27/2015	12	180	OK
MW-01	Xylenes, Total	4/15/2015	4/20/2015	5	14	OK
MW-01	Zinc	4/15/2015	4/30/2015	15	180	OK
MW-02	Ammonia (as N)	4/21/2015	4/28/2015	7	28	OK
MW-02	Arsenic	4/21/2015	5/5/2015	14	180	OK
MW-02	Beryllium	4/21/2015	5/5/2015	14	180	OK
MW-02	Bicarbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-02	Cadmium	4/21/2015	5/5/2015	14	180	OK
MW-02	Calcium	4/21/2015	5/6/2015	15	180	OK
MW-02	Carbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-02	Chloride	4/21/2015	4/28/2015	7	28	OK
MW-02	Chromium	4/21/2015	5/5/2015	14	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-02	Cobalt	4/21/2015	5/5/2015	14	180	OK
MW-02	Copper	4/21/2015	5/5/2015	14	180	OK
MW-02	Fluoride	4/21/2015	4/28/2015	7	28	OK
MW-02	Gross Radium Alpha	4/21/2015	5/14/2015	23	180	OK
MW-02	Iron	4/21/2015	5/5/2015	14	180	OK
MW-02	Lead	4/21/2015	5/5/2015	14	180	OK
MW-02	Magnesium	4/21/2015	5/6/2015	15	180	OK
MW-02	Manganese	4/21/2015	5/7/2015	16	180	OK
MW-02	Mercury	4/21/2015	5/5/2015	14	180	OK
MW-02	Molybdenum	4/21/2015	5/5/2015	14	180	OK
MW-02	Nickel	4/21/2015	5/5/2015	14	180	OK
MW-02	Nitrate/Nitrite (as N)	4/21/2015	5/7/2015	16	28	OK
MW-02	Potassium	4/21/2015	5/8/2015	17	180	OK
MW-02	Selenium	4/21/2015	5/5/2015	14	180	OK
MW-02	Silver	4/21/2015	5/5/2015	14	180	OK
MW-02	Sodium	4/21/2015	5/6/2015	15	180	OK
MW-02	Sulfate	4/21/2015	4/27/2015	6	28	OK
MW-02	Thallium	4/21/2015	5/5/2015	14	180	OK
MW-02	Tin	4/21/2015	5/5/2015	14	180	OK
MW-02	Total Dissolved Solids	4/21/2015	4/27/2015	6	7	OK
MW-02	Uranium	4/21/2015	5/5/2015	14	180	OK
MW-02	Vanadium	4/21/2015	5/7/2015	16	180	OK
MW-02	Zinc	4/21/2015	5/7/2015	16	180	OK
MW-02	2-Butanone	4/28/2015	5/1/2015	3	14	OK
MW-02	Acetone	4/28/2015	5/1/2015	3	14	OK
MW-02	Benzene	4/28/2015	5/1/2015	3	14	OK
MW-02	Carbon tetrachloride	4/28/2015	5/1/2015	3	14	OK
MW-02	Chloroform	4/28/2015	5/1/2015	3	14	OK
MW-02	Chloromethane	4/28/2015	5/1/2015	3	14	OK
MW-02	Methylene chloride	4/28/2015	5/1/2015	3	14	OK
MW-02	Naphthalene	4/28/2015	5/1/2015	3	14	OK
MW-02	Tetrahydrofuran	4/28/2015	5/1/2015	3	14	OK
MW-02	Toluene	4/28/2015	5/1/2015	3	14	OK
MW-02	Xylenes, Total	4/28/2015	5/1/2015	3	14	OK
MW-03	Ammonia (as N)	4/23/2015	5/13/2015	20	28	OK
MW-03	Arsenic	4/23/2015	5/5/2015	12	180	OK
MW-03	Beryllium	4/23/2015	5/5/2015	12	180	OK
MW-03	Bicarbonate (as CaCO3)	4/23/2015	4/27/2015	4	14	OK
MW-03	Cadmium	4/23/2015	5/5/2015	12	180	OK
MW-03	Calcium	4/23/2015	5/6/2015	13	180	OK
MW-03	Carbonate (as CaCO3)	4/23/2015	4/27/2015	4	14	OK
MW-03	Chloride	4/23/2015	4/28/2015	5	28	OK
MW-03	Chromium	4/23/2015	5/5/2015	12	180	OK
MW-03	Cobalt	4/23/2015	5/5/2015	12	180	OK
MW-03	Copper	4/23/2015	5/5/2015	12	180	OK
MW-03	Fluoride	4/23/2015	4/28/2015	5	28	OK
MW-03	Gross Radium Alpha	4/23/2015	5/14/2015	21	180	OK
MW-03	Iron	4/23/2015	5/5/2015	12	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-03	Lead	4/23/2015	5/5/2015	12	180	OK
MW-03	Magnesium	4/23/2015	5/6/2015	13	180	OK
MW-03	Manganese	4/23/2015	5/7/2015	14	180	OK
MW-03	Mercury	4/23/2015	5/5/2015	12	180	OK
MW-03	Molybdenum	4/23/2015	5/5/2015	12	180	OK
MW-03	Nickel	4/23/2015	5/5/2015	12	180	OK
MW-03	Nitrate/Nitrite (as N)	4/23/2015	5/7/2015	14	28	OK
MW-03	Potassium	4/23/2015	5/8/2015	15	180	OK
MW-03	Selenium	4/23/2015	5/5/2015	12	180	OK
MW-03	Silver	4/23/2015	5/5/2015	12	180	OK
MW-03	Sodium	4/23/2015	5/6/2015	13	180	OK
MW-03	Sulfate	4/23/2015	4/27/2015	4	28	OK
MW-03	Thallium	4/23/2015	5/5/2015	12	180	OK
MW-03	Tin	4/23/2015	5/5/2015	12	180	OK
MW-03	Total Dissolved Solids	4/23/2015	4/27/2015	4	7	OK
MW-03	Uranium	4/23/2015	5/5/2015	12	180	OK
MW-03	Vanadium	4/23/2015	5/7/2015	14	180	OK
MW-03	Zinc	4/23/2015	5/7/2015	14	180	OK
MW-03	2-Butanone	4/29/2015	5/1/2015	2	14	OK
MW-03	Acetone	4/29/2015	5/1/2015	2	14	OK
MW-03	Benzene	4/29/2015	5/1/2015	2	14	OK
MW-03	Carbon tetrachloride	4/29/2015	5/1/2015	2	14	OK
MW-03	Chloroform	4/29/2015	5/1/2015	2	14	OK
MW-03	Chloromethane	4/29/2015	5/1/2015	2	14	OK
MW-03	Methylene chloride	4/29/2015	5/1/2015	2	14	OK
MW-03	Naphthalene	4/29/2015	5/1/2015	2	14	OK
MW-03	Tetrahydrofuran	4/29/2015	5/1/2015	2	14	OK
MW-03	Toluene	4/29/2015	5/1/2015	2	14	OK
MW-03	Xylenes, Total	4/29/2015	5/1/2015	2	14	OK
MW-03	Arsenic	5/20/2015	5/29/2015	9	180	OK
MW-03	Beryllium	5/20/2015	5/29/2015	9	180	OK
MW-03	Cadmium	5/20/2015	5/29/2015	9	180	OK
MW-03	Calcium	5/20/2015	6/4/2015	15	180	OK
MW-03	Chromium	5/20/2015	5/29/2015	9	180	OK
MW-03	Cobalt	5/20/2015	5/29/2015	9	180	OK
MW-03	Copper	5/20/2015	5/29/2015	9	180	OK
MW-03	Iron	5/20/2015	5/29/2015	9	180	OK
MW-03	Lead	5/20/2015	5/29/2015	9	180	OK
MW-03	Magnesium	5/20/2015	6/4/2015	15	180	OK
MW-03	Manganese	5/20/2015	5/29/2015	9	180	OK
MW-03	Mercury	5/20/2015	5/28/2015	8	180	OK
MW-03	Molybdenum	5/20/2015	5/29/2015	9	180	OK
MW-03	Nickel	5/20/2015	5/29/2015	9	180	OK
MW-03	Potassium	5/20/2015	5/26/2015	6	180	OK
MW-03	Selenium	5/20/2015	5/29/2015	9	180	OK
MW-03	Silver	5/20/2015	5/29/2015	9	180	OK
MW-03	Sodium	5/20/2015	6/4/2015	15	180	OK
MW-03	Thallium	5/20/2015	5/29/2015	9	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-03	Tin	5/20/2015	5/29/2015	9	180	OK
MW-03	Uranium	5/20/2015	5/29/2015	9	180	OK
MW-03	Vanadium	5/20/2015	5/26/2015	6	180	OK
MW-03	Zinc	5/20/2015	5/29/2015	9	180	OK
MW-03A	Ammonia (as N)	4/23/2015	4/28/2015	5	28	OK
MW-03A	Arsenic	4/23/2015	5/5/2015	12	180	OK
MW-03A	Beryllium	4/23/2015	5/5/2015	12	180	OK
MW-03A	Bicarbonate (as CaCO3)	4/23/2015	4/27/2015	4	14	OK
MW-03A	Cadmium	4/23/2015	5/5/2015	12	180	OK
MW-03A	Calcium	4/23/2015	5/6/2015	13	180	OK
MW-03A	Carbonate (as CaCO3)	4/23/2015	4/27/2015	4	14	OK
MW-03A	Chloride	4/23/2015	4/28/2015	5	28	OK
MW-03A	Chromium	4/23/2015	5/5/2015	12	180	OK
MW-03A	Cobalt	4/23/2015	5/5/2015	12	180	OK
MW-03A	Copper	4/23/2015	5/5/2015	12	180	OK
MW-03A	Fluoride	4/23/2015	4/28/2015	5	28	OK
MW-03A	Gross Radium Alpha	4/23/2015	5/15/2015	22	180	OK
MW-03A	Iron	4/23/2015	5/5/2015	12	180	OK
MW-03A	Lead	4/23/2015	5/5/2015	12	180	OK
MW-03A	Magnesium	4/23/2015	5/6/2015	13	180	OK
MW-03A	Manganese	4/23/2015	5/7/2015	14	180	OK
MW-03A	Mercury	4/23/2015	5/5/2015	12	180	OK
MW-03A	Molybdenum	4/23/2015	5/5/2015	12	180	OK
MW-03A	Nickel	4/23/2015	5/5/2015	12	180	OK
MW-03A	Nitrate/Nitrite (as N)	4/23/2015	5/7/2015	14	28	OK
MW-03A	Potassium	4/23/2015	5/8/2015	15	180	OK
MW-03A	Selenium	4/23/2015	5/5/2015	12	180	OK
MW-03A	Silver	4/23/2015	5/5/2015	12	180	OK
MW-03A	Sodium	4/23/2015	5/6/2015	13	180	OK
MW-03A	Sulfate	4/23/2015	4/27/2015	4	28	OK
MW-03A	Thallium	4/23/2015	5/5/2015	12	180	OK
MW-03A	Tin	4/23/2015	5/5/2015	12	180	OK
MW-03A	Total Dissolved Solids	4/23/2015	4/27/2015	4	7	OK
MW-03A	Uranium	4/23/2015	5/5/2015	12	180	OK
MW-03A	Vanadium	4/23/2015	5/7/2015	14	180	OK
MW-03A	Zinc	4/23/2015	5/7/2015	14	180	OK
MW-03A	2-Butanone	4/29/2015	5/1/2015	2	14	OK
MW-03A	Acetone	4/29/2015	5/1/2015	2	14	OK
MW-03A	Benzene	4/29/2015	5/1/2015	2	14	OK
MW-03A	Carbon tetrachloride	4/29/2015	5/1/2015	2	14	OK
MW-03A	Chloroform	4/29/2015	5/1/2015	2	14	OK
MW-03A	Chloromethane	4/29/2015	5/1/2015	2	14	OK
MW-03A	Methylene chloride	4/29/2015	5/1/2015	2	14	OK
MW-03A	Naphthalene	4/29/2015	5/1/2015	2	14	OK
MW-03A	Tetrahydrofuran	4/29/2015	5/1/2015	2	14	OK
MW-03A	Toluene	4/29/2015	5/1/2015	2	14	OK
MW-03A	Xylenes, Total	4/29/2015	5/1/2015	2	14	OK
MW-05	Ammonia (as N)	4/21/2015	4/28/2015	7	28	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-05	Arsenic	4/21/2015	5/5/2015	14	180	OK
MW-05	Beryllium	4/21/2015	5/5/2015	14	180	OK
MW-05	Bicarbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-05	Cadmium	4/21/2015	5/5/2015	14	180	OK
MW-05	Calcium	4/21/2015	5/6/2015	15	180	OK
MW-05	Carbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-05	Chloride	4/21/2015	4/28/2015	7	28	OK
MW-05	Chromium	4/21/2015	5/5/2015	14	180	OK
MW-05	Cobalt	4/21/2015	5/5/2015	14	180	OK
MW-05	Copper	4/21/2015	5/5/2015	14	180	OK
MW-05	Fluoride	4/21/2015	4/28/2015	7	28	OK
MW-05	Gross Radium Alpha	4/21/2015	5/15/2015	24	180	OK
MW-05	Iron	4/21/2015	5/5/2015	14	180	OK
MW-05	Lead	4/21/2015	5/5/2015	14	180	OK
MW-05	Magnesium	4/21/2015	5/7/2015	16	180	OK
MW-05	Manganese	4/21/2015	5/7/2015	16	180	OK
MW-05	Mercury	4/21/2015	5/5/2015	14	180	OK
MW-05	Molybdenum	4/21/2015	5/5/2015	14	180	OK
MW-05	Nickel	4/21/2015	5/5/2015	14	180	OK
MW-05	Nitrate/Nitrite (as N)	4/21/2015	5/7/2015	16	28	OK
MW-05	Potassium	4/21/2015	5/7/2015	16	180	OK
MW-05	Selenium	4/21/2015	5/5/2015	14	180	OK
MW-05	Silver	4/21/2015	5/5/2015	14	180	OK
MW-05	Sodium	4/21/2015	5/6/2015	15	180	OK
MW-05	Sulfate	4/21/2015	4/27/2015	6	28	OK
MW-05	Thallium	4/21/2015	5/5/2015	14	180	OK
MW-05	Tin	4/21/2015	5/5/2015	14	180	OK
MW-05	Total Dissolved Solids	4/21/2015	4/27/2015	6	7	OK
MW-05	Uranium	4/21/2015	5/5/2015	14	180	OK
MW-05	Vanadium	4/21/2015	5/7/2015	16	180	OK
MW-05	Zinc	4/21/2015	5/7/2015	16	180	OK
MW-05	2-Butanone	4/27/2015	5/1/2015	4	14	OK
MW-05	Acetone	4/27/2015	5/1/2015	4	14	OK
MW-05	Benzene	4/27/2015	5/1/2015	4	14	OK
MW-05	Carbon tetrachloride	4/27/2015	5/1/2015	4	14	OK
MW-05	Chloroform	4/27/2015	5/1/2015	4	14	OK
MW-05	Chloromethane	4/27/2015	5/1/2015	4	14	OK
MW-05	Methylene chloride	4/27/2015	5/1/2015	4	14	OK
MW-05	Naphthalene	4/27/2015	5/1/2015	4	14	OK
MW-05	Tetrahydrofuran	4/27/2015	5/1/2015	4	14	OK
MW-05	Toluene	4/27/2015	5/1/2015	4	14	OK
MW-05	Xylenes, Total	4/27/2015	5/1/2015	4	14	OK
MW-11	2-Butanone	4/8/2015	4/10/2015	2	14	OK
MW-11	Acetone	4/8/2015	4/10/2015	2	14	OK
MW-11	Ammonia (as N)	4/8/2015	4/16/2015	8	28	OK
MW-11	Arsenic	4/8/2015	4/15/2015	7	180	OK
MW-11	Benzene	4/8/2015	4/10/2015	2	14	OK
MW-11	Beryllium	4/8/2015	4/16/2015	8	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-11	Bicarbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-11	Cadmium	4/8/2015	4/15/2015	7	180	OK
MW-11	Calcium	4/8/2015	4/17/2015	9	180	OK
MW-11	Carbon tetrachloride	4/8/2015	4/10/2015	2	14	OK
MW-11	Carbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-11	Chloride	4/8/2015	4/14/2015	6	28	OK
MW-11	Chloroform	4/8/2015	4/10/2015	2	14	OK
MW-11	Chloromethane	4/8/2015	4/10/2015	2	14	OK
MW-11	Chromium	4/8/2015	4/15/2015	7	180	OK
MW-11	Cobalt	4/8/2015	4/15/2015	7	180	OK
MW-11	Copper	4/8/2015	4/15/2015	7	180	OK
MW-11	Fluoride	4/8/2015	4/15/2015	7	28	OK
MW-11	Gross Radium Alpha	4/8/2015	5/5/2015	27	180	OK
MW-11	Iron	4/8/2015	4/15/2015	7	180	OK
MW-11	Lead	4/8/2015	4/16/2015	8	180	OK
MW-11	Magnesium	4/8/2015	4/17/2015	9	180	OK
MW-11	Manganese	4/8/2015	4/15/2015	7	180	OK
MW-11	Mercury	4/8/2015	4/14/2015	6	180	OK
MW-11	Methylene chloride	4/8/2015	4/10/2015	2	14	OK
MW-11	Molybdenum	4/8/2015	4/15/2015	7	180	OK
MW-11	Naphthalene	4/8/2015	4/10/2015	2	14	OK
MW-11	Nickel	4/8/2015	4/15/2015	7	180	OK
MW-11	Nitrate/Nitrite (as N)	4/8/2015	4/10/2015	2	28	OK
MW-11	Potassium	4/8/2015	4/17/2015	9	180	OK
MW-11	Selenium	4/8/2015	4/15/2015	7	180	OK
MW-11	Silver	4/8/2015	4/15/2015	7	180	OK
MW-11	Sodium	4/8/2015	4/17/2015	9	180	OK
MW-11	Sulfate	4/8/2015	4/14/2015	6	28	OK
MW-11	Tetrahydrofuran	4/8/2015	4/10/2015	2	14	OK
MW-11	Thallium	4/8/2015	4/15/2015	7	180	OK
MW-11	Tin	4/8/2015	4/15/2015	7	180	OK
MW-11	Toluene	4/8/2015	4/10/2015	2	14	OK
MW-11	Total Dissolved Solids	4/8/2015	4/14/2015	6	7	OK
MW-11	Uranium	4/8/2015	4/15/2015	7	180	OK
MW-11	Vanadium	4/8/2015	4/17/2015	9	180	OK
MW-11	Xylenes, Total	4/8/2015	4/10/2015	2	14	OK
MW-11	Zinc	4/8/2015	4/21/2015	13	180	OK
MW-12	Ammonia (as N)	4/21/2015	4/28/2015	7	28	OK
MW-12	Arsenic	4/21/2015	5/5/2015	14	180	OK
MW-12	Beryllium	4/21/2015	5/7/2015	16	180	OK
MW-12	Bicarbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-12	Cadmium	4/21/2015	5/5/2015	14	180	OK
MW-12	Calcium	4/21/2015	5/6/2015	15	180	OK
MW-12	Carbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-12	Chloride	4/21/2015	4/28/2015	7	28	OK
MW-12	Chromium	4/21/2015	5/5/2015	14	180	OK
MW-12	Cobalt	4/21/2015	5/5/2015	14	180	OK
MW-12	Copper	4/21/2015	5/5/2015	14	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-12	Fluoride	4/21/2015	4/28/2015	7	28	OK
MW-12	Gross Radium Alpha	4/21/2015	5/15/2015	24	180	OK
MW-12	Iron	4/21/2015	5/5/2015	14	180	OK
MW-12	Lead	4/21/2015	5/5/2015	14	180	OK
MW-12	Magnesium	4/21/2015	5/6/2015	15	180	OK
MW-12	Manganese	4/21/2015	5/7/2015	16	180	OK
MW-12	Mercury	4/21/2015	5/5/2015	14	180	OK
MW-12	Molybdenum	4/21/2015	5/5/2015	14	180	OK
MW-12	Nickel	4/21/2015	5/5/2015	14	180	OK
MW-12	Nitrate/Nitrite (as N)	4/21/2015	5/7/2015	16	28	OK
MW-12	Potassium	4/21/2015	5/8/2015	17	180	OK
MW-12	Selenium	4/21/2015	5/5/2015	14	180	OK
MW-12	Silver	4/21/2015	5/5/2015	14	180	OK
MW-12	Sodium	4/21/2015	5/6/2015	15	180	OK
MW-12	Sulfate	4/21/2015	4/27/2015	6	28	OK
MW-12	Thallium	4/21/2015	5/5/2015	14	180	OK
MW-12	Tin	4/21/2015	5/5/2015	14	180	OK
MW-12	Total Dissolved Solids	4/21/2015	4/27/2015	6	7	OK
MW-12	Uranium	4/21/2015	5/5/2015	14	180	OK
MW-12	Vanadium	4/21/2015	5/7/2015	16	180	OK
MW-12	Zinc	4/21/2015	5/7/2015	16	180	OK
MW-12	2-Butanone	4/28/2015	5/1/2015	3	14	OK
MW-12	Acetone	4/28/2015	5/1/2015	3	14	OK
MW-12	Benzene	4/28/2015	5/1/2015	3	14	OK
MW-12	Carbon tetrachloride	4/28/2015	5/1/2015	3	14	OK
MW-12	Chloroform	4/28/2015	5/1/2015	3	14	OK
MW-12	Chloromethane	4/28/2015	5/1/2015	3	14	OK
MW-12	Methylene chloride	4/28/2015	5/1/2015	3	14	OK
MW-12	Naphthalene	4/28/2015	5/1/2015	3	14	OK
MW-12	Tetrahydrofuran	4/28/2015	5/1/2015	3	14	OK
MW-12	Toluene	4/28/2015	5/1/2015	3	14	OK
MW-12	Xylenes, Total	4/28/2015	5/1/2015	3	14	OK
MW-14	2-Butanone	4/8/2015	4/10/2015	2	14	OK
MW-14	Acetone	4/8/2015	4/10/2015	2	14	OK
MW-14	Ammonia (as N)	4/8/2015	4/16/2015	8	28	OK
MW-14	Arsenic	4/8/2015	4/15/2015	7	180	OK
MW-14	Benzene	4/8/2015	4/10/2015	2	14	OK
MW-14	Beryllium	4/8/2015	4/16/2015	8	180	OK
MW-14	Bicarbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-14	Cadmium	4/8/2015	4/15/2015	7	180	OK
MW-14	Calcium	4/8/2015	4/17/2015	9	180	OK
MW-14	Carbon tetrachloride	4/8/2015	4/10/2015	2	14	OK
MW-14	Carbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-14	Chloride	4/8/2015	4/14/2015	6	28	OK
MW-14	Chloroform	4/8/2015	4/10/2015	2	14	OK
MW-14	Chloromethane	4/8/2015	4/10/2015	2	14	OK
MW-14	Chromium	4/8/2015	4/15/2015	7	180	OK
MW-14	Cobalt	4/8/2015	4/15/2015	7	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-14	Copper	4/8/2015	4/15/2015	7	180	OK
MW-14	Fluoride	4/8/2015	4/15/2015	7	28	OK
MW-14	Gross Radium Alpha	4/8/2015	5/5/2015	27	180	OK
MW-14	Iron	4/8/2015	4/15/2015	7	180	OK
MW-14	Lead	4/8/2015	4/16/2015	8	180	OK
MW-14	Magnesium	4/8/2015	4/17/2015	9	180	OK
MW-14	Manganese	4/8/2015	4/17/2015	9	180	OK
MW-14	Mercury	4/8/2015	4/14/2015	6	180	OK
MW-14	Methylene chloride	4/8/2015	4/10/2015	2	14	OK
MW-14	Molybdenum	4/8/2015	4/15/2015	7	180	OK
MW-14	Naphthalene	4/8/2015	4/10/2015	2	14	OK
MW-14	Nickel	4/8/2015	4/15/2015	7	180	OK
MW-14	Nitrate/Nitrite (as N)	4/8/2015	4/10/2015	2	28	OK
MW-14	Potassium	4/8/2015	4/17/2015	9	180	OK
MW-14	Selenium	4/8/2015	4/15/2015	7	180	OK
MW-14	Silver	4/8/2015	4/15/2015	7	180	OK
MW-14	Sodium	4/8/2015	4/17/2015	9	180	OK
MW-14	Sulfate	4/8/2015	4/14/2015	6	28	OK
MW-14	Tetrahydrofuran	4/8/2015	4/10/2015	2	14	OK
MW-14	Thallium	4/8/2015	4/15/2015	7	180	OK
MW-14	Tin	4/8/2015	4/15/2015	7	180	OK
MW-14	Toluene	4/8/2015	4/10/2015	2	14	OK
MW-14	Total Dissolved Solids	4/8/2015	4/14/2015	6	7	OK
MW-14	Uranium	4/8/2015	4/15/2015	7	180	OK
MW-14	Vanadium	4/8/2015	4/17/2015	9	180	OK
MW-14	Xylenes, Total	4/8/2015	4/10/2015	2	14	OK
MW-14	Zinc	4/8/2015	4/21/2015	13	180	OK
MW-15	2-Butanone	4/13/2015	4/20/2015	7	14	OK
MW-15	Acetone	4/13/2015	4/20/2015	7	14	OK
MW-15	Ammonia (as N)	4/13/2015	4/22/2015	9	28	OK
MW-15	Arsenic	4/13/2015	4/22/2015	9	180	OK
MW-15	Benzene	4/13/2015	4/20/2015	7	14	OK
MW-15	Beryllium	4/13/2015	4/22/2015	9	180	OK
MW-15	Bicarbonate (as CaCO3)	4/13/2015	4/20/2015	7	14	OK
MW-15	Cadmium	4/13/2015	4/22/2015	9	180	OK
MW-15	Calcium	4/13/2015	4/27/2015	14	180	OK
MW-15	Carbon tetrachloride	4/13/2015	4/20/2015	7	14	OK
MW-15	Carbonate (as CaCO3)	4/13/2015	4/20/2015	7	14	OK
MW-15	Chloride	4/13/2015	4/20/2015	7	28	OK
MW-15	Chloroform	4/13/2015	4/20/2015	7	14	OK
MW-15	Chloromethane	4/13/2015	4/20/2015	7	14	OK
MW-15	Chromium	4/13/2015	4/22/2015	9	180	OK
MW-15	Cobalt	4/13/2015	4/22/2015	9	180	OK
MW-15	Copper	4/13/2015	4/22/2015	9	180	OK
MW-15	Fluoride	4/13/2015	4/20/2015	7	28	OK
MW-15	Gross Radium Alpha	4/13/2015	5/6/2015	23	180	OK
MW-15	Iron	4/13/2015	4/22/2015	9	180	OK
MW-15	Lead	4/13/2015	4/22/2015	9	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-15	Magnesium	4/13/2015	4/27/2015	14	180	OK
MW-15	Manganese	4/13/2015	4/22/2015	9	180	OK
MW-15	Mercury	4/13/2015	4/24/2015	11	180	OK
MW-15	Methylene chloride	4/13/2015	4/20/2015	7	14	OK
MW-15	Molybdenum	4/13/2015	4/22/2015	9	180	OK
MW-15	Naphthalene	4/13/2015	4/20/2015	7	14	OK
MW-15	Nickel	4/13/2015	4/22/2015	9	180	OK
MW-15	Nitrate/Nitrite (as N)	4/13/2015	4/21/2015	8	28	OK
MW-15	Potassium	4/13/2015	4/27/2015	14	180	OK
MW-15	Selenium	4/13/2015	4/22/2015	9	180	OK
MW-15	Silver	4/13/2015	4/22/2015	9	180	OK
MW-15	Sodium	4/13/2015	4/27/2015	14	180	OK
MW-15	Sulfate	4/13/2015	4/20/2015	7	28	OK
MW-15	Tetrahydrofuran	4/13/2015	4/20/2015	7	14	OK
MW-15	Thallium	4/13/2015	4/22/2015	9	180	OK
MW-15	Tin	4/13/2015	4/22/2015	9	180	OK
MW-15	Toluene	4/13/2015	4/20/2015	7	14	OK
MW-15	Total Dissolved Solids	4/13/2015	4/17/2015	4	7	OK
MW-15	Uranium	4/13/2015	4/22/2015	9	180	OK
MW-15	Vanadium	4/13/2015	4/27/2015	14	180	OK
MW-15	Xylenes, Total	4/13/2015	4/20/2015	7	14	OK
MW-15	Zinc	4/13/2015	4/30/2015	17	180	OK
MW-17	Ammonia (as N)	4/22/2015	5/13/2015	21	28	OK
MW-17	Arsenic	4/22/2015	5/5/2015	13	180	OK
MW-17	Beryllium	4/22/2015	5/7/2015	15	180	OK
MW-17	Bicarbonate (as CaCO3)	4/22/2015	4/27/2015	5	14	OK
MW-17	Cadmium	4/22/2015	5/5/2015	13	180	OK
MW-17	Calcium	4/22/2015	5/6/2015	14	180	OK
MW-17	Carbonate (as CaCO3)	4/22/2015	4/27/2015	5	14	OK
MW-17	Chloride	4/22/2015	4/28/2015	6	28	OK
MW-17	Chromium	4/22/2015	5/5/2015	13	180	OK
MW-17	Cobalt	4/22/2015	5/5/2015	13	180	OK
MW-17	Copper	4/22/2015	5/5/2015	13	180	OK
MW-17	Fluoride	4/22/2015	4/28/2015	6	28	OK
MW-17	Gross Radium Alpha	4/22/2015	5/15/2015	23	180	OK
MW-17	Iron	4/22/2015	5/5/2015	13	180	OK
MW-17	Lead	4/22/2015	5/5/2015	13	180	OK
MW-17	Magnesium	4/22/2015	5/6/2015	14	180	OK
MW-17	Manganese	4/22/2015	5/7/2015	15	180	OK
MW-17	Mercury	4/22/2015	5/5/2015	13	180	OK
MW-17	Molybdenum	4/22/2015	5/5/2015	13	180	OK
MW-17	Nickel	4/22/2015	5/5/2015	13	180	OK
MW-17	Nitrate/Nitrite (as N)	4/22/2015	5/7/2015	15	28	OK
MW-17	Potassium	4/22/2015	5/8/2015	16	180	OK
MW-17	Selenium	4/22/2015	5/5/2015	13	180	OK
MW-17	Silver	4/22/2015	5/5/2015	13	180	OK
MW-17	Sodium	4/22/2015	5/6/2015	14	180	OK
MW-17	Sulfate	4/22/2015	4/27/2015	5	28	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-17	Thallium	4/22/2015	5/5/2015	13	180	OK
MW-17	Tin	4/22/2015	5/5/2015	13	180	OK
MW-17	Total Dissolved Solids	4/22/2015	4/27/2015	5	7	OK
MW-17	Uranium	4/22/2015	5/5/2015	13	180	OK
MW-17	Vanadium	4/22/2015	5/7/2015	15	180	OK
MW-17	Zinc	4/22/2015	5/7/2015	15	180	OK
MW-17	2-Butanone	4/29/2015	5/1/2015	2	14	OK
MW-17	Acetone	4/29/2015	5/1/2015	2	14	OK
MW-17	Benzene	4/29/2015	5/1/2015	2	14	OK
MW-17	Carbon tetrachloride	4/29/2015	5/1/2015	2	14	OK
MW-17	Chloroform	4/29/2015	5/1/2015	2	14	OK
MW-17	Chloromethane	4/29/2015	5/1/2015	2	14	OK
MW-17	Methylene chloride	4/29/2015	5/1/2015	2	14	OK
MW-17	Naphthalene	4/29/2015	5/1/2015	2	14	OK
MW-17	Tetrahydrofuran	4/29/2015	5/1/2015	2	14	OK
MW-17	Toluene	4/29/2015	5/1/2015	2	14	OK
MW-17	Xylenes, Total	4/29/2015	5/1/2015	2	14	OK
MW-18	2-Butanone	4/15/2015	4/20/2015	5	14	OK
MW-18	Acetone	4/15/2015	4/20/2015	5	14	OK
MW-18	Ammonia (as N)	4/15/2015	4/22/2015	7	28	OK
MW-18	Arsenic	4/15/2015	4/22/2015	7	180	OK
MW-18	Benzene	4/15/2015	4/20/2015	5	14	OK
MW-18	Beryllium	4/15/2015	4/22/2015	7	180	OK
MW-18	Bicarbonate (as CaCO3)	4/15/2015	4/20/2015	5	14	OK
MW-18	Cadmium	4/15/2015	4/22/2015	7	180	OK
MW-18	Calcium	4/15/2015	4/27/2015	12	180	OK
MW-18	Carbon tetrachloride	4/15/2015	4/20/2015	5	14	OK
MW-18	Carbonate (as CaCO3)	4/15/2015	4/20/2015	5	14	OK
MW-18	Chloride	4/15/2015	4/20/2015	5	28	OK
MW-18	Chloroform	4/15/2015	4/20/2015	5	14	OK
MW-18	Chloromethane	4/15/2015	4/20/2015	5	14	OK
MW-18	Chromium	4/15/2015	4/22/2015	7	180	OK
MW-18	Cobalt	4/15/2015	4/22/2015	7	180	OK
MW-18	Copper	4/15/2015	4/22/2015	7	180	OK
MW-18	Fluoride	4/15/2015	4/20/2015	5	28	OK
MW-18	Gross Radium Alpha	4/15/2015	5/5/2015	20	180	OK
MW-18	Iron	4/15/2015	4/22/2015	7	180	OK
MW-18	Lead	4/15/2015	4/22/2015	7	180	OK
MW-18	Magnesium	4/15/2015	4/27/2015	12	180	OK
MW-18	Manganese	4/15/2015	4/22/2015	7	180	OK
MW-18	Mercury	4/15/2015	4/24/2015	9	180	OK
MW-18	Methylene chloride	4/15/2015	4/20/2015	5	14	OK
MW-18	Molybdenum	4/15/2015	4/22/2015	7	180	OK
MW-18	Naphthalene	4/15/2015	4/20/2015	5	14	OK
MW-18	Nickel	4/15/2015	4/22/2015	7	180	OK
MW-18	Nitrate/Nitrite (as N)	4/15/2015	4/21/2015	6	28	OK
MW-18	Potassium	4/15/2015	4/27/2015	12	180	OK
MW-18	Selenium	4/15/2015	4/22/2015	7	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-18	Silver	4/15/2015	4/22/2015	7	180	OK
MW-18	Sodium	4/15/2015	4/27/2015	12	180	OK
MW-18	Sulfate	4/15/2015	4/20/2015	5	28	OK
MW-18	Tetrahydrofuran	4/15/2015	4/20/2015	5	14	OK
MW-18	Thallium	4/15/2015	4/22/2015	7	180	OK
MW-18	Tin	4/15/2015	4/22/2015	7	180	OK
MW-18	Toluene	4/15/2015	4/20/2015	5	14	OK
MW-18	Total Dissolved Solids	4/15/2015	4/17/2015	2	7	OK
MW-18	Uranium	4/15/2015	4/22/2015	7	180	OK
MW-18	Vanadium	4/15/2015	4/27/2015	12	180	OK
MW-18	Xylenes, Total	4/15/2015	4/20/2015	5	14	OK
MW-18	Zinc	4/15/2015	4/30/2015	15	180	OK
MW-19	2-Butanone	4/14/2015	4/20/2015	6	14	OK
MW-19	Acetone	4/14/2015	4/20/2015	6	14	OK
MW-19	Ammonia (as N)	4/14/2015	4/22/2015	8	28	OK
MW-19	Arsenic	4/14/2015	4/22/2015	8	180	OK
MW-19	Benzene	4/14/2015	4/20/2015	6	14	OK
MW-19	Beryllium	4/14/2015	4/22/2015	8	180	OK
MW-19	Bicarbonate (as CaCO3)	4/14/2015	4/20/2015	6	14	OK
MW-19	Cadmium	4/14/2015	4/22/2015	8	180	OK
MW-19	Calcium	4/14/2015	4/27/2015	13	180	OK
MW-19	Carbon tetrachloride	4/14/2015	4/20/2015	6	14	OK
MW-19	Carbonate (as CaCO3)	4/14/2015	4/20/2015	6	14	OK
MW-19	Chloride	4/14/2015	4/20/2015	6	28	OK
MW-19	Chloroform	4/14/2015	4/20/2015	6	14	OK
MW-19	Chloromethane	4/14/2015	4/20/2015	6	14	OK
MW-19	Chromium	4/14/2015	4/22/2015	8	180	OK
MW-19	Cobalt	4/14/2015	4/22/2015	8	180	OK
MW-19	Copper	4/14/2015	4/22/2015	8	180	OK
MW-19	Fluoride	4/14/2015	4/20/2015	6	28	OK
MW-19	Gross Radium Alpha	4/14/2015	5/5/2015	21	180	OK
MW-19	Iron	4/14/2015	4/22/2015	8	180	OK
MW-19	Lead	4/14/2015	4/22/2015	8	180	OK
MW-19	Magnesium	4/14/2015	4/27/2015	13	180	OK
MW-19	Manganese	4/14/2015	4/22/2015	8	180	OK
MW-19	Mercury	4/14/2015	4/24/2015	10	180	OK
MW-19	Methylene chloride	4/14/2015	4/20/2015	6	14	OK
MW-19	Molybdenum	4/14/2015	4/22/2015	8	180	OK
MW-19	Naphthalene	4/14/2015	4/20/2015	6	14	OK
MW-19	Nickel	4/14/2015	4/22/2015	8	180	OK
MW-19	Nitrate/Nitrite (as N)	4/14/2015	4/21/2015	7	28	OK
MW-19	Potassium	4/14/2015	4/27/2015	13	180	OK
MW-19	Selenium	4/14/2015	4/22/2015	8	180	OK
MW-19	Silver	4/14/2015	4/22/2015	8	180	OK
MW-19	Sodium	4/14/2015	4/27/2015	13	180	OK
MW-19	Sulfate	4/14/2015	4/20/2015	6	28	OK
MW-19	Tetrahydrofuran	4/14/2015	4/20/2015	6	14	OK
MW-19	Thallium	4/14/2015	4/22/2015	8	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-19	Tin	4/14/2015	4/22/2015	8	180	OK
MW-19	Toluene	4/14/2015	4/20/2015	6	14	OK
MW-19	Total Dissolved Solids	4/14/2015	4/17/2015	3	7	OK
MW-19	Uranium	4/14/2015	4/22/2015	8	180	OK
MW-19	Vanadium	4/14/2015	4/27/2015	13	180	OK
MW-19	Xylenes, Total	4/14/2015	4/20/2015	6	14	OK
MW-19	Zinc	4/14/2015	4/30/2015	16	180	OK
MW-20	Gross Radium Alpha	5/27/2015	6/29/2015	33	180	OK
MW-20	2-Butanone	6/24/2015	6/25/2015	1	14	OK
MW-20	Acetone	6/24/2015	6/25/2015	1	14	OK
MW-20	Ammonia (as N)	6/24/2015	6/30/2015	6	28	OK
MW-20	Arsenic	6/24/2015	7/6/2015	12	180	OK
MW-20	Benzene	6/24/2015	6/25/2015	1	14	OK
MW-20	Beryllium	6/24/2015	7/6/2015	12	180	OK
MW-20	Bicarbonate (as CaCO3)	6/24/2015	6/26/2015	2	14	OK
MW-20	Cadmium	6/24/2015	7/6/2015	12	180	OK
MW-20	Calcium	6/24/2015	7/6/2015	12	180	OK
MW-20	Carbon tetrachloride	6/24/2015	6/25/2015	1	14	OK
MW-20	Carbonate (as CaCO3)	6/24/2015	6/26/2015	2	14	OK
MW-20	Chloride	6/24/2015	7/6/2015	12	28	OK
MW-20	Chloroform	6/24/2015	6/25/2015	1	14	OK
MW-20	Chloromethane	6/24/2015	6/25/2015	1	14	OK
MW-20	Chromium	6/24/2015	7/6/2015	12	180	OK
MW-20	Cobalt	6/24/2015	7/6/2015	12	180	OK
MW-20	Copper	6/24/2015	7/6/2015	12	180	OK
MW-20	Fluoride	6/24/2015	7/6/2015	12	28	OK
MW-20	Iron	6/24/2015	7/6/2015	12	180	OK
MW-20	Lead	6/24/2015	7/6/2015	12	180	OK
MW-20	Magnesium	6/24/2015	7/8/2015	14	180	OK
MW-20	Manganese	6/24/2015	7/6/2015	12	180	OK
MW-20	Mercury	6/24/2015	6/26/2015	2	180	OK
MW-20	Methylene chloride	6/24/2015	6/25/2015	1	14	OK
MW-20	Molybdenum	6/24/2015	7/6/2015	12	180	OK
MW-20	Naphthalene	6/24/2015	6/25/2015	1	14	OK
MW-20	Nickel	6/24/2015	7/6/2015	12	180	OK
MW-20	Nitrate/Nitrite (as N)	6/24/2015	7/2/2015	8	28	OK
MW-20	Potassium	6/24/2015	7/6/2015	12	180	OK
MW-20	Selenium	6/24/2015	7/6/2015	12	180	OK
MW-20	Silver	6/24/2015	7/6/2015	12	180	OK
MW-20	Sodium	6/24/2015	7/6/2015	12	180	OK
MW-20	Sulfate	6/24/2015	7/6/2015	12	28	OK
MW-20	Tetrahydrofuran	6/24/2015	6/25/2015	1	14	OK
MW-20	Thallium	6/24/2015	7/6/2015	12	180	OK
MW-20	Tin	6/24/2015	7/9/2015	15	180	OK
MW-20	Toluene	6/24/2015	6/25/2015	1	14	OK
MW-20	Total Dissolved Solids	6/24/2015	6/29/2015	5	7	OK
MW-20	Uranium	6/24/2015	7/7/2015	13	180	OK
MW-20	Vanadium	6/24/2015	7/6/2015	12	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-20	Xylenes, Total	6/24/2015	6/25/2015	1	14	OK
MW-20	Zinc	6/24/2015	7/6/2015	12	180	OK
MW-22	Ammonia (as N)	4/22/2015	4/28/2015	6	28	OK
MW-22	Arsenic	4/22/2015	5/5/2015	13	180	OK
MW-22	Beryllium	4/22/2015	5/7/2015	15	180	OK
MW-22	Bicarbonate (as CaCO3)	4/22/2015	4/27/2015	5	14	OK
MW-22	Cadmium	4/22/2015	5/5/2015	13	180	OK
MW-22	Calcium	4/22/2015	5/6/2015	14	180	OK
MW-22	Carbonate (as CaCO3)	4/22/2015	4/27/2015	5	14	OK
MW-22	Chloride	4/22/2015	4/28/2015	6	28	OK
MW-22	Chromium	4/22/2015	5/5/2015	13	180	OK
MW-22	Cobalt	4/22/2015	5/7/2015	15	180	OK
MW-22	Copper	4/22/2015	5/5/2015	13	180	OK
MW-22	Fluoride	4/22/2015	4/28/2015	6	28	OK
MW-22	Gross Radium Alpha	4/22/2015	5/15/2015	23	180	OK
MW-22	Iron	4/22/2015	5/5/2015	13	180	OK
MW-22	Lead	4/22/2015	5/5/2015	13	180	OK
MW-22	Magnesium	4/22/2015	5/6/2015	14	180	OK
MW-22	Manganese	4/22/2015	5/7/2015	15	180	OK
MW-22	Mercury	4/22/2015	5/5/2015	13	180	OK
MW-22	Molybdenum	4/22/2015	5/7/2015	15	180	OK
MW-22	Nickel	4/22/2015	5/7/2015	15	180	OK
MW-22	Nitrate/Nitrite (as N)	4/22/2015	5/7/2015	15	28	OK
MW-22	Potassium	4/22/2015	5/8/2015	16	180	OK
MW-22	Selenium	4/22/2015	5/5/2015	13	180	OK
MW-22	Silver	4/22/2015	5/5/2015	13	180	OK
MW-22	Sodium	4/22/2015	5/6/2015	14	180	OK
MW-22	Sulfate	4/22/2015	4/28/2015	6	28	OK
MW-22	Thallium	4/22/2015	5/5/2015	13	180	OK
MW-22	Tin	4/22/2015	5/5/2015	13	180	OK
MW-22	Total Dissolved Solids	4/22/2015	4/27/2015	5	7	OK
MW-22	Uranium	4/22/2015	5/5/2015	13	180	OK
MW-22	Vanadium	4/22/2015	5/7/2015	15	180	OK
MW-22	Zinc	4/22/2015	5/7/2015	15	180	OK
MW-22	2-Butanone	4/29/2015	5/1/2015	2	14	OK
MW-22	Acetone	4/29/2015	5/1/2015	2	14	OK
MW-22	Benzene	4/29/2015	5/1/2015	2	14	OK
MW-22	Carbon tetrachloride	4/29/2015	5/1/2015	2	14	OK
MW-22	Chloroform	4/29/2015	5/1/2015	2	14	OK
MW-22	Chloromethane	4/29/2015	5/1/2015	2	14	OK
MW-22	Methylene chloride	4/29/2015	5/1/2015	2	14	OK
MW-22	Naphthalene	4/29/2015	5/1/2015	2	14	OK
MW-22	Tetrahydrofuran	4/29/2015	5/1/2015	2	14	OK
MW-22	Toluene	4/29/2015	5/1/2015	2	14	OK
MW-22	Xylenes, Total	4/29/2015	5/1/2015	2	14	OK
MW-23	2-Butanone	4/30/2015	5/1/2015	1	14	OK
MW-23	Acetone	4/30/2015	5/1/2015	1	14	OK
MW-23	Ammonia (as N)	4/30/2015	5/5/2015	5	28	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-23	Arsenic	4/30/2015	5/12/2015	12	180	OK
MW-23	Benzene	4/30/2015	5/1/2015	1	14	OK
MW-23	Beryllium	4/30/2015	5/12/2015	12	180	OK
MW-23	Bicarbonate (as CaCO3)	4/30/2015	5/4/2015	4	14	OK
MW-23	Cadmium	4/30/2015	5/12/2015	12	180	OK
MW-23	Calcium	4/30/2015	5/13/2015	13	180	OK
MW-23	Carbon tetrachloride	4/30/2015	5/1/2015	1	14	OK
MW-23	Carbonate (as CaCO3)	4/30/2015	5/4/2015	4	14	OK
MW-23	Chloride	4/30/2015	5/5/2015	5	28	OK
MW-23	Chloroform	4/30/2015	5/1/2015	1	14	OK
MW-23	Chloromethane	4/30/2015	5/1/2015	1	14	OK
MW-23	Chromium	4/30/2015	5/12/2015	12	180	OK
MW-23	Cobalt	4/30/2015	5/12/2015	12	180	OK
MW-23	Copper	4/30/2015	5/12/2015	12	180	OK
MW-23	Fluoride	4/30/2015	5/5/2015	5	28	OK
MW-23	Gross Radium Alpha	4/30/2015	5/29/2015	29	180	OK
MW-23	Iron	4/30/2015	5/12/2015	12	180	OK
MW-23	Lead	4/30/2015	5/12/2015	12	180	OK
MW-23	Magnesium	4/30/2015	5/13/2015	13	180	OK
MW-23	Manganese	4/30/2015	5/12/2015	12	180	OK
MW-23	Mercury	4/30/2015	5/5/2015	5	180	OK
MW-23	Methylene chloride	4/30/2015	5/1/2015	1	14	OK
MW-23	Molybdenum	4/30/2015	5/12/2015	12	180	OK
MW-23	Naphthalene	4/30/2015	5/1/2015	1	14	OK
MW-23	Nickel	4/30/2015	5/12/2015	12	180	OK
MW-23	Nitrate/Nitrite (as N)	4/30/2015	5/8/2015	8	28	OK
MW-23	Potassium	4/30/2015	5/12/2015	12	180	OK
MW-23	Selenium	4/30/2015	5/12/2015	12	180	OK
MW-23	Silver	4/30/2015	5/12/2015	12	180	OK
MW-23	Sodium	4/30/2015	5/13/2015	13	180	OK
MW-23	Sulfate	4/30/2015	5/6/2015	6	28	OK
MW-23	Tetrahydrofuran	4/30/2015	5/1/2015	1	14	OK
MW-23	Thallium	4/30/2015	5/12/2015	12	180	OK
MW-23	Tin	4/30/2015	5/12/2015	12	180	OK
MW-23	Toluene	4/30/2015	5/1/2015	1	14	OK
MW-23	Total Dissolved Solids	4/30/2015	5/1/2015	1	7	OK
MW-23	Uranium	4/30/2015	5/12/2015	12	180	OK
MW-23	Vanadium	4/30/2015	5/12/2015	12	180	OK
MW-23	Xylenes, Total	4/30/2015	5/1/2015	1	14	OK
MW-23	Zinc	4/30/2015	5/12/2015	12	180	OK
MW-24	Gross Radium Alpha	5/28/2015	6/29/2015	32	180	OK
MW-24	2-Butanone	6/24/2015	6/25/2015	1	14	OK
MW-24	Acetone	6/24/2015	6/25/2015	1	14	OK
MW-24	Ammonia (as N)	6/24/2015	6/30/2015	6	28	OK
MW-24	Arsenic	6/24/2015	7/6/2015	12	180	OK
MW-24	Benzene	6/24/2015	6/25/2015	1	14	OK
MW-24	Beryllium	6/24/2015	7/6/2015	12	180	OK
MW-24	Bicarbonate (as CaCO3)	6/24/2015	6/26/2015	2	14	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-24	Cadmium	6/24/2015	7/6/2015	12	180	OK
MW-24	Calcium	6/24/2015	7/6/2015	12	180	OK
MW-24	Carbon tetrachloride	6/24/2015	6/25/2015	1	14	OK
MW-24	Carbonate (as CaCO3)	6/24/2015	6/26/2015	2	14	OK
MW-24	Chloride	6/24/2015	7/6/2015	12	28	OK
MW-24	Chloroform	6/24/2015	6/25/2015	1	14	OK
MW-24	Chloromethane	6/24/2015	6/25/2015	1	14	OK
MW-24	Chromium	6/24/2015	7/6/2015	12	180	OK
MW-24	Cobalt	6/24/2015	7/6/2015	12	180	OK
MW-24	Copper	6/24/2015	7/6/2015	12	180	OK
MW-24	Fluoride	6/24/2015	7/6/2015	12	28	OK
MW-24	Iron	6/24/2015	7/6/2015	12	180	OK
MW-24	Lead	6/24/2015	7/6/2015	12	180	OK
MW-24	Magnesium	6/24/2015	7/8/2015	14	180	OK
MW-24	Manganese	6/24/2015	7/9/2015	15	180	OK
MW-24	Mercury	6/24/2015	6/26/2015	2	180	OK
MW-24	Methylene chloride	6/24/2015	6/25/2015	1	14	OK
MW-24	Molybdenum	6/24/2015	7/6/2015	12	180	OK
MW-24	Naphthalene	6/24/2015	6/25/2015	1	14	OK
MW-24	Nickel	6/24/2015	7/6/2015	12	180	OK
MW-24	Nitrate/Nitrite (as N)	6/24/2015	7/2/2015	8	28	OK
MW-24	Potassium	6/24/2015	7/6/2015	12	180	OK
MW-24	Selenium	6/24/2015	7/6/2015	12	180	OK
MW-24	Silver	6/24/2015	7/6/2015	12	180	OK
MW-24	Sodium	6/24/2015	7/6/2015	12	180	OK
MW-24	Sulfate	6/24/2015	7/6/2015	12	28	OK
MW-24	Tetrahydrofuran	6/24/2015	6/25/2015	1	14	OK
MW-24	Thallium	6/24/2015	7/6/2015	12	180	OK
MW-24	Tin	6/24/2015	7/9/2015	15	180	OK
MW-24	Toluene	6/24/2015	6/25/2015	1	14	OK
MW-24	Total Dissolved Solids	6/24/2015	6/29/2015	5	7	OK
MW-24	Uranium	6/24/2015	7/7/2015	13	180	OK
MW-24	Vanadium	6/24/2015	7/6/2015	12	180	OK
MW-24	Xylenes, Total	6/24/2015	6/25/2015	1	14	OK
MW-24	Zinc	6/24/2015	7/6/2015	12	180	OK
MW-25	2-Butanone	4/7/2015	4/10/2015	3	14	OK
MW-25	Acetone	4/7/2015	4/10/2015	3	14	OK
MW-25	Ammonia (as N)	4/7/2015	4/16/2015	9	28	OK
MW-25	Arsenic	4/7/2015	4/15/2015	8	180	OK
MW-25	Benzene	4/7/2015	4/10/2015	3	14	OK
MW-25	Beryllium	4/7/2015	4/16/2015	9	180	OK
MW-25	Bicarbonate (as CaCO3)	4/7/2015	4/14/2015	7	14	OK
MW-25	Cadmium	4/7/2015	4/15/2015	8	180	OK
MW-25	Calcium	4/7/2015	4/17/2015	10	180	OK
MW-25	Carbon tetrachloride	4/7/2015	4/10/2015	3	14	OK
MW-25	Carbonate (as CaCO3)	4/7/2015	4/14/2015	7	14	OK
MW-25	Chloride	4/7/2015	4/14/2015	7	28	OK
MW-25	Chloroform	4/7/2015	4/10/2015	3	14	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-25	Chloromethane	4/7/2015	4/10/2015	3	14	OK
MW-25	Chromium	4/7/2015	4/15/2015	8	180	OK
MW-25	Cobalt	4/7/2015	4/15/2015	8	180	OK
MW-25	Copper	4/7/2015	4/15/2015	8	180	OK
MW-25	Fluoride	4/7/2015	4/15/2015	8	28	OK
MW-25	Gross Radium Alpha	4/7/2015	5/5/2015	28	180	OK
MW-25	Iron	4/7/2015	4/15/2015	8	180	OK
MW-25	Lead	4/7/2015	4/16/2015	9	180	OK
MW-25	Magnesium	4/7/2015	4/17/2015	10	180	OK
MW-25	Manganese	4/7/2015	4/16/2015	9	180	OK
MW-25	Mercury	4/7/2015	4/14/2015	7	180	OK
MW-25	Methylene chloride	4/7/2015	4/10/2015	3	14	OK
MW-25	Molybdenum	4/7/2015	4/15/2015	8	180	OK
MW-25	Naphthalene	4/7/2015	4/10/2015	3	14	OK
MW-25	Nickel	4/7/2015	4/15/2015	8	180	OK
MW-25	Nitrate/Nitrite (as N)	4/7/2015	4/10/2015	3	28	OK
MW-25	Potassium	4/7/2015	4/17/2015	10	180	OK
MW-25	Selenium	4/7/2015	4/15/2015	8	180	OK
MW-25	Silver	4/7/2015	4/15/2015	8	180	OK
MW-25	Sodium	4/7/2015	4/17/2015	10	180	OK
MW-25	Sulfate	4/7/2015	4/14/2015	7	28	OK
MW-25	Tetrahydrofuran	4/7/2015	4/10/2015	3	14	OK
MW-25	Thallium	4/7/2015	4/15/2015	8	180	OK
MW-25	Tin	4/7/2015	4/15/2015	8	180	OK
MW-25	Toluene	4/7/2015	4/10/2015	3	14	OK
MW-25	Total Dissolved Solids	4/7/2015	4/14/2015	7	7	OK
MW-25	Uranium	4/7/2015	4/15/2015	8	180	OK
MW-25	Vanadium	4/7/2015	4/17/2015	10	180	OK
MW-25	Xylenes, Total	4/7/2015	4/10/2015	3	14	OK
MW-25	Zinc	4/7/2015	4/21/2015	14	180	OK
MW-26	2-Butanone	4/9/2015	4/10/2015	1	14	OK
MW-26	Acetone	4/9/2015	4/10/2015	1	14	OK
MW-26	Ammonia (as N)	4/9/2015	4/16/2015	7	28	OK
MW-26	Arsenic	4/9/2015	4/15/2015	6	180	OK
MW-26	Benzene	4/9/2015	4/10/2015	1	14	OK
MW-26	Beryllium	4/9/2015	4/16/2015	7	180	OK
MW-26	Bicarbonate (as CaCO3)	4/9/2015	4/14/2015	5	14	OK
MW-26	Cadmium	4/9/2015	4/15/2015	6	180	OK
MW-26	Calcium	4/9/2015	4/17/2015	8	180	OK
MW-26	Carbon tetrachloride	4/9/2015	4/10/2015	1	14	OK
MW-26	Carbonate (as CaCO3)	4/9/2015	4/14/2015	5	14	OK
MW-26	Chloride	4/9/2015	4/14/2015	5	28	OK
MW-26	Chloroform	4/9/2015	4/13/2015	4	14	OK
MW-26	Chloromethane	4/9/2015	4/10/2015	1	14	OK
MW-26	Chromium	4/9/2015	4/15/2015	6	180	OK
MW-26	Cobalt	4/9/2015	4/15/2015	6	180	OK
MW-26	Copper	4/9/2015	4/15/2015	6	180	OK
MW-26	Fluoride	4/9/2015	4/15/2015	6	28	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-26	Gross Radium Alpha	4/9/2015	5/5/2015	26	180	OK
MW-26	Iron	4/9/2015	4/16/2015	7	180	OK
MW-26	Lead	4/9/2015	4/16/2015	7	180	OK
MW-26	Magnesium	4/9/2015	4/17/2015	8	180	OK
MW-26	Manganese	4/9/2015	4/16/2015	7	180	OK
MW-26	Mercury	4/9/2015	4/14/2015	5	180	OK
MW-26	Methylene chloride	4/9/2015	4/10/2015	1	14	OK
MW-26	Molybdenum	4/9/2015	4/15/2015	6	180	OK
MW-26	Naphthalene	4/9/2015	4/10/2015	1	14	OK
MW-26	Nickel	4/9/2015	4/15/2015	6	180	OK
MW-26	Nitrate/Nitrite (as N)	4/9/2015	4/10/2015	1	28	OK
MW-26	Potassium	4/9/2015	4/17/2015	8	180	OK
MW-26	Selenium	4/9/2015	4/15/2015	6	180	OK
MW-26	Silver	4/9/2015	4/15/2015	6	180	OK
MW-26	Sodium	4/9/2015	4/17/2015	8	180	OK
MW-26	Sulfate	4/9/2015	4/14/2015	5	28	OK
MW-26	Tetrahydrofuran	4/9/2015	4/10/2015	1	14	OK
MW-26	Thallium	4/9/2015	4/15/2015	6	180	OK
MW-26	Tin	4/9/2015	4/15/2015	6	180	OK
MW-26	Toluene	4/9/2015	4/10/2015	1	14	OK
MW-26	Total Dissolved Solids	4/9/2015	4/14/2015	5	7	OK
MW-26	Uranium	4/9/2015	4/15/2015	6	180	OK
MW-26	Vanadium	4/9/2015	4/17/2015	8	180	OK
MW-26	Xylenes, Total	4/9/2015	4/10/2015	1	14	OK
MW-26	Zinc	4/9/2015	4/21/2015	12	180	OK
MW-27	Ammonia (as N)	4/20/2015	4/28/2015	8	28	OK
MW-27	Arsenic	4/20/2015	5/5/2015	15	180	OK
MW-27	Beryllium	4/20/2015	5/7/2015	17	180	OK
MW-27	Bicarbonate (as CaCO3)	4/20/2015	4/27/2015	7	14	OK
MW-27	Cadmium	4/20/2015	5/5/2015	15	180	OK
MW-27	Calcium	4/20/2015	5/6/2015	16	180	OK
MW-27	Carbonate (as CaCO3)	4/20/2015	4/27/2015	7	14	OK
MW-27	Chloride	4/20/2015	4/28/2015	8	28	OK
MW-27	Chromium	4/20/2015	5/5/2015	15	180	OK
MW-27	Cobalt	4/20/2015	5/5/2015	15	180	OK
MW-27	Copper	4/20/2015	5/5/2015	15	180	OK
MW-27	Fluoride	4/20/2015	4/28/2015	8	28	OK
MW-27	Gross Radium Alpha	4/20/2015	5/15/2015	25	180	OK
MW-27	Iron	4/20/2015	5/5/2015	15	180	OK
MW-27	Lead	4/20/2015	5/5/2015	15	180	OK
MW-27	Magnesium	4/20/2015	5/6/2015	16	180	OK
MW-27	Manganese	4/20/2015	5/7/2015	17	180	OK
MW-27	Mercury	4/20/2015	5/5/2015	15	180	OK
MW-27	Molybdenum	4/20/2015	5/5/2015	15	180	OK
MW-27	Nickel	4/20/2015	5/5/2015	15	180	OK
MW-27	Nitrate/Nitrite (as N)	4/20/2015	5/7/2015	17	28	OK
MW-27	Potassium	4/20/2015	5/8/2015	18	180	OK
MW-27	Selenium	4/20/2015	5/5/2015	15	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-27	Silver	4/20/2015	5/5/2015	15	180	OK
MW-27	Sodium	4/20/2015	5/6/2015	16	180	OK
MW-27	Sulfate	4/20/2015	4/28/2015	8	28	OK
MW-27	Thallium	4/20/2015	5/5/2015	15	180	OK
MW-27	Tin	4/20/2015	5/5/2015	15	180	OK
MW-27	Total Dissolved Solids	4/20/2015	4/27/2015	7	7	OK
MW-27	Uranium	4/20/2015	5/5/2015	15	180	OK
MW-27	Vanadium	4/20/2015	5/7/2015	17	180	OK
MW-27	Zinc	4/20/2015	5/7/2015	17	180	OK
MW-27	2-Butanone	4/28/2015	5/1/2015	3	14	OK
MW-27	Acetone	4/28/2015	5/1/2015	3	14	OK
MW-27	Benzene	4/28/2015	5/1/2015	3	14	OK
MW-27	Carbon tetrachloride	4/28/2015	5/1/2015	3	14	OK
MW-27	Chloroform	4/28/2015	5/1/2015	3	14	OK
MW-27	Chloromethane	4/28/2015	5/1/2015	3	14	OK
MW-27	Methylene chloride	4/28/2015	5/1/2015	3	14	OK
MW-27	Naphthalene	4/28/2015	5/1/2015	3	14	OK
MW-27	Tetrahydrofuran	4/28/2015	5/1/2015	3	14	OK
MW-27	Toluene	4/28/2015	5/1/2015	3	14	OK
MW-27	Xylenes, Total	4/28/2015	5/1/2015	3	14	OK
MW-28	Ammonia (as N)	4/21/2015	4/28/2015	7	28	OK
MW-28	Arsenic	4/21/2015	5/5/2015	14	180	OK
MW-28	Beryllium	4/21/2015	5/7/2015	16	180	OK
MW-28	Bicarbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-28	Cadmium	4/21/2015	5/5/2015	14	180	OK
MW-28	Calcium	4/21/2015	5/6/2015	15	180	OK
MW-28	Carbonate (as CaCO3)	4/21/2015	4/27/2015	6	14	OK
MW-28	Chloride	4/21/2015	4/28/2015	7	28	OK
MW-28	Chromium	4/21/2015	5/5/2015	14	180	OK
MW-28	Cobalt	4/21/2015	5/5/2015	14	180	OK
MW-28	Copper	4/21/2015	5/5/2015	14	180	OK
MW-28	Fluoride	4/21/2015	4/28/2015	7	28	OK
MW-28	Gross Radium Alpha	4/21/2015	5/15/2015	24	180	OK
MW-28	Iron	4/21/2015	5/5/2015	14	180	OK
MW-28	Lead	4/21/2015	5/5/2015	14	180	OK
MW-28	Magnesium	4/21/2015	5/6/2015	15	180	OK
MW-28	Manganese	4/21/2015	5/7/2015	16	180	OK
MW-28	Mercury	4/21/2015	5/5/2015	14	180	OK
MW-28	Molybdenum	4/21/2015	5/5/2015	14	180	OK
MW-28	Nickel	4/21/2015	5/5/2015	14	180	OK
MW-28	Nitrate/Nitrite (as N)	4/21/2015	5/7/2015	16	28	OK
MW-28	Potassium	4/21/2015	5/8/2015	17	180	OK
MW-28	Selenium	4/21/2015	5/5/2015	14	180	OK
MW-28	Silver	4/21/2015	5/5/2015	14	180	OK
MW-28	Sodium	4/21/2015	5/6/2015	15	180	OK
MW-28	Sulfate	4/21/2015	4/28/2015	7	28	OK
MW-28	Thallium	4/21/2015	5/5/2015	14	180	OK
MW-28	Tin	4/21/2015	5/5/2015	14	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-28	Total Dissolved Solids	4/21/2015	4/27/2015	6	7	OK
MW-28	Uranium	4/21/2015	5/5/2015	14	180	OK
MW-28	Vanadium	4/21/2015	5/7/2015	16	180	OK
MW-28	Zinc	4/21/2015	5/7/2015	16	180	OK
MW-28	2-Butanone	4/27/2015	5/1/2015	4	14	OK
MW-28	Acetone	4/27/2015	5/1/2015	4	14	OK
MW-28	Benzene	4/27/2015	5/1/2015	4	14	OK
MW-28	Carbon tetrachloride	4/27/2015	5/1/2015	4	14	OK
MW-28	Chloroform	4/27/2015	5/1/2015	4	14	OK
MW-28	Chloromethane	4/27/2015	5/1/2015	4	14	OK
MW-28	Methylene chloride	4/27/2015	5/1/2015	4	14	OK
MW-28	Naphthalene	4/27/2015	5/1/2015	4	14	OK
MW-28	Tetrahydrofuran	4/27/2015	5/1/2015	4	14	OK
MW-28	Toluene	4/27/2015	5/1/2015	4	14	OK
MW-28	Xylenes, Total	4/27/2015	5/1/2015	4	14	OK
MW-29	2-Butanone	4/30/2015	5/1/2015	1	14	OK
MW-29	Acetone	4/30/2015	5/1/2015	1	14	OK
MW-29	Ammonia (as N)	4/30/2015	5/5/2015	5	28	OK
MW-29	Arsenic	4/30/2015	5/12/2015	12	180	OK
MW-29	Benzene	4/30/2015	5/1/2015	1	14	OK
MW-29	Beryllium	4/30/2015	5/12/2015	12	180	OK
MW-29	Bicarbonate (as CaCO3)	4/30/2015	5/4/2015	4	14	OK
MW-29	Cadmium	4/30/2015	5/12/2015	12	180	OK
MW-29	Calcium	4/30/2015	5/13/2015	13	180	OK
MW-29	Carbon tetrachloride	4/30/2015	5/1/2015	1	14	OK
MW-29	Carbonate (as CaCO3)	4/30/2015	5/4/2015	4	14	OK
MW-29	Chloride	4/30/2015	5/5/2015	5	28	OK
MW-29	Chloroform	4/30/2015	5/1/2015	1	14	OK
MW-29	Chloromethane	4/30/2015	5/1/2015	1	14	OK
MW-29	Chromium	4/30/2015	5/12/2015	12	180	OK
MW-29	Cobalt	4/30/2015	5/12/2015	12	180	OK
MW-29	Copper	4/30/2015	5/12/2015	12	180	OK
MW-29	Fluoride	4/30/2015	5/5/2015	5	28	OK
MW-29	Gross Radium Alpha	4/30/2015	5/29/2015	29	180	OK
MW-29	Iron	4/30/2015	5/12/2015	12	180	OK
MW-29	Lead	4/30/2015	5/12/2015	12	180	OK
MW-29	Magnesium	4/30/2015	5/13/2015	13	180	OK
MW-29	Manganese	4/30/2015	5/13/2015	13	180	OK
MW-29	Mercury	4/30/2015	5/5/2015	5	180	OK
MW-29	Methylene chloride	4/30/2015	5/1/2015	1	14	OK
MW-29	Molybdenum	4/30/2015	5/12/2015	12	180	OK
MW-29	Naphthalene	4/30/2015	5/1/2015	1	14	OK
MW-29	Nickel	4/30/2015	5/12/2015	12	180	OK
MW-29	Nitrate/Nitrite (as N)	4/30/2015	5/8/2015	8	28	OK
MW-29	Potassium	4/30/2015	5/12/2015	12	180	OK
MW-29	Selenium	4/30/2015	5/12/2015	12	180	OK
MW-29	Silver	4/30/2015	5/12/2015	12	180	OK
MW-29	Sodium	4/30/2015	5/13/2015	13	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-29	Sulfate	4/30/2015	5/5/2015	5	28	OK
MW-29	Tetrahydrofuran	4/30/2015	5/1/2015	1	14	OK
MW-29	Thallium	4/30/2015	5/12/2015	12	180	OK
MW-29	Tin	4/30/2015	5/12/2015	12	180	OK
MW-29	Toluene	4/30/2015	5/1/2015	1	14	OK
MW-29	Total Dissolved Solids	4/30/2015	5/1/2015	1	7	OK
MW-29	Uranium	4/30/2015	5/12/2015	12	180	OK
MW-29	Vanadium	4/30/2015	5/12/2015	12	180	OK
MW-29	Xylenes, Total	4/30/2015	5/1/2015	1	14	OK
MW-29	Zinc	4/30/2015	5/12/2015	12	180	OK
MW-30	2-Butanone	4/8/2015	4/10/2015	2	14	OK
MW-30	Acetone	4/8/2015	4/10/2015	2	14	OK
MW-30	Ammonia (as N)	4/8/2015	4/16/2015	8	28	OK
MW-30	Arsenic	4/8/2015	4/15/2015	7	180	OK
MW-30	Benzene	4/8/2015	4/10/2015	2	14	OK
MW-30	Beryllium	4/8/2015	4/16/2015	8	180	OK
MW-30	Bicarbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-30	Cadmium	4/8/2015	4/15/2015	7	180	OK
MW-30	Calcium	4/8/2015	4/17/2015	9	180	OK
MW-30	Carbon tetrachloride	4/8/2015	4/10/2015	2	14	OK
MW-30	Carbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-30	Chloride	4/8/2015	4/14/2015	6	28	OK
MW-30	Chloroform	4/8/2015	4/10/2015	2	14	OK
MW-30	Chloromethane	4/8/2015	4/10/2015	2	14	OK
MW-30	Chromium	4/8/2015	4/15/2015	7	180	OK
MW-30	Cobalt	4/8/2015	4/15/2015	7	180	OK
MW-30	Copper	4/8/2015	4/15/2015	7	180	OK
MW-30	Fluoride	4/8/2015	4/15/2015	7	28	OK
MW-30	Gross Radium Alpha	4/8/2015	5/5/2015	27	180	OK
MW-30	Iron	4/8/2015	4/15/2015	7	180	OK
MW-30	Lead	4/8/2015	4/16/2015	8	180	OK
MW-30	Magnesium	4/8/2015	4/17/2015	9	180	OK
MW-30	Manganese	4/8/2015	4/15/2015	7	180	OK
MW-30	Mercury	4/8/2015	4/14/2015	6	180	OK
MW-30	Methylene chloride	4/8/2015	4/10/2015	2	14	OK
MW-30	Molybdenum	4/8/2015	4/15/2015	7	180	OK
MW-30	Naphthalene	4/8/2015	4/10/2015	2	14	OK
MW-30	Nickel	4/8/2015	4/15/2015	7	180	OK
MW-30	Nitrate/Nitrite (as N)	4/8/2015	4/10/2015	2	28	OK
MW-30	Potassium	4/8/2015	4/17/2015	9	180	OK
MW-30	Selenium	4/8/2015	4/15/2015	7	180	OK
MW-30	Silver	4/8/2015	4/15/2015	7	180	OK
MW-30	Sodium	4/8/2015	4/17/2015	9	180	OK
MW-30	Sulfate	4/8/2015	4/14/2015	6	28	OK
MW-30	Tetrahydrofuran	4/8/2015	4/10/2015	2	14	OK
MW-30	Thallium	4/8/2015	4/15/2015	7	180	OK
MW-30	Tin	4/8/2015	4/15/2015	7	180	OK
MW-30	Toluene	4/8/2015	4/10/2015	2	14	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-30	Total Dissolved Solids	4/8/2015	4/14/2015	6	7	OK
MW-30	Uranium	4/8/2015	4/15/2015	7	180	OK
MW-30	Vanadium	4/8/2015	4/17/2015	9	180	OK
MW-30	Xylenes, Total	4/8/2015	4/10/2015	2	14	OK
MW-30	Zinc	4/8/2015	4/21/2015	13	180	OK
MW-31	2-Butanone	4/7/2015	4/10/2015	3	14	OK
MW-31	Acetone	4/7/2015	4/10/2015	3	14	OK
MW-31	Ammonia (as N)	4/7/2015	4/16/2015	9	28	OK
MW-31	Arsenic	4/7/2015	4/15/2015	8	180	OK
MW-31	Benzene	4/7/2015	4/10/2015	3	14	OK
MW-31	Beryllium	4/7/2015	4/16/2015	9	180	OK
MW-31	Bicarbonate (as CaCO3)	4/7/2015	4/14/2015	7	14	OK
MW-31	Cadmium	4/7/2015	4/15/2015	8	180	OK
MW-31	Calcium	4/7/2015	4/17/2015	10	180	OK
MW-31	Carbon tetrachloride	4/7/2015	4/10/2015	3	14	OK
MW-31	Carbonate (as CaCO3)	4/7/2015	4/14/2015	7	14	OK
MW-31	Chloride	4/7/2015	4/14/2015	7	28	OK
MW-31	Chloroform	4/7/2015	4/10/2015	3	14	OK
MW-31	Chloromethane	4/7/2015	4/10/2015	3	14	OK
MW-31	Chromium	4/7/2015	4/15/2015	8	180	OK
MW-31	Cobalt	4/7/2015	4/15/2015	8	180	OK
MW-31	Copper	4/7/2015	4/15/2015	8	180	OK
MW-31	Fluoride	4/7/2015	4/15/2015	8	28	OK
MW-31	Gross Radium Alpha	4/7/2015	5/5/2015	28	180	OK
MW-31	Iron	4/7/2015	4/15/2015	8	180	OK
MW-31	Lead	4/7/2015	4/16/2015	9	180	OK
MW-31	Magnesium	4/7/2015	4/17/2015	10	180	OK
MW-31	Manganese	4/7/2015	4/15/2015	8	180	OK
MW-31	Mercury	4/7/2015	4/14/2015	7	180	OK
MW-31	Methylene chloride	4/7/2015	4/10/2015	3	14	OK
MW-31	Molybdenum	4/7/2015	4/15/2015	8	180	OK
MW-31	Naphthalene	4/7/2015	4/10/2015	3	14	OK
MW-31	Nickel	4/7/2015	4/15/2015	8	180	OK
MW-31	Nitrate/Nitrite (as N)	4/7/2015	4/10/2015	3	28	OK
MW-31	Potassium	4/7/2015	4/17/2015	10	180	OK
MW-31	Selenium	4/7/2015	4/15/2015	8	180	OK
MW-31	Silver	4/7/2015	4/15/2015	8	180	OK
MW-31	Sodium	4/7/2015	4/17/2015	10	180	OK
MW-31	Sulfate	4/7/2015	4/14/2015	7	28	OK
MW-31	Tetrahydrofuran	4/7/2015	4/10/2015	3	14	OK
MW-31	Thallium	4/7/2015	4/15/2015	8	180	OK
MW-31	Tin	4/7/2015	4/15/2015	8	180	OK
MW-31	Toluene	4/7/2015	4/10/2015	3	14	OK
MW-31	Total Dissolved Solids	4/7/2015	4/14/2015	7	7	OK
MW-31	Uranium	4/7/2015	4/15/2015	8	180	OK
MW-31	Vanadium	4/7/2015	4/17/2015	10	180	OK
MW-31	Xylenes, Total	4/7/2015	4/10/2015	3	14	OK
MW-31	Zinc	4/7/2015	4/21/2015	14	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-32	2-Butanone	4/8/2015	4/13/2015	5	14	OK
MW-32	Acetone	4/8/2015	4/13/2015	5	14	OK
MW-32	Ammonia (as N)	4/8/2015	4/16/2015	8	28	OK
MW-32	Arsenic	4/8/2015	4/15/2015	7	180	OK
MW-32	Benzene	4/8/2015	4/13/2015	5	14	OK
MW-32	Beryllium	4/8/2015	4/16/2015	8	180	OK
MW-32	Bicarbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-32	Cadmium	4/8/2015	4/15/2015	7	180	OK
MW-32	Calcium	4/8/2015	4/17/2015	9	180	OK
MW-32	Carbon tetrachloride	4/8/2015	4/13/2015	5	14	OK
MW-32	Carbonate (as CaCO3)	4/8/2015	4/14/2015	6	14	OK
MW-32	Chloride	4/8/2015	4/15/2015	7	28	OK
MW-32	Chloroform	4/8/2015	4/13/2015	5	14	OK
MW-32	Chloromethane	4/8/2015	4/13/2015	5	14	OK
MW-32	Chromium	4/8/2015	4/15/2015	7	180	OK
MW-32	Cobalt	4/8/2015	4/15/2015	7	180	OK
MW-32	Copper	4/8/2015	4/15/2015	7	180	OK
MW-32	Fluoride	4/8/2015	4/15/2015	7	28	OK
MW-32	Gross Radium Alpha	4/8/2015	5/5/2015	27	180	OK
MW-32	Iron	4/8/2015	4/16/2015	8	180	OK
MW-32	Lead	4/8/2015	4/16/2015	8	180	OK
MW-32	Magnesium	4/8/2015	4/17/2015	9	180	OK
MW-32	Manganese	4/8/2015	4/16/2015	8	180	OK
MW-32	Mercury	4/8/2015	4/14/2015	6	180	OK
MW-32	Methylene chloride	4/8/2015	4/13/2015	5	14	OK
MW-32	Molybdenum	4/8/2015	4/15/2015	7	180	OK
MW-32	Naphthalene	4/8/2015	4/13/2015	5	14	OK
MW-32	Nickel	4/8/2015	4/15/2015	7	180	OK
MW-32	Nitrate/Nitrite (as N)	4/8/2015	4/10/2015	2	28	OK
MW-32	Potassium	4/8/2015	4/17/2015	9	180	OK
MW-32	Selenium	4/8/2015	4/15/2015	7	180	OK
MW-32	Silver	4/8/2015	4/15/2015	7	180	OK
MW-32	Sodium	4/8/2015	4/17/2015	9	180	OK
MW-32	Sulfate	4/8/2015	4/14/2015	6	28	OK
MW-32	Tetrahydrofuran	4/8/2015	4/13/2015	5	14	OK
MW-32	Thallium	4/8/2015	4/15/2015	7	180	OK
MW-32	Tin	4/8/2015	4/15/2015	7	180	OK
MW-32	Toluene	4/8/2015	4/13/2015	5	14	OK
MW-32	Total Dissolved Solids	4/8/2015	4/14/2015	6	7	OK
MW-32	Uranium	4/8/2015	4/15/2015	7	180	OK
MW-32	Vanadium	4/8/2015	4/17/2015	9	180	OK
MW-32	Xylenes, Total	4/8/2015	4/13/2015	5	14	OK
MW-32	Zinc	4/8/2015	4/21/2015	13	180	OK
MW-35	2-Butanone	4/9/2015	4/13/2015	4	14	OK
MW-35	Acetone	4/9/2015	4/13/2015	4	14	OK
MW-35	Ammonia (as N)	4/9/2015	4/16/2015	7	28	OK
MW-35	Arsenic	4/9/2015	4/15/2015	6	180	OK
MW-35	Benzene	4/9/2015	4/13/2015	4	14	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-35	Beryllium	4/9/2015	4/16/2015	7	180	OK
MW-35	Bicarbonate (as CaCO3)	4/9/2015	4/14/2015	5	14	OK
MW-35	Cadmium	4/9/2015	4/15/2015	6	180	OK
MW-35	Calcium	4/9/2015	4/17/2015	8	180	OK
MW-35	Carbon tetrachloride	4/9/2015	4/13/2015	4	14	OK
MW-35	Carbonate (as CaCO3)	4/9/2015	4/14/2015	5	14	OK
MW-35	Chloride	4/9/2015	4/15/2015	6	28	OK
MW-35	Chloroform	4/9/2015	4/13/2015	4	14	OK
MW-35	Chloromethane	4/9/2015	4/13/2015	4	14	OK
MW-35	Chromium	4/9/2015	4/15/2015	6	180	OK
MW-35	Cobalt	4/9/2015	4/15/2015	6	180	OK
MW-35	Copper	4/9/2015	4/15/2015	6	180	OK
MW-35	Fluoride	4/9/2015	4/15/2015	6	28	OK
MW-35	Gross Radium Alpha	4/9/2015	5/5/2015	26	180	OK
MW-35	Iron	4/9/2015	4/15/2015	6	180	OK
MW-35	Lead	4/9/2015	4/16/2015	7	180	OK
MW-35	Magnesium	4/9/2015	4/17/2015	8	180	OK
MW-35	Manganese	4/9/2015	4/16/2015	7	180	OK
MW-35	Mercury	4/9/2015	4/14/2015	5	180	OK
MW-35	Methylene chloride	4/9/2015	4/13/2015	4	14	OK
MW-35	Molybdenum	4/9/2015	4/15/2015	6	180	OK
MW-35	Naphthalene	4/9/2015	4/13/2015	4	14	OK
MW-35	Nickel	4/9/2015	4/15/2015	6	180	OK
MW-35	Nitrate/Nitrite (as N)	4/9/2015	4/10/2015	1	28	OK
MW-35	Potassium	4/9/2015	4/17/2015	8	180	OK
MW-35	Selenium	4/9/2015	4/15/2015	6	180	OK
MW-35	Silver	4/9/2015	4/15/2015	6	180	OK
MW-35	Sodium	4/9/2015	4/17/2015	8	180	OK
MW-35	Sulfate	4/9/2015	4/14/2015	5	28	OK
MW-35	Tetrahydrofuran	4/9/2015	4/13/2015	4	14	OK
MW-35	Thallium	4/9/2015	4/15/2015	6	180	OK
MW-35	Tin	4/9/2015	4/15/2015	6	180	OK
MW-35	Toluene	4/9/2015	4/13/2015	4	14	OK
MW-35	Total Dissolved Solids	4/9/2015	4/14/2015	5	7	OK
MW-35	Uranium	4/9/2015	4/15/2015	6	180	OK
MW-35	Vanadium	4/9/2015	4/17/2015	8	180	OK
MW-35	Xylenes, Total	4/9/2015	4/13/2015	4	14	OK
MW-35	Zinc	4/9/2015	4/21/2015	12	180	OK
MW-36	2-Butanone	4/16/2015	4/20/2015	4	14	OK
MW-36	Acetone	4/16/2015	4/20/2015	4	14	OK
MW-36	Ammonia (as N)	4/16/2015	4/22/2015	6	28	OK
MW-36	Arsenic	4/16/2015	4/22/2015	6	180	OK
MW-36	Benzene	4/16/2015	4/20/2015	4	14	OK
MW-36	Beryllium	4/16/2015	4/22/2015	6	180	OK
MW-36	Bicarbonate (as CaCO3)	4/16/2015	4/20/2015	4	14	OK
MW-36	Cadmium	4/16/2015	4/22/2015	6	180	OK
MW-36	Calcium	4/16/2015	4/27/2015	11	180	OK
MW-36	Carbon tetrachloride	4/16/2015	4/20/2015	4	14	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-36	Carbonate (as CaCO <sub>3</sub> )	4/16/2015	4/20/2015	4	14	OK
MW-36	Chloride	4/16/2015	4/20/2015	4	28	OK
MW-36	Chloroform	4/16/2015	4/20/2015	4	14	OK
MW-36	Chloromethane	4/16/2015	4/20/2015	4	14	OK
MW-36	Chromium	4/16/2015	4/22/2015	6	180	OK
MW-36	Cobalt	4/16/2015	4/22/2015	6	180	OK
MW-36	Copper	4/16/2015	4/22/2015	6	180	OK
MW-36	Fluoride	4/16/2015	4/20/2015	4	28	OK
MW-36	Gross Radium Alpha	4/16/2015	5/5/2015	19	180	OK
MW-36	Iron	4/16/2015	4/22/2015	6	180	OK
MW-36	Lead	4/16/2015	4/22/2015	6	180	OK
MW-36	Magnesium	4/16/2015	4/27/2015	11	180	OK
MW-36	Manganese	4/16/2015	4/22/2015	6	180	OK
MW-36	Mercury	4/16/2015	4/24/2015	8	180	OK
MW-36	Methylene chloride	4/16/2015	4/20/2015	4	14	OK
MW-36	Molybdenum	4/16/2015	4/22/2015	6	180	OK
MW-36	Naphthalene	4/16/2015	4/20/2015	4	14	OK
MW-36	Nickel	4/16/2015	4/22/2015	6	180	OK
MW-36	Nitrate/Nitrite (as N)	4/16/2015	4/21/2015	5	28	OK
MW-36	Potassium	4/16/2015	4/27/2015	11	180	OK
MW-36	Selenium	4/16/2015	4/22/2015	6	180	OK
MW-36	Silver	4/16/2015	4/22/2015	6	180	OK
MW-36	Sodium	4/16/2015	4/27/2015	11	180	OK
MW-36	Sulfate	4/16/2015	4/20/2015	4	28	OK
MW-36	Tetrahydrofuran	4/16/2015	4/20/2015	4	14	OK
MW-36	Thallium	4/16/2015	4/22/2015	6	180	OK
MW-36	Tin	4/16/2015	4/22/2015	6	180	OK
MW-36	Toluene	4/16/2015	4/20/2015	4	14	OK
MW-36	Total Dissolved Solids	4/16/2015	4/17/2015	1	7	OK
MW-36	Uranium	4/16/2015	4/22/2015	6	180	OK
MW-36	Vanadium	4/16/2015	4/27/2015	11	180	OK
MW-36	Xylenes, Total	4/16/2015	4/20/2015	4	14	OK
MW-36	Zinc	4/16/2015	4/30/2015	14	180	OK
MW-37	Gross Radium Alpha	5/27/2015	6/29/2015	33	180	OK
MW-37	2-Butanone	6/24/2015	6/25/2015	1	14	OK
MW-37	Acetone	6/24/2015	6/25/2015	1	14	OK
MW-37	Ammonia (as N)	6/24/2015	6/30/2015	6	28	OK
MW-37	Arsenic	6/24/2015	7/6/2015	12	180	OK
MW-37	Benzene	6/24/2015	6/25/2015	1	14	OK
MW-37	Beryllium	6/24/2015	7/6/2015	12	180	OK
MW-37	Bicarbonate (as CaCO <sub>3</sub> )	6/24/2015	6/26/2015	2	14	OK
MW-37	Cadmium	6/24/2015	7/6/2015	12	180	OK
MW-37	Calcium	6/24/2015	7/6/2015	12	180	OK
MW-37	Carbon tetrachloride	6/24/2015	6/25/2015	1	14	OK
MW-37	Carbonate (as CaCO <sub>3</sub> )	6/24/2015	6/26/2015	2	14	OK
MW-37	Chloride	6/24/2015	7/6/2015	12	28	OK
MW-37	Chloroform	6/24/2015	6/25/2015	1	14	OK
MW-37	Chloromethane	6/24/2015	6/25/2015	1	14	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-37	Chromium	6/24/2015	7/6/2015	12	180	OK
MW-37	Cobalt	6/24/2015	7/6/2015	12	180	OK
MW-37	Copper	6/24/2015	7/6/2015	12	180	OK
MW-37	Fluoride	6/24/2015	7/6/2015	12	28	OK
MW-37	Iron	6/24/2015	7/6/2015	12	180	OK
MW-37	Lead	6/24/2015	7/6/2015	12	180	OK
MW-37	Magnesium	6/24/2015	7/8/2015	14	180	OK
MW-37	Manganese	6/24/2015	7/6/2015	12	180	OK
MW-37	Mercury	6/24/2015	6/26/2015	2	180	OK
MW-37	Methylene chloride	6/24/2015	6/25/2015	1	14	OK
MW-37	Molybdenum	6/24/2015	7/6/2015	12	180	OK
MW-37	Naphthalene	6/24/2015	6/25/2015	1	14	OK
MW-37	Nickel	6/24/2015	7/6/2015	12	180	OK
MW-37	Nitrate/Nitrite (as N)	6/24/2015	7/2/2015	8	28	OK
MW-37	Potassium	6/24/2015	7/6/2015	12	180	OK
MW-37	Selenium	6/24/2015	7/6/2015	12	180	OK
MW-37	Silver	6/24/2015	7/6/2015	12	180	OK
MW-37	Sodium	6/24/2015	7/6/2015	12	180	OK
MW-37	Sulfate	6/24/2015	7/6/2015	12	28	OK
MW-37	Tetrahydrofuran	6/24/2015	6/25/2015	1	14	OK
MW-37	Thallium	6/24/2015	7/6/2015	12	180	OK
MW-37	Tin	6/24/2015	7/9/2015	15	180	OK
MW-37	Toluene	6/24/2015	6/25/2015	1	14	OK
MW-37	Total Dissolved Solids	6/24/2015	6/29/2015	5	7	OK
MW-37	Uranium	6/24/2015	7/7/2015	13	180	OK
MW-37	Vanadium	6/24/2015	7/6/2015	12	180	OK
MW-37	Xylenes, Total	6/24/2015	6/25/2015	1	14	OK
MW-37	Zinc	6/24/2015	7/6/2015	12	180	OK
MW-65	2-Butanone	4/9/2015	4/13/2015	4	14	OK
MW-65	Acetone	4/9/2015	4/13/2015	4	14	OK
MW-65	Ammonia (as N)	4/9/2015	4/16/2015	7	28	OK
MW-65	Arsenic	4/9/2015	4/15/2015	6	180	OK
MW-65	Benzene	4/9/2015	4/13/2015	4	14	OK
MW-65	Beryllium	4/9/2015	4/16/2015	7	180	OK
MW-65	Bicarbonate (as CaCO3)	4/9/2015	4/14/2015	5	14	OK
MW-65	Cadmium	4/9/2015	4/15/2015	6	180	OK
MW-65	Calcium	4/9/2015	4/17/2015	8	180	OK
MW-65	Carbon tetrachloride	4/9/2015	4/13/2015	4	14	OK
MW-65	Carbonate (as CaCO3)	4/9/2015	4/14/2015	5	14	OK
MW-65	Chloride	4/9/2015	4/15/2015	6	28	OK
MW-65	Chloroform	4/9/2015	4/13/2015	4	14	OK
MW-65	Chloromethane	4/9/2015	4/13/2015	4	14	OK
MW-65	Chromium	4/9/2015	4/15/2015	6	180	OK
MW-65	Cobalt	4/9/2015	4/15/2015	6	180	OK
MW-65	Copper	4/9/2015	4/15/2015	6	180	OK
MW-65	Fluoride	4/9/2015	4/15/2015	6	28	OK
MW-65	Gross Radium Alpha	4/9/2015	5/5/2015	26	180	OK
MW-65	Iron	4/9/2015	4/15/2015	6	180	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Lead	4/9/2015	4/16/2015	7	180	OK
MW-65	Magnesium	4/9/2015	4/17/2015	8	180	OK
MW-65	Manganese	4/9/2015	4/16/2015	7	180	OK
MW-65	Mercury	4/9/2015	4/14/2015	5	180	OK
MW-65	Methylene chloride	4/9/2015	4/13/2015	4	14	OK
MW-65	Molybdenum	4/9/2015	4/15/2015	6	180	OK
MW-65	Naphthalene	4/9/2015	4/13/2015	4	14	OK
MW-65	Nickel	4/9/2015	4/15/2015	6	180	OK
MW-65	Nitrate/Nitrite (as N)	4/9/2015	4/10/2015	1	28	OK
MW-65	Potassium	4/9/2015	4/17/2015	8	180	OK
MW-65	Selenium	4/9/2015	4/15/2015	6	180	OK
MW-65	Silver	4/9/2015	4/15/2015	6	180	OK
MW-65	Sodium	4/9/2015	4/17/2015	8	180	OK
MW-65	Sulfate	4/9/2015	4/14/2015	5	28	OK
MW-65	Tetrahydrofuran	4/9/2015	4/13/2015	4	14	OK
MW-65	Thallium	4/9/2015	4/15/2015	6	180	OK
MW-65	Tin	4/9/2015	4/15/2015	6	180	OK
MW-65	Toluene	4/9/2015	4/13/2015	4	14	OK
MW-65	Total Dissolved Solids	4/9/2015	4/14/2015	5	7	OK
MW-65	Uranium	4/9/2015	4/15/2015	6	180	OK
MW-65	Vanadium	4/9/2015	4/17/2015	8	180	OK
MW-65	Xylenes, Total	4/9/2015	4/13/2015	4	14	OK
MW-65	Zinc	4/9/2015	4/21/2015	12	180	OK
MW-70	2-Butanone	4/30/2015	5/1/2015	1	14	OK
MW-70	Acetone	4/30/2015	5/1/2015	1	14	OK
MW-70	Ammonia (as N)	4/30/2015	5/5/2015	5	28	OK
MW-70	Arsenic	4/30/2015	5/12/2015	12	180	OK
MW-70	Benzene	4/30/2015	5/1/2015	1	14	OK
MW-70	Beryllium	4/30/2015	5/12/2015	12	180	OK
MW-70	Bicarbonate (as CaCO3)	4/30/2015	5/4/2015	4	14	OK
MW-70	Cadmium	4/30/2015	5/12/2015	12	180	OK
MW-70	Calcium	4/30/2015	5/13/2015	13	180	OK
MW-70	Carbon tetrachloride	4/30/2015	5/1/2015	1	14	OK
MW-70	Carbonate (as CaCO3)	4/30/2015	5/4/2015	4	14	OK
MW-70	Chloride	4/30/2015	5/5/2015	5	28	OK
MW-70	Chloroform	4/30/2015	5/1/2015	1	14	OK
MW-70	Chloromethane	4/30/2015	5/1/2015	1	14	OK
MW-70	Chromium	4/30/2015	5/12/2015	12	180	OK
MW-70	Cobalt	4/30/2015	5/12/2015	12	180	OK
MW-70	Copper	4/30/2015	5/12/2015	12	180	OK
MW-70	Fluoride	4/30/2015	5/5/2015	5	28	OK
MW-70	Gross Radium Alpha	4/30/2015	5/29/2015	29	180	OK
MW-70	Iron	4/30/2015	5/12/2015	12	180	OK
MW-70	Lead	4/30/2015	5/12/2015	12	180	OK
MW-70	Magnesium	4/30/2015	5/13/2015	13	180	OK
MW-70	Manganese	4/30/2015	5/13/2015	13	180	OK
MW-70	Mercury	4/30/2015	5/5/2015	5	180	OK
MW-70	Methylene chloride	4/30/2015	5/1/2015	1	14	OK

## G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-70	Molybdenum	4/30/2015	5/12/2015	12	180	OK
MW-70	Naphthalene	4/30/2015	5/1/2015	1	14	OK
MW-70	Nickel	4/30/2015	5/12/2015	12	180	OK
MW-70	Nitrate/Nitrite (as N)	4/30/2015	5/8/2015	8	28	OK
MW-70	Potassium	4/30/2015	5/12/2015	12	180	OK
MW-70	Selenium	4/30/2015	5/12/2015	12	180	OK
MW-70	Silver	4/30/2015	5/12/2015	12	180	OK
MW-70	Sodium	4/30/2015	5/13/2015	13	180	OK
MW-70	Sulfate	4/30/2015	5/5/2015	5	28	OK
MW-70	Tetrahydrofuran	4/30/2015	5/1/2015	1	14	OK
MW-70	Thallium	4/30/2015	5/12/2015	12	180	OK
MW-70	Tin	4/30/2015	5/12/2015	12	180	OK
MW-70	Toluene	4/30/2015	5/1/2015	1	14	OK
MW-70	Total Dissolved Solids	4/30/2015	5/1/2015	1	7	OK
MW-70	Uranium	4/30/2015	5/12/2015	12	180	OK
MW-70	Vanadium	4/30/2015	5/12/2015	12	180	OK
MW-70	Xylenes, Total	4/30/2015	5/1/2015	1	14	OK
MW-70	Zinc	4/30/2015	5/12/2015	12	180	OK

## G-2B: Accelerated Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Chloroform	5/12/2015	5/18/2015	6	14	OK
Trip Blank	Methylene chloride	5/12/2015	5/18/2015	6	14	OK
Trip Blank	Chloroform	6/23/2015	6/25/2015	2	14	OK
Trip Blank	Methylene chloride	6/23/2015	6/25/2015	2	14	OK
MW-11	Manganese	5/11/2015	5/19/2015	8	180	OK
MW-11	Manganese	6/23/2015	7/6/2015	13	180	OK
MW-25	Cadmium	5/11/2015	5/19/2015	8	180	OK
MW-25	Uranium	5/11/2015	5/19/2015	8	180	OK
MW-25	Cadmium	6/23/2015	7/6/2015	13	180	OK
MW-25	Uranium	6/23/2015	7/7/2015	14	180	OK
MW-26	Chloride	5/12/2015	5/28/2015	16	28	OK
MW-26	Chloroform	5/12/2015	5/18/2015	6	14	OK
MW-26	Uranium	5/12/2015	5/19/2015	7	180	OK
MW-26	Methylene chloride	5/12/2015	5/18/2015	6	14	OK
MW-26	Nitrate/Nitrite (as N)	5/12/2015	5/22/2015	10	28	OK
MW-26	Chloride	6/24/2015	7/6/2015	12	28	OK
MW-26	Chloroform	6/24/2015	6/25/2015	1	14	OK
MW-26	Uranium	6/24/2015	7/7/2015	13	180	OK
MW-26	Methylene chloride	6/24/2015	6/25/2015	1	14	OK
MW-26	Nitrate/Nitrite (as N)	6/24/2015	7/2/2015	8	28	OK
MW-30	Chloride	5/12/2015	5/28/2015	16	28	OK
MW-30	Uranium	5/12/2015	5/19/2015	7	180	OK
MW-30	Ammonia (as N)	5/12/2015	5/20/2015	8	28	OK
MW-30	Selenium	5/12/2015	5/19/2015	7	180	OK
MW-30	Nitrate/Nitrite (as N)	5/12/2015	5/29/2015	17	28	OK
MW-30	Chloride	6/24/2015	7/6/2015	12	28	OK
MW-30	Uranium	6/24/2015	7/7/2015	13	180	OK
MW-30	Ammonia (as N)	6/24/2015	6/30/2015	6	28	OK
MW-30	Selenium	6/24/2015	7/6/2015	12	180	OK
MW-30	Nitrate/Nitrite (as N)	6/24/2015	7/2/2015	8	28	OK
MW-31	Sulfate	5/11/2015	5/28/2015	17	28	OK
MW-31	Chloride	5/11/2015	5/28/2015	17	28	OK
MW-31	Selenium	5/11/2015	5/19/2015	8	180	OK
MW-31	Nitrate/Nitrite (as N)	5/11/2015	5/29/2015	18	28	OK
MW-31	Total Dissolved Solids	5/11/2015	5/15/2015	4	7	OK
MW-31	Sulfate	6/23/2015	7/6/2015	13	28	OK
MW-31	Chloride	6/23/2015	7/6/2015	13	28	OK
MW-31	Selenium	6/23/2015	7/6/2015	13	180	OK
MW-31	Nitrate/Nitrite (as N)	6/23/2015	7/2/2015	9	28	OK
MW-31	Total Dissolved Solids	6/23/2015	6/29/2015	6	7	OK
MW-35	Manganese	5/12/2015	5/19/2015	7	180	OK
MW-35	Thallium	5/12/2015	5/19/2015	7	180	OK
MW-35	Uranium	5/12/2015	5/19/2015	7	180	OK
MW-35	Selenium	5/12/2015	5/19/2015	7	180	OK
MW-35	Gross Radium Alpha	5/12/2015	6/12/2015	31	180	OK
MW-35	Gross Radium Alpha	6/2/2015	6/29/2015	27	180	OK
MW-35	Manganese	6/23/2015	7/6/2015	13	180	OK
MW-35	Thallium	6/23/2015	7/6/2015	13	180	OK

## G-2B: Accelerated Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-35	Uranium	6/23/2015	7/7/2015	14	180	OK
MW-35	Selenium	6/23/2015	7/6/2015	13	180	OK
MW-65	Manganese	5/12/2015	5/19/2015	7	180	OK
MW-65	Thallium	5/12/2015	5/19/2015	7	180	OK
MW-65	Uranium	5/12/2015	5/19/2015	7	180	OK
MW-65	Selenium	5/12/2015	5/19/2015	7	180	OK
MW-65	Gross Radium Alpha	5/12/2015	6/12/2015	31	180	OK
MW-65	Chloride	6/24/2015	7/6/2015	12	28	OK
MW-65	Uranium	6/24/2015	7/7/2015	13	180	OK
MW-65	Ammonia (as N)	6/24/2015	6/30/2015	6	28	OK
MW-65	Selenium	6/24/2015	7/6/2015	12	180	OK
MW-65	Nitrate/Nitrite (as N)	6/24/2015	7/2/2015	8	28	OK

G-3A: Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
AWAL 1504208	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-32, MW-35, MW-65, Trip Blank	2.3 °C
AWAL 1504309	MW-01, MW-15, MW-18, MW-19, MW-36, Trip Blank	4.5 °C
AWAL 1504455	MW-02, MW-03, MW-03A, MW-05, MW-12, MW-17, MW-22, MW-27, MW-28	1.5 °C
AWAL 1505005	MW-23, MW-29, MW-70, MW-02 VOCs, MW-03 VOCs, MW-03A VOCs, MW-05 VOCs, MW-12 VOCs, MW-17 VOCs, MW-22 VOCs, MW-27 VOCs, MW-28 VOCs, Trip Blank	3.2 °C
AWAL 1505395	MW-03 Resample (Metals only)	N/A
AWAL 1506525	MW-37, MW-20, MW-24, Trip Blank	2.0 °C
GEL 370955	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-32, MW-35, MW-65	N/A
GEL 371248	MW-01, MW-15, MW-18, MW-19, MW-36	N/A
GEL 371879	MW-02, MW-03, MW-03A, MW-05, MW-12, MW-17, MW-22, MW-27, MW-28	N/A
GEL 372310	MW-23, MW-29, MW-70,	N/A
GEL 374145	MW-20, MW-24, MW-37	N/A

N/A = These shipments contained samples for the analysis of gross alpha or metals only. Per Table 1 in the approved QAP, samples submitted for gross alpha and metals analyses do not have a sample temperature requirement.

G-3B: Laboratory Receipt Temperature Check - Accelerated Samples

Sample Batch	Wells in Batch	Temperature
AWAL 1505272	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65, Trip Blank	4.0°C
GEL 373296	MW-35, MW-65	NA
AWAL 1506524	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65	2.0 °C
GEL	MW-35	N/A

N/A = These shipments contained samples for the analysis of gross alpha only. Per Table 1 in the approved QAP, samples submitted for gross alpha analyses do not have a sample temperature requirement.

## G-4A: Analytical Method Check

Parameter	QAP Method	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	E350.1
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 and E200.8
Gross Alpha	E900.0 or E900.1	E900.1
VOCs	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Fluoride	A4500-F C or E300.0	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C
Carbonate as CO <sub>3</sub> , Bicarbonate as HCO <sub>3</sub>	A2320 B	A2320 B
Calcium, Magnesium, Potassium, Sodium	E200.7	E200.7

G-4B: Analytical Method Check - Accelerated Samples

Parameter	QAP Method*	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	E350.1
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 or E200.8
Gross Alpha	E900.0 or E900.1	E900.1
VOCs	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B or A4500-Cl E or E300.0	A4500-Cl E and E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
MW-01	2-Butanone	20	ug/L	U	1	20	OK
MW-01	Acetone	20	ug/L	U	1	20	OK
MW-01	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-01	Arsenic	5	ug/L	U	2	5	OK
MW-01	Benzene	1	ug/L	U	1	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-01	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-01	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-01	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-01	Calcium	10	mg/L		10	0.5	OK
MW-01	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-01	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-01	Chloride	10	mg/L		10	1	OK
MW-01	Chloroform	1	ug/L	U	1	1	OK
MW-01	Chloromethane	1	ug/L	U	1	1	OK
MW-01	Chromium	25	ug/L	U	2	25	OK
MW-01	Cobalt	10	ug/L	U	2	10	OK
MW-01	Copper	10	ug/L	U	2	10	OK
MW-01	Fluoride	0.1	mg/L		1	0.1	OK
MW-01	Gross Radium Alpha	0.899	pCi/L	U	1	1	OK
MW-01	Iron	30	ug/L		2	30	OK
MW-01	Lead	1	ug/L	U	2	1	OK
MW-01	Magnesium	10	mg/L		10	0.5	OK
MW-01	Manganese	10	ug/L		2	10	OK
MW-01	Mercury	0.5	ug/L	U	1	0.5	OK
MW-01	Methylene chloride	1	ug/L	U	1	1	OK
MW-01	Molybdenum	10	ug/L	U	2	10	OK
MW-01	Naphthalene	1	ug/L	U	1	1	OK
MW-01	Nickel	20	ug/L	U	2	20	OK
MW-01	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-01	Potassium	1	mg/L		1	0.5	OK
MW-01	Selenium	5	ug/L	U	2	5	OK
MW-01	Silver	10	ug/L	U	2	10	OK
MW-01	Sodium	10	mg/L		10	0.5	OK
MW-01	Sulfate	100	mg/L		100	1	OK
MW-01	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-01	Thallium	0.5	ug/L	U	2	0.5	OK
MW-01	Tin	100	ug/L	U	2	100	OK
MW-01	Toluene	1	ug/L	U	1	1	OK
MW-01	Total Dissolved Solids	20	MG/L		2	10	OK
MW-01	Uranium	0.3	ug/L		2	0.3	OK
MW-01	Vanadium	15	ug/L	U	1	15	OK
MW-01	Xylenes, Total	1	ug/L	U	1	1	OK
MW-01	Zinc	10	ug/L		20	10	OK
MW-02	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-02	Arsenic	5	ug/L	U	2	5	OK
MW-02	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-02	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-02	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-02	Calcium	50	mg/L		50	0.5	OK
MW-02	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-02	Chloride	1	mg/L		1	1	OK
MW-02	Chromium	25	ug/L	U	2	25	OK
MW-02	Cobalt	10	ug/L	U	2	10	OK
MW-02	Copper	10	ug/L	U	2	10	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-02	Fluoride	0.1	mg/L		1	0.1	OK
MW-02	Gross Radium Alpha	0.536	pCi/L	U	1	1	OK
MW-02	Iron	30	ug/L	U	2	30	OK
MW-02	Lead	1	ug/L	U	2	1	OK
MW-02	Magnesium	50	mg/L		50	0.5	OK
MW-02	Manganese	10	ug/L	U	20	10	OK
MW-02	Mercury	0.5	ug/L	U	1	0.5	OK
MW-02	Molybdenum	10	ug/L	U	2	10	OK
MW-02	Nickel	20	ug/L	U	2	20	OK
MW-02	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-02	Potassium	1	mg/L		1	0.5	OK
MW-02	Selenium	5	ug/L		2	5	OK
MW-02	Silver	10	ug/L	U	2	10	OK
MW-02	Sodium	50	mg/L		50	0.5	OK
MW-02	Sulfate	1000	mg/L		1000	1	OK
MW-02	Thallium	0.5	ug/L	U	2	0.5	OK
MW-02	Tin	100	ug/L	U	2	100	OK
MW-02	Total Dissolved Solids	20	MG/L		2	10	OK
MW-02	Uranium	0.3	ug/L		2	0.3	OK
MW-02	Vanadium	15	ug/L	U	1	15	OK
MW-02	Zinc	10	ug/L		20	10	OK
MW-02	2-Butanone	20	ug/L	U	1	20	OK
MW-02	Acetone	20	ug/L	U	1	20	OK
MW-02	Benzene	1	ug/L	U	1	1	OK
MW-02	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-02	Chloroform	1	ug/L	U	1	1	OK
MW-02	Chloromethane	1	ug/L	U	1	1	OK
MW-02	Methylene chloride	1	ug/L	U	1	1	OK
MW-02	Naphthalene	1	ug/L	U	1	1	OK
MW-02	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-02	Toluene	1	ug/L	U	1	1	OK
MW-02	Xylenes, Total	1	ug/L	U	1	1	OK
MW-03	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-03	Arsenic	5	ug/L	U	2	5	OK
MW-03	Beryllium	0.5	ug/L		2	0.5	OK
MW-03	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-03	Cadmium	0.5	ug/L		2	0.5	OK
MW-03	Calcium	50	mg/L		50	0.5	OK
MW-03	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-03	Chloride	10	mg/L		10	1	OK
MW-03	Chromium	25	ug/L	U	2	25	OK
MW-03	Cobalt	10	ug/L	U	2	10	OK
MW-03	Copper	10	ug/L	U	2	10	OK
MW-03	Fluoride	0.1	mg/L		1	0.1	OK
MW-03	Gross Radium Alpha	0.576	pCi/L	U	1	1	OK
MW-03	Iron	30	ug/L	U	2	30	OK
MW-03	Lead	1	ug/L	U	2	1	OK
MW-03	Magnesium	50	mg/L		50	0.5	OK
MW-03	Manganese	10	ug/L		20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-03	Mercury	0.5	ug/L	U	1	0.5	OK
MW-03	Molybdenum	10	ug/L	U	2	10	OK
MW-03	Nickel	20	ug/L		2	20	OK
MW-03	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-03	Potassium	1	mg/L		1	0.5	OK
MW-03	Selenium	5	ug/L		2	5	OK
MW-03	Silver	10	ug/L	U	2	10	OK
MW-03	Sodium	50	mg/L		50	0.5	OK
MW-03	Sulfate	1000	mg/L		1000	1	OK
MW-03	Thallium	0.5	ug/L		2	0.5	OK
MW-03	Tin	100	ug/L	U	2	100	OK
MW-03	Total Dissolved Solids	20	MG/L		2	10	OK
MW-03	Uranium	0.3	ug/L		2	0.3	OK
MW-03	Vanadium	15	ug/L	U	1	15	OK
MW-03	Zinc	10	ug/L		20	10	OK
MW-03	2-Butanone	20	ug/L	U	1	20	OK
MW-03	Acetone	20	ug/L	U	1	20	OK
MW-03	Benzene	1	ug/L	U	1	1	OK
MW-03	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-03	Chloroform	1	ug/L	U	1	1	OK
MW-03	Chloromethane	1	ug/L	U	1	1	OK
MW-03	Methylene chloride	1	ug/L	U	1	1	OK
MW-03	Naphthalene	1	ug/L	U	1	1	OK
MW-03	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-03	Toluene	1	ug/L	U	1	1	OK
MW-03	Xylenes, Total	1	ug/L	U	1	1	OK
MW-03	Arsenic	5	ug/L	U	20	5	OK
MW-03	Beryllium	0.5	ug/L		5	0.5	OK
MW-03	Cadmium	0.5	ug/L		20	0.5	OK
MW-03	Calcium	50	mg/L		50	0.5	OK
MW-03	Chromium	25	ug/L	U	20	25	OK
MW-03	Cobalt	10	ug/L	U	20	10	OK
MW-03	Copper	10	ug/L	U	20	10	OK
MW-03	Iron	30	ug/L	U	5	30	OK
MW-03	Lead	1	ug/L	U	5	1	OK
MW-03	Magnesium	50	mg/L		50	0.5	OK
MW-03	Manganese	10	ug/L		20	10	OK
MW-03	Mercury	0.5	ug/L	U	1	0.5	OK
MW-03	Molybdenum	10	ug/L	U	20	10	OK
MW-03	Nickel	20	ug/L		20	20	OK
MW-03	Potassium	1	mg/L		1	0.5	OK
MW-03	Selenium	5	ug/L		20	5	OK
MW-03	Silver	10	ug/L	U	20	10	OK
MW-03	Sodium	50	mg/L		50	0.5	OK
MW-03	Thallium	0.5	ug/L		5	0.5	OK
MW-03	Tin	100	ug/L	U	20	100	OK
MW-03	Uranium	0.3	ug/L		2	0.3	OK
MW-03	Vanadium	15	ug/L	U	1	15	OK
MW-03	Zinc	10	ug/L		20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-03A	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-03A	Arsenic	5	ug/L	U	2	5	OK
MW-03A	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-03A	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-03A	Cadmium	0.5	ug/L		2	0.5	OK
MW-03A	Calcium	50	mg/L		50	0.5	OK
MW-03A	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-03A	Chloride	10	mg/L		10	1	OK
MW-03A	Chromium	25	ug/L	U	2	25	OK
MW-03A	Cobalt	10	ug/L	U	2	10	OK
MW-03A	Copper	10	ug/L	U	2	10	OK
MW-03A	Fluoride	0.1	mg/L		1	0.1	OK
MW-03A	Gross Radium Alpha	0.848	pCi/L	U	1	1	OK
MW-03A	Iron	30	ug/L	U	2	30	OK
MW-03A	Lead	1	ug/L	U	2	1	OK
MW-03A	Magnesium	50	mg/L		50	0.5	OK
MW-03A	Manganese	10	ug/L		20	10	OK
MW-03A	Mercury	0.5	ug/L	U	1	0.5	OK
MW-03A	Molybdenum	10	ug/L	U	2	10	OK
MW-03A	Nickel	20	ug/L	U	2	20	OK
MW-03A	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-03A	Potassium	1	mg/L		1	0.5	OK
MW-03A	Selenium	5	ug/L		2	5	OK
MW-03A	Silver	10	ug/L	U	2	10	OK
MW-03A	Sodium	50	mg/L		50	0.5	OK
MW-03A	Sulfate	1000	mg/L		1000	1	OK
MW-03A	Thallium	0.5	ug/L		2	0.5	OK
MW-03A	Tin	100	ug/L	U	2	100	OK
MW-03A	Total Dissolved Solids	20	MG/L		2	10	OK
MW-03A	Uranium	0.3	ug/L		2	0.3	OK
MW-03A	Vanadium	15	ug/L	U	1	15	OK
MW-03A	Zinc	10	ug/L		20	10	OK
MW-03A	2-Butanone	20	ug/L	U	1	20	OK
MW-03A	Acetone	20	ug/L	U	1	20	OK
MW-03A	Benzene	1	ug/L	U	1	1	OK
MW-03A	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-03A	Chloroform	1	ug/L	U	1	1	OK
MW-03A	Chloromethane	1	ug/L	U	1	1	OK
MW-03A	Methylene chloride	1	ug/L	U	1	1	OK
MW-03A	Naphthalene	1	ug/L	U	1	1	OK
MW-03A	Tetrahydrofuran	1	ug/L		1	1	OK
MW-03A	Toluene	1	ug/L	U	1	1	OK
MW-03A	Xylenes, Total	1	ug/L	U	1	1	OK
MW-05	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-05	Arsenic	5	ug/L	U	2	5	OK
MW-05	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-05	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-05	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-05	Calcium	50	mg/L		50	0.5	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-05	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-05	Chloride	10	mg/L		10	1	OK
MW-05	Chromium	25	ug/L	U	2	25	OK
MW-05	Cobalt	10	ug/L	U	2	10	OK
MW-05	Copper	10	ug/L	U	2	10	OK
MW-05	Fluoride	0.1	mg/L		1	0.1	OK
MW-05	Gross Radium Alpha	0.982	pCi/L	U	1	1	OK
MW-05	Iron	30	ug/L		2	30	OK
MW-05	Lead	1	ug/L	U	2	1	OK
MW-05	Magnesium	1	mg/L		1	0.5	OK
MW-05	Manganese	10	ug/L		20	10	OK
MW-05	Mercury	0.5	ug/L	U	1	0.5	OK
MW-05	Molybdenum	10	ug/L	U	2	10	OK
MW-05	Nickel	20	ug/L	U	2	20	OK
MW-05	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-05	Potassium	1	mg/L		1	0.5	OK
MW-05	Selenium	5	ug/L	U	2	5	OK
MW-05	Silver	10	ug/L	U	2	10	OK
MW-05	Sodium	50	mg/L		50	0.5	OK
MW-05	Sulfate	1000	mg/L		1000	1	OK
MW-05	Thallium	0.5	ug/L	U	2	0.5	OK
MW-05	Tin	100	ug/L	U	2	100	OK
MW-05	Total Dissolved Solids	20	MG/L		2	10	OK
MW-05	Uranium	0.3	ug/L		2	0.3	OK
MW-05	Vanadium	15	ug/L	U	1	15	OK
MW-05	Zinc	10	ug/L	U	20	10	OK
MW-05	2-Butanone	20	ug/L	U	1	20	OK
MW-05	Acetone	20	ug/L	U	1	20	OK
MW-05	Benzene	1	ug/L	U	1	1	OK
MW-05	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-05	Chloroform	1	ug/L	U	1	1	OK
MW-05	Chloromethane	1	ug/L	U	1	1	OK
MW-05	Methylene chloride	1	ug/L	U	1	1	OK
MW-05	Naphthalene	1	ug/L	U	1	1	OK
MW-05	Tetrahydrofuran	1	ug/L		1	1	OK
MW-05	Toluene	1	ug/L	U	1	1	OK
MW-05	Xylenes, Total	1	ug/L	U	1	1	OK
MW-11	2-Butanone	20	ug/L	U	1	20	OK
MW-11	Acetone	20	ug/L	U	1	20	OK
MW-11	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-11	Arsenic	5	ug/L	U	2	5	OK
MW-11	Benzene	1	ug/L	U	1	1	OK
MW-11	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-11	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-11	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-11	Calcium	20	mg/L		20	0.5	OK
MW-11	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-11	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-11	Chloride	10	mg/L		10	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-11	Chloroform	1	ug/L	U	1	1	OK
MW-11	Chloromethate	1	ug/L	U	1	1	OK
MW-11	Chromium	25	ug/L	U	2	25	OK
MW-11	Cobalt	10	ug/L	U	2	10	OK
MW-11	Copper	10	ug/L	U	2	10	OK
MW-11	Fluoride	0.1	mg/L		1	0.1	OK
MW-11	Gross Radium Alpha	0.828	pCi/L	U	1	1	OK
MW-11	Iron	30	ug/L		2	30	OK
MW-11	Lead	1	ug/L	U	5	1	OK
MW-11	Magnesium	20	mg/L		20	0.5	OK
MW-11	Manganese	10	ug/L		2	10	OK
MW-11	Mercury	0.5	ug/L	U	1	0.5	OK
MW-11	Methylene chloride	1	ug/L	U	1	1	OK
MW-11	Molybdenum	10	ug/L	U	2	10	OK
MW-11	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Nickel	20	ug/L	U	2	20	OK
MW-11	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-11	Potassium	1	mg/L		1	0.5	OK
MW-11	Selenium	5	ug/L	U	2	5	OK
MW-11	Silver	10	ug/L	U	2	10	OK
MW-11	Sodium	20	mg/L		20	0.5	OK
MW-11	Sulfate	1000	mg/L		1000	1	OK
MW-11	Tetrahydrofuran	1	ug/L		1	1	OK
MW-11	Thallium	0.5	ug/L	U	2	0.5	OK
MW-11	Tin	100	ug/L	U	2	100	OK
MW-11	Toluene	1	ug/L	U	1	1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-11	Uranium	0.3	ug/L		2	0.3	OK
MW-11	Vanadium	15	ug/L	U	1	15	OK
MW-11	Xylenes, Total	1	ug/L	U	1	1	OK
MW-11	Zinc	10	ug/L	U	20	10	OK
MW-12	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-12	Arsenic	5	ug/L	U	2	5	OK
MW-12	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-12	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-12	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-12	Calcium	50	mg/L		50	0.5	OK
MW-12	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-12	Chloride	10	mg/L		10	1	OK
MW-12	Chromium	25	ug/L	U	2	25	OK
MW-12	Cobalt	10	ug/L	U	2	10	OK
MW-12	Copper	10	ug/L	U	2	10	OK
MW-12	Fluoride	0.1	mg/L		1	0.1	OK
MW-12	Gross Radium Alpha	0.987	pCi/L	U	1	1	OK
MW-12	Iron	30	ug/L	U	2	30	OK
MW-12	Lead	1	ug/L	U	2	1	OK
MW-12	Magnesium	50	mg/L		50	0.5	OK
MW-12	Manganese	10	ug/L		20	10	OK
MW-12	Mercury	0.5	ug/L	U	1	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-12	Molybdenum	10	ug/L	U	2	10	OK
MW-12	Nickel	20	ug/L	U	2	20	OK
MW-12	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-12	Potassium	1	mg/L		1	0.5	OK
MW-12	Selenium	5	ug/L		2	5	OK
MW-12	Silver	10	ug/L	U	2	10	OK
MW-12	Sodium	50	mg/L		50	0.5	OK
MW-12	Sulfate	1000	mg/L		1000	1	OK
MW-12	Thallium	0.5	ug/L	U	2	0.5	OK
MW-12	Tin	100	ug/L	U	2	100	OK
MW-12	Total Dissolved Solids	20	MG/L		2	10	OK
MW-12	Uranium	0.3	ug/L		2	0.3	OK
MW-12	Vanadium	15	ug/L	U	1	15	OK
MW-12	Zinc	10	ug/L	U	20	10	OK
MW-12	2-Butanone	20	ug/L	U	1	20	OK
MW-12	Acetone	20	ug/L	U	1	20	OK
MW-12	Benzene	1	ug/L	U	1	1	OK
MW-12	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-12	Chloroform	1	ug/L	U	1	1	OK
MW-12	Chloromethane	1	ug/L	U	1	1	OK
MW-12	Methylene chloride	1	ug/L	U	1	1	OK
MW-12	Naphthalene	1	ug/L	U	1	1	OK
MW-12	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-12	Toluene	1	ug/L	U	1	1	OK
MW-12	Xylenes, Total	1	ug/L	U	1	1	OK
MW-14	2-Butanone	20	ug/L	U	1	20	OK
MW-14	Acetone	20	ug/L	U	1	20	OK
MW-14	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-14	Arsenic	5	ug/L	U	2	5	OK
MW-14	Benzene	1	ug/L	U	1	1	OK
MW-14	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-14	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-14	Cadmium	0.5	ug/L		2	0.5	OK
MW-14	Calcium	20	mg/L		20	0.5	OK
MW-14	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-14	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-14	Chloride	10	mg/L		10	1	OK
MW-14	Chloroform	1	ug/L	U	1	1	OK
MW-14	Chloromethane	1	ug/L	U	1	1	OK
MW-14	Chromium	25	ug/L	U	2	25	OK
MW-14	Cobalt	10	ug/L	U	2	10	OK
MW-14	Copper	10	ug/L	U	2	10	OK
MW-14	Fluoride	0.1	mg/L		1	0.1	OK
MW-14	Gross Radium Alpha	0.934	pCi/L	U	1	1	OK
MW-14	Iron	30	ug/L	U	2	30	OK
MW-14	Lead	1	ug/L	U	5	1	OK
MW-14	Magnesium	20	mg/L		20	0.5	OK
MW-14	Manganese	50	ug/L		100	10	OK
MW-14	Mercury	0.5	ug/L	U	1	0.5	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-14	Methylene chloride	1	ug/L	U	1	1	OK
MW-14	Molybdenum	10	ug/L	U	2	10	OK
MW-14	Naphthalene	1	ug/L	U	1	1	OK
MW-14	Nickel	20	ug/L	U	2	20	OK
MW-14	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-14	Potassium	1	mg/L		1	0.5	OK
MW-14	Selenium	5	ug/L	U	2	5	OK
MW-14	Silver	10	ug/L	U	2	10	OK
MW-14	Sodium	20	mg/L		20	0.5	OK
MW-14	Sulfate	1000	mg/L		1000	1	OK
MW-14	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-14	Thallium	0.5	ug/L	U	2	0.5	OK
MW-14	Tin	100	ug/L	U	2	100	OK
MW-14	Toluene	1	ug/L	U	1	1	OK
MW-14	Total Dissolved Solids	20	MG/L		2	10	OK
MW-14	Uranium	0.3	ug/L		2	0.3	OK
MW-14	Vanadium	15	ug/L	U	1	15	OK
MW-14	Xylenes, Total	1	ug/L	U	1	1	OK
MW-14	Zinc	10	ug/L		20	10	OK
MW-15	2-Butanone	20	ug/L	U	1	20	OK
MW-15	Acetone	20	ug/L	U	1	20	OK
MW-15	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-15	Arsenic	5	ug/L	U	2	5	OK
MW-15	Benzene	1	ug/L	U	1	1	OK
MW-15	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-15	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-15	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-15	Calcium	50	mg/L		50	0.5	OK
MW-15	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-15	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-15	Chloride	10	mg/L		10	1	OK
MW-15	Chloroform	1	ug/L	U	1	1	OK
MW-15	Chloromethane	1	ug/L	U	1	1	OK
MW-15	Chromium	25	ug/L	U	2	25	OK
MW-15	Cobalt	10	ug/L	U	2	10	OK
MW-15	Copper	10	ug/L	U	2	10	OK
MW-15	Fluoride	0.1	mg/L		1	0.1	OK
MW-15	Gross Radium Alpha	0.934	pCi/L	U	1	1	OK
MW-15	Iron	30	ug/L	U	2	30	OK
MW-15	Lead	1	ug/L	U	2	1	OK
MW-15	Magnesium	50	mg/L		50	0.5	OK
MW-15	Manganese	10	ug/L	U	2	10	OK
MW-15	Mercury	0.5	ug/L	U	1	0.5	OK
MW-15	Methylene chloride	1	ug/L	U	1	1	OK
MW-15	Molybdenum	10	ug/L	U	2	10	OK
MW-15	Naphthalene	1	ug/L	U	1	1	OK
MW-15	Nickel	20	ug/L	U	2	20	OK
MW-15	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-15	Potassium	1	mg/L		1	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-15	Selenium	5	ug/L		2	5	OK
MW-15	Silver	10	ug/L	U	2	10	OK
MW-15	Sodium	50	mg/L		50	0.5	OK
MW-15	Sulfate	1000	mg/L		1000	1	OK
MW-15	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-15	Thallium	0.5	ug/L	U	2	0.5	OK
MW-15	Tin	100	ug/L	U	2	100	OK
MW-15	Toluene	1	ug/L	U	1	1	OK
MW-15	Total Dissolved Solids	20	MG/L		2	10	OK
MW-15	Uranium	0.3	ug/L		2	0.3	OK
MW-15	Vanadium	15	ug/L	U	1	15	OK
MW-15	Xylenes, Total	1	ug/L	U	1	1	OK
MW-15	Zinc	10	ug/L	U	20	10	OK
MW-17	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-17	Arsenic	5	ug/L	U	2	5	OK
MW-17	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-17	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-17	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-17	Calcium	50	mg/L		50	0.5	OK
MW-17	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-17	Chloride	10	mg/L		10	1	OK
MW-17	Chromium	25	ug/L	U	2	25	OK
MW-17	Cobalt	10	ug/L	U	2	10	OK
MW-17	Copper	10	ug/L	U	2	10	OK
MW-17	Fluoride	0.1	mg/L		1	0.1	OK
MW-17	Gross Radium Alpha	0.963	pCi/L	U	1	1	OK
MW-17	Iron	30	ug/L	U	2	30	OK
MW-17	Lead	1	ug/L	U	2	1	OK
MW-17	Magnesium	50	mg/L		50	0.5	OK
MW-17	Manganese	10	ug/L		20	10	OK
MW-17	Mercury	0.5	ug/L	U	1	0.5	OK
MW-17	Molybdenum	10	ug/L	U	2	10	OK
MW-17	Nickel	20	ug/L	U	2	20	OK
MW-17	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-17	Potassium	1	mg/L		1	0.5	OK
MW-17	Selenium	5	ug/L		2	5	OK
MW-17	Silver	10	ug/L	U	2	10	OK
MW-17	Sodium	50	mg/L		50	0.5	OK
MW-17	Sulfate	1000	mg/L		1000	1	OK
MW-17	Thallium	0.5	ug/L	U	2	0.5	OK
MW-17	Tin	100	ug/L	U	2	100	OK
MW-17	Total Dissolved Solids	20	MG/L		2	10	OK
MW-17	Uranium	0.3	ug/L		2	0.3	OK
MW-17	Vanadium	15	ug/L	U	1	15	OK
MW-17	Zinc	10	ug/L	U	20	10	OK
MW-17	2-Butanone	20	ug/L	U	1	20	OK
MW-17	Acetone	20	ug/L	U	1	20	OK
MW-17	Benzene	1	ug/L	U	1	1	OK
MW-17	Carbon tetrachloride	1	ug/L	U	1	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-17	Chloroform	1	ug/L	U	1	1	OK
MW-17	Chloromethane	1	ug/L	U	1	1	OK
MW-17	Methylene chloride	1	ug/L	U	1	1	OK
MW-17	Naphthalene	1	ug/L	U	1	1	OK
MW-17	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-17	Toluene	1	ug/L	U	1	1	OK
MW-17	Xylenes, Total	1	ug/L	U	1	1	OK
MW-18	2-Butanone	20	ug/L	U	1	20	OK
MW-18	Acetone	20	ug/L	U	1	20	OK
MW-18	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-18	Arsenic	5	ug/L	U	2	5	OK
MW-18	Benzene	1	ug/L	U	1	1	OK
MW-18	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-18	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-18	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-18	Calcium	50	mg/L		50	0.5	OK
MW-18	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-18	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-18	Chloride	10	mg/L		10	1	OK
MW-18	Chloroform	1	ug/L	U	1	1	OK
MW-18	Chloromethane	1	ug/L	U	1	1	OK
MW-18	Chromium	25	ug/L	U	2	25	OK
MW-18	Cobalt	10	ug/L	U	2	10	OK
MW-18	Copper	10	ug/L	U	2	10	OK
MW-18	Fluoride	0.1	mg/L		1	0.1	OK
MW-18	Gross Radium Alpha	0.97	pCi/L	U	1	1	OK
MW-18	Iron	30	ug/L	U	2	30	OK
MW-18	Lead	1	ug/L	U	2	1	OK
MW-18	Magnesium	50	mg/L		50	0.5	OK
MW-18	Manganese	10	ug/L		2	10	OK
MW-18	Mercury	0.5	ug/L	U	1	0.5	OK
MW-18	Methylene chloride	1	ug/L	U	1	1	OK
MW-18	Molybdenum	10	ug/L	U	2	10	OK
MW-18	Naphthalene	1	ug/L	U	1	1	OK
MW-18	Nickel	20	ug/L	U	2	20	OK
MW-18	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-18	Potassium	1	mg/L		1	0.5	OK
MW-18	Selenium	5	ug/L	U	2	5	OK
MW-18	Silver	10	ug/L	U	2	10	OK
MW-18	Sodium	50	mg/L		50	0.5	OK
MW-18	Sulfate	1000	mg/L		1000	1	OK
MW-18	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-18	Thallium	0.5	ug/L		2	0.5	OK
MW-18	Tin	100	ug/L	U	2	100	OK
MW-18	Toluene	1	ug/L	U	1	1	OK
MW-18	Total Dissolved Solids	20	MG/L		2	10	OK
MW-18	Uranium	0.3	ug/L		2	0.3	OK
MW-18	Vanadium	15	ug/L	U	1	15	OK
MW-18	Xylenes, Total	1	ug/L	U	1	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-18	Zinc	10	ug/L		20	10	OK
MW-19	2-Butanone	20	ug/L	U	1	20	OK
MW-19	Acetone	20	ug/L	U	1	20	OK
MW-19	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-19	Arsenic	5	ug/L	U	2	5	OK
MW-19	Benzene	1	ug/L	U	1	1	OK
MW-19	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-19	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-19	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-19	Calcium	10	mg/L		10	0.5	OK
MW-19	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-19	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-19	Chloride	10	mg/L		10	1	OK
MW-19	Chloroform	1	ug/L	U	1	1	OK
MW-19	Chloromethane	1	ug/L	U	1	1	OK
MW-19	Chromium	25	ug/L	U	2	25	OK
MW-19	Cobalt	10	ug/L	U	2	10	OK
MW-19	Copper	10	ug/L	U	2	10	OK
MW-19	Fluoride	0.1	mg/L		1	0.1	OK
MW-19	Gross Radium Alpha	0.904	pCi/L	U	1	1	OK
MW-19	Iron	30	ug/L	U	2	30	OK
MW-19	Lead	1	ug/L	U	2	1	OK
MW-19	Magnesium	10	mg/L		10	0.5	OK
MW-19	Manganese	10	ug/L		2	10	OK
MW-19	Mercury	0.5	ug/L	U	1	0.5	OK
MW-19	Methylene chloride	1	ug/L	U	1	1	OK
MW-19	Molybdenum	10	ug/L	U	2	10	OK
MW-19	Naphthalene	1	ug/L	U	1	1	OK
MW-19	Nickel	20	ug/L	U	2	20	OK
MW-19	Nitrate/Nitrite (as N)	0.5	mg/L		5	0.1	OK
MW-19	Potassium	1	mg/L		1	0.5	OK
MW-19	Selenium	5	ug/L		2	5	OK
MW-19	Silver	10	ug/L	U	2	10	OK
MW-19	Sodium	10	mg/L		10	0.5	OK
MW-19	Sulfate	100	mg/L		100	1	OK
MW-19	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-19	Thallium	0.5	ug/L	U	2	0.5	OK
MW-19	Tin	100	ug/L	U	2	100	OK
MW-19	Toluene	1	ug/L	U	1	1	OK
MW-19	Total Dissolved Solids	20	MG/L		2	10	OK
MW-19	Uranium	0.3	ug/L		2	0.3	OK
MW-19	Vanadium	15	ug/L	U	1	15	OK
MW-19	Xylenes, Total	1	ug/L	U	1	1	OK
MW-19	Zinc	10	ug/L	U	20	10	OK
MW-20	Gross Radium Alpha	0.62	pCi/L	U	1	1	OK
MW-20	2-Butanone	20	ug/L	U	1	20	OK
MW-20	Acetone	20	ug/L	U	1	20	OK
MW-20	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-20	Arsenic	5	ug/L	U	20	5	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-20	Benzene	1	ug/L	U	1	1	OK
MW-20	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-20	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-20	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-20	Calcium	50	mg/L		50	0.5	OK
MW-20	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-20	Carbonate (as CaCO3)	1	mg/L		1	1	OK
MW-20	Chloride	10	mg/L		10	1	OK
MW-20	Chloroform	1	ug/L	U	1	1	OK
MW-20	Chloromethane	1	ug/L	U	1	1	OK
MW-20	Chromium	25	ug/L	U	20	25	OK
MW-20	Cobalt	10	ug/L	U	20	10	OK
MW-20	Copper	10	ug/L	U	20	10	OK
MW-20	Fluoride	0.1	mg/L		1	0.1	OK
MW-20	Iron	30	ug/L	U	5	30	OK
MW-20	Lead	1	ug/L	U	5	1	OK
MW-20	Magnesium	1	mg/L		1	0.5	OK
MW-20	Manganese	10	ug/L	U	20	10	OK
MW-20	Mercury	0.5	ug/L	U	1	0.5	OK
MW-20	Methylene chloride	1	ug/L	U	1	1	OK
MW-20	Molybdenum	10	ug/L		20	10	OK
MW-20	Naphthalene	1	ug/L	U	1	1	OK
MW-20	Nickel	20	ug/L	U	20	20	OK
MW-20	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-20	Potassium	1	mg/L		1	0.5	OK
MW-20	Selenium	5	ug/L	U	20	5	OK
MW-20	Silver	10	ug/L	U	20	10	OK
MW-20	Sodium	50	mg/L		50	0.5	OK
MW-20	Sulfate	1000	mg/L		1000	1	OK
MW-20	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-20	Thallium	0.5	ug/L	U	5	0.5	OK
MW-20	Tin	100	ug/L	U	20	100	OK
MW-20	Toluene	1	ug/L	U	1	1	OK
MW-20	Total Dissolved Solids	20	MG/L		2	10	OK
MW-20	Uranium	0.3	ug/L	U	2	0.3	OK
MW-20	Vanadium	15	ug/L		1	15	OK
MW-20	Xylenes, Total	1	ug/L	U	1	1	OK
MW-20	Zinc	10	ug/L	U	20	10	OK
MW-22	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-22	Arsenic	5	ug/L	U	2	5	OK
MW-22	Beryllium	0.5	ug/L		5	0.5	OK
MW-22	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-22	Cadmium	0.5	ug/L		2	0.5	OK
MW-22	Calcium	50	mg/L		50	0.5	OK
MW-22	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-22	Chloride	10	mg/L		10	1	OK
MW-22	Chromium	25	ug/L	U	2	25	OK
MW-22	Cobalt	10	ug/L		20	10	OK
MW-22	Copper	10	ug/L		2	10	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-22	Fluoride	1	mg/L		10	0.1	OK
MW-22	Gross Radium Alpha	0.882	pCi/L		1	1	OK
MW-22	Iron	30	ug/L		2	30	OK
MW-22	Lead	1	ug/L		2	1	OK
MW-22	Magnesium	50	mg/L		50	0.5	OK
MW-22	Manganese	500	ug/L		1000	10	OK
MW-22	Mercury	0.5	ug/L	U	1	0.5	OK
MW-22	Molybdenum	10	ug/L		20	10	OK
MW-22	Nickel	20	ug/L		20	20	OK
MW-22	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-22	Potassium	1	mg/L		1	0.5	OK
MW-22	Selenium	5	ug/L		2	5	OK
MW-22	Silver	10	ug/L	U	2	10	OK
MW-22	Sodium	50	mg/L		50	0.5	OK
MW-22	Sulfate	1000	mg/L		1000	1	OK
MW-22	Thallium	0.5	ug/L		2	0.5	OK
MW-22	Tin	100	ug/L	U	2	100	OK
MW-22	Total Dissolved Solids	20	MG/L		2	10	OK
MW-22	Uranium	0.3	ug/L		2	0.3	OK
MW-22	Vanadium	15	ug/L	U	1	15	OK
MW-22	Zinc	10	ug/L		20	10	OK
MW-22	2-Butanone	20	ug/L	U	1	20	OK
MW-22	Acetone	20	ug/L	U	1	20	OK
MW-22	Benzene	1	ug/L	U	1	1	OK
MW-22	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-22	Chloroform	1	ug/L	U	1	1	OK
MW-22	Chloromethane	1	ug/L	U	1	1	OK
MW-22	Methylene chloride	1	ug/L	U	1	1	OK
MW-22	Naphthalene	1	ug/L	U	1	1	OK
MW-22	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-22	Toluene	1	ug/L	U	1	1	OK
MW-22	Xylenes, Total	1	ug/L	U	1	1	OK
MW-23	2-Butanone	20	ug/L	U	1	20	OK
MW-23	Acetone	20	ug/L	U	1	20	OK
MW-23	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-23	Arsenic	5	ug/L	U	2	5	OK
MW-23	Benzene	1	ug/L	U	1	1	OK
MW-23	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-23	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-23	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-23	Calcium	50	mg/L		50	0.5	OK
MW-23	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-23	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-23	Chloride	1	mg/L		1	1	OK
MW-23	Chloroform	1	ug/L	U	1	1	OK
MW-23	Chloromethane	1	ug/L	U	1	1	OK
MW-23	Chromium	25	ug/L	U	2	25	OK
MW-23	Cobalt	10	ug/L	U	2	10	OK
MW-23	Copper	10	ug/L	U	20	10	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-23	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-23	Gross Radium Alpha	0.948	pCi/L	U	1	1	OK
MW-23	Iron	30	ug/L	U	2	30	OK
MW-23	Lead	1	ug/L	U	2	1	OK
MW-23	Magnesium	50	mg/L		50	0.5	OK
MW-23	Manganese	10	ug/L		20	10	OK
MW-23	Mercury	0.5	ug/L	U	1	0.5	OK
MW-23	Methylene chloride	1	ug/L	U	1	1	OK
MW-23	Molybdenum	10	ug/L	U	2	10	OK
MW-23	Naphthalene	1	ug/L	U	1	1	OK
MW-23	Nickel	20	ug/L	U	2	20	OK
MW-23	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-23	Potassium	1	mg/L		1	0.5	OK
MW-23	Selenium	5	ug/L	U	2	5	OK
MW-23	Silver	10	ug/L	U	2	10	OK
MW-23	Sodium	50	mg/L		50	0.5	OK
MW-23	Sulfate	1000	mg/L		1000	1	OK
MW-23	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-23	Thallium	0.5	ug/L	U	2	0.5	OK
MW-23	Tin	100	ug/L	U	20	100	OK
MW-23	Toluene	1	ug/L	U	1	1	OK
MW-23	Total Dissolved Solids	20	MG/L		2	10	OK
MW-23	Uranium	0.3	ug/L		2	0.3	OK
MW-23	Vanadium	15	ug/L	U	1	15	OK
MW-23	Xylenes, Total	1	ug/L	U	1	1	OK
MW-23	Zinc	10	ug/L		20	10	OK
MW-24	Gross Radium Alpha	0.564	pCi/L	U	1	1	OK
MW-24	2-Butanone	20	ug/L	U	1	20	OK
MW-24	Acetone	20	ug/L	U	1	20	OK
MW-24	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-24	Arsenic	5	ug/L	U	20	5	OK
MW-24	Benzene	1	ug/L	U	1	1	OK
MW-24	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-24	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-24	Cadmium	0.5	ug/L		20	0.5	OK
MW-24	Calcium	50	mg/L		50	0.5	OK
MW-24	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-24	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-24	Chloride	10	mg/L		10	1	OK
MW-24	Chloroform	1	ug/L	U	1	1	OK
MW-24	Chloromethane	1	ug/L	U	1	1	OK
MW-24	Chromium	25	ug/L	U	20	25	OK
MW-24	Cobalt	10	ug/L		20	10	OK
MW-24	Copper	10	ug/L	U	20	10	OK
MW-24	Fluoride	0.1	mg/L		1	0.1	OK
MW-24	Iron	30	ug/L		5	30	OK
MW-24	Lead	1	ug/L	U	5	1	OK
MW-24	Magnesium	10	mg/L		10	0.5	OK
MW-24	Manganese	25	ug/L		50	10	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-24	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24	Methylene chloride	1	ug/L	U	1	1	OK
MW-24	Molybdenum	10	ug/L	U	20	10	OK
MW-24	Naphthalene	1	ug/L	U	1	1	OK
MW-24	Nickel	20	ug/L	U	20	20	OK
MW-24	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-24	Potassium	1	mg/L		1	0.5	OK
MW-24	Selenium	5	ug/L	U	20	5	OK
MW-24	Silver	10	ug/L	U	20	10	OK
MW-24	Sodium	50	mg/L		50	0.5	OK
MW-24	Sulfate	1000	mg/L		1000	1	OK
MW-24	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24	Thallium	0.5	ug/L		5	0.5	OK
MW-24	Tin	100	ug/L	U	20	100	OK
MW-24	Toluene	1	ug/L	U	1	1	OK
MW-24	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24	Uranium	0.3	ug/L		2	0.3	OK
MW-24	Vanadium	15	ug/L	U	1	15	OK
MW-24	Xylenes, Total	1	ug/L	U	1	1	OK
MW-24	Zinc	10	ug/L		20	10	OK
MW-25	2-Butanone	20	ug/L	U	1	20	OK
MW-25	Acetone	20	ug/L	U	1	20	OK
MW-25	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-25	Arsenic	5	ug/L	U	2	5	OK
MW-25	Benzene	1	ug/L	U	1	1	OK
MW-25	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-25	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-25	Cadmium	0.5	ug/L		2	0.5	OK
MW-25	Calcium	10	mg/L		10	0.5	OK
MW-25	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-25	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-25	Chloride	10	mg/L		10	1	OK
MW-25	Chloroform	1	ug/L	U	1	1	OK
MW-25	Chloromethane	1	ug/L	U	1	1	OK
MW-25	Chromium	25	ug/L	U	2	25	OK
MW-25	Cobalt	10	ug/L	U	2	10	OK
MW-25	Copper	10	ug/L	U	2	10	OK
MW-25	Fluoride	0.1	mg/L		1	0.1	OK
MW-25	Gross Radium Alpha	0.93	pCi/L		1	1	OK
MW-25	Iron	30	ug/L	U	2	30	OK
MW-25	Lead	1	ug/L	U	5	1	OK
MW-25	Magnesium	10	mg/L		10	0.5	OK
MW-25	Manganese	10	ug/L		20	10	OK
MW-25	Mercury	0.5	ug/L	U	1	0.5	OK
MW-25	Methylene chloride	1	ug/L	U	1	1	OK
MW-25	Molybdenum	10	ug/L		2	10	OK
MW-25	Naphthalene	1	ug/L	U	1	1	OK
MW-25	Nickel	20	ug/L	U	2	20	OK
MW-25	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-25	Potassium	1	mg/L		1	0.5	OK
MW-25	Selenium	5	ug/L	U	2	5	OK
MW-25	Silver	10	ug/L	U	2	10	OK
MW-25	Sodium	10	mg/L		10	0.5	OK
MW-25	Sulfate	1000	mg/L		1000	1	OK
MW-25	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-25	Thallium	0.5	ug/L		2	0.5	OK
MW-25	Tin	100	ug/L	U	2	100	OK
MW-25	Toluene	1	ug/L	U	1	1	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Uranium	0.3	ug/L		2	0.3	OK
MW-25	Vanadium	15	ug/L	U	1	15	OK
MW-25	Xylenes, Total	1	ug/L	U	1	1	OK
MW-25	Zinc	10	ug/L	U	20	10	OK
MW-26	2-Butanone	20	ug/L	U	1	20	OK
MW-26	Acetone	20	ug/L	U	1	20	OK
MW-26	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-26	Arsenic	5	ug/L	U	2	5	OK
MW-26	Benzene	1	ug/L	U	1	1	OK
MW-26	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-26	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-26	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-26	Calcium	20	mg/L		20	0.5	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-26	Chloride	10	mg/L		10	1	OK
MW-26	Chloroform	20	ug/L		20	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Chromium	25	ug/L	U	2	25	OK
MW-26	Cobalt	10	ug/L	U	2	10	OK
MW-26	Copper	10	ug/L	U	2	10	OK
MW-26	Fluoride	0.1	mg/L		1	0.1	OK
MW-26	Gross Radium Alpha	0.945	pCi/L		1	1	OK
MW-26	Iron	120	ug/L		20	30	OK
MW-26	Lead	1	ug/L	U	5	1	OK
MW-26	Magnesium	20	mg/L		20	0.5	OK
MW-26	Manganese	10	ug/L		20	10	OK
MW-26	Mercury	0.5	ug/L	U	1	0.5	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Molybdenum	10	ug/L	U	2	10	OK
MW-26	Naphthalene	1	ug/L	U	1	1	OK
MW-26	Nickel	20	ug/L	U	2	20	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-26	Potassium	1	mg/L		1	0.5	OK
MW-26	Selenium	5	ug/L		2	5	OK
MW-26	Silver	10	ug/L	U	2	10	OK
MW-26	Sodium	20	mg/L		20	0.5	OK
MW-26	Sulfate	1000	mg/L		1000	1	OK
MW-26	Tetrahydrofuran	1	ug/L	U	1	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-26	Thallium	0.5	ug/L	U	2	0.5	OK
MW-26	Tin	100	ug/L	U	2	100	OK
MW-26	Toluene	1	ug/L	U	1	1	OK
MW-26	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Vanadium	15	ug/L	U	1	15	OK
MW-26	Xylenes, Total	1	ug/L	U	1	1	OK
MW-26	Zinc	10	ug/L	U	20	10	OK
MW-27	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-27	Arsenic	5	ug/L	U	2	5	OK
MW-27	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-27	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-27	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-27	Calcium	50	mg/L		50	0.5	OK
MW-27	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-27	Chloride	10	mg/L		10	1	OK
MW-27	Chromium	25	ug/L	U	2	25	OK
MW-27	Cobalt	10	ug/L	U	2	10	OK
MW-27	Copper	10	ug/L	U	2	10	OK
MW-27	Fluoride	0.1	mg/L		1	0.1	OK
MW-27	Gross Radium Alpha	0.994	pCi/L	U	1	1	OK
MW-27	Iron	30	ug/L	U	2	30	OK
MW-27	Lead	1	ug/L	U	2	1	OK
MW-27	Magnesium	50	mg/L		50	0.5	OK
MW-27	Manganese	10	ug/L	U	20	10	OK
MW-27	Mercury	0.5	ug/L	U	1	0.5	OK
MW-27	Molybdenum	10	ug/L	U	2	10	OK
MW-27	Nickel	20	ug/L	U	2	20	OK
MW-27	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-27	Potassium	1	mg/L		1	0.5	OK
MW-27	Selenium	5	ug/L		2	5	OK
MW-27	Silver	10	ug/L	U	2	10	OK
MW-27	Sodium	50	mg/L		50	0.5	OK
MW-27	Sulfate	100	mg/L		100	1	OK
MW-27	Thallium	0.5	ug/L	U	2	0.5	OK
MW-27	Tin	100	ug/L	U	2	100	OK
MW-27	Total Dissolved Solids	20	MG/L		2	10	OK
MW-27	Uranium	0.3	ug/L		2	0.3	OK
MW-27	Vanadium	15	ug/L	U	1	15	OK
MW-27	Zinc	10	ug/L	U	20	10	OK
MW-27	2-Butanone	20	ug/L	U	1	20	OK
MW-27	Acetone	20	ug/L	U	1	20	OK
MW-27	Benzene	1	ug/L	U	1	1	OK
MW-27	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-27	Chloroform	1	ug/L	U	1	1	OK
MW-27	Chloromethane	1	ug/L	U	1	1	OK
MW-27	Methylene chloride	1	ug/L	U	1	1	OK
MW-27	Naphthalene	1	ug/L	U	1	1	OK
MW-27	Tetrahydrofuran	1	ug/L	U	1	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-27	Toluene	1	ug/L	U	1	1	OK
MW-27	Xylenes, Total	1	ug/L	U	1	1	OK
MW-28	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-28	Arsenic	5	ug/L		2	5	OK
MW-28	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-28	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-28	Cadmium	0.5	ug/L		2	0.5	OK
MW-28	Calcium	50	mg/L		50	0.5	OK
MW-28	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-28	Chloride	100	mg/L		100	1	OK
MW-28	Chromium	25	ug/L	U	2	25	OK
MW-28	Cobalt	10	ug/L		2	10	OK
MW-28	Copper	10	ug/L	U	2	10	OK
MW-28	Fluoride	0.1	mg/L		1	0.1	OK
MW-28	Gross Radium Alpha	0.764	pCi/L		1	1	OK
MW-28	Iron	30	ug/L	U	2	30	OK
MW-28	Lead	1	ug/L		2	1	OK
MW-28	Magnesium	50	mg/L		50	0.5	OK
MW-28	Manganese	10	ug/L		20	10	OK
MW-28	Mercury	0.5	ug/L	U	1	0.5	OK
MW-28	Molybdenum	10	ug/L	U	2	10	OK
MW-28	Nickel	20	ug/L		2	20	OK
MW-28	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-28	Potassium	1	mg/L		1	0.5	OK
MW-28	Selenium	5	ug/L		2	5	OK
MW-28	Silver	10	ug/L	U	2	10	OK
MW-28	Sodium	50	mg/L		50	0.5	OK
MW-28	Sulfate	1000	mg/L		1000	1	OK
MW-28	Thallium	0.5	ug/L		2	0.5	OK
MW-28	Tin	100	ug/L	U	2	100	OK
MW-28	Total Dissolved Solids	20	MG/L		2	10	OK
MW-28	Uranium	0.3	ug/L		2	0.3	OK
MW-28	Vanadium	15	ug/L	U	1	15	OK
MW-28	Zinc	10	ug/L		20	10	OK
MW-28	2-Butanone	20	ug/L	U	1	20	OK
MW-28	Acetone	20	ug/L	U	1	20	OK
MW-28	Benzene	1	ug/L	U	1	1	OK
MW-28	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-28	Chloroform	1	ug/L	U	1	1	OK
MW-28	Chloromethane	1	ug/L	U	1	1	OK
MW-28	Methylene chloride	1	ug/L	U	1	1	OK
MW-28	Naphthalene	1	ug/L	U	1	1	OK
MW-28	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-28	Toluene	1	ug/L	U	1	1	OK
MW-28	Xylenes, Total	1	ug/L	U	1	1	OK
MW-29	2-Butanone	20	ug/L	U	1	20	OK
MW-29	Acetone	20	ug/L	U	1	20	OK
MW-29	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-29	Arsenic	5	ug/L	U	2	5	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-29	Benzene	1	ug/L	U	1	1	OK
MW-29	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-29	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-29	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-29	Calcium	50	mg/L		50	0.5	OK
MW-29	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-29	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-29	Chloride	10	mg/L		10	1	OK
MW-29	Chloroform	1	ug/L	U	1	1	OK
MW-29	Chloromethane	1	ug/L	U	1	1	OK
MW-29	Chromium	25	ug/L	U	2	25	OK
MW-29	Cobalt	10	ug/L	U	2	10	OK
MW-29	Copper	10	ug/L	U	20	10	OK
MW-29	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-29	Gross Radium Alpha	0.913	pCi/L	U	1	1	OK
MW-29	Iron	120	ug/L		20	30	OK
MW-29	Lead	1	ug/L	U	2	1	OK
MW-29	Magnesium	50	mg/L		50	0.5	OK
MW-29	Manganese	50	ug/L		100	10	OK
MW-29	Mercury	0.5	ug/L	U	1	0.5	OK
MW-29	Methylene chloride	1	ug/L	U	1	1	OK
MW-29	Molybdenum	10	ug/L	U	2	10	OK
MW-29	Naphthalene	1	ug/L	U	1	1	OK
MW-29	Nickel	20	ug/L	U	2	20	OK
MW-29	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-29	Potassium	1	mg/L		1	0.5	OK
MW-29	Selenium	5	ug/L	U	2	5	OK
MW-29	Silver	10	ug/L	U	2	10	OK
MW-29	Sodium	50	mg/L		50	0.5	OK
MW-29	Sulfate	1000	mg/L		1000	1	OK
MW-29	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-29	Thallium	0.5	ug/L	U	2	0.5	OK
MW-29	Tin	100	ug/L	U	20	100	OK
MW-29	Toluene	1	ug/L	U	1	1	OK
MW-29	Total Dissolved Solids	20	MG/L		2	10	OK
MW-29	Uranium	0.3	ug/L		2	0.3	OK
MW-29	Vanadium	15	ug/L	U	1	15	OK
MW-29	Xylenes, Total	1	ug/L	U	1	1	OK
MW-29	Zinc	10	ug/L		20	10	OK
MW-30	2-Butanone	20	ug/L	U	1	20	OK
MW-30	Acetone	20	ug/L	U	1	20	OK
MW-30	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-30	Arsenic	5	ug/L	U	2	5	OK
MW-30	Benzene	1	ug/L	U	1	1	OK
MW-30	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-30	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-30	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-30	Calcium	10	mg/L		10	0.5	OK
MW-30	Carbon tetrachloride	1	ug/L	U	1	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-30	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-30	Chloride	100	mg/L		100	1	OK
MW-30	Chloroform	1	ug/L	U	1	1	OK
MW-30	Chloromethane	1	ug/L	U	1	1	OK
MW-30	Chromium	25	ug/L	U	2	25	OK
MW-30	Cobalt	10	ug/L	U	2	10	OK
MW-30	Copper	10	ug/L	U	2	10	OK
MW-30	Fluoride	0.1	mg/L		1	0.1	OK
MW-30	Gross Radium Alpha	0.956	pCi/L	U	1	1	OK
MW-30	Iron	30	ug/L	U	2	30	OK
MW-30	Lead	1	ug/L	U	5	1	OK
MW-30	Magnesium	10	mg/L		10	0.5	OK
MW-30	Manganese	10	ug/L		2	10	OK
MW-30	Mercury	0.5	ug/L	U	1	0.5	OK
MW-30	Methylene chloride	1	ug/L	U	1	1	OK
MW-30	Molybdenum	10	ug/L	U	2	10	OK
MW-30	Naphthalene	1	ug/L	U	1	1	OK
MW-30	Nickel	20	ug/L	U	2	20	OK
MW-30	Nitrate/Nitrite (as N)	5	mg/L		50	0.1	OK
MW-30	Potassium	1	mg/L		1	0.5	OK
MW-30	Selenium	5	ug/L		2	5	OK
MW-30	Silver	10	ug/L	U	2	10	OK
MW-30	Sodium	10	mg/L		10	0.5	OK
MW-30	Sulfate	100	mg/L		100	1	OK
MW-30	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-30	Thallium	0.5	ug/L	U	2	0.5	OK
MW-30	Tin	100	ug/L	U	2	100	OK
MW-30	Toluene	1	ug/L	U	1	1	OK
MW-30	Total Dissolved Solids	20	MG/L		2	10	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Vanadium	15	ug/L	U	1	15	OK
MW-30	Xylenes, Total	1	ug/L	U	1	1	OK
MW-30	Zinc	10	ug/L	U	20	10	OK
MW-31	2-Butanone	20	ug/L	U	1	20	OK
MW-31	Acetone	20	ug/L	U	1	20	OK
MW-31	Ammonia (as N)	0.05	mg/L	U	1	0.05	OK
MW-31	Arsenic	5	ug/L	U	2	5	OK
MW-31	Benzene	1	ug/L	U	1	1	OK
MW-31	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-31	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-31	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-31	Calcium	10	mg/L		10	0.5	OK
MW-31	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-31	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-31	Chloride	100	mg/L		100	1	OK
MW-31	Chloroform	1	ug/L	U	1	1	OK
MW-31	Chloromethane	1	ug/L	U	1	1	OK
MW-31	Chromium	25	ug/L	U	2	25	OK
MW-31	Cobalt	10	ug/L	U	2	10	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-31	Copper	10	ug/L	U	2	10	OK
MW-31	Fluoride	0.1	mg/L		1	0.1	OK
MW-31	Gross Radium Alpha	0.873	pCi/L	U	1	1	OK
MW-31	Iron	30	ug/L	U	2	30	OK
MW-31	Lead	1	ug/L	U	5	1	OK
MW-31	Magnesium	10	mg/L		10	0.5	OK
MW-31	Manganese	10	ug/L	U	2	10	OK
MW-31	Mercury	0.5	ug/L	U	1	0.5	OK
MW-31	Methylene chloride	1	ug/L	U	1	1	OK
MW-31	Molybdenum	10	ug/L	U	2	10	OK
MW-31	Naphthalene	1	ug/L	U	1	1	OK
MW-31	Nickel	20	ug/L	U	2	20	OK
MW-31	Nitrate/Nitrite (as N)	5	mg/L		50	0.1	OK
MW-31	Potassium	1	mg/L		1	0.5	OK
MW-31	Selenium	5	ug/L		2	5	OK
MW-31	Silver	10	ug/L	U	2	10	OK
MW-31	Sodium	10	mg/L		10	0.5	OK
MW-31	Sulfate	100	mg/L		100	1	OK
MW-31	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-31	Thallium	0.5	ug/L	U	2	0.5	OK
MW-31	Tin	100	ug/L	U	2	100	OK
MW-31	Toluene	1	ug/L	U	1	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Uranium	0.3	ug/L		2	0.3	OK
MW-31	Vanadium	15	ug/L	U	1	15	OK
MW-31	Xylenes, Total	1	ug/L	U	1	1	OK
MW-31	Zinc	10	ug/L	U	20	10	OK
MW-32	2-Butanone	20	ug/L	U	1	20	OK
MW-32	Acetone	20	ug/L	U	1	20	OK
MW-32	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-32	Arsenic	5	ug/L	U	2	5	OK
MW-32	Benzene	1	ug/L	U	1	1	OK
MW-32	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-32	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-32	Cadmium	0.5	ug/L		2	0.5	OK
MW-32	Calcium	20	mg/L		20	0.5	OK
MW-32	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-32	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-32	Chloride	10	mg/L		10	1	OK
MW-32	Chloroform	1	ug/L	U	1	1	OK
MW-32	Chloromethane	1	ug/L	U	1	1	OK
MW-32	Chromium	25	ug/L	U	2	25	OK
MW-32	Cobalt	10	ug/L		2	10	OK
MW-32	Copper	10	ug/L	U	2	10	OK
MW-32	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-32	Gross Radium Alpha	0.985	pCi/L		1	1	OK
MW-32	Iron	600	ug/L		100	30	OK
MW-32	Lead	1	ug/L	U	5	1	OK
MW-32	Magnesium	20	mg/L		20	0.5	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-32	Manganese	50	ug/L		100	10	OK
MW-32	Mercury	0.5	ug/L	U	1	0.5	OK
MW-32	Methylene chloride	1	ug/L	U	1	1	OK
MW-32	Molybdenum	10	ug/L	U	2	10	OK
MW-32	Naphthalene	1	ug/L	U	1	1	OK
MW-32	Nickel	20	ug/L		2	20	OK
MW-32	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-32	Potassium	1	mg/L		1	0.5	OK
MW-32	Selenium	5	ug/L	U	2	5	OK
MW-32	Silver	10	ug/L	U	2	10	OK
MW-32	Sodium	20	mg/L		20	0.5	OK
MW-32	Sulfate	1000	mg/L		1000	1	OK
MW-32	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-32	Thallium	0.5	ug/L	U	2	0.5	OK
MW-32	Tin	100	ug/L	U	2	100	OK
MW-32	Toluene	1	ug/L	U	1	1	OK
MW-32	Total Dissolved Solids	20	MG/L		2	10	OK
MW-32	Uranium	0.3	ug/L		2	0.3	OK
MW-32	Vanadium	15	ug/L	U	1	15	OK
MW-32	Xylenes, Total	1	ug/L	U	1	1	OK
MW-32	Zinc	10	ug/L		20	10	OK
MW-35	2-Butanone	20	ug/L	U	1	20	OK
MW-35	Acetone	20	ug/L	U	1	20	OK
MW-35	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-35	Arsenic	5	ug/L	U	2	5	OK
MW-35	Benzene	1	ug/L	U	1	1	OK
MW-35	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-35	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-35	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-35	Calcium	20	mg/L		20	0.5	OK
MW-35	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-35	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-35	Chloride	10	mg/L		10	1	OK
MW-35	Chloroform	1	ug/L	U	1	1	OK
MW-35	Chloromethane	1	ug/L	U	1	1	OK
MW-35	Chromium	25	ug/L	U	2	25	OK
MW-35	Cobalt	10	ug/L	U	2	10	OK
MW-35	Copper	10	ug/L	U	2	10	OK
MW-35	Fluoride	0.1	mg/L		1	0.1	OK
MW-35	Gross Radium Alpha	0.8	pCi/L		1	1	OK
MW-35	Iron	30	ug/L		2	30	OK
MW-35	Lead	1	ug/L	U	5	1	OK
MW-35	Magnesium	20	mg/L		20	0.5	OK
MW-35	Manganese	10	ug/L		20	10	OK
MW-35	Mercury	0.5	ug/L	U	1	0.5	OK
MW-35	Methylene chloride	1	ug/L	U	1	1	OK
MW-35	Molybdenum	10	ug/L	U	2	10	OK
MW-35	Naphthalene	1	ug/L	U	1	1	OK
MW-35	Nickel	20	ug/L	U	2	20	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-35	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-35	Potassium	1	mg/L		1	0.5	OK
MW-35	Selenium	5	ug/L	U	2	5	OK
MW-35	Silver	10	ug/L	U	2	10	OK
MW-35	Sodium	20	mg/L		20	0.5	OK
MW-35	Sulfate	1000	mg/L		1000	1	OK
MW-35	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-35	Thallium	0.5	ug/L	U	2	0.5	OK
MW-35	Tin	100	ug/L	U	2	100	OK
MW-35	Toluene	1	ug/L	U	1	1	OK
MW-35	Total Dissolved Solids	20	MG/L		2	10	OK
MW-35	Uranium	0.3	ug/L		2	0.3	OK
MW-35	Vanadium	15	ug/L	U	1	15	OK
MW-35	Xylenes, Total	1	ug/L	U	1	1	OK
MW-35	Zinc	10	ug/L	U	20	10	OK
MW-36	2-Butanone	20	ug/L	U	1	20	OK
MW-36	Acetone	20	ug/L	U	1	20	OK
MW-36	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-36	Arsenic	5	ug/L	U	2	5	OK
MW-36	Benzene	1	ug/L	U	1	1	OK
MW-36	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-36	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-36	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-36	Calcium	50	mg/L		50	0.5	OK
MW-36	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-36	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-36	Chloride	10	mg/L		10	1	OK
MW-36	Chloroform	1	ug/L	U	1	1	OK
MW-36	Chloromethane	1	ug/L	U	1	1	OK
MW-36	Chromium	25	ug/L	U	2	25	OK
MW-36	Cobalt	10	ug/L	U	2	10	OK
MW-36	Copper	10	ug/L	U	2	10	OK
MW-36	Fluoride	0.1	mg/L		1	0.1	OK
MW-36	Gross Radium Alpha	0.83	pCi/L	U	1	1	OK
MW-36	Iron	30	ug/L	U	2	30	OK
MW-36	Lead	1	ug/L	U	2	1	OK
MW-36	Magnesium	50	mg/L		50	0.5	OK
MW-36	Manganese	10	ug/L	U	2	10	OK
MW-36	Mercury	0.5	ug/L	U	1	0.5	OK
MW-36	Methylene chloride	1	ug/L	U	1	1	OK
MW-36	Molybdenum	10	ug/L	U	2	10	OK
MW-36	Naphthalene	1	ug/L	U	1	1	OK
MW-36	Nickel	20	ug/L	U	2	20	OK
MW-36	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-36	Potassium	1	mg/L		1	0.5	OK
MW-36	Selenium	5	ug/L		20	5	OK
MW-36	Silver	10	ug/L	U	2	10	OK
MW-36	Sodium	50	mg/L		50	0.5	OK
MW-36	Sulfate	1000	mg/L		1000	1	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-36	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-36	Thallium	0.5	ug/L		2	0.5	OK
MW-36	Tin	100	ug/L	U	2	100	OK
MW-36	Toluene	1	ug/L	U	1	1	OK
MW-36	Total Dissolved Solids	20	MG/L		2	10	OK
MW-36	Uranium	0.3	ug/L		2	0.3	OK
MW-36	Vanadium	15	ug/L	U	1	15	OK
MW-36	Xylenes, Total	1	ug/L	U	1	1	OK
MW-36	Zinc	10	ug/L	U	20	10	OK
MW-37	Gross Radium Alpha	0.465	pCi/L	U	1	1	OK
MW-37	2-Butanone	20	ug/L	U	1	20	OK
MW-37	Acetone	20	ug/L	U	1	20	OK
MW-37	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-37	Arsenic	5	ug/L	U	20	5	OK
MW-37	Benzene	1	ug/L	U	1	1	OK
MW-37	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-37	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-37	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-37	Calcium	50	mg/L		50	0.5	OK
MW-37	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-37	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-37	Chloride	10	mg/L		10	1	OK
MW-37	Chloroform	1	ug/L	U	1	1	OK
MW-37	Chloromethane	1	ug/L	U	1	1	OK
MW-37	Chromium	25	ug/L	U	20	25	OK
MW-37	Cobalt	10	ug/L	U	20	10	OK
MW-37	Copper	10	ug/L	U	20	10	OK
MW-37	Fluoride	0.1	mg/L		1	0.1	OK
MW-37	Iron	30	ug/L	U	5	30	OK
MW-37	Lead	1	ug/L	U	5	1	OK
MW-37	Magnesium	10	mg/L		10	0.5	OK
MW-37	Manganese	10	ug/L	U	20	10	OK
MW-37	Mercury	0.5	ug/L	U	1	0.5	OK
MW-37	Methylene chloride	1	ug/L	U	1	1	OK
MW-37	Molybdenum	10	ug/L	U	20	10	OK
MW-37	Naphthalene	1	ug/L	U	1	1	OK
MW-37	Nickel	20	ug/L	U	20	20	OK
MW-37	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-37	Potassium	1	mg/L		1	0.5	OK
MW-37	Selenium	5	ug/L		20	5	OK
MW-37	Silver	10	ug/L	U	20	10	OK
MW-37	Sodium	50	mg/L		50	0.5	OK
MW-37	Sulfate	1000	mg/L		1000	1	OK
MW-37	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-37	Thallium	0.5	ug/L		5	0.5	OK
MW-37	Tin	100	ug/L	U	20	100	OK
MW-37	Toluene	1	ug/L	U	1	1	OK
MW-37	Total Dissolved Solids	20	MG/L		2	10	OK
MW-37	Uranium	0.3	ug/L		2	0.3	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-37	Vanadium	15	ug/L	U	1	15	OK
MW-37	Xylenes, Total	1	ug/L	U	1	1	OK
MW-37	Zinc	10	ug/L		20	10	OK
MW-65	2-Butanone	20	ug/L	U	1	20	OK
MW-65	Acetone	20	ug/L	U	1	20	OK
MW-65	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-65	Arsenic	5	ug/L	U	2	5	OK
MW-65	Benzene	1	ug/L	U	1	1	OK
MW-65	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-65	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-65	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-65	Calcium	50	mg/L		50	0.5	OK
MW-65	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-65	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-65	Chloride	10	mg/L		10	1	OK
MW-65	Chloroform	1	ug/L	U	1	1	OK
MW-65	Chloromethane	1	ug/L	U	1	1	OK
MW-65	Chromium	25	ug/L	U	2	25	OK
MW-65	Cobalt	10	ug/L	U	2	10	OK
MW-65	Copper	10	ug/L	U	2	10	OK
MW-65	Fluoride	0.1	mg/L		1	0.1	OK
MW-65	Gross Radium Alpha	0.76	pCi/L		1	1	OK
MW-65	Iron	30	ug/L		2	30	OK
MW-65	Lead	1	ug/L	U	5	1	OK
MW-65	Magnesium	50	mg/L		50	0.5	OK
MW-65	Manganese	10	ug/L		20	10	OK
MW-65	Mercury	0.5	ug/L	U	1	0.5	OK
MW-65	Methylene chloride	1	ug/L	U	1	1	OK
MW-65	Molybdenum	10	ug/L	U	2	10	OK
MW-65	Naphthalene	1	ug/L	U	1	1	OK
MW-65	Nickel	20	ug/L	U	2	20	OK
MW-65	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-65	Potassium	1	mg/L		1	0.5	OK
MW-65	Selenium	5	ug/L	U	2	5	OK
MW-65	Silver	10	ug/L	U	2	10	OK
MW-65	Sodium	50	mg/L		50	0.5	OK
MW-65	Sulfate	1000	mg/L		1000	1	OK
MW-65	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-65	Thallium	0.5	ug/L	U	2	0.5	OK
MW-65	Tin	100	ug/L	U	2	100	OK
MW-65	Toluene	1	ug/L	U	1	1	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Vanadium	15	ug/L	U	1	15	OK
MW-65	Xylenes, Total	1	ug/L	U	1	1	OK
MW-65	Zinc	10	ug/L	U	20	10	OK
MW-70	2-Butanone	20	ug/L	U	1	20	OK
MW-70	Acetone	20	ug/L	U	1	20	OK
MW-70	Ammonia (as N)	0.05	mg/L		1	0.05	OK

## G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-70	Arsenic	5	ug/L	U	2	5	OK
MW-70	Benzene	1	ug/L	U	1	1	OK
MW-70	Beryllium	0.5	ug/L	U	2	0.5	OK
MW-70	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-70	Cadmium	0.5	ug/L	U	2	0.5	OK
MW-70	Calcium	50	mg/L		50	0.5	OK
MW-70	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-70	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-70	Chloride	10	mg/L		10	1	OK
MW-70	Chloroform	1	ug/L	U	1	1	OK
MW-70	Chloromethane	1	ug/L	U	1	1	OK
MW-70	Chromium	25	ug/L	U	2	25	OK
MW-70	Cobalt	10	ug/L	U	2	10	OK
MW-70	Copper	10	ug/L	U	20	10	OK
MW-70	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-70	Gross Radium Alpha	0.923	pCi/L	U	1	1	OK
MW-70	Iron	120	ug/L		20	30	OK
MW-70	Lead	1	ug/L	U	2	1	OK
MW-70	Magnesium	50	mg/L		50	0.5	OK
MW-70	Manganese	50	ug/L		100	10	OK
MW-70	Mercury	0.5	ug/L	U	1	0.5	OK
MW-70	Methylene chloride	1	ug/L	U	1	1	OK
MW-70	Molybdenum	10	ug/L	U	2	10	OK
MW-70	Naphthalene	1	ug/L	U	1	1	OK
MW-70	Nickel	20	ug/L	U	2	20	OK
MW-70	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-70	Potassium	1	mg/L		1	0.5	OK
MW-70	Selenium	5	ug/L	U	2	5	OK
MW-70	Silver	10	ug/L	U	2	10	OK
MW-70	Sodium	50	mg/L		50	0.5	OK
MW-70	Sulfate	1000	mg/L		1000	1	OK
MW-70	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-70	Thallium	0.5	ug/L	U	2	0.5	OK
MW-70	Tin	100	ug/L	U	20	100	OK
MW-70	Toluene	1	ug/L	U	1	1	OK
MW-70	Total Dissolved Solids	20	MG/L		2	10	OK
MW-70	Uranium	0.3	ug/L		2	0.3	OK
MW-70	Vanadium	15	ug/L	U	1	15	OK
MW-70	Xylenes, Total	1	ug/L	U	1	1	OK
MW-70	Zinc	10	ug/L		20	10	OK

## G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Uranium	0.3	ug/L		2	0.3	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Chloride	10	mg/L		10	1	OK
MW-26	Chloroform	20	ug/L		20	1	OK
MW-26	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-26	Chloride	10	mg/L		10	1	OK
MW-26	Chloroform	100	ug/L		100	1	OK
MW-26	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-30	Chloride	100	mg/L		100	1	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-30	Chloride	100	mg/L		100	1	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-31	Sulfate	100	mg/L		100	1	OK
MW-31	Chloride	100	mg/L		100	1	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Sulfate	100	mg/L		100	1	OK
MW-31	Chloride	100	mg/L		100	1	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-35	Manganese	10	ug/L		20	10	OK
MW-35	Thallium	0.5	ug/L	U	5	0.5	OK
MW-35	Uranium	0.3	ug/L		2	0.3	OK
MW-35	Selenium	5	ug/L		20	5	OK
MW-35	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-35	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-35	Manganese	10	ug/L		20	10	OK
MW-35	Thallium	0.5	ug/L	U	5	0.5	OK
MW-35	Uranium	0.3	ug/L		2	0.3	OK

## G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-35	Selenium	5	ug/L		20	5	OK
MW-65	Manganese	10	ug/L		20	10	OK
MW-65	Thallium	0.5	ug/L	U	5	0.5	OK
MW-65	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Selenium	5	ug/L		20	5	OK
MW-65	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-65	Chloride	10	mg/L		10	1	OK
MW-65	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Ammonia (as N)	0.05	mg/L		1	0.05	OK
MW-65	Selenium	5	ug/L		20	5	OK
MW-65	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK

G-6A: Trip Blank Evaluation

All trip blanks for the Quarter were non detect.

<b>Blank</b>	<b>Sample Date</b>	<b>Laboratory</b>
AWAL 1504208	4/7/2015	American West Analytical Laboratories
AWAL 1504309	4/13/2015	American West Analytical Laboratories
AWAL 1505005	4/27/2015	American West Analytical Laboratories
AWAL 1506525	6/24/2015	American West Analytical Laboratories

G-6B: Trip Blank Evaluation

All trip blanks for the Accelerated samples were non detect.

<b>Blank</b>	<b>Sample Date</b>	<b>Laboratory</b>
AWAL 1505272	5/12/2015	American West Analytical Laboratories
AWAL 1506524	6/23/2015	American West Analytical Laboratories

G-7A: QA/QC Evaluation for Routine Sample Duplicates

Constituent	MW-35 04/09/2015	MW-65 04/09/2015	%RPD
Ammonia (as N) (mg/L)	0.140	0.157	11.45
Bicarbonate as HCO <sub>3</sub> (mg/L)	333	327	1.82
Calcium (mg/L)	504	508	0.79
Chloride (mg/L)	65.5	65.4	0.15
Fluoride (mg/L)	0.336	0.333	0.90
Iron (mg/L)	0.104	0.102	1.94
Magnesium (mg/L)	159	159	0.00
Manganese (mg/L)	0.237	0.236	0.42
Potassium (mg/L)	11.5	11.6	0.87
Sodium (mg/L)	413	420	1.68
Sulfate (mg/L)	2340	2330	0.43
TDS (mg/L)	4030	3720	8.00
Uranium (mg/L)	0.0202	0.0199	1.50

**Radiologic Duplicate Tests**

Gross Alpha minus Rn & U*	4.25	4.98	0.798
Gross Alpha minus Rn & U Precision (±)	0.621	0.672	

\* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.

Constituent	MW-29 4/30/15	MW-70 4/30/15	%RPD
Ammonia (as N) (mg/L)	0.0589	0.0590	0.17
Bicarbonate as HCO <sub>3</sub>	303	299	1.33
Calcium (mg/L)	494	493	0.20
Chloride (mg/L)	40.2	39.9	0.75
Iron (mg/L)	1.63	1.33	20.27
Magnesium (mg/L)	220	216	1.83
Manganese (mg/L)	5.33	5.06	5.20
Potassium (mg/L)	17.4	17.0	2.33
Sodium (mg/L)	496	494	0.40
Sulfate (mg/L)	2960	2670	10.30
TDS (mg/L)	4190	4120	1.68
Uranium (mg/L)	0.0127	0.0115	9.92
Zinc (mg/L)	0.0165	0.0119	32.39

**Radiologic Duplicate Tests**

Gross Alpha minus Rn & U MDC	<1.0	<1.0	NC
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\* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.

Per the approved QAP, an RPD greater than 20% is acceptable if the reported results are less than 5 times the RL. These results are provided for information only.  
RPD exceeds the QAP limit of 20%.

G-7B: QA/QC Evaluation for Accelerated Sample Duplicates

Constituent	MW-35 5/12/15	MW-65 5/12/15	%RPD*
Manganese (mg/L)	0.207	0.22	6.09
Selenium (mg/L)	0.00911	0.00963	5.55
Thallium (mg/L)	<0.0005	<0.0005	N/A
Uranium (mg/L)	0.0225	0.0222	1.34
Radiologic RPD Tests*			
Gross Alpha minus Rn & U	4.47	2.59	7.491
Gross Alpha minus Rn & U Precision (±)	0.195	0.158	
Constituent	MW-30 6/24/15	MW-65 6/24/15	%RPD
Ammonia (as N)	0.0997	0.130	26.38
Nitrate/Nitrite (as N) (mg/L)	15.8	16.1	1.88
Selenium	0.0372	0.0382	2.65
Uranium	0.00746	0.00763	2.25
Chloride (mg/L)	142	142	0.00

\* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.

Duplicate check exceeds the QAP limit.

Per the approved QAP, an RPD greater than 20% is acceptable if the reported results are less than 5 times the RL. These results are provided for information only.

RPD exceeds the QAP limit of 20%.

G-8A: Radiologics Counting Error

Well	Sample Date	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error ≤ 20%	GWCL	Within GWCL?
MW-01	4/15/2015	1.00 U	0.266	NC	3.75	NC
MW-02	4/21/2015	1.00 U	0.209	NC	3.2	NC
MW-03	4/23/2015	1.00 U	0.154	NC	1	NC
MW-03A	4/23/2015	1.00 U	0.332	NC	7.5	NC
MW-05	4/21/2015	1.00 U	0.250	NC	3.75	NC
MW-11	4/8/2015	1.00 U	0.304	NC	3.75	NC
MW-12	4/21/2015	1.00 U	0.282	NC	7.5	NC
MW-14	4/8/2015	1.00 U	0.328	NC	7.5	NC
MW-15	4/13/2015	1.00 U	0.237	NC	7.5	NC
MW-17	4/22/2015	1.00 U	0.243	NC	2.8	NC
MW-18	4/15/2015	1.00 U	0.282	NC	7.5	NC
MW-19	4/14/2015	1.00 U	0.331	NC	2.36	NC
MW-20	5/27/2015	1.00 U	0.151	NC	-	-
MW-22	4/22/2015	5.83	0.692	Y	-	-
MW-23	4/30/2015	1.00 U	0.309	NC	2.86	NC
MW-24	5/28/2015	1.00 U	0.222	NC	7.5	NC
MW-25	4/7/2015	1.11	0.369	N	7.5	Y
MW-26	4/9/2015	1.93	0.399	N	4.69	Y
MW-27	4/20/2015	1.00 U	0.285	NC	2	NC
MW-28	4/21/2015	1.56	0.370	N	2.42	Y
MW-29	4/30/2015	1.00 U	0.354	NC	2	NC
MW-30	4/8/2015	1.00 U	0.329	NC	3.75	NC
MW-31	4/7/2015	1.00 U	0.241	NC	7.5	NC
MW-32	4/8/2015	1.81	0.480	N	3.33	Y
MW-35	4/9/2015	4.25	0.621	Y	3.75	N/A
MW-36	4/16/2015	1.00 U	0.326	NC	-	-
MW-37	5/27/2015	1.00 U	0.184	NC	-	-
MW-65	4/9/2015	4.98	0.672	NC	-	-
MW-70	4/30/2015	1.00 U	0.292	NC	-	-

N/A = the counting error is less than 20% of the activity as required by the GWDP and/or the value is above the GWCL and this check column is not applicable.

NC = Not calculated. The sample results are nondetect and the check is not applicable.

**G-8B: Radiologics Counting Error for Accelerated Samples**

Well	Sample Date	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error ≤ 20%	GWCL	Within GWCL?
MW-35	5/12/2015	4.47	0.195	Y	3.75	N/A
MW-35	6/2/2015	4.01	0.431	Y	3.75	N/A
MW-65	5/12/2015	2.59	0.158	Y	3.75	N/A

N/A - the counting error is less than 20% of the activity as required by the GWDP and/or the value is above the GWCL and this check column is not applicable.

NC = Not calculated. The sample results are nondetect and the check is not applicable.

G-9A: Laboratory Matrix QC

**Matrix Spike % Recovery Comparison**

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD	RPD Range
1504208	MW-11	Sodium *	NC	NC	70-130	NC	20
1504208	MW-11	Calcium *	NC	NC	70-130	NC	20
1504208	MW-11	Ammonia	83.7	99.1	90-110	15.7	10
1504309	MW-01	Potassium	69	57.3	70-130	5.57	20
1504309	MW-01	Calcium*	NC	NC	70-130	NC	20
1504309	MW-01	Calcium*	NC	NC	70-130	NC	20
1504309	MW-01	Magnesium*	NC	NC	70-130	NC	20
1504309	MW-01	Sodium *	NC	NC	70-130	NC	20
1505005	MW-23	Magnesium*	NC	NC	70-130	NC	20
1505005	MW-23	Sodium *	NC	NC	70-130	NC	20
1505005	MW-23	Calcium*	NC	NC	70-130	NC	20
1505005	MW-23	Ammonia	92.7	85.6	90-110	7.92	10
1505395	MW-03	Calcium*	NC	NC	70-130	NC	20
1505395	MW-03	Magnesium*	NC	NC	70-130	NC	20
1505395	MW-03	Sodium *	NC	NC	70-130	NC	20
1506525	MW-37	Sodium *	NC	NC	70-130	NC	20
1506525	MW-37	Calcium*	NC	NC	70-130	NC	20
1506525	MW-24	Nitrate/Nitrite (as N)	86.3	85.4	90-110	1.38	10

N/A = QC was not performed on an EFRI sample.

\* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

**Laboratory Duplicate % Recovery Comparison**

All laboratory duplicate samples were within laboratory established acceptance limits.

**Method Blank Detections**

Lab Report	Well/Sample	Analyte	Reported Concentration	QAP Required RL
1504208	N/A	Bicarbonate (as CaCO3)	1.0 mg/L	1.0 mg/L
1505395	N/A	Zinc	15.7 ug/L	10.0 ug/L

**LCS % Recovery Comparison**

All LCS recoveries were within laboratory established acceptance limits.

G-9B: Accelerated Laboratory Matrix QC

**Matrix Spike % Recovery Comparison**

Lab Report	Well	Analyte	MS % REC	MSD % REC	REC Range	RPD %	RPD Range %
1505272 - May Accelerated	MW-30	Nitrate*	NC	NC	90-110	NC	10
1506524 - June Accelerated	MW-26	Nitrate	86.3	85.4	90-110	0.622	10

\* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

N/A = QC was not performed on an EFRI sample.

**Laboratory Duplicate % Recovery Comparison**

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
373296 - May Accelerated	MW-35	Gross Radium Alpha	2.59	3.77	37.0	20

LCS % Recovery Comparison

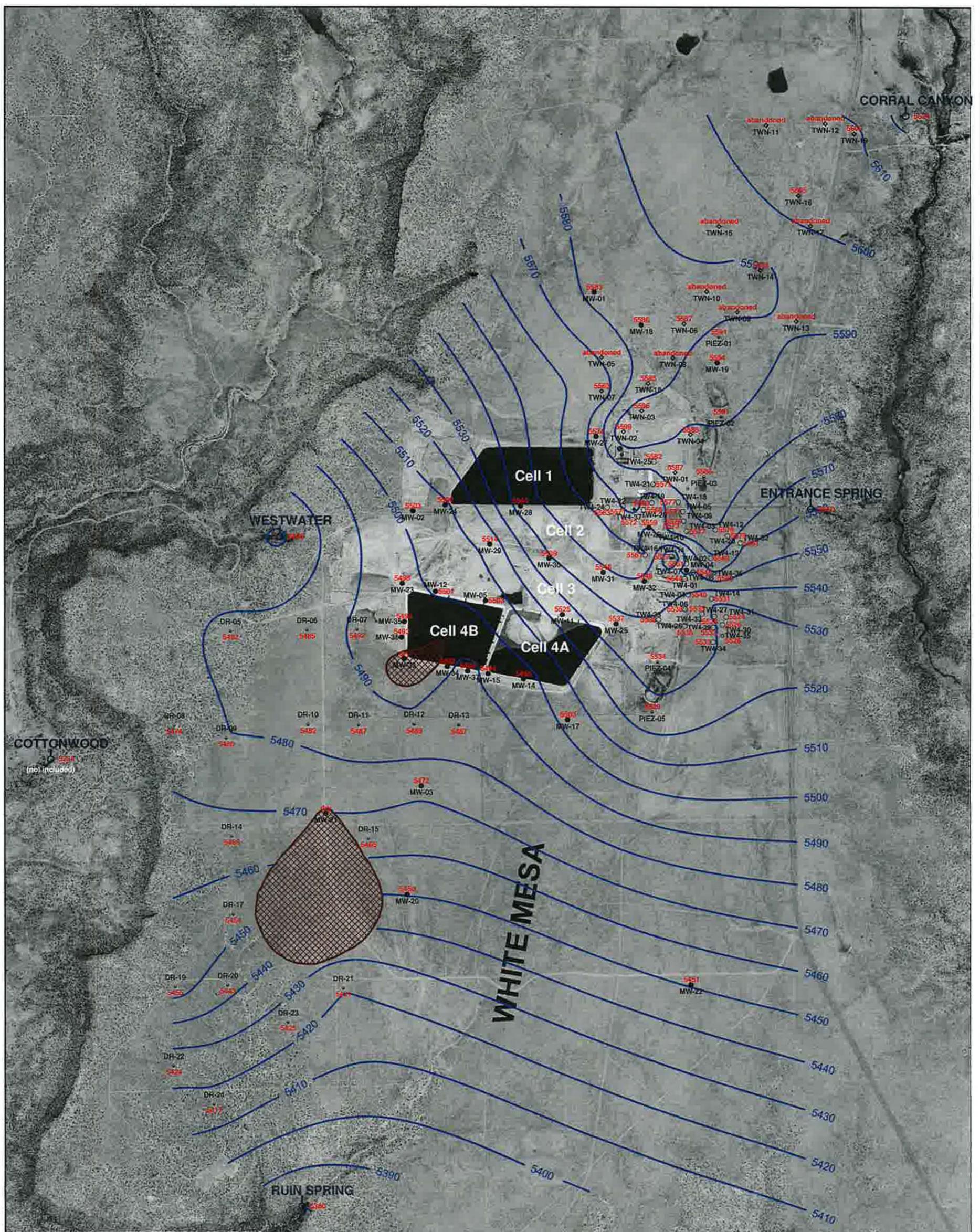
All LCS recoveries were within labroatory established acceptance limits.

Method Blank Results

The method blanks were non-detect.

Tab H

Kriged Current Quarterly Groundwater Contour Map



**EXPLANATION**

-  estimated dry area
- TW4-37** temporary perched monitoring well installed March, 2015 showing elevation in feet amsl  
 5572
- MW-5** perched monitoring well showing elevation in feet amsl  
 5503
- TW4-12** temporary perched monitoring well showing elevation in feet amsl  
 5579
- TWN-7** temporary perched nitrate monitoring well showing elevation in feet amsl  
 5563
- PIEZ-1** perched piezometer showing elevation in feet amsl  
 5591
- TW4-35** temporary perched monitoring well installed May, 2014 showing elevation in feet amsl  
 5526
- RUI N SPRING**  
 5380 seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-20, TW4-21 and TW4-37 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells  
 TW4-11 water level is below the base of the Burro Canyon Formation



**HYDRO  
GEO  
CHEM, INC.**

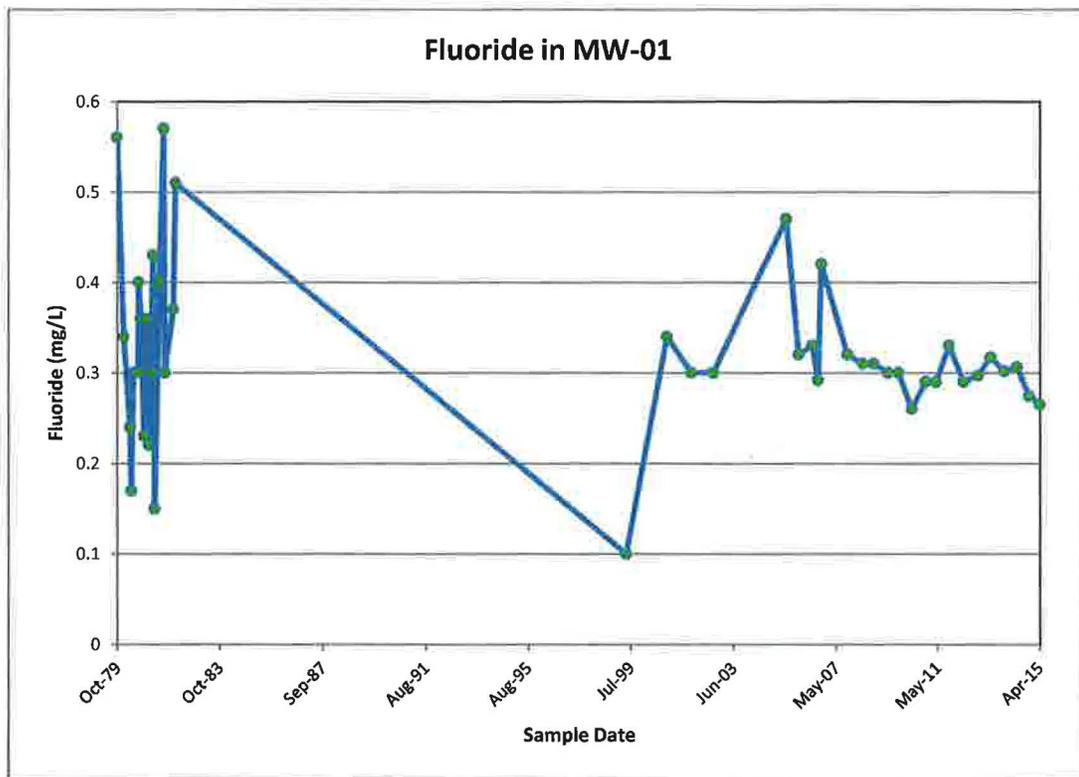
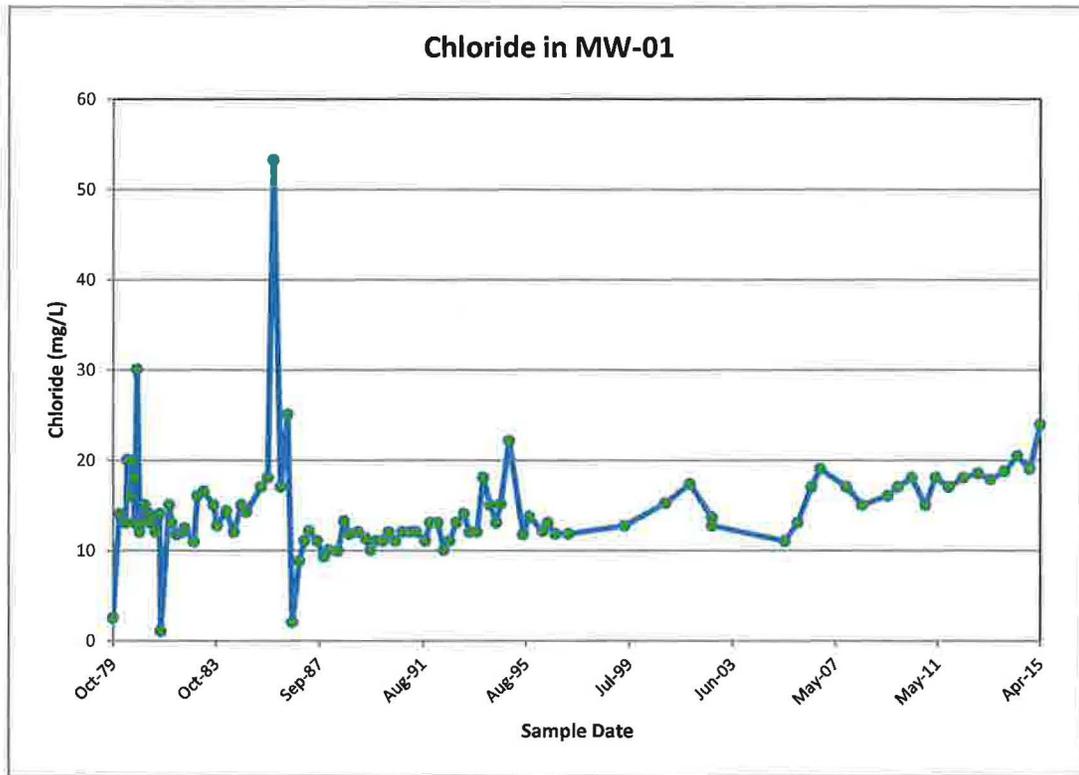
**KRIGED 2nd QUARTER, 2015 WATER LEVELS  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
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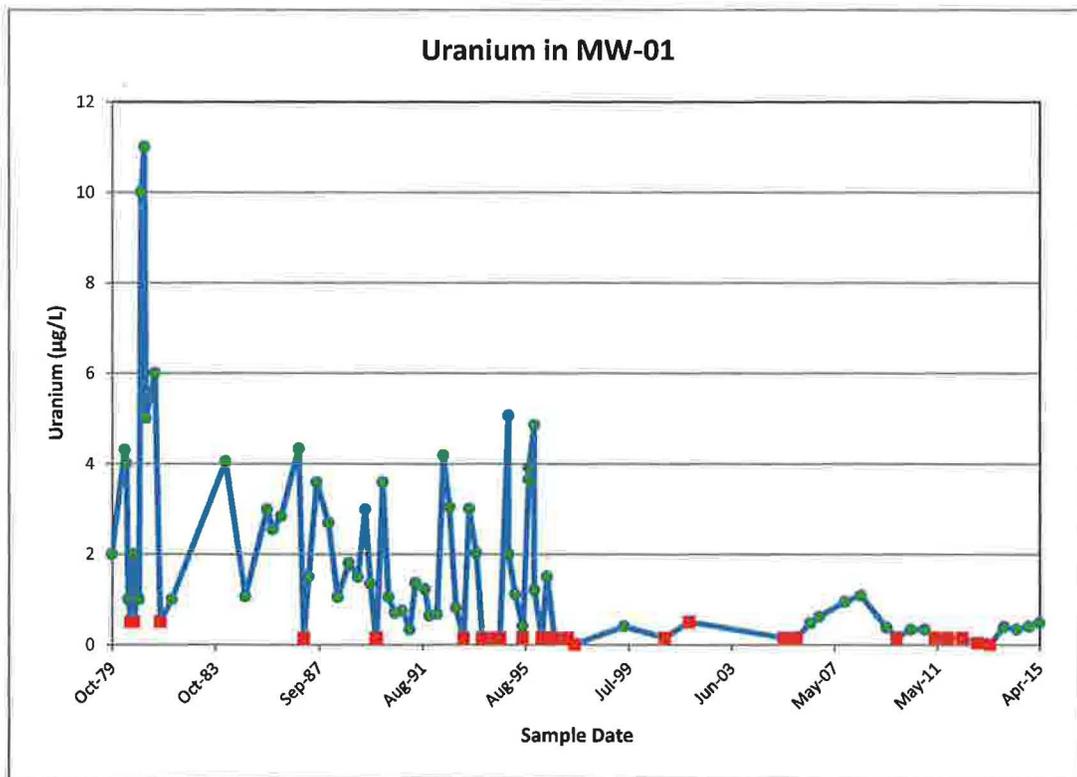
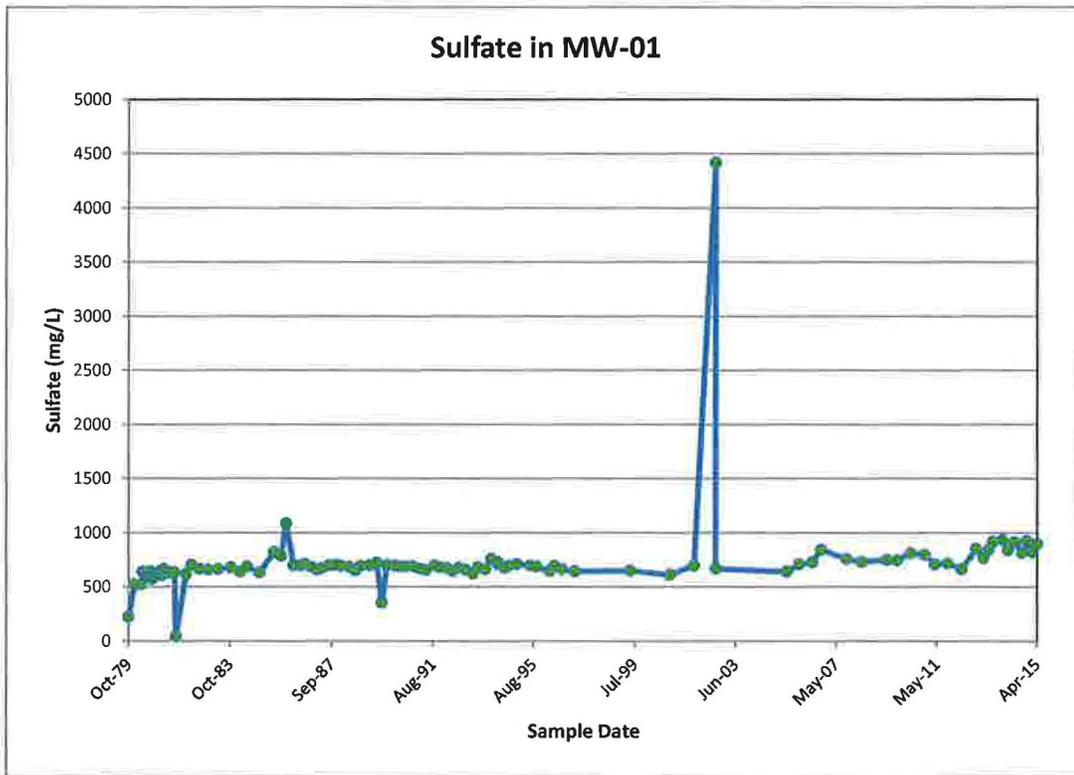
Tab I

Groundwater Time Concentration Plots

## Time concentration plots for MW-01

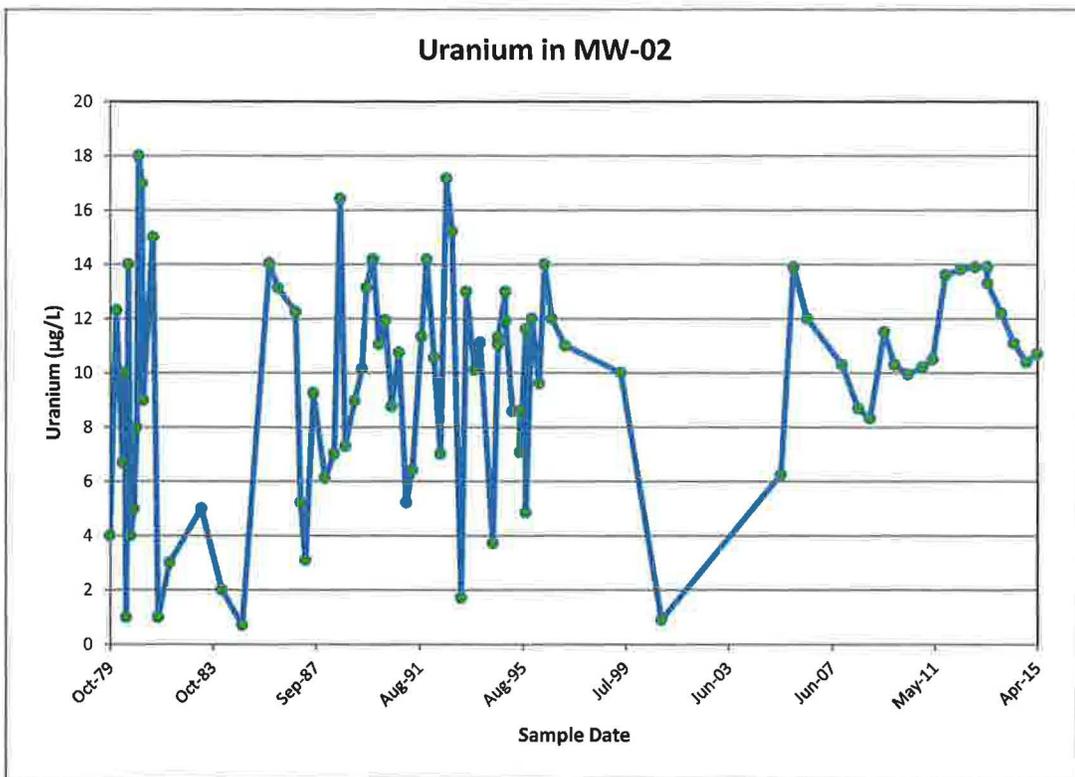
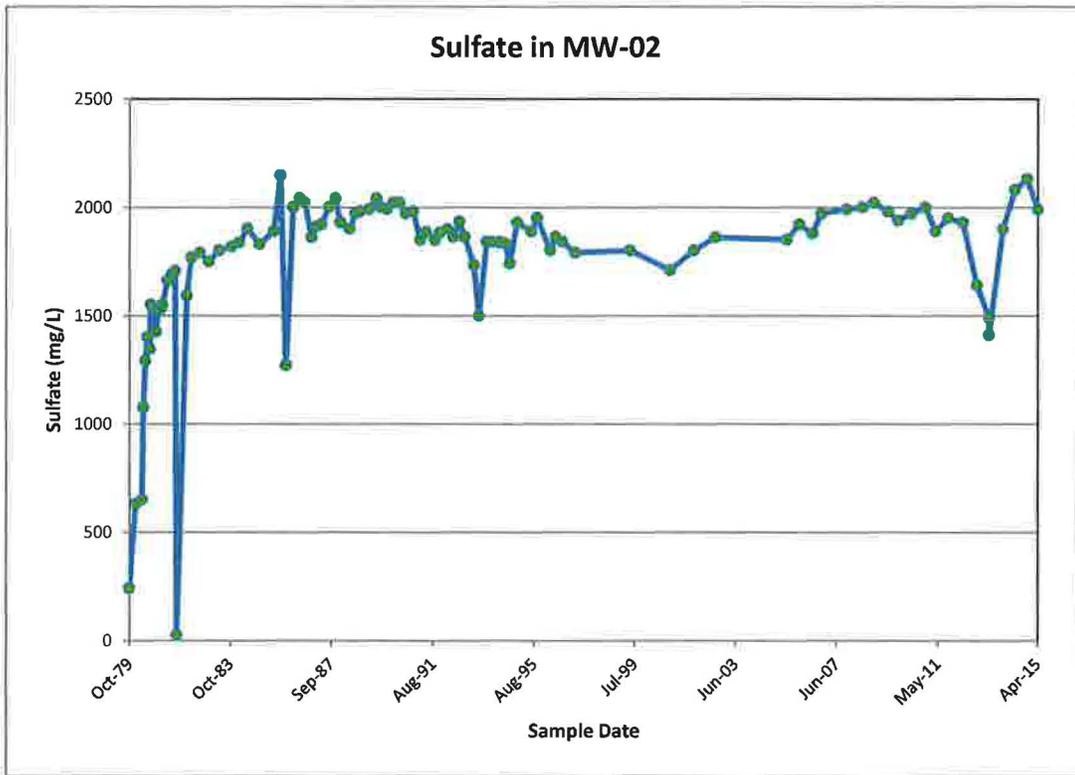


## Time concentration plots for MW-01

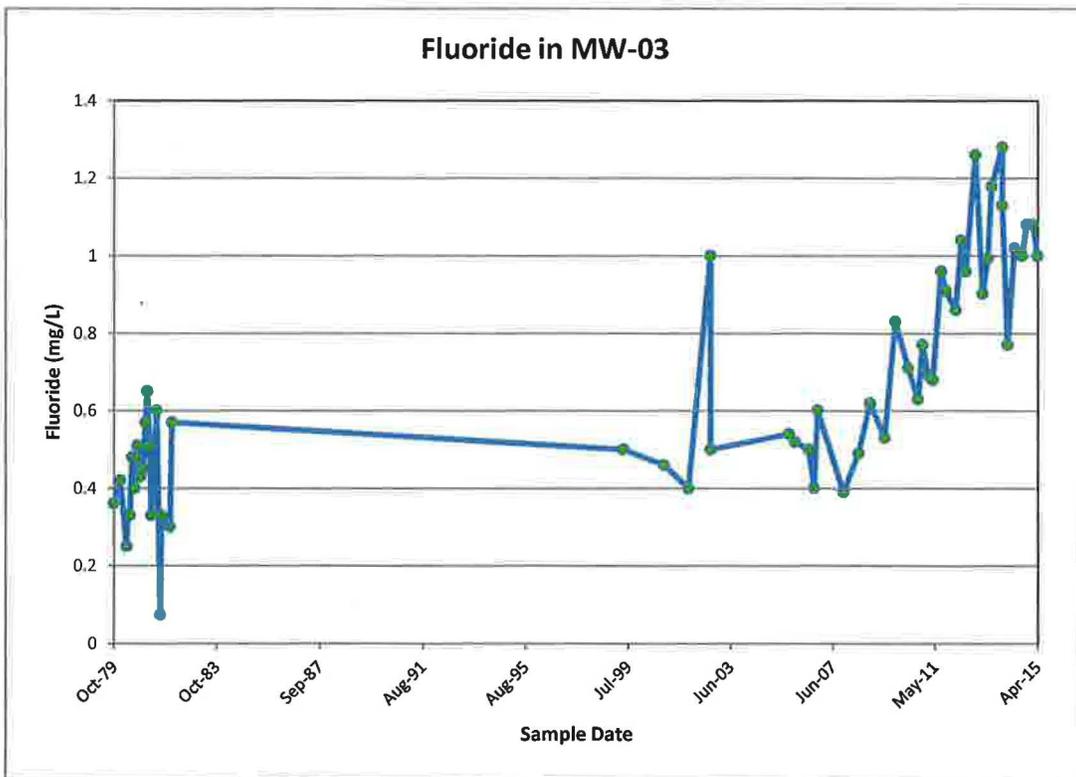
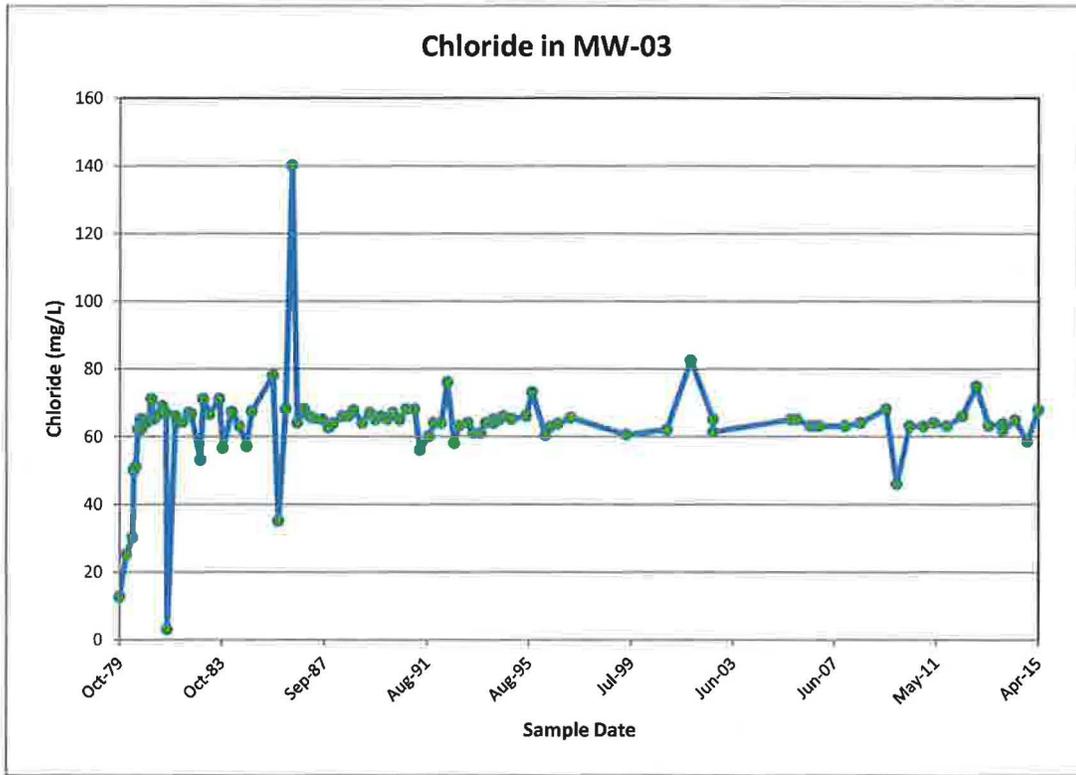




## Time concentration plots for MW-02

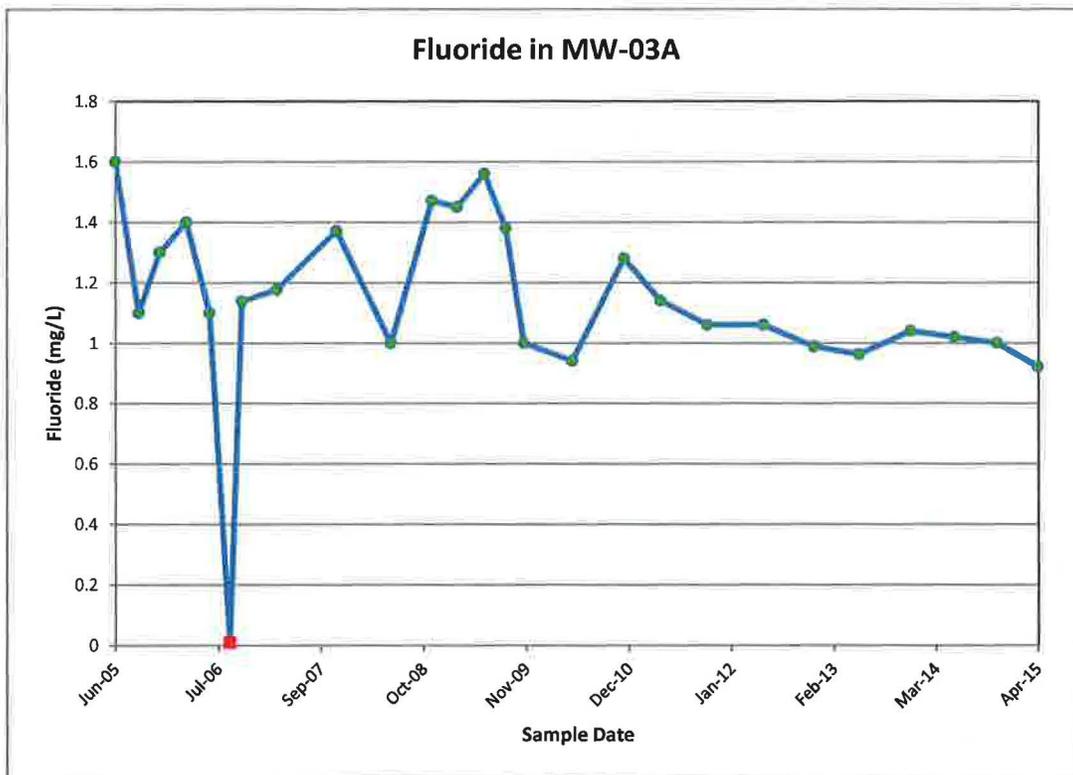
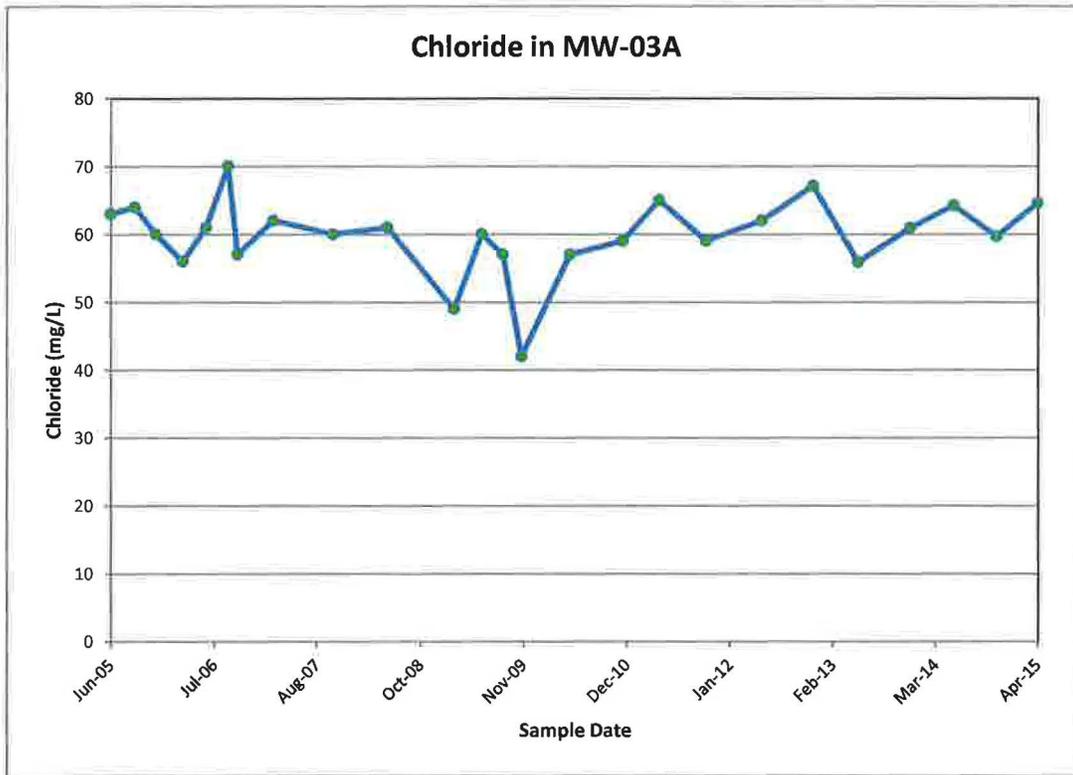


## Time concentration plots for MW-03

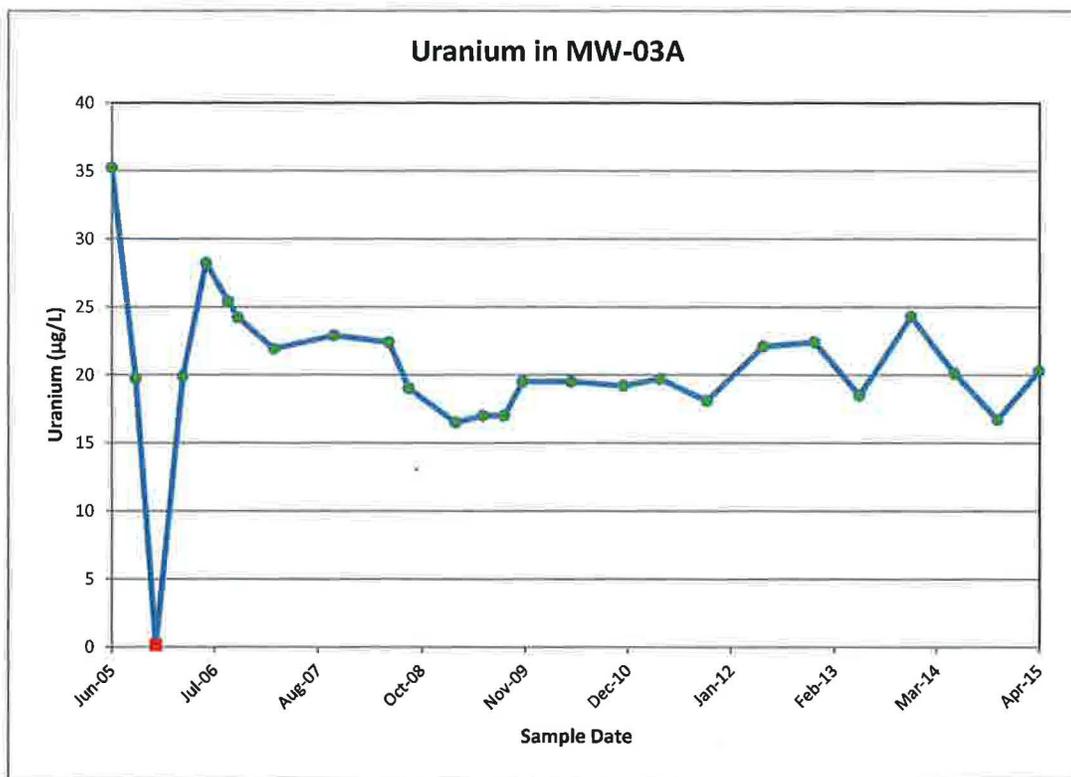
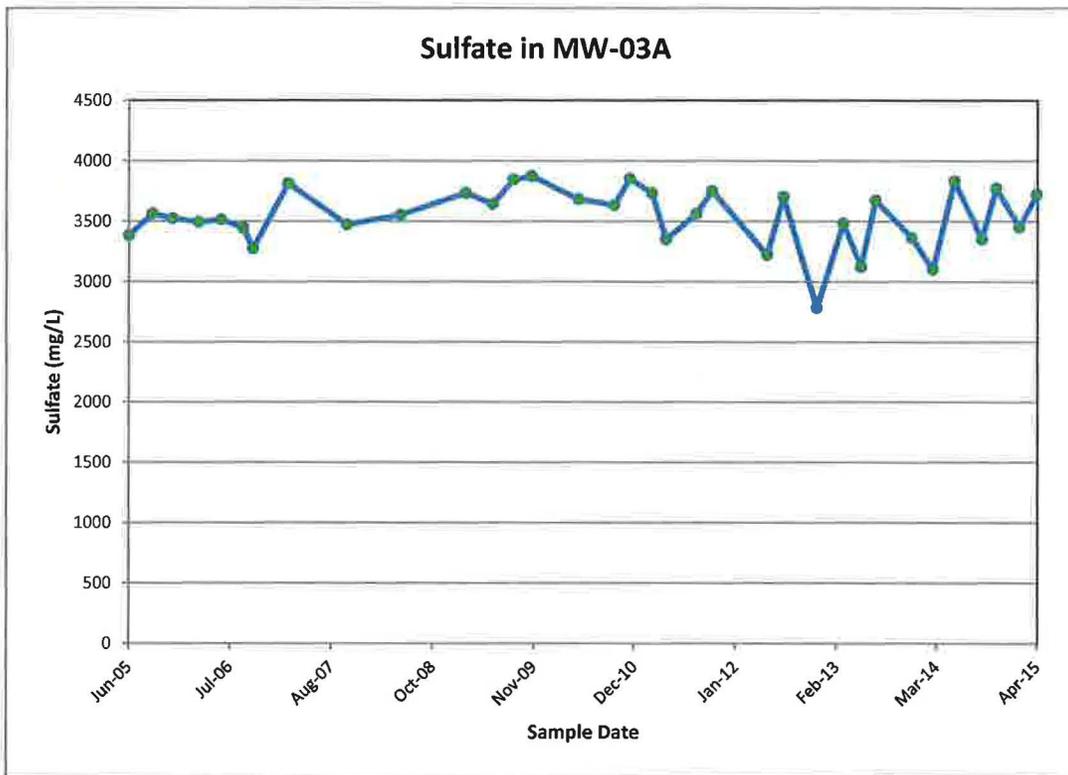




### Time concentration plots for MW-03A

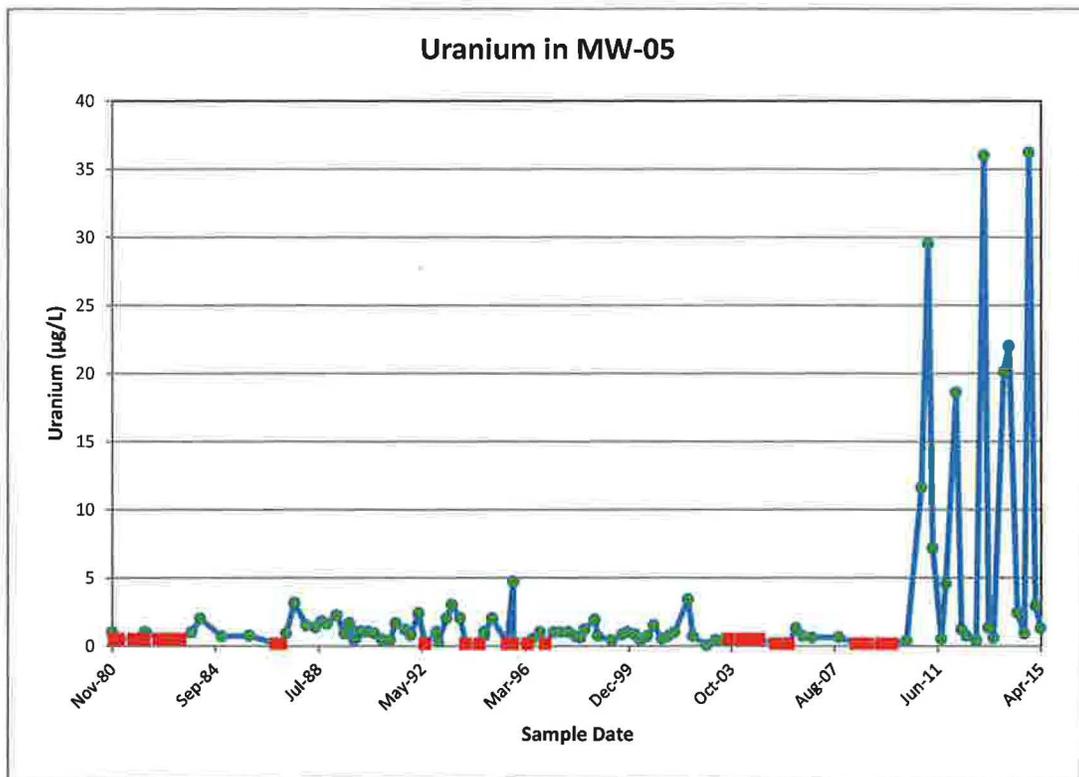
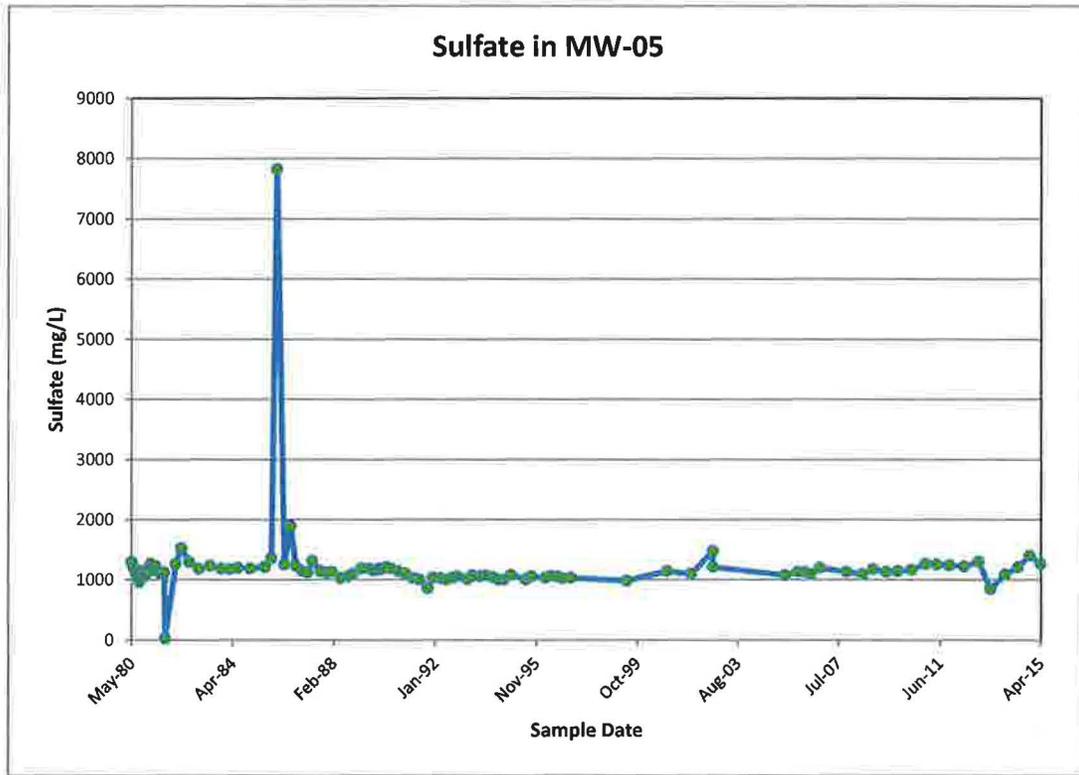


### Time concentration plots for MW-03A



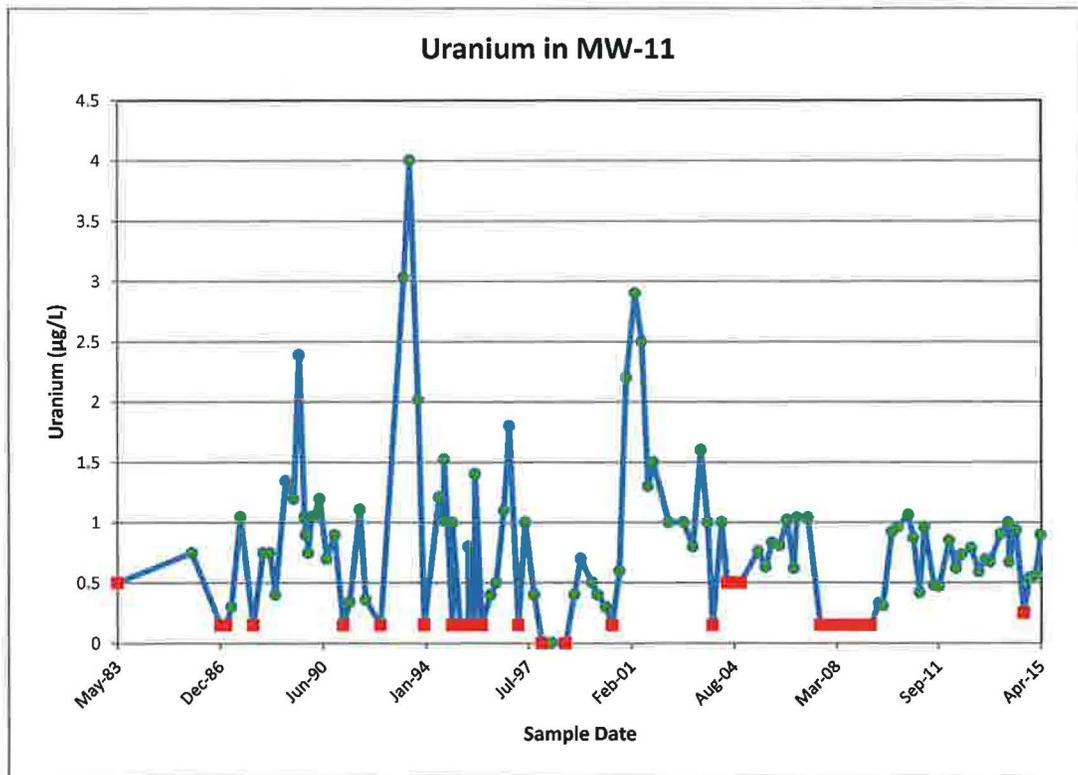
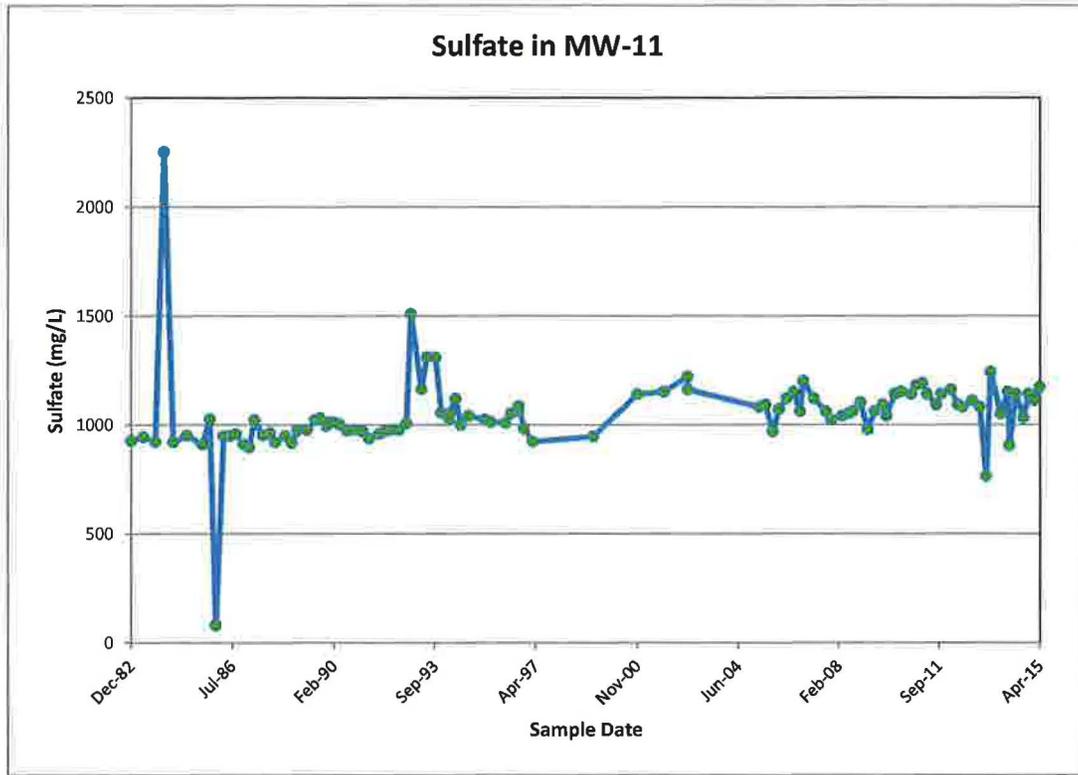


## Time concentration plots for MW-05

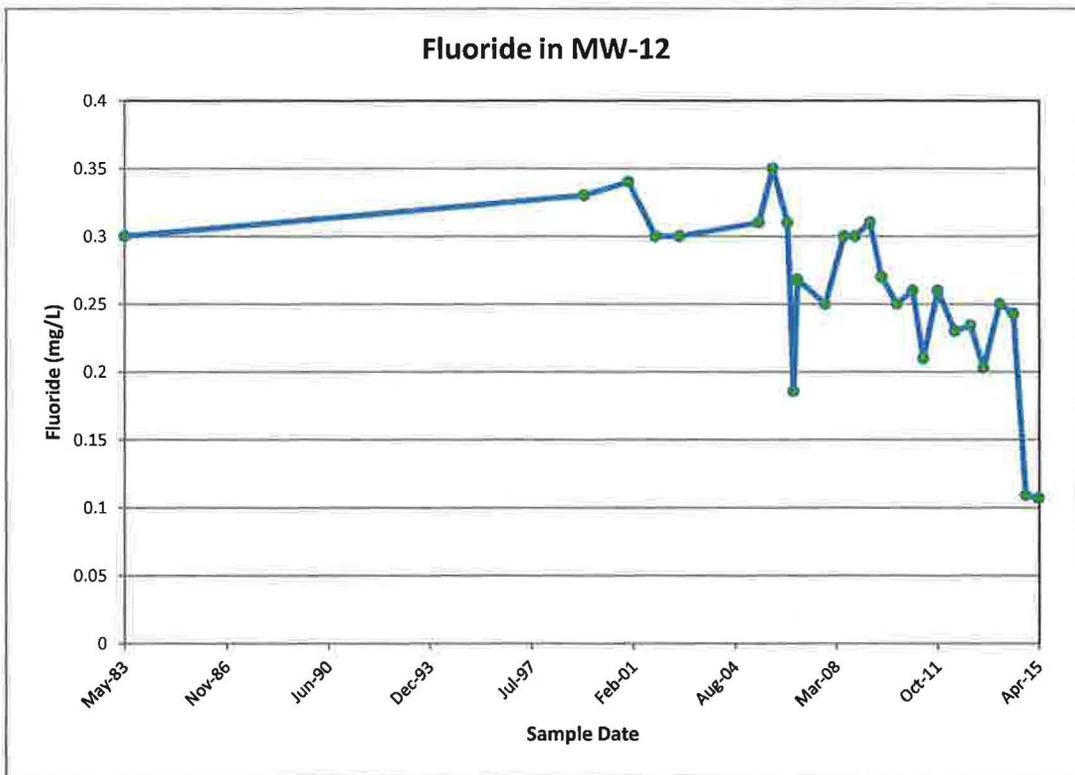
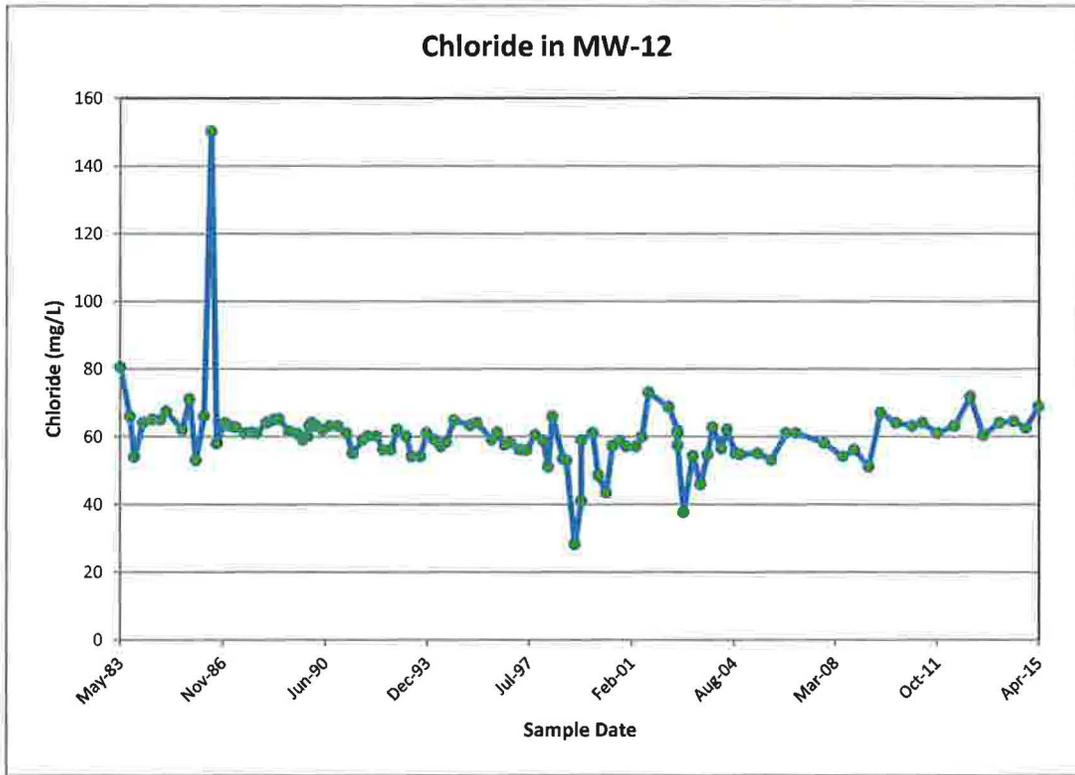




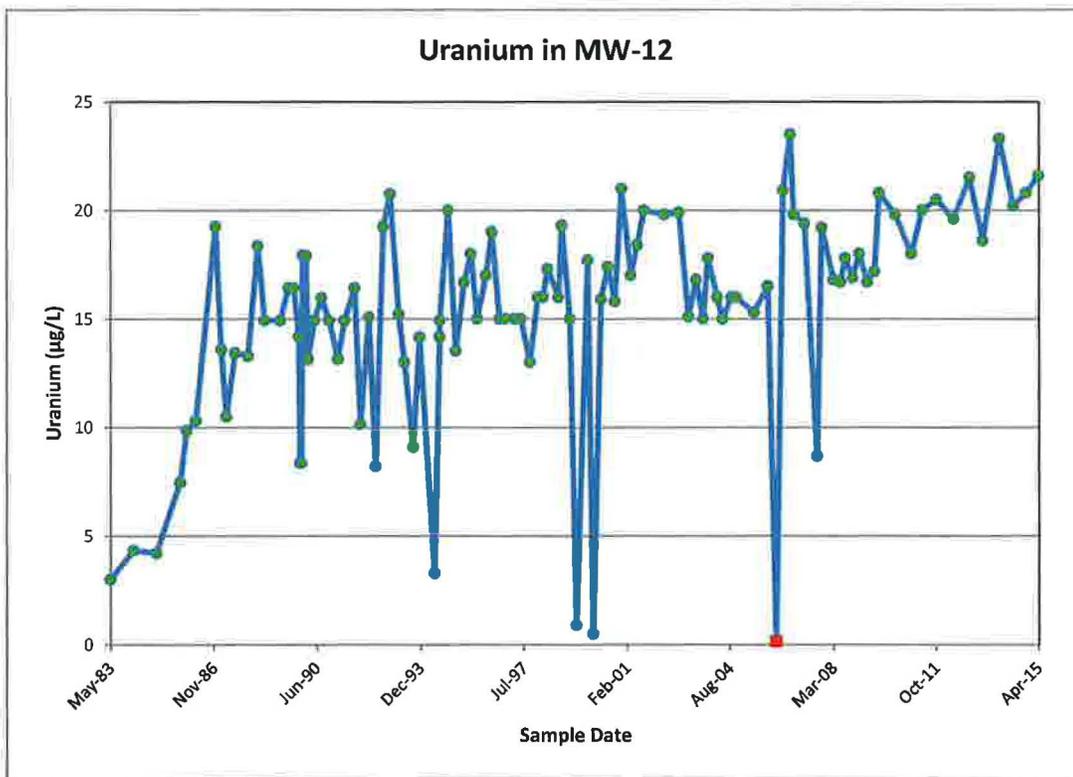
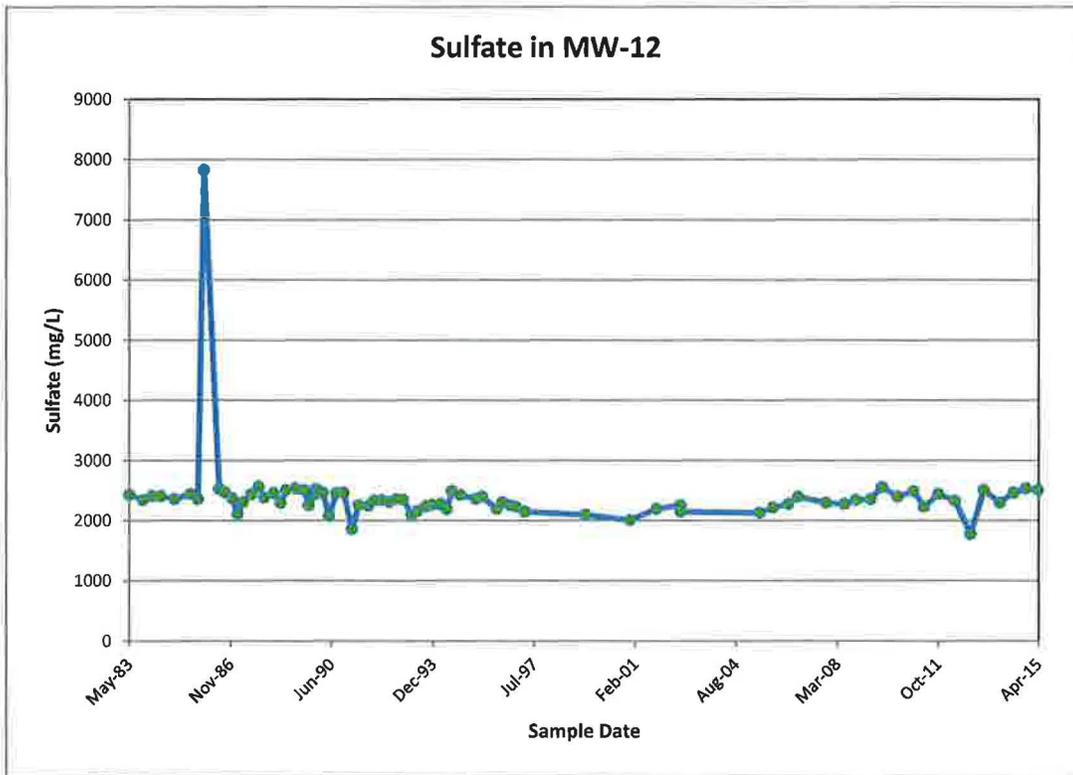
## Time concentration plots for MW-11



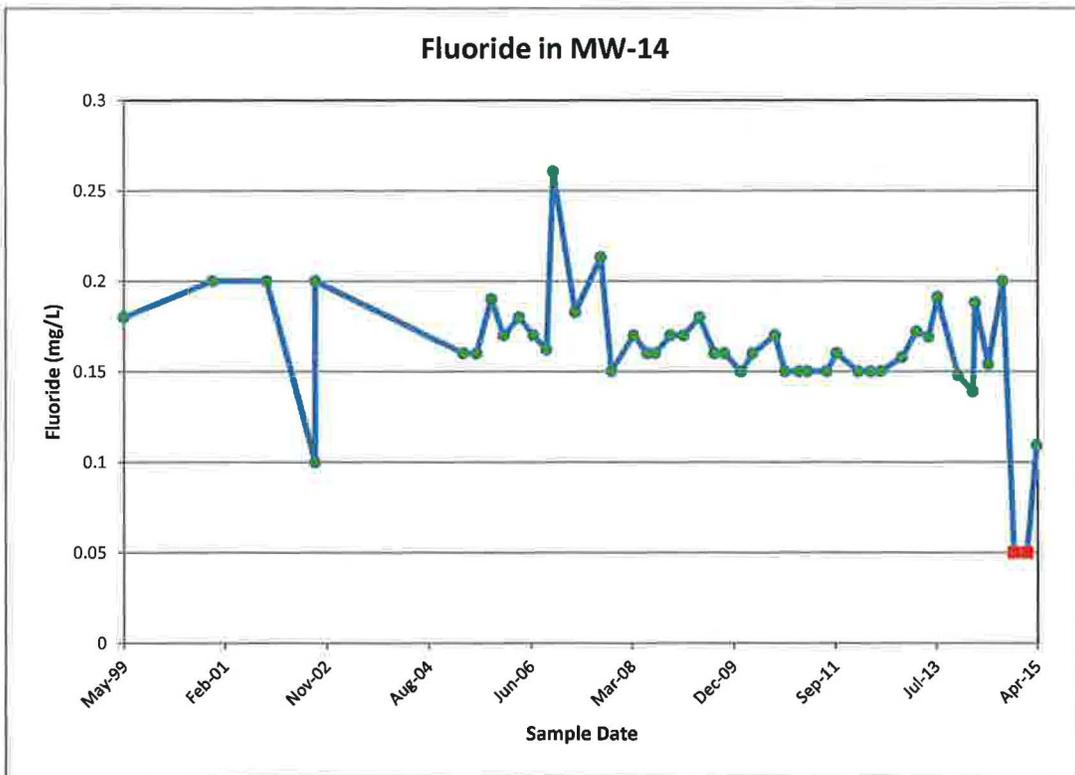
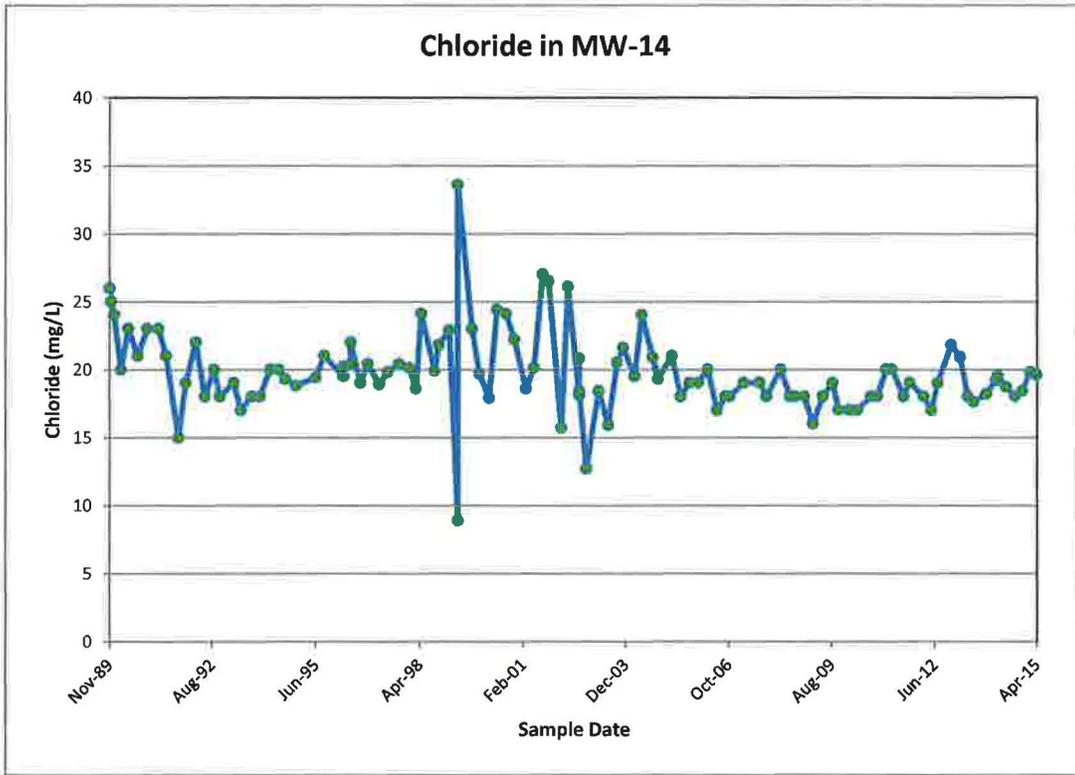
## Time concentration plots for MW-12



### Time concentration plots for MW-12

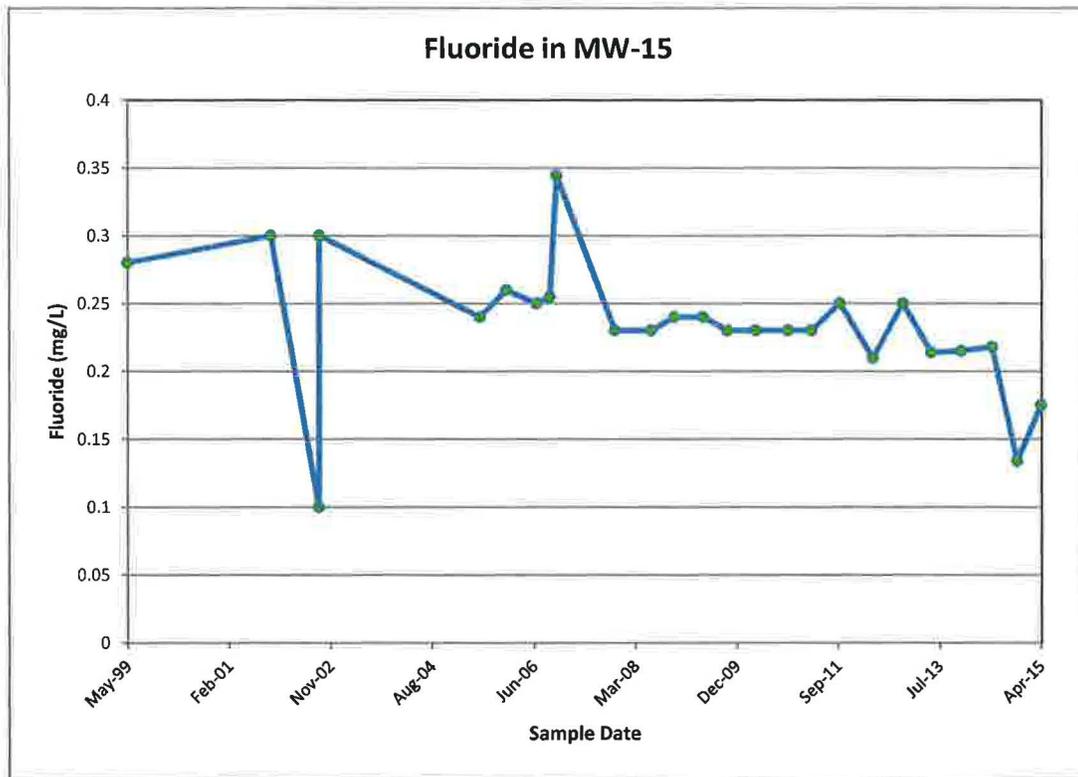
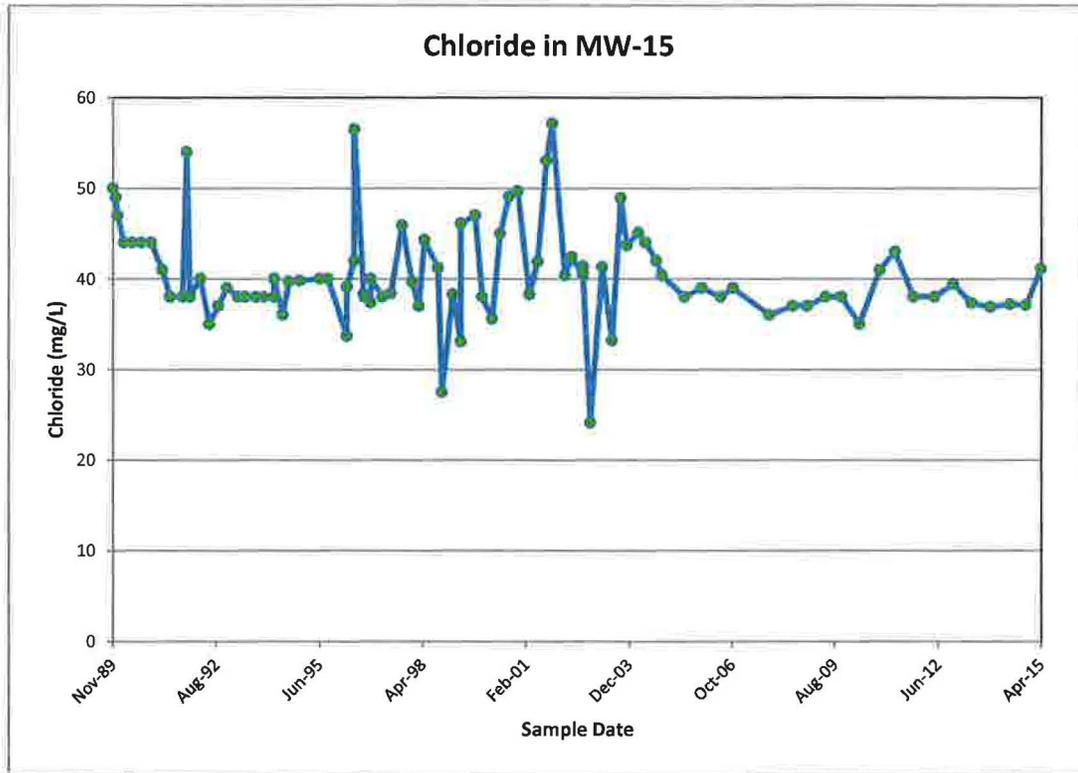


## Time concentration plots for MW-14

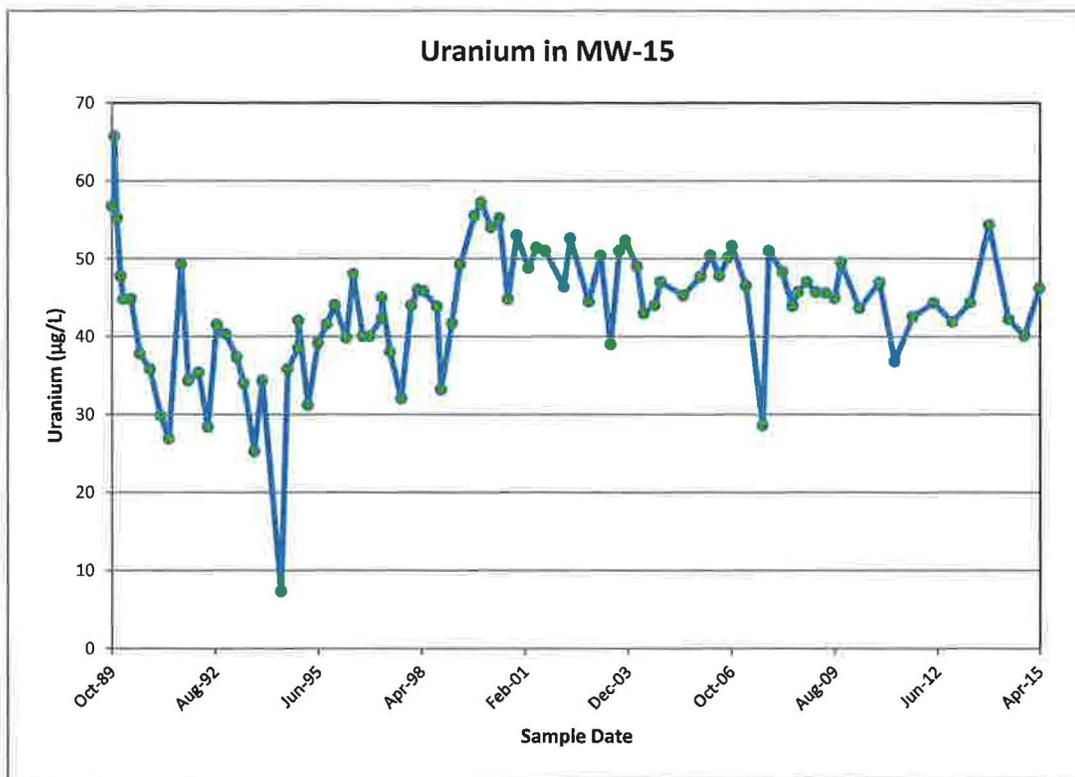
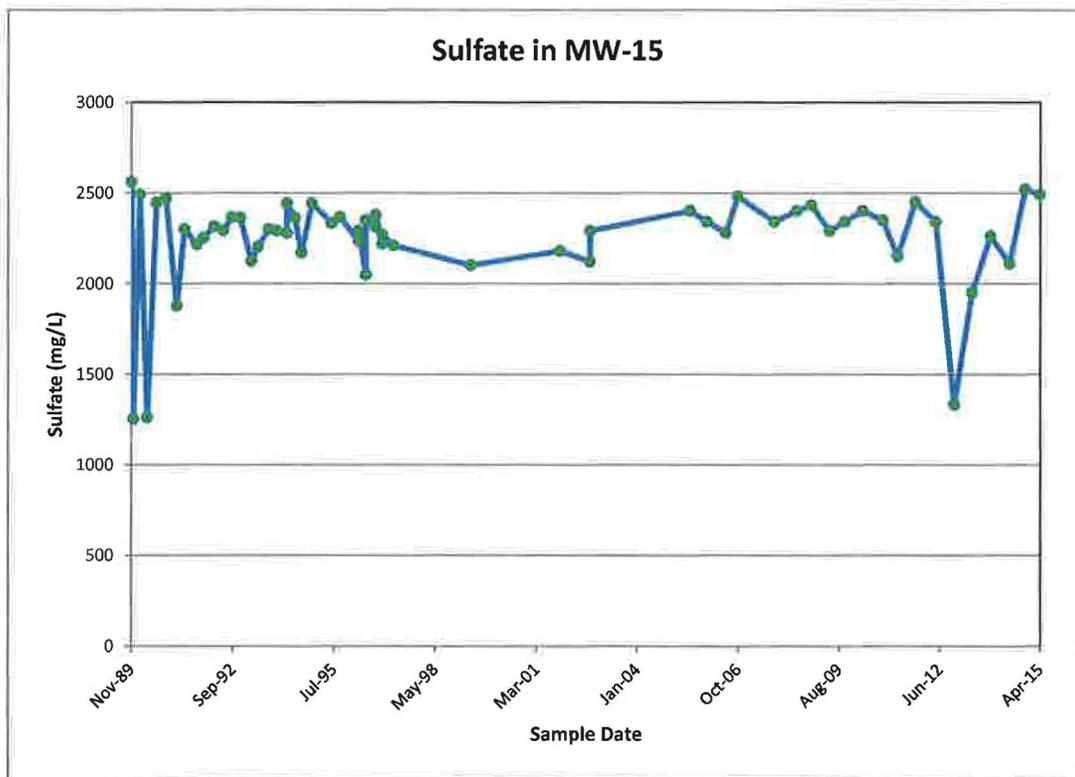




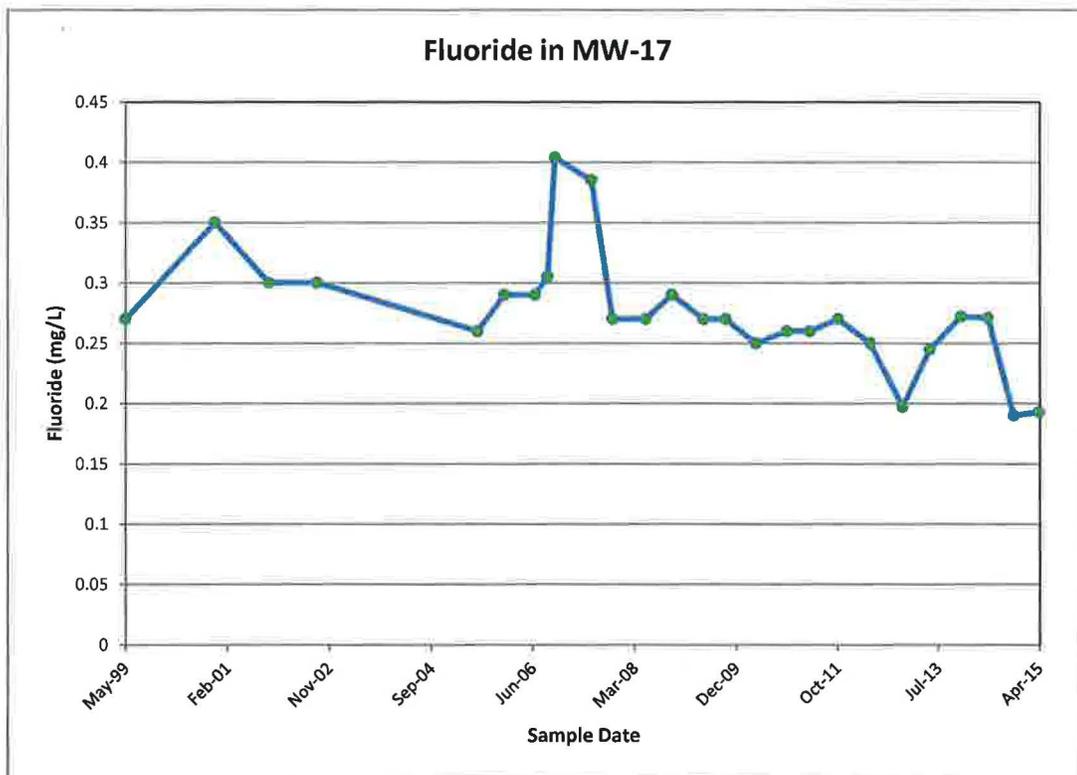
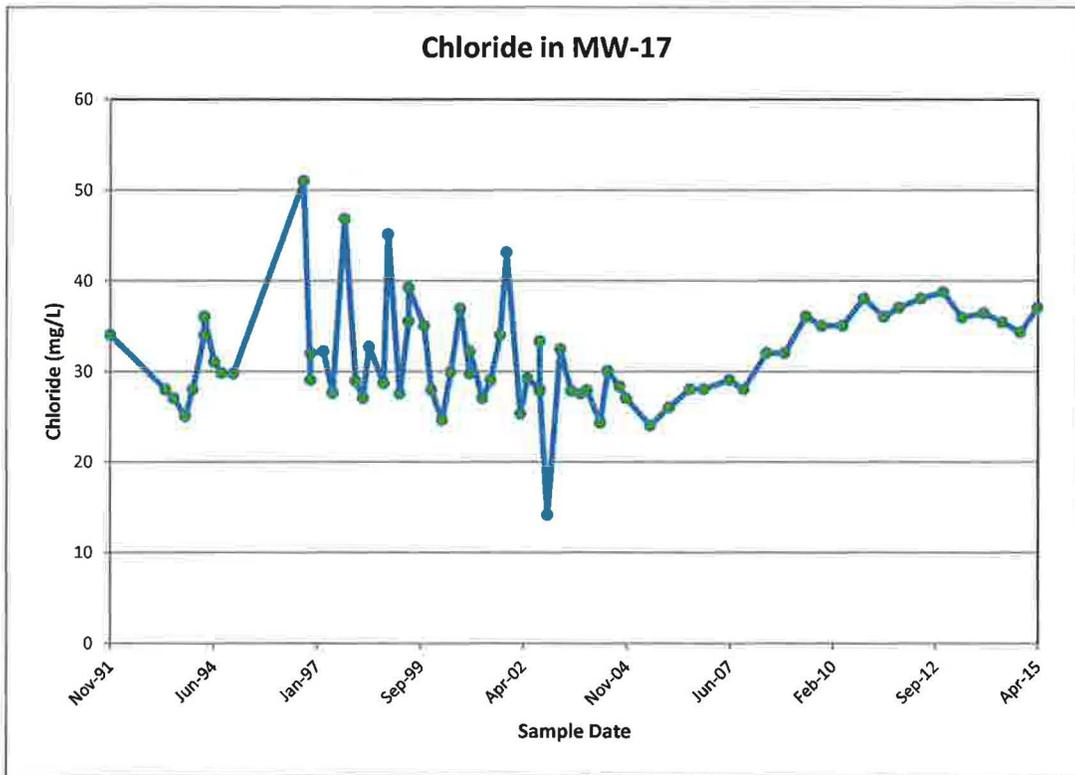
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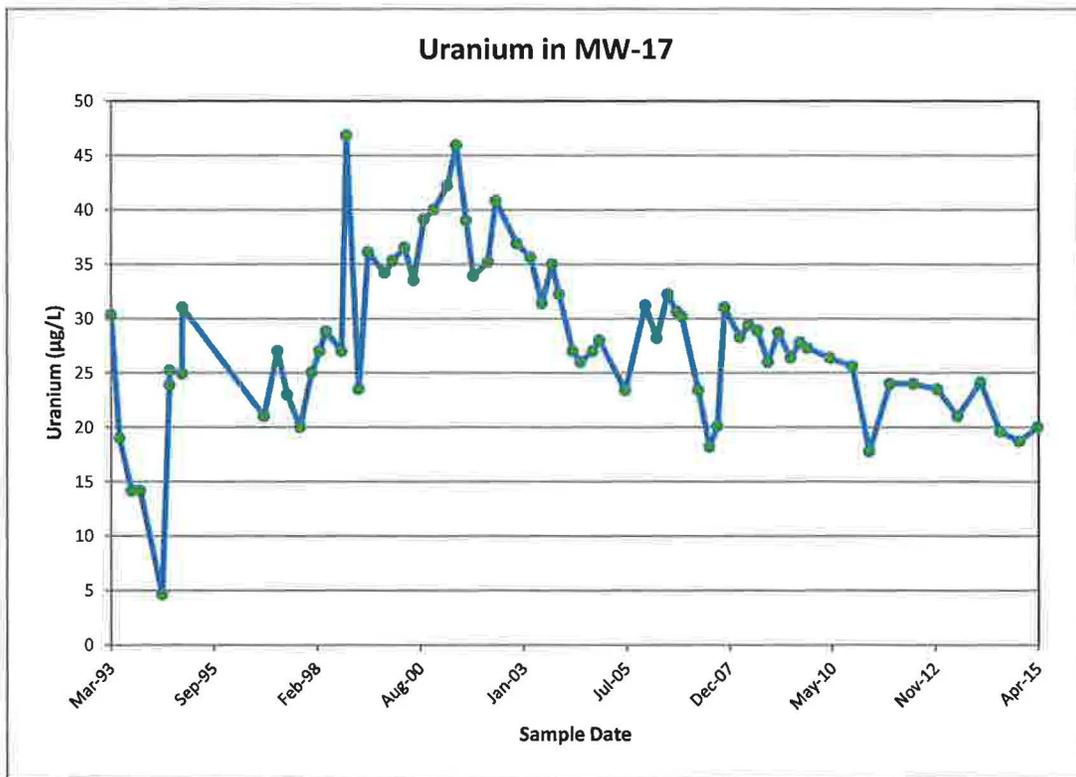
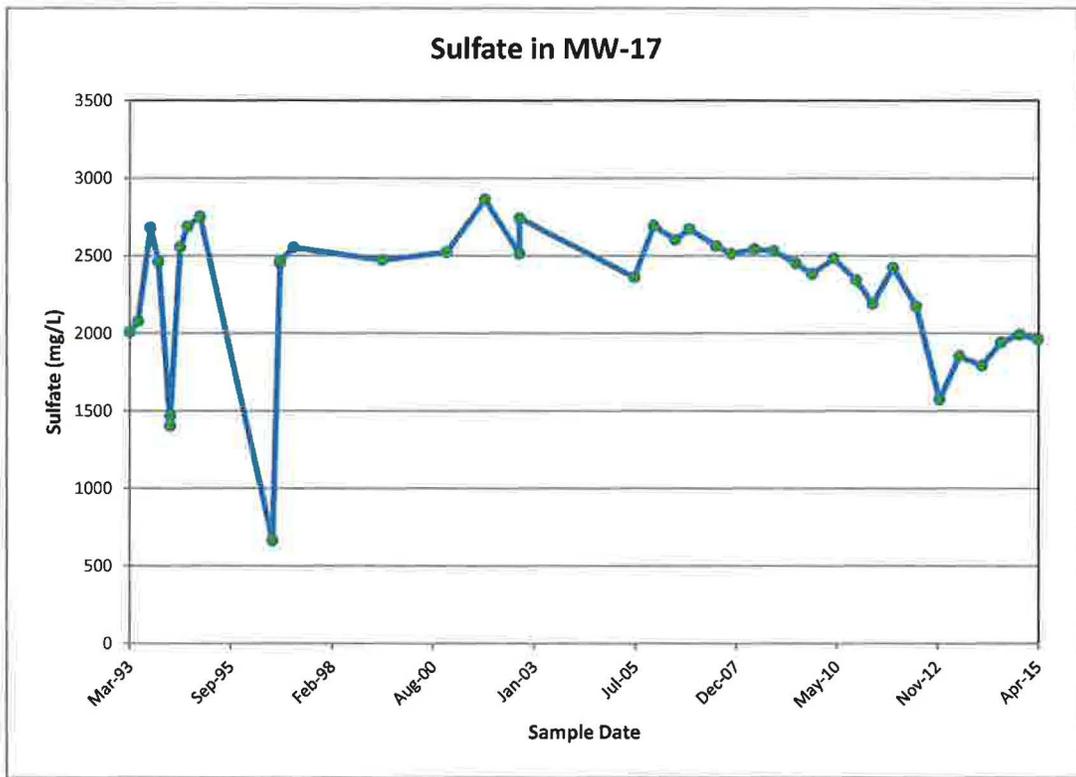
### Time concentration plots for MW-15



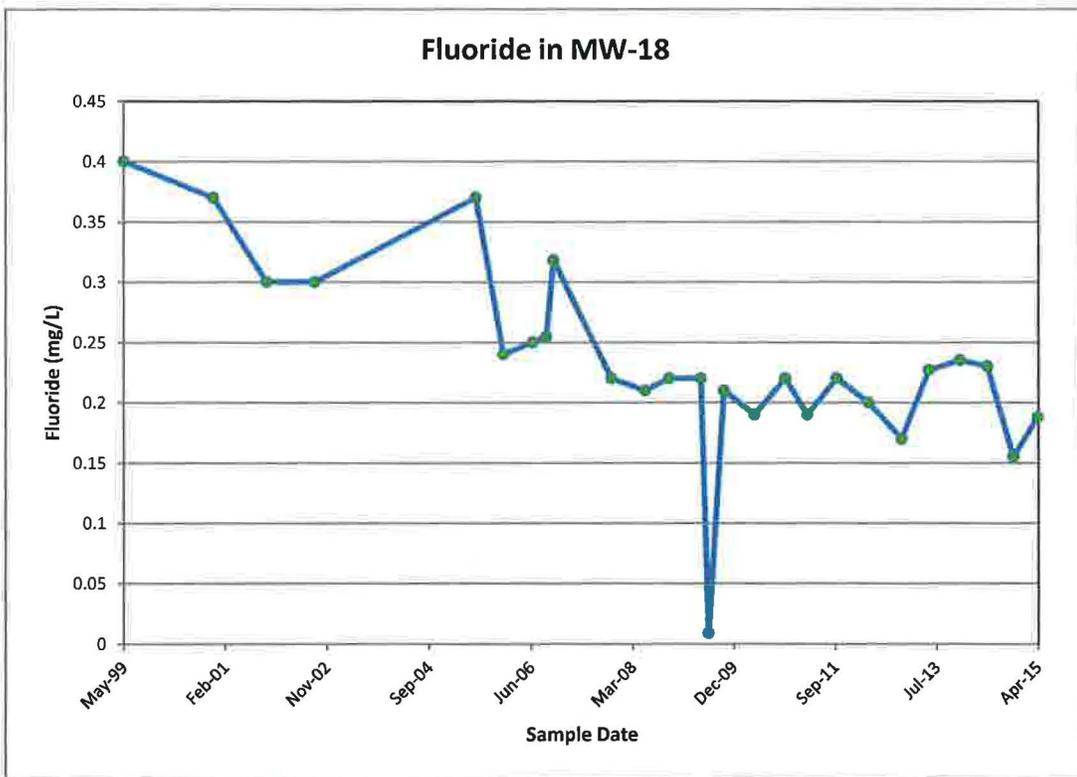
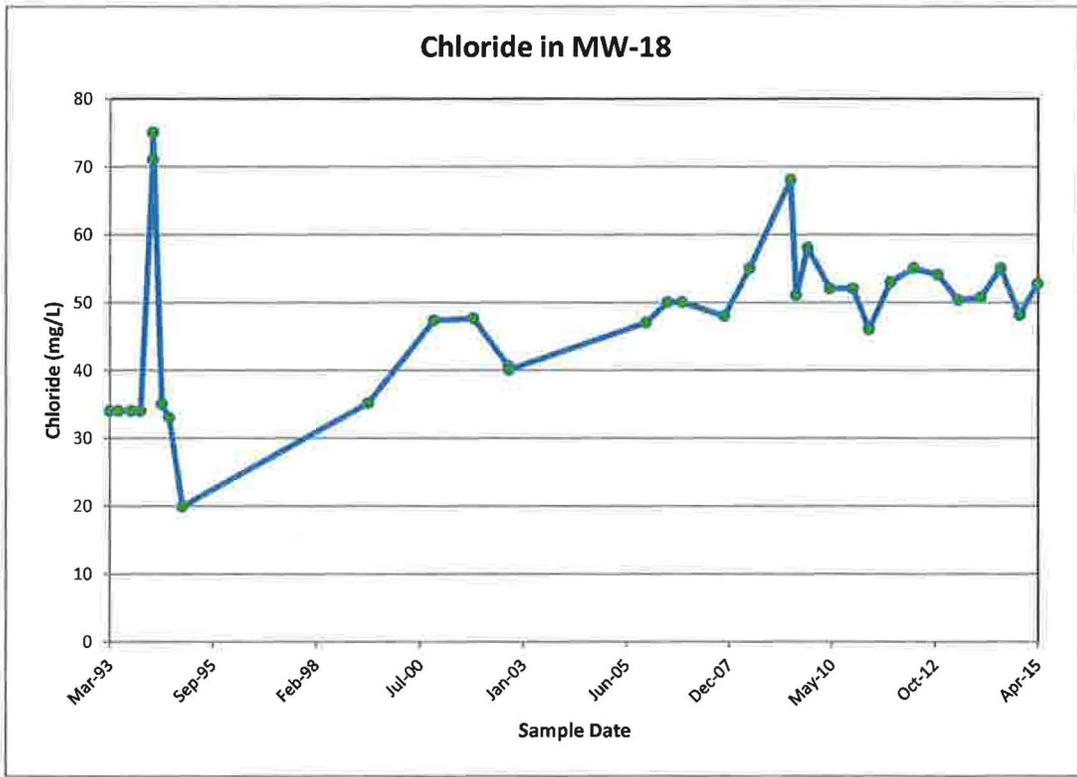
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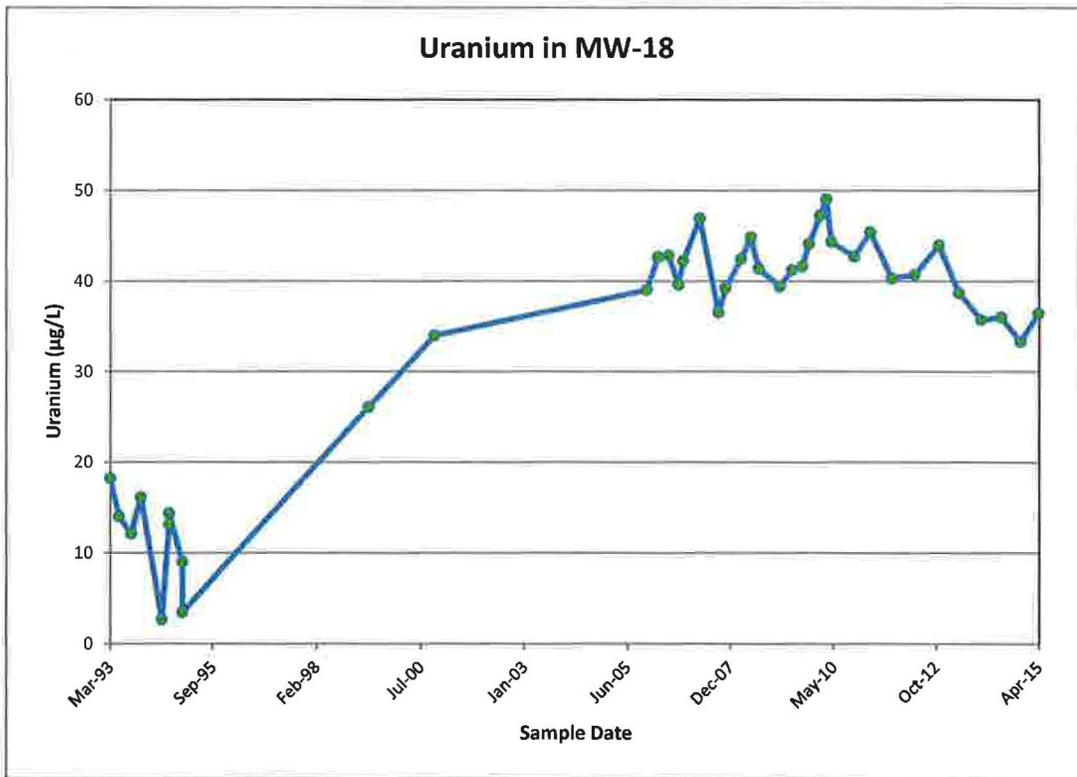
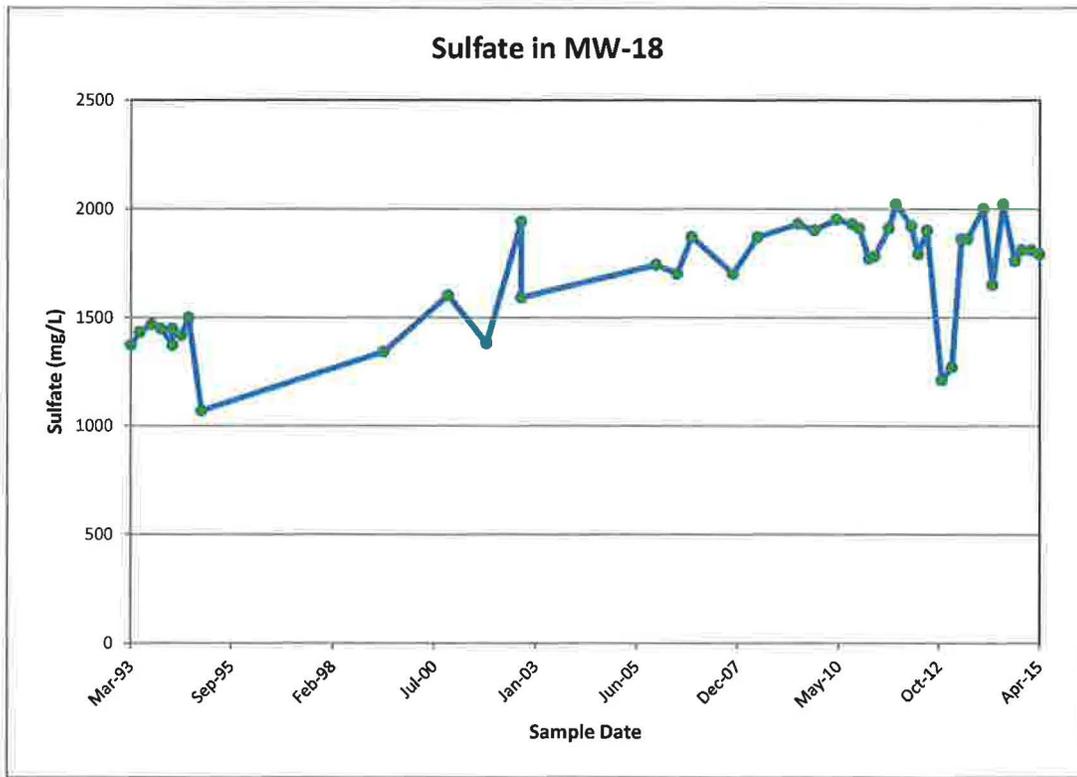
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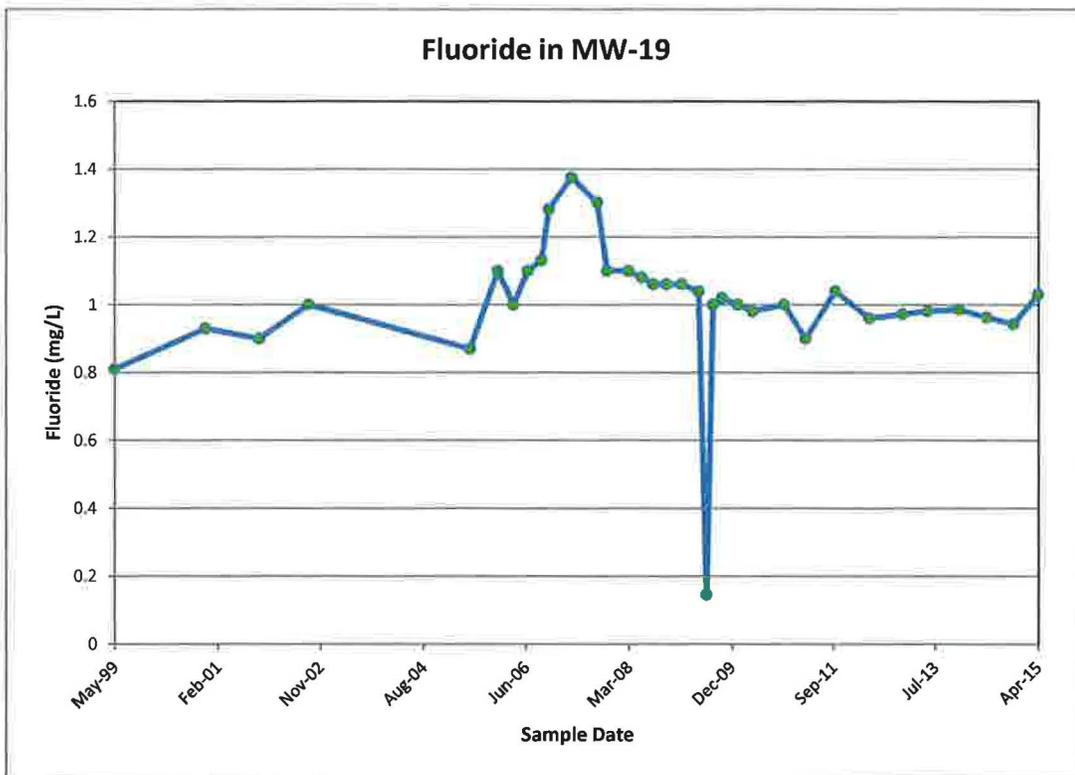
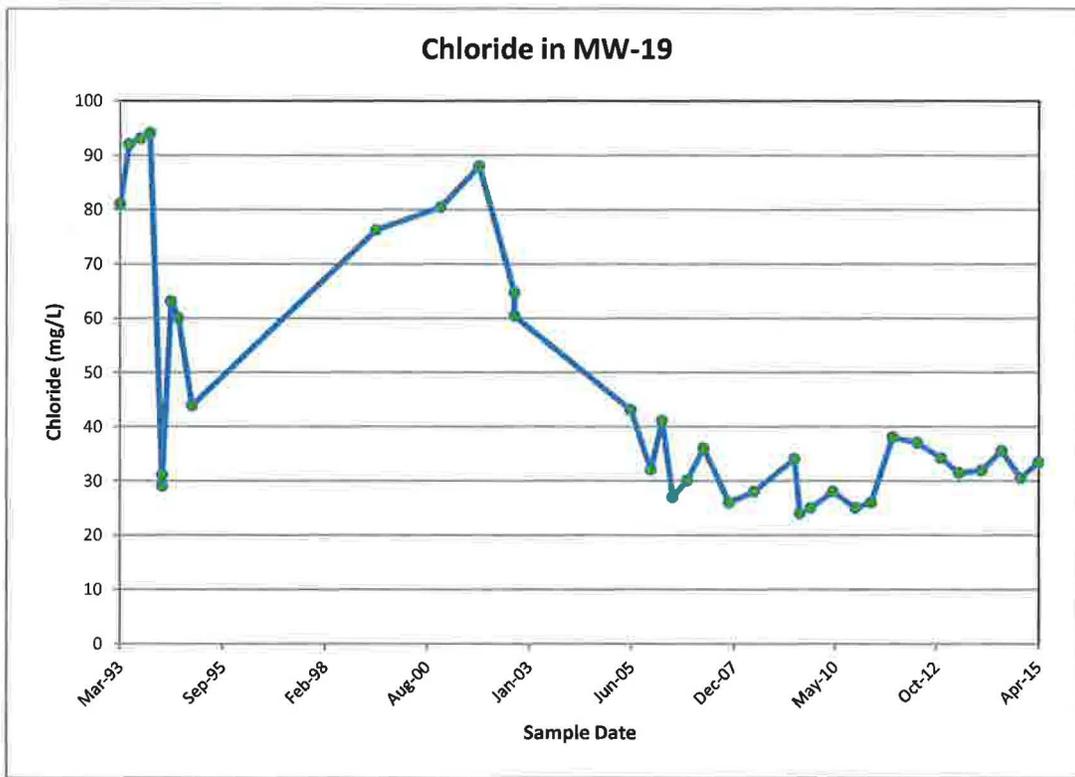
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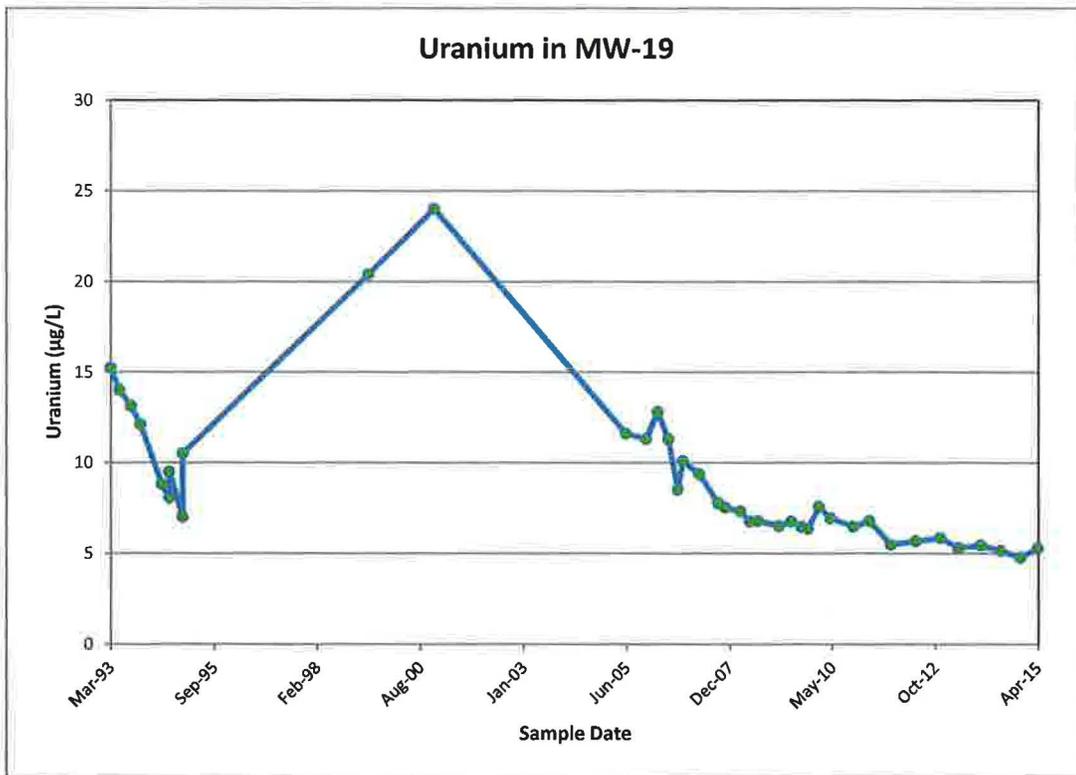
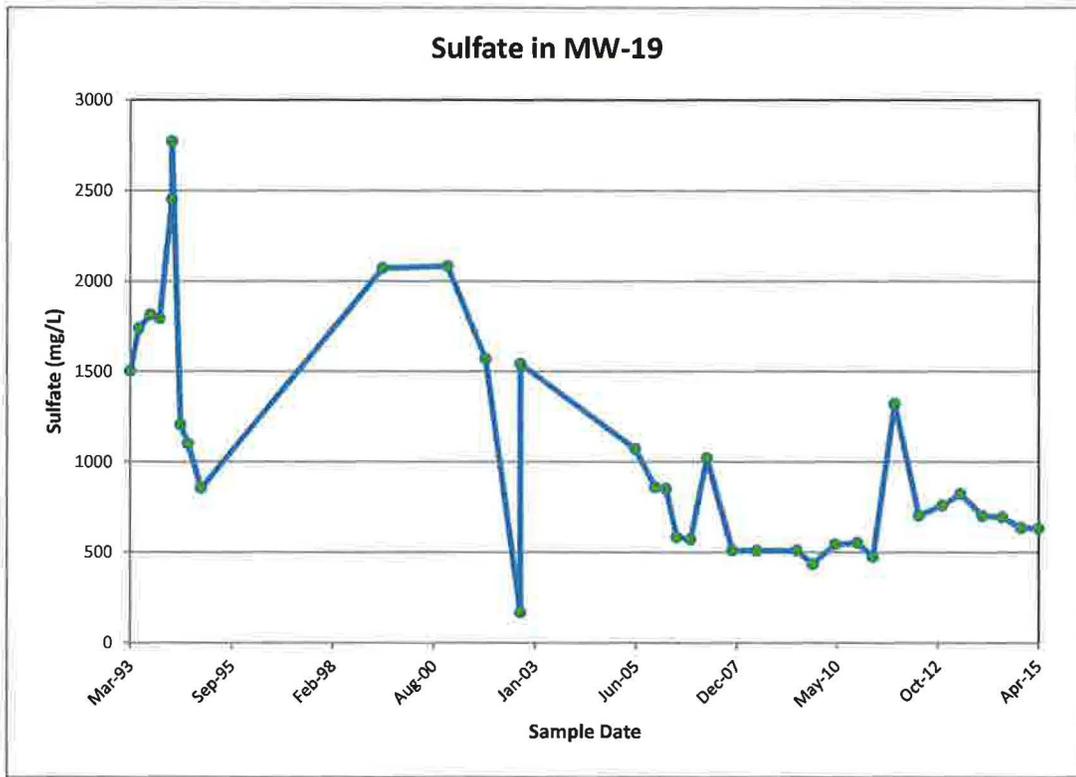
## Time concentration plots for MW-18



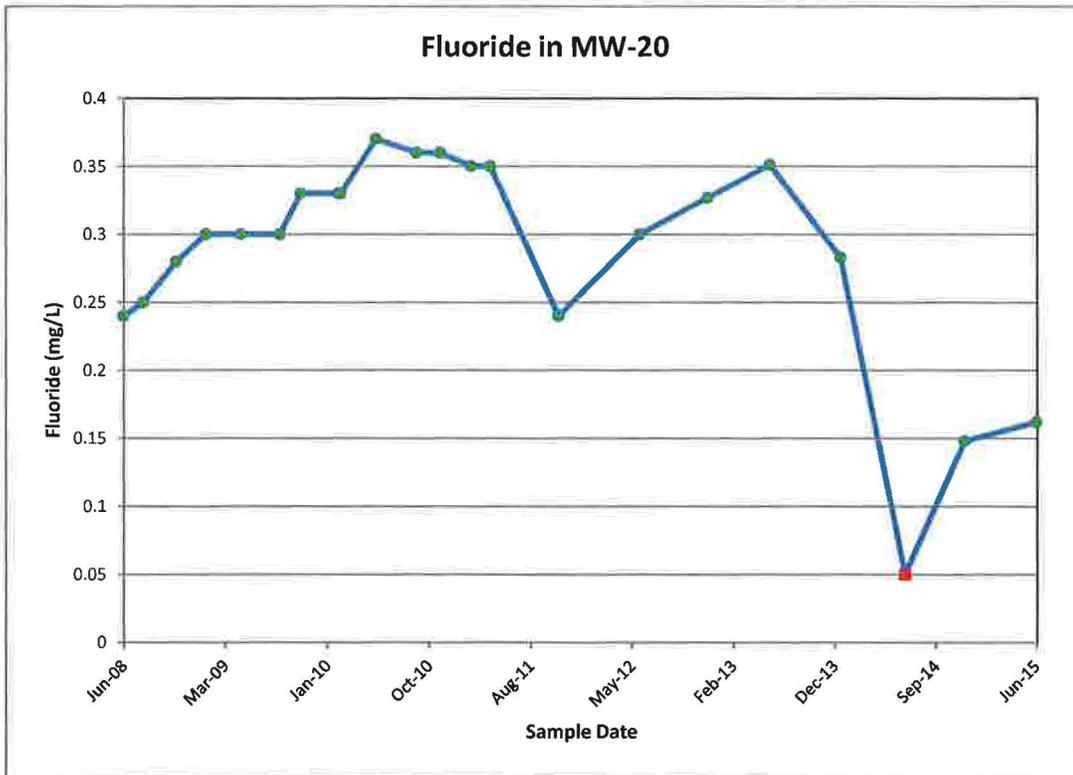
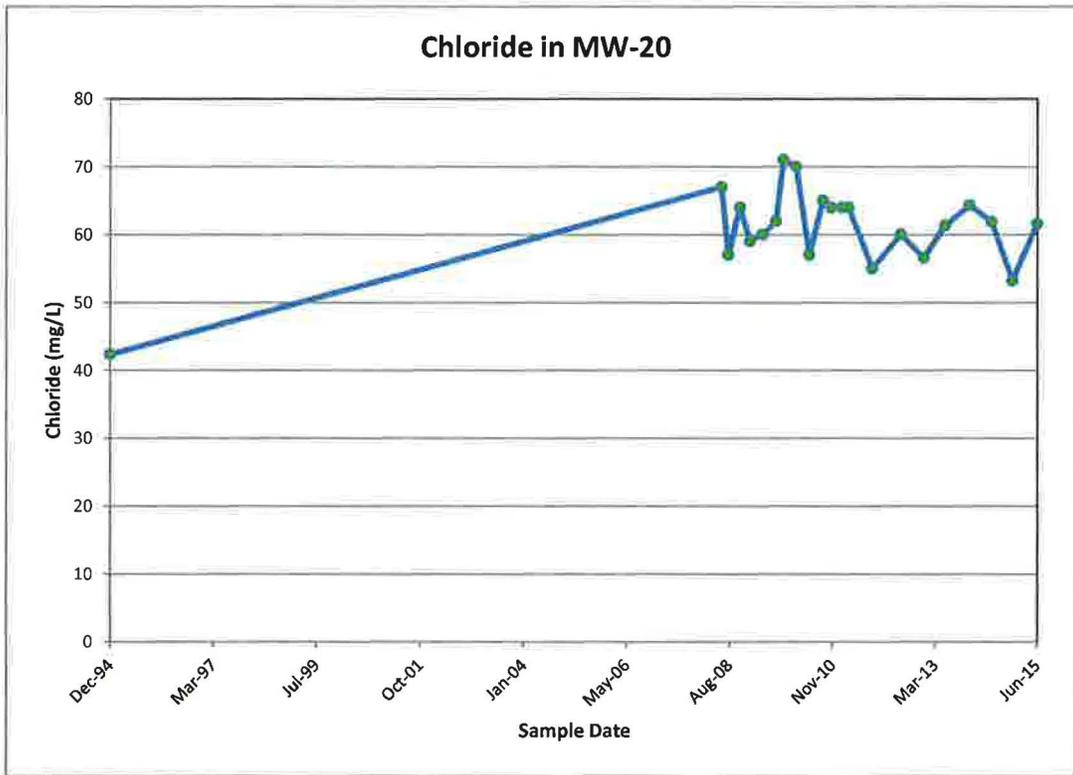
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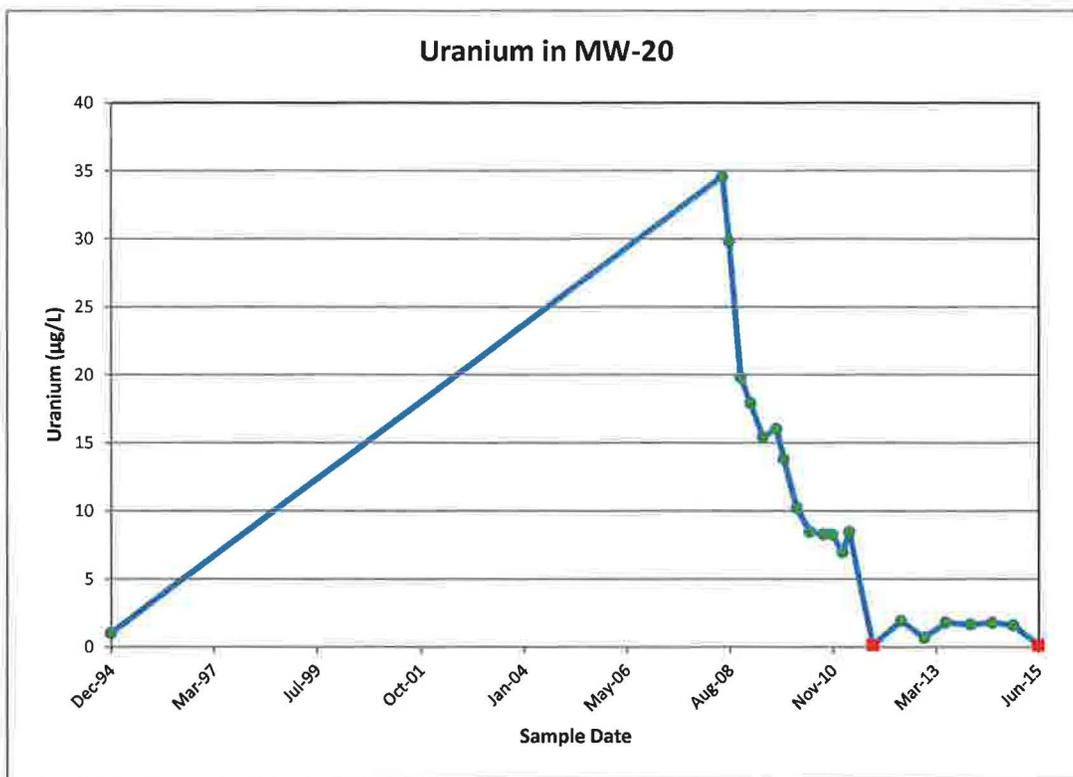
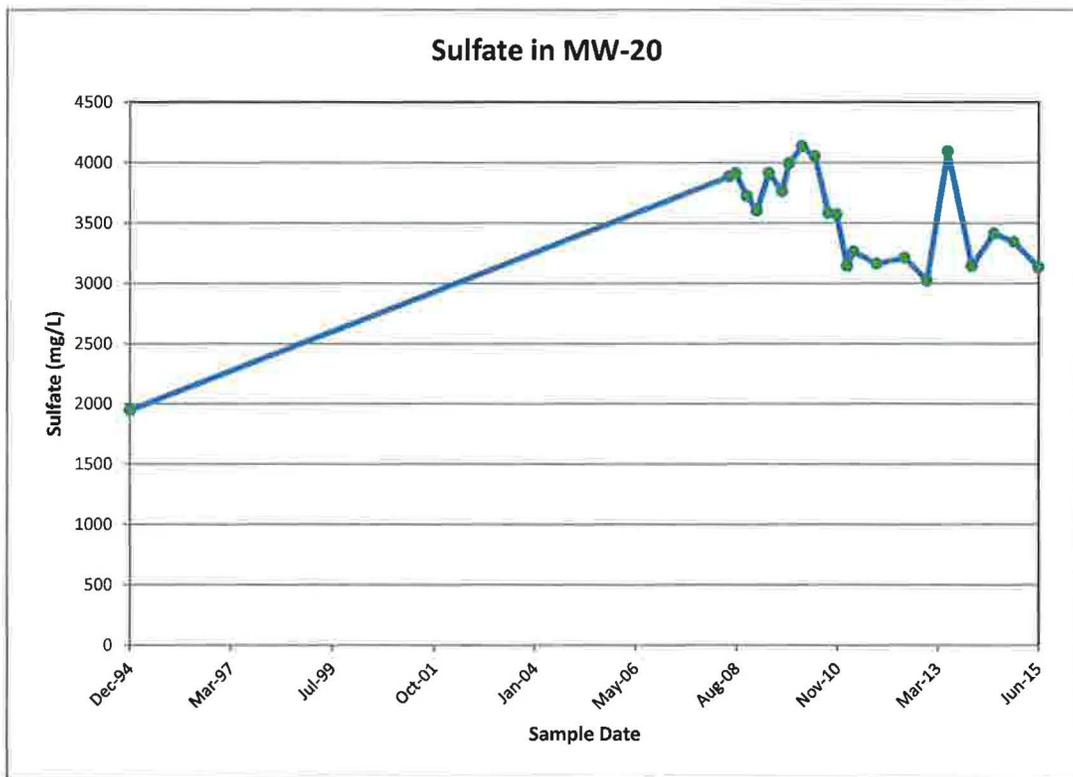
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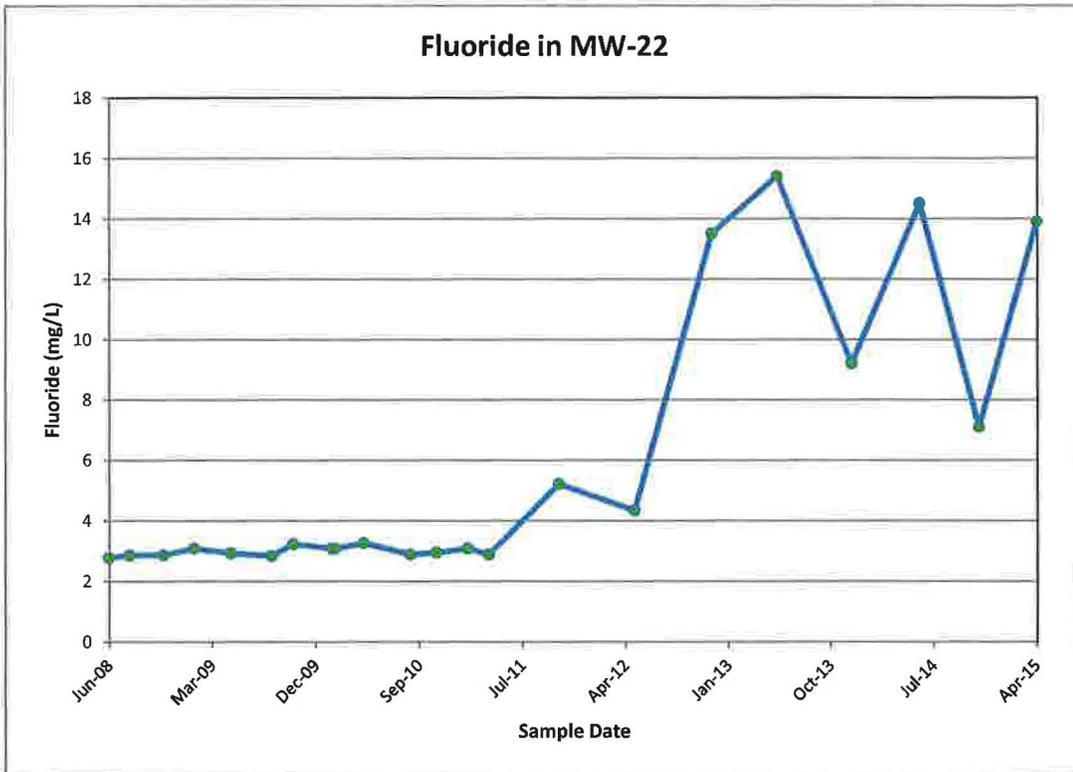
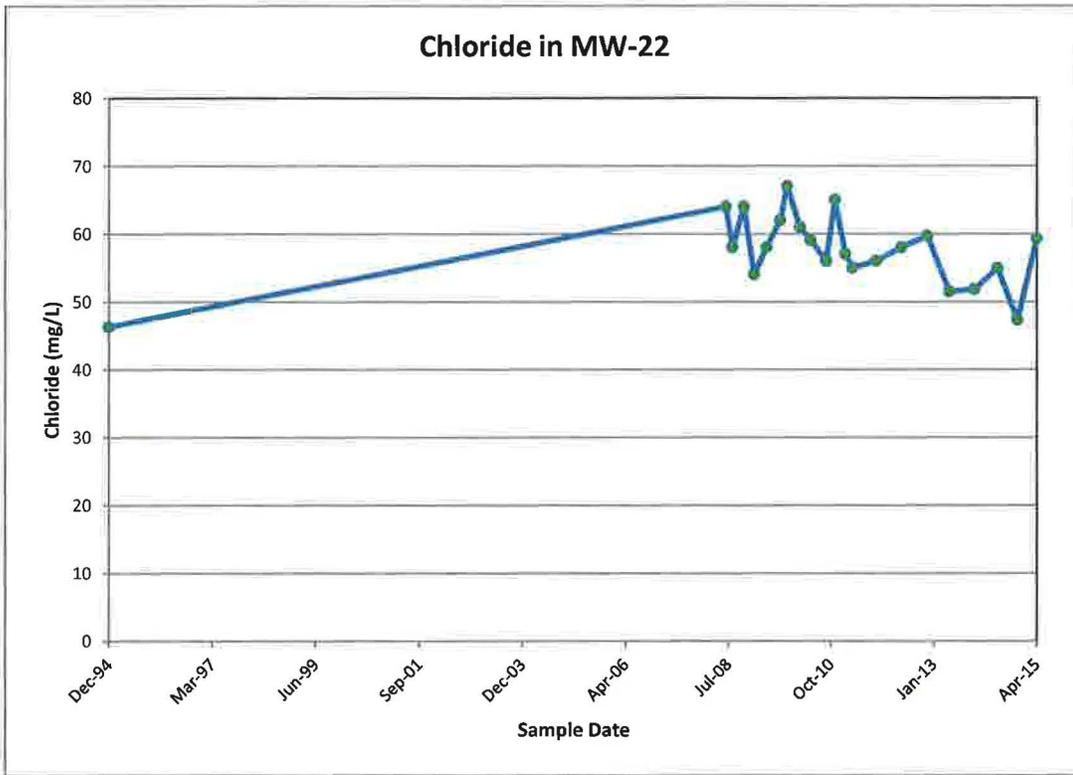
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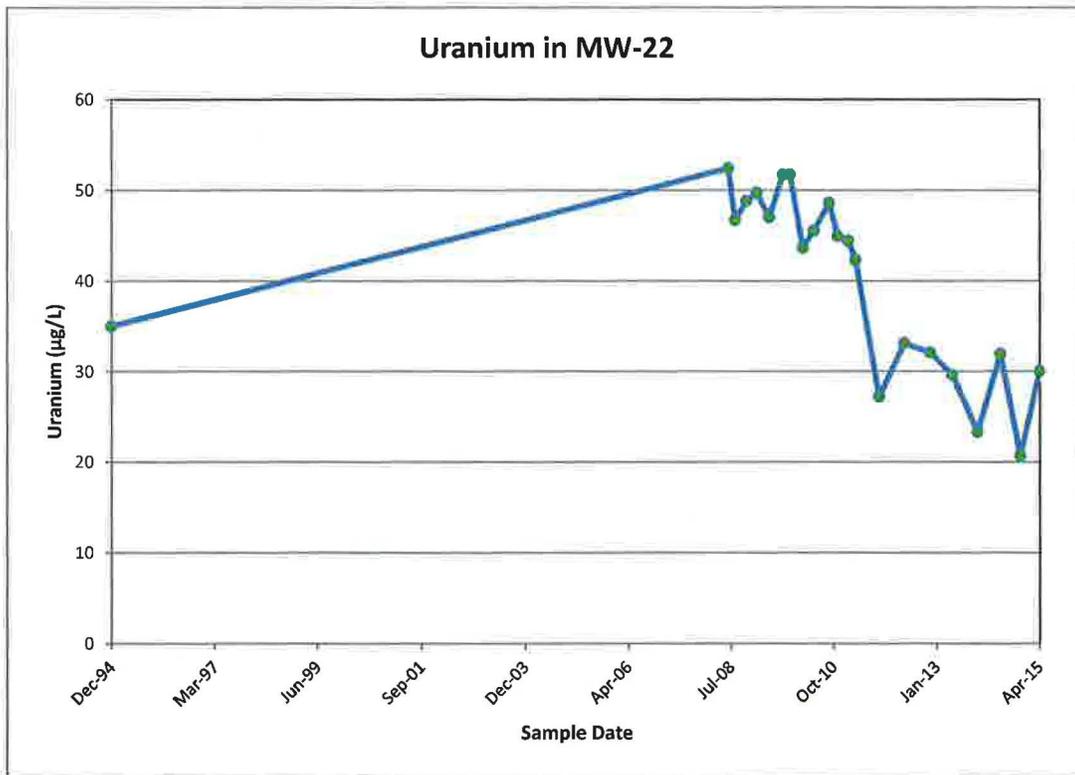
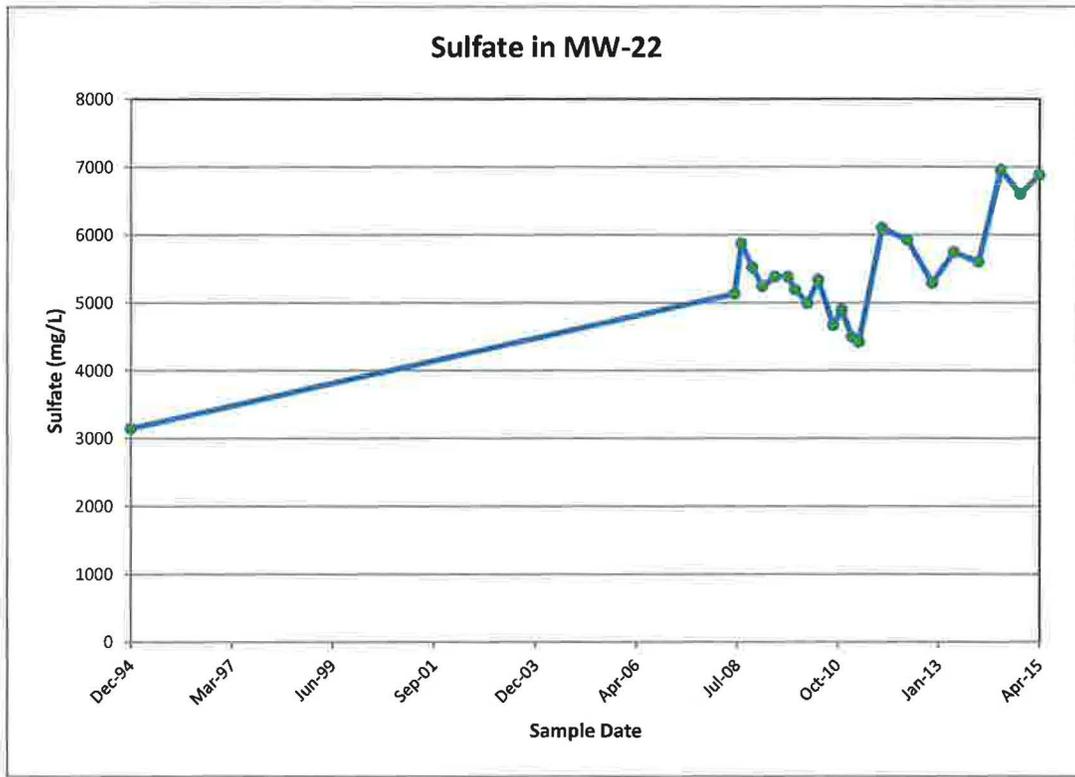
### Time concentration plots for MW-20



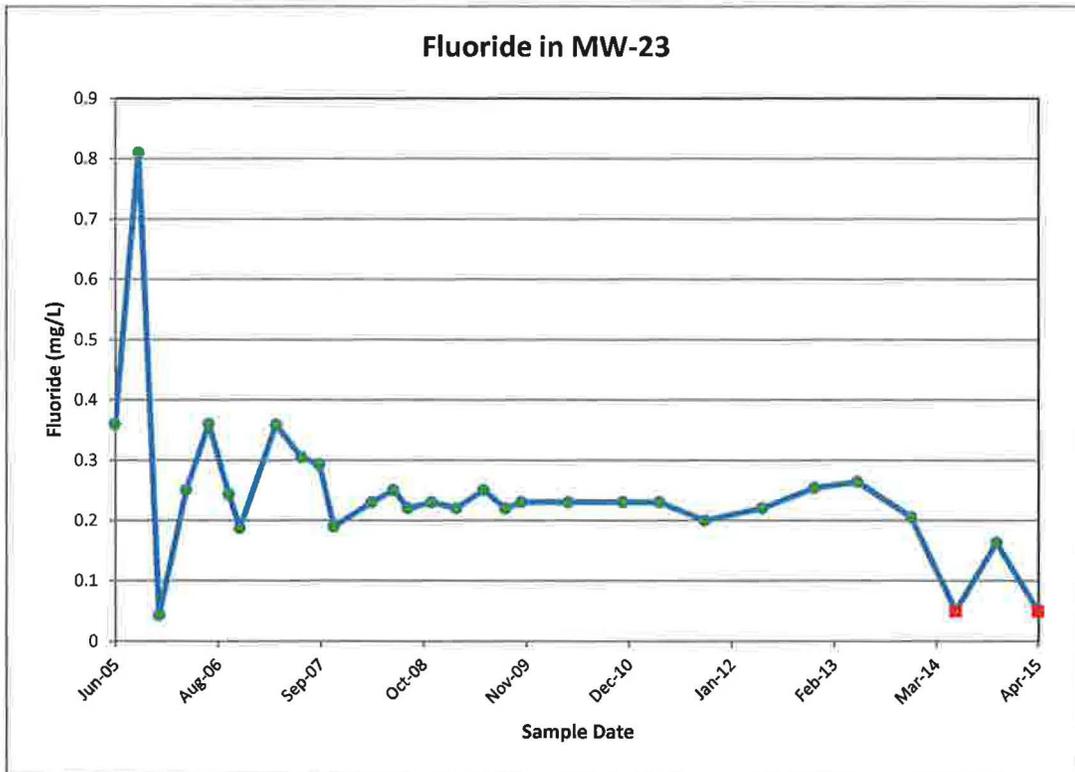
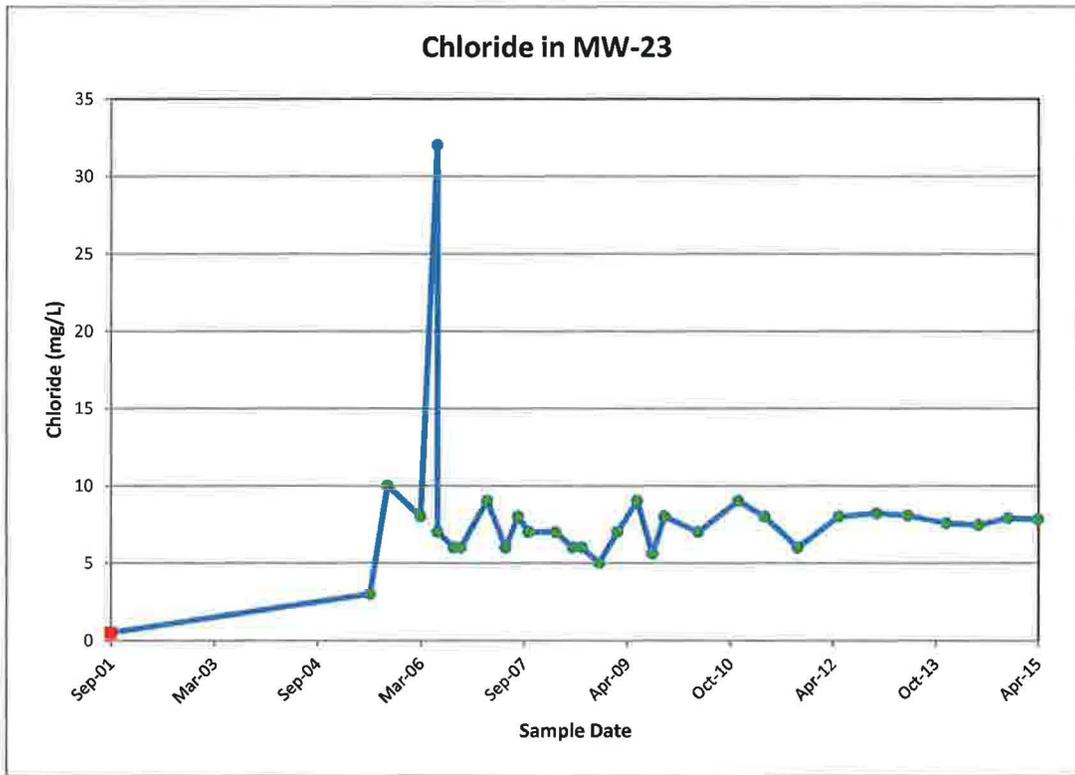
## Time concentration plots for MW-22



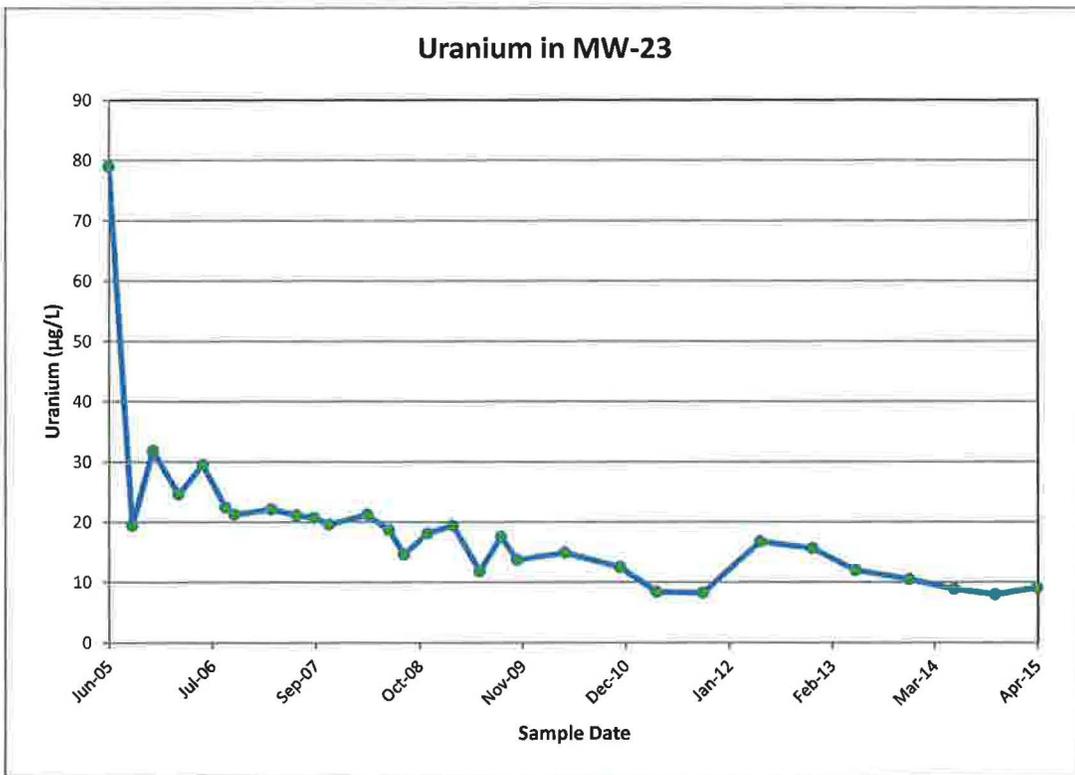
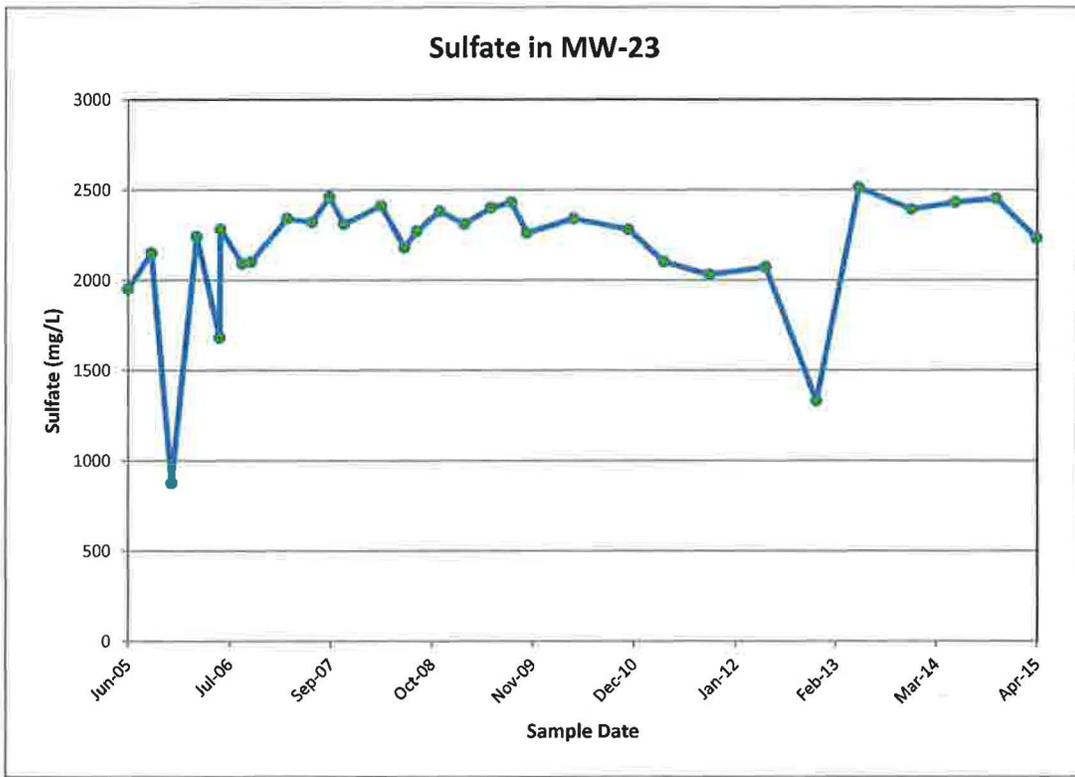
## Time concentration plots for MW-22



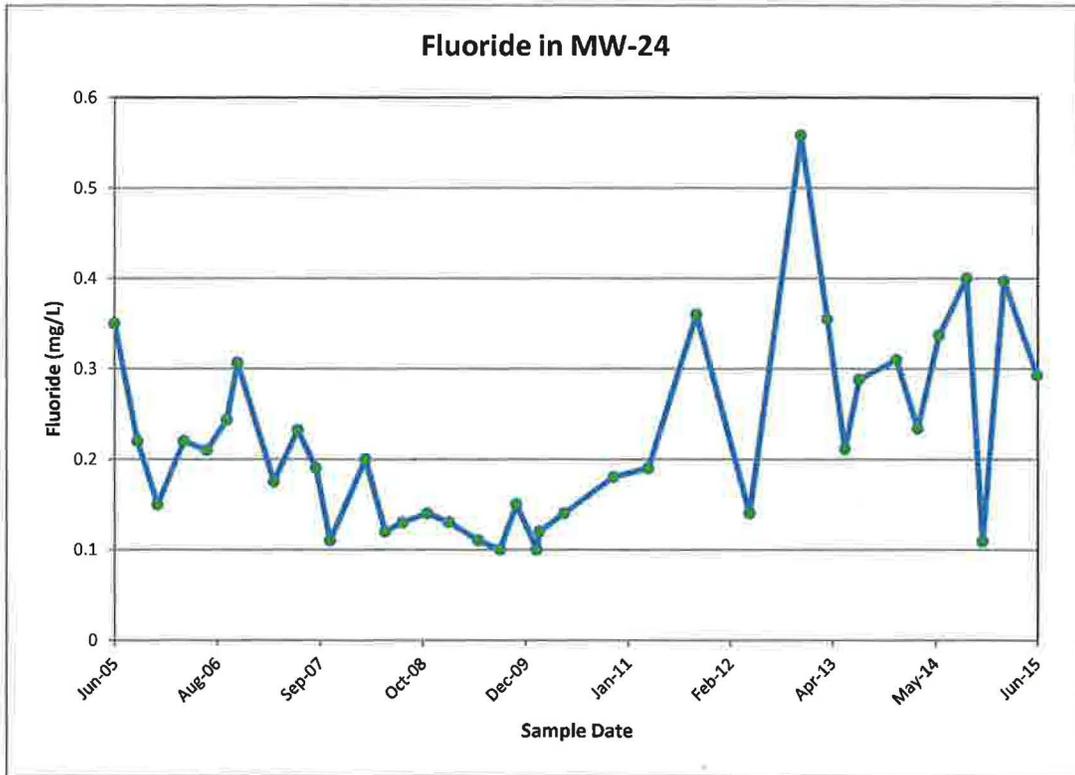
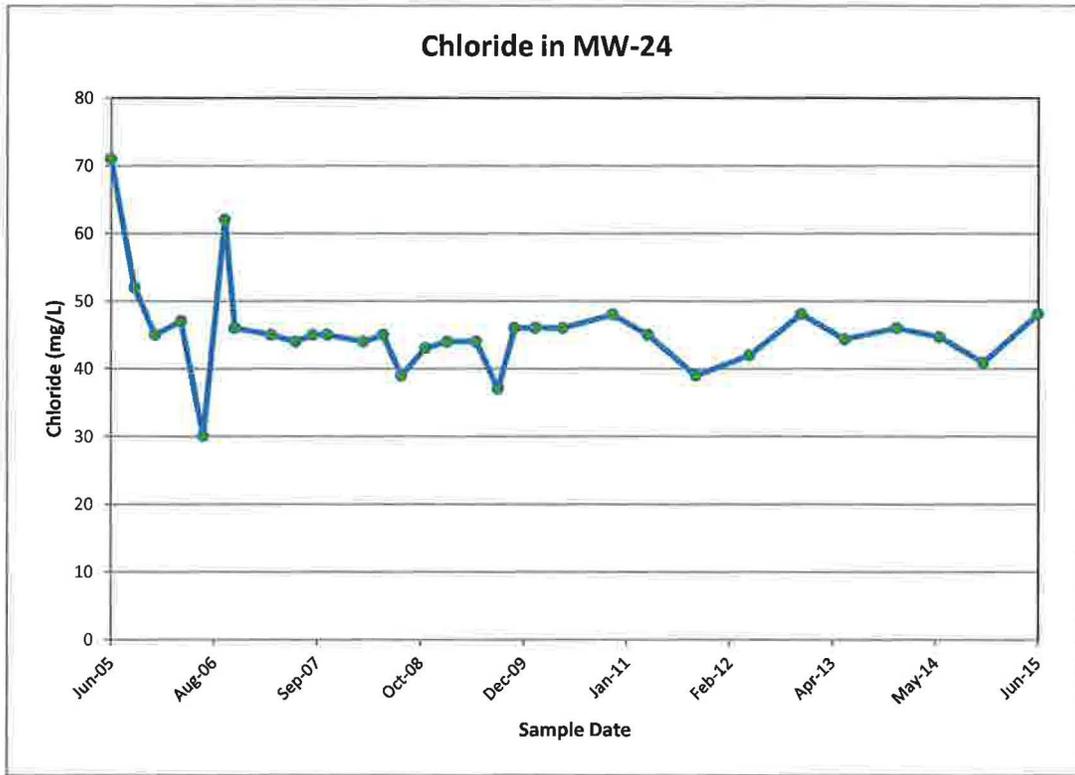
### Time concentration plots for MW-23



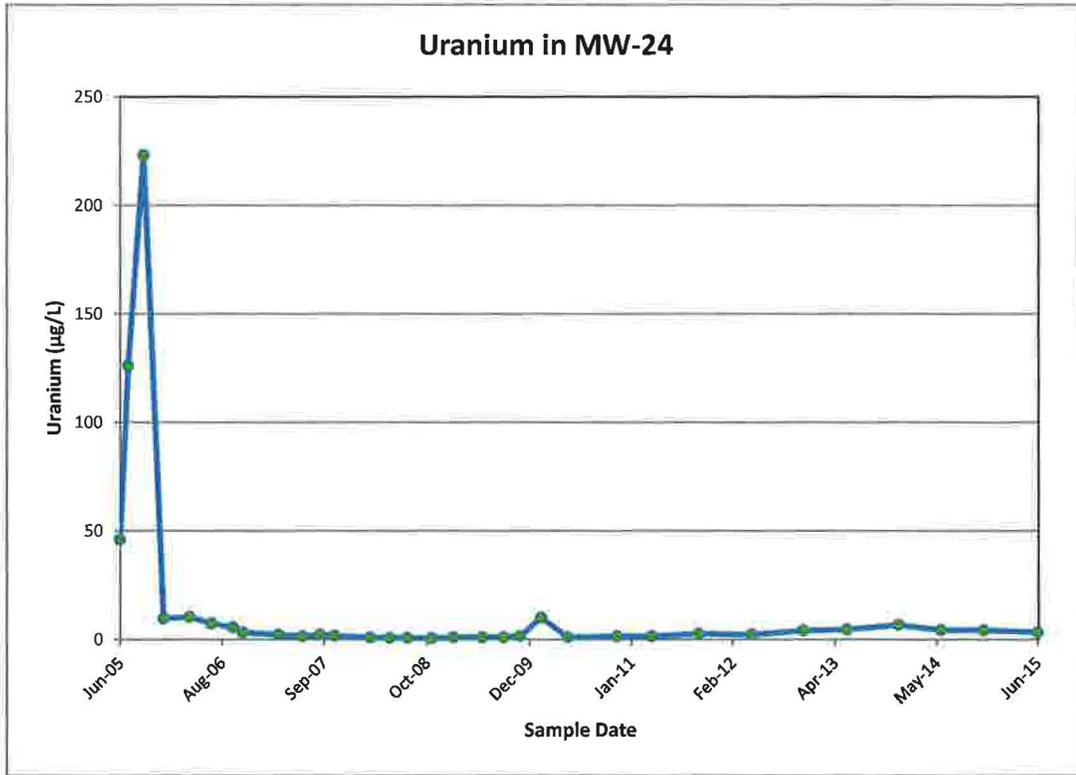
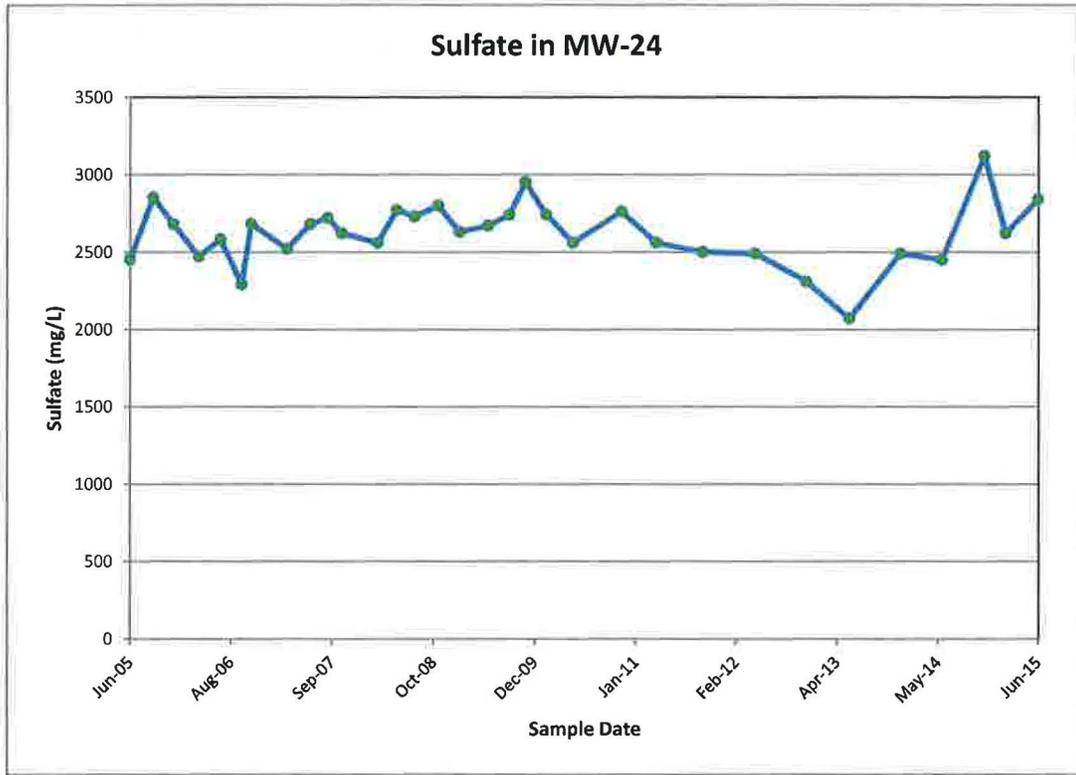
### Time concentration plots for MW-23



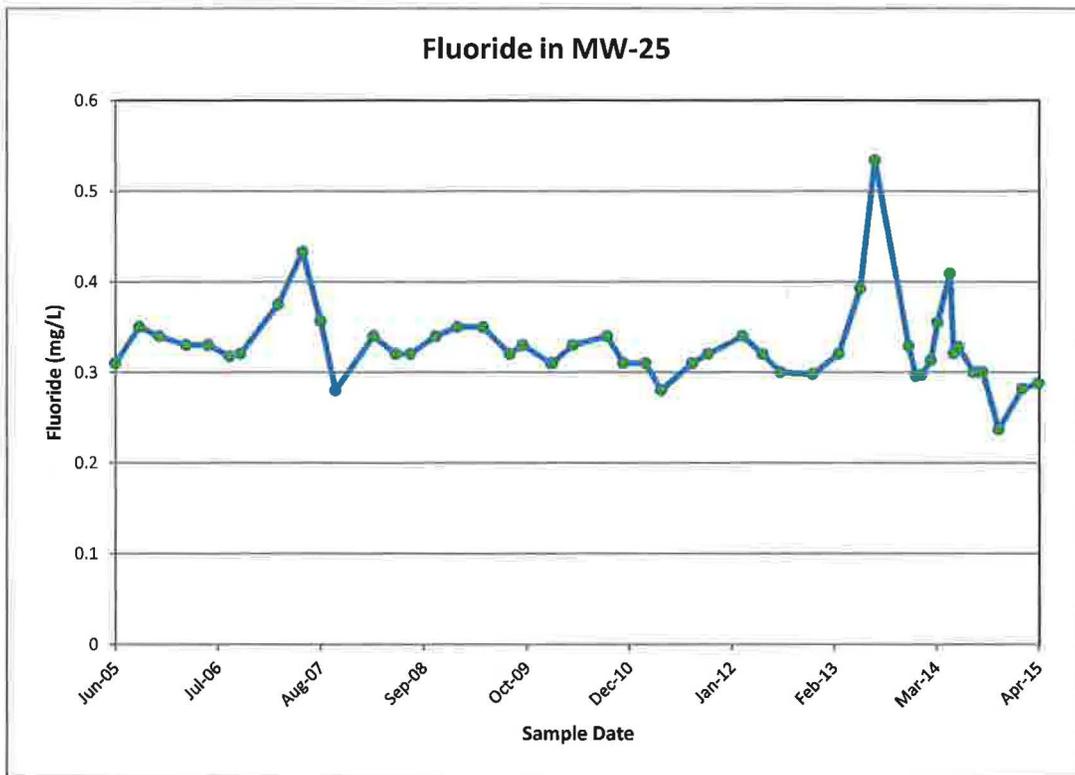
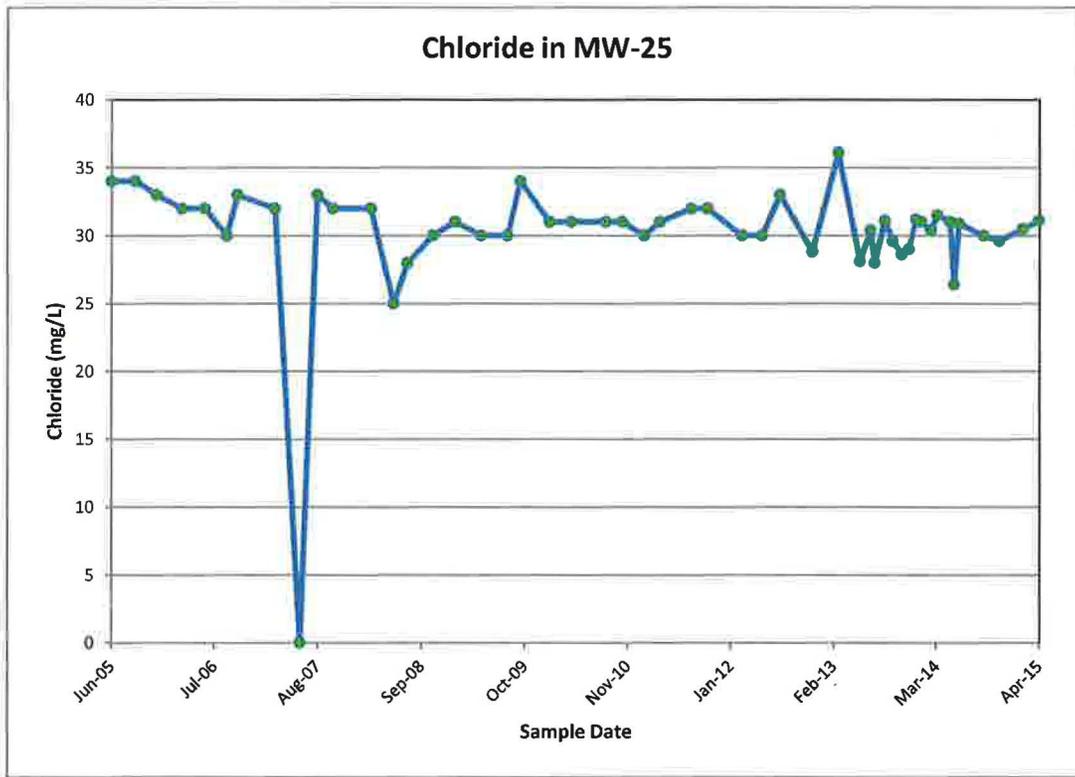
### Time concentration plots for MW-24



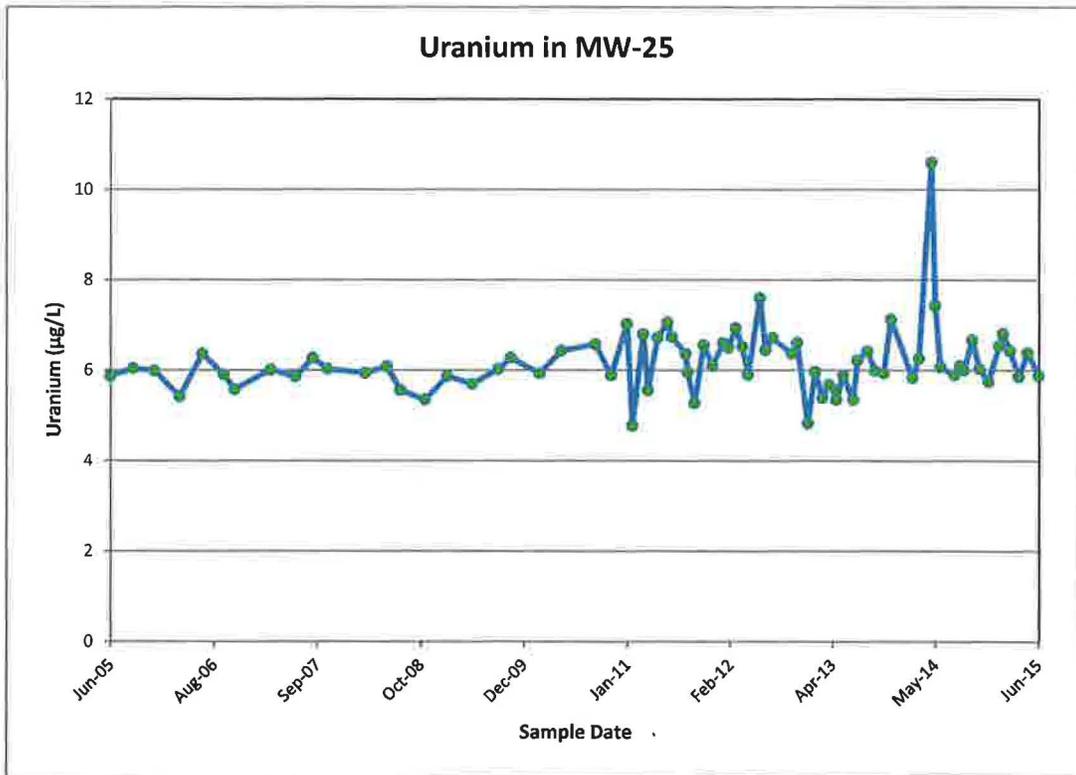
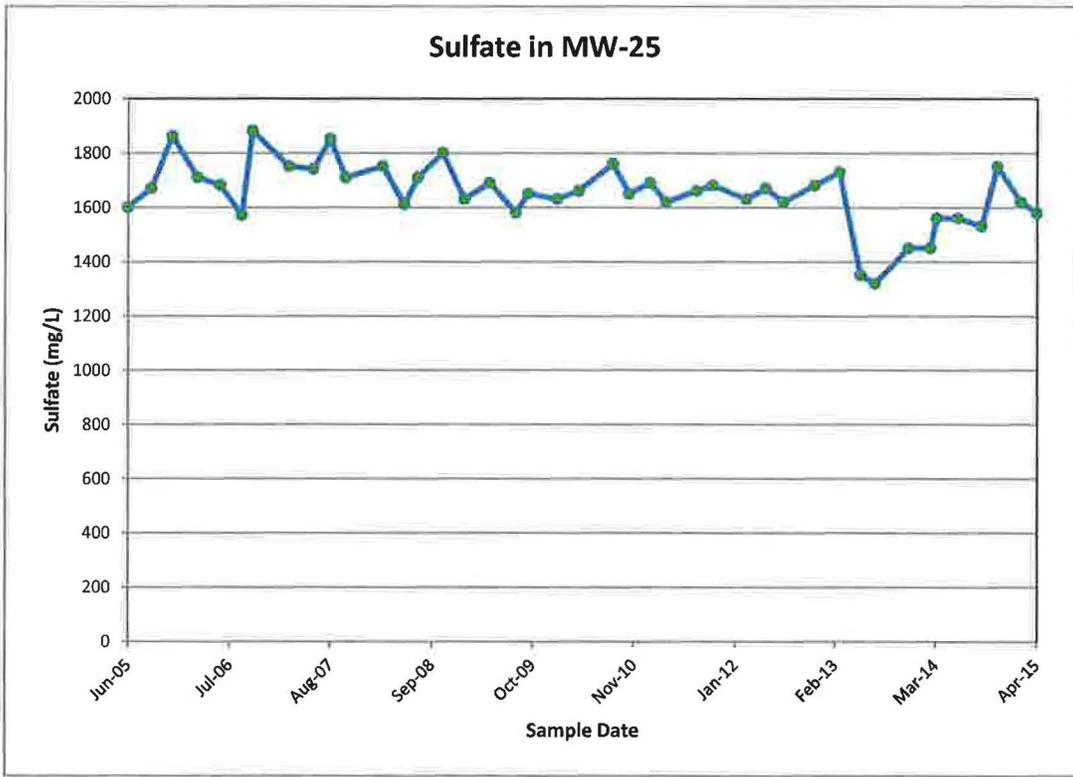
## Time concentration plots for MW-24



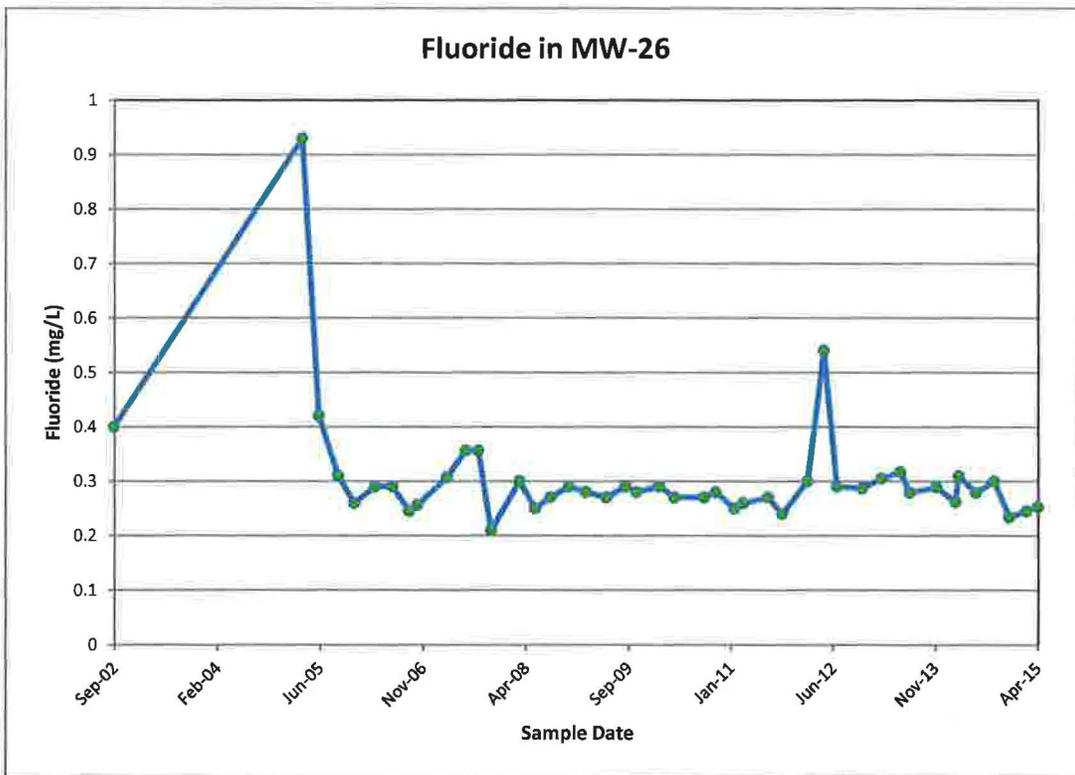
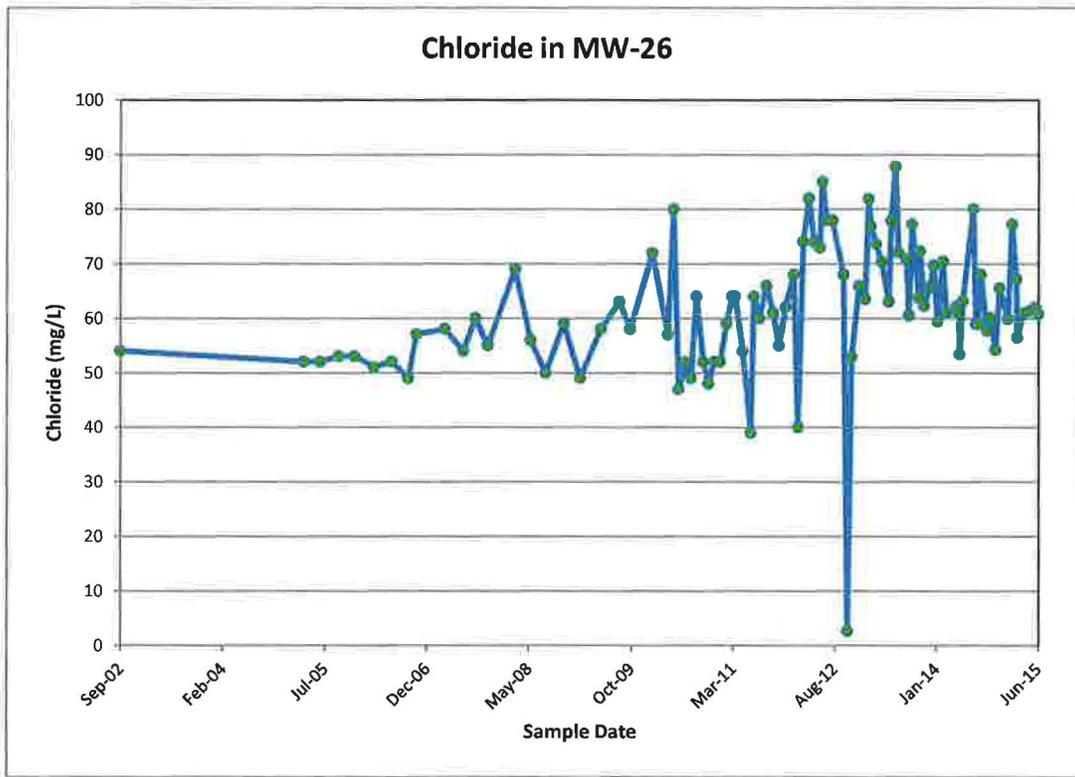
## Time concentration plots for MW-25



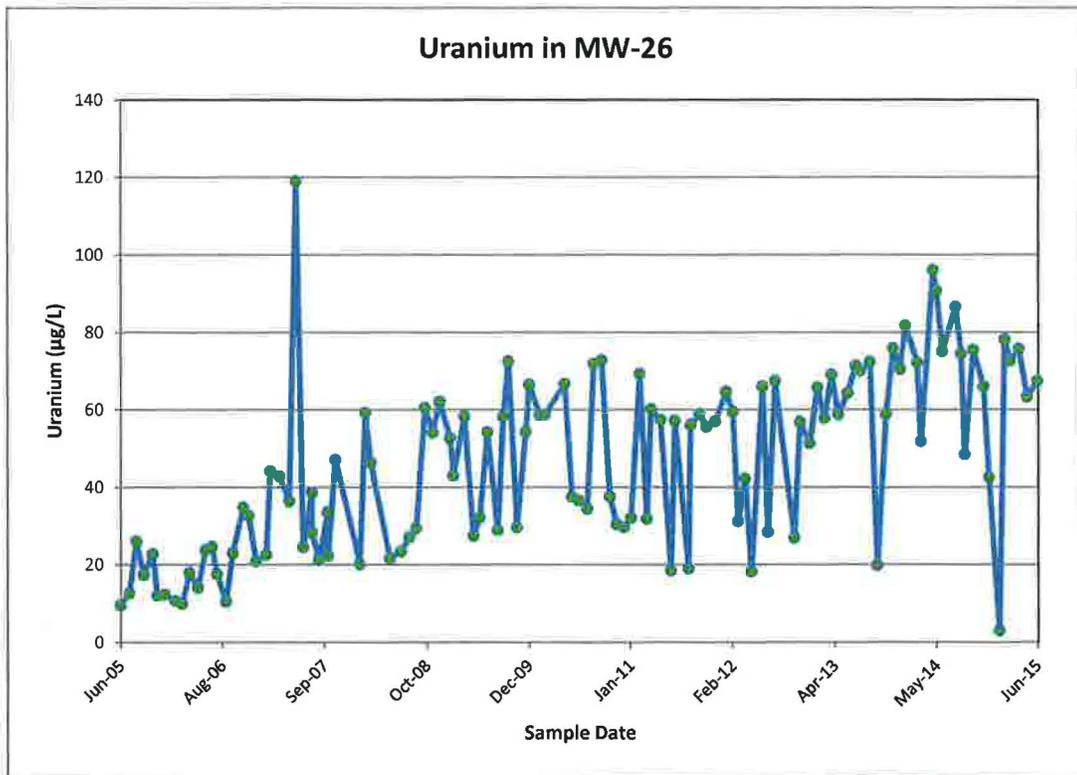
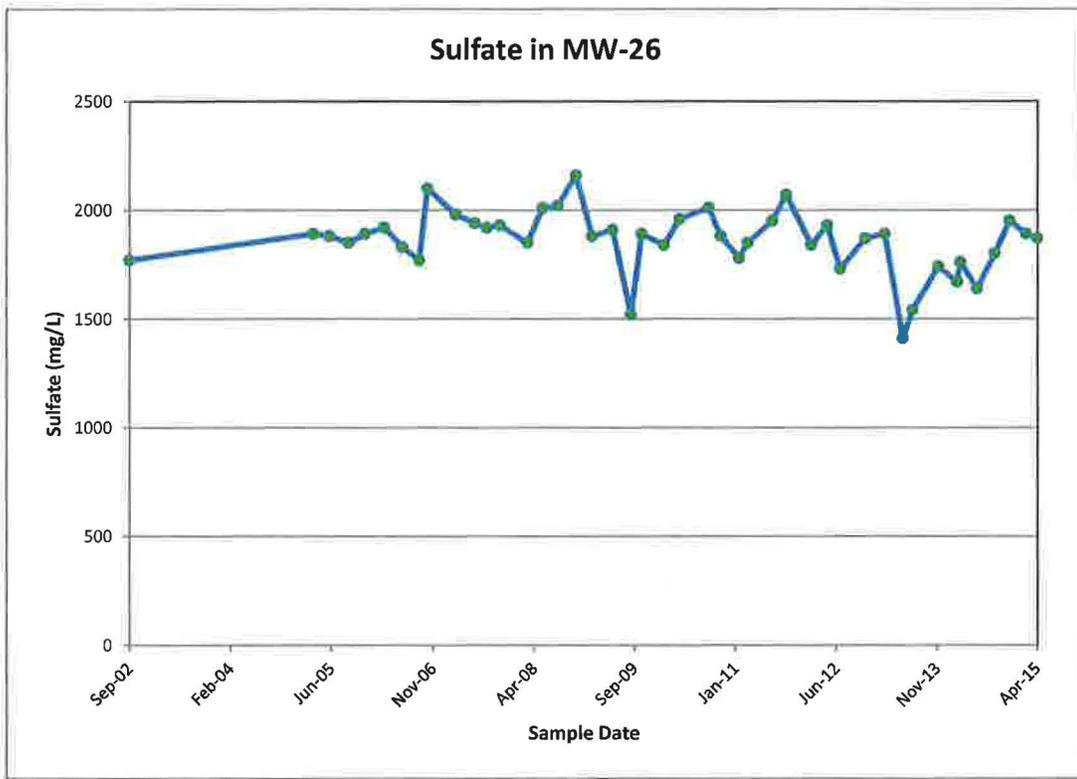
### Time concentration plots for MW-25



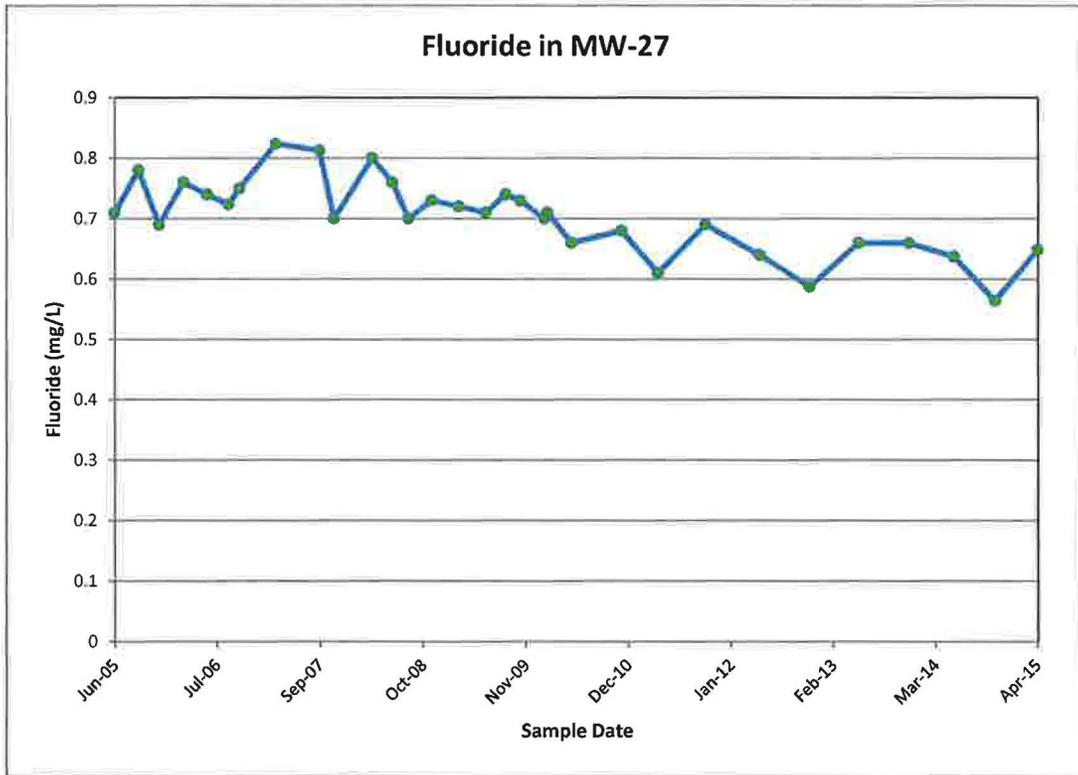
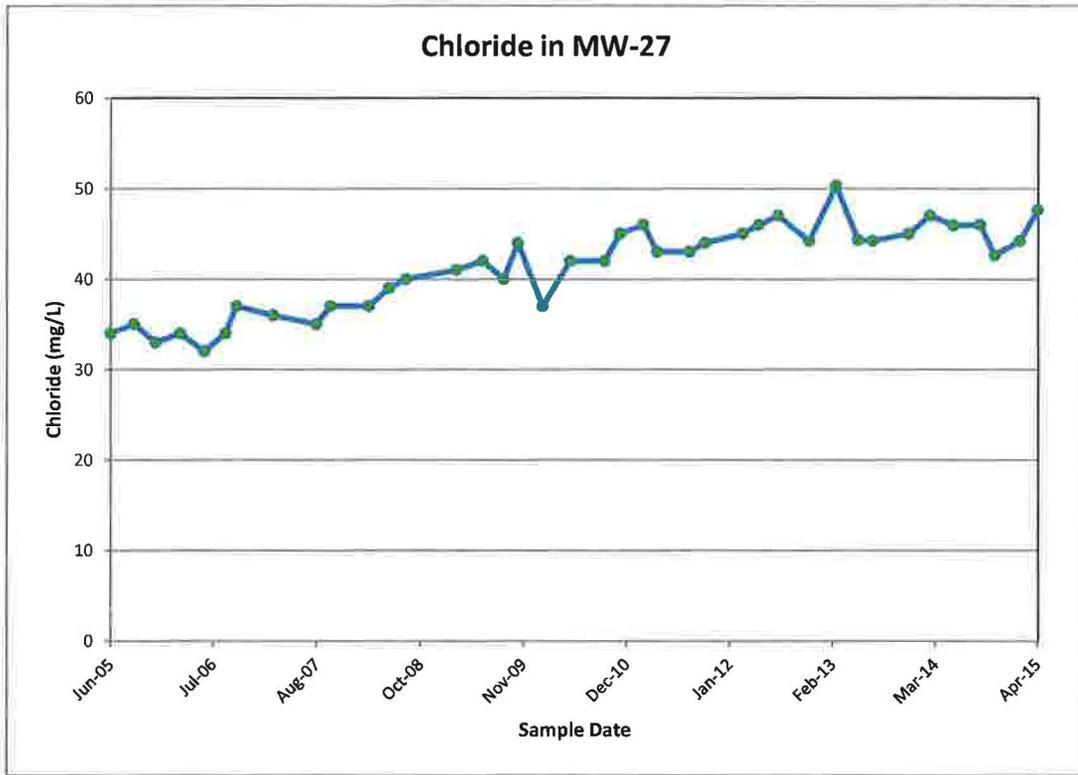
## Time concentration plots for MW-26



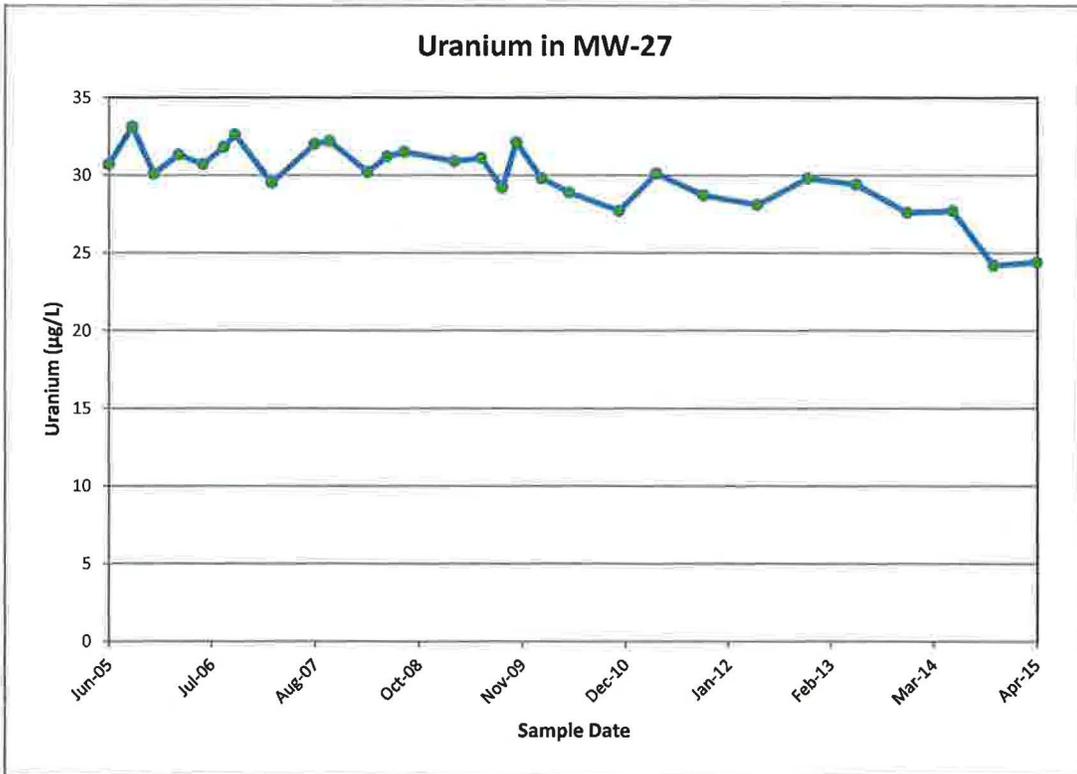
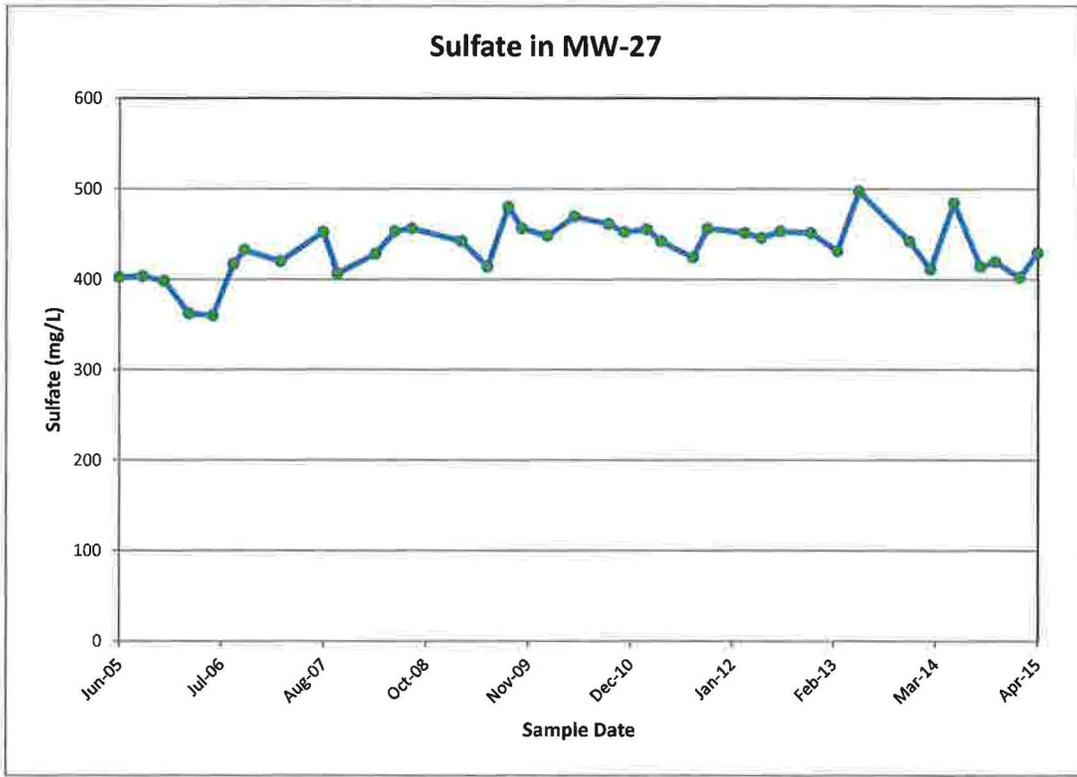
## Time concentration plots for MW-26



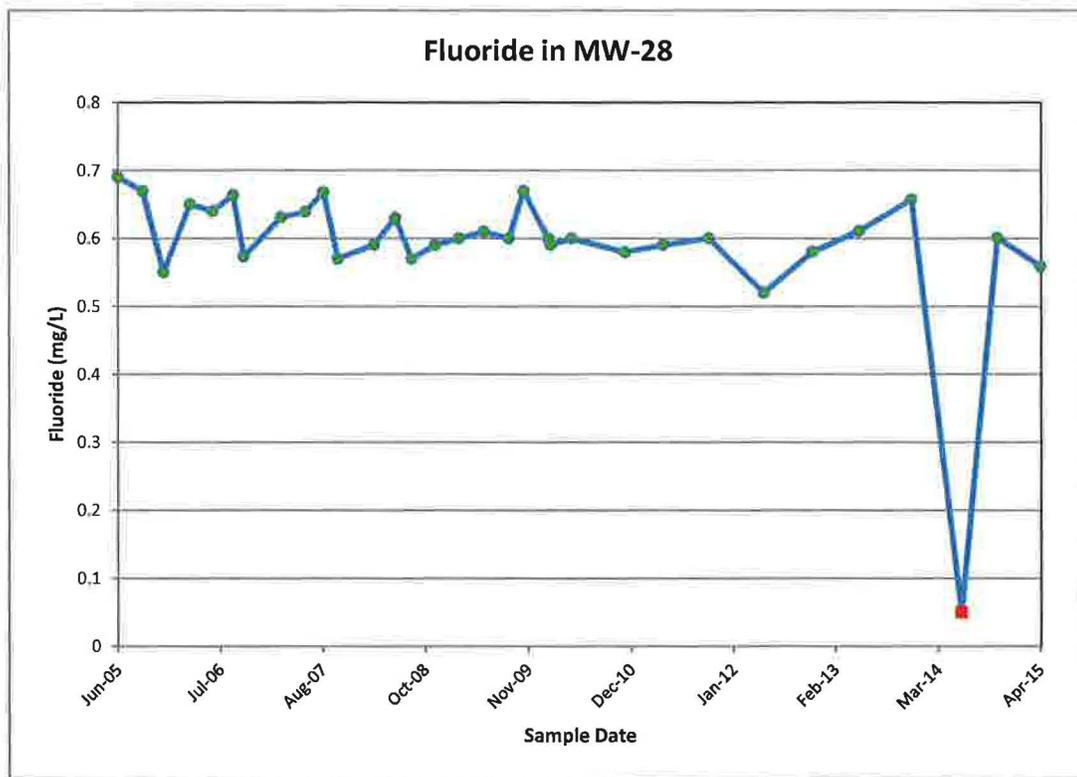
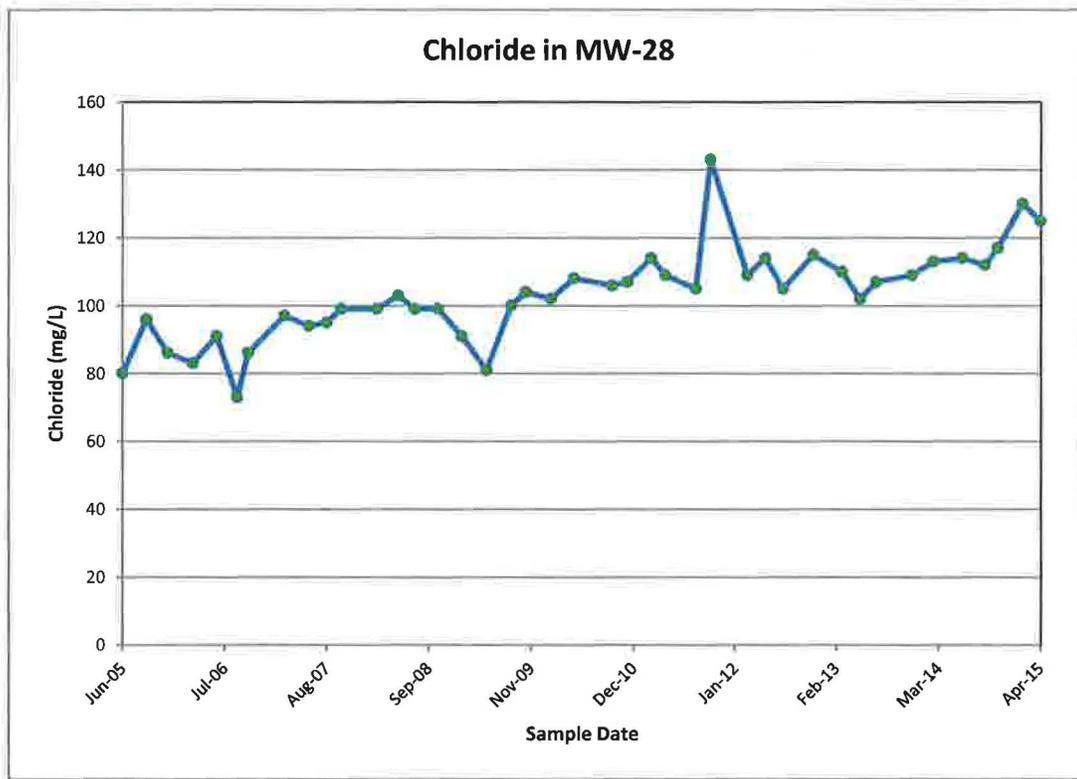
### Time concentration plots for MW-27



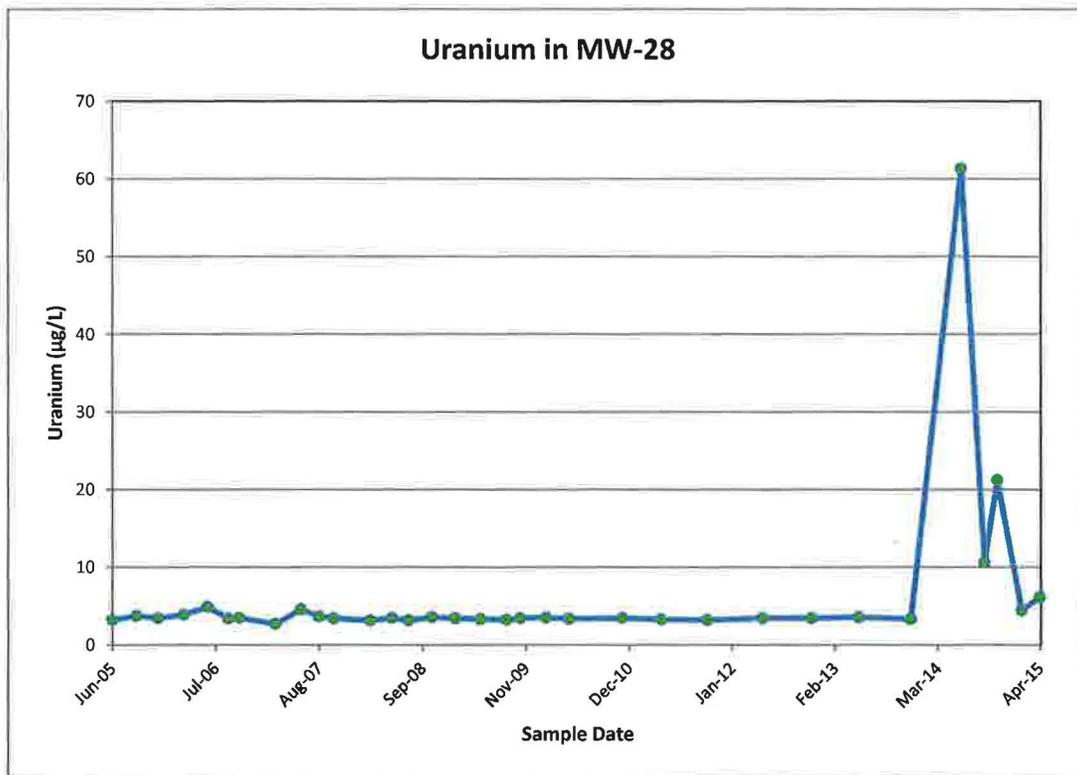
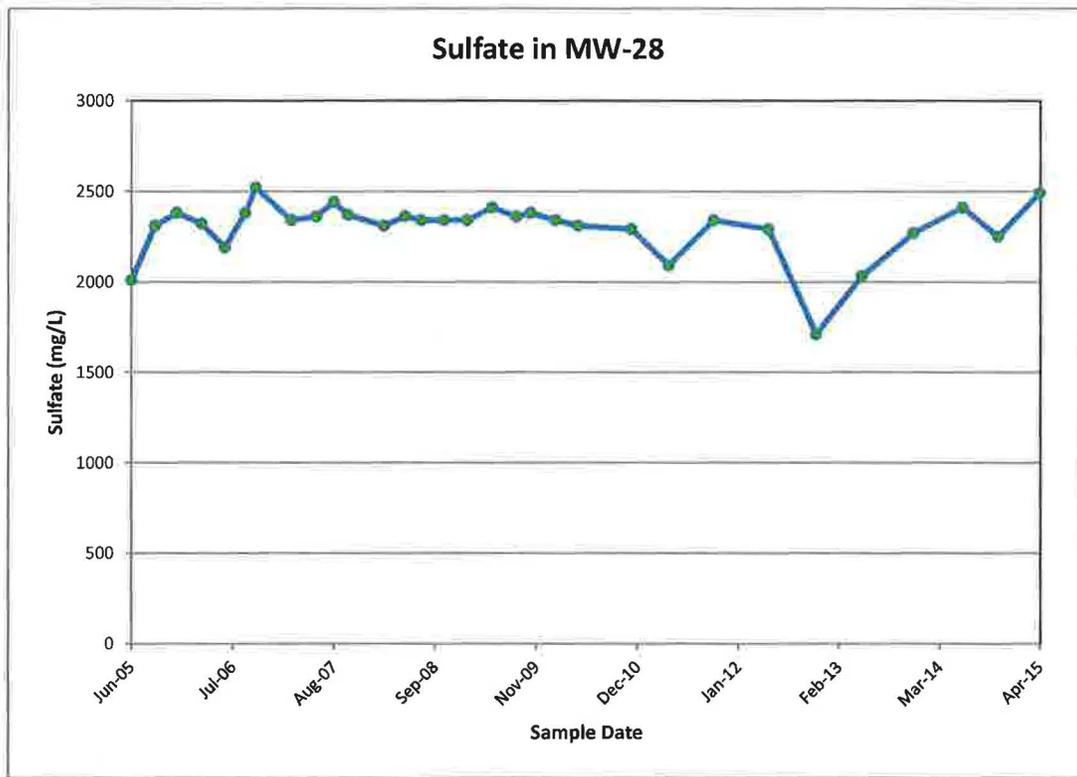
### Time concentration plots for MW-27



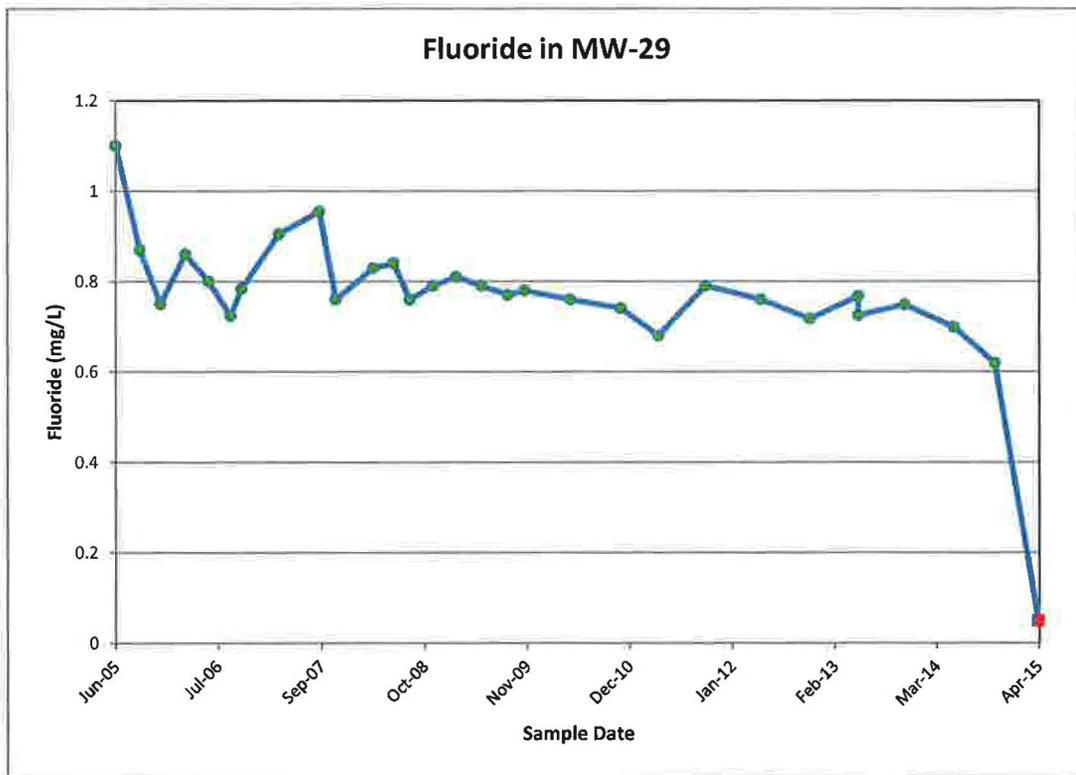
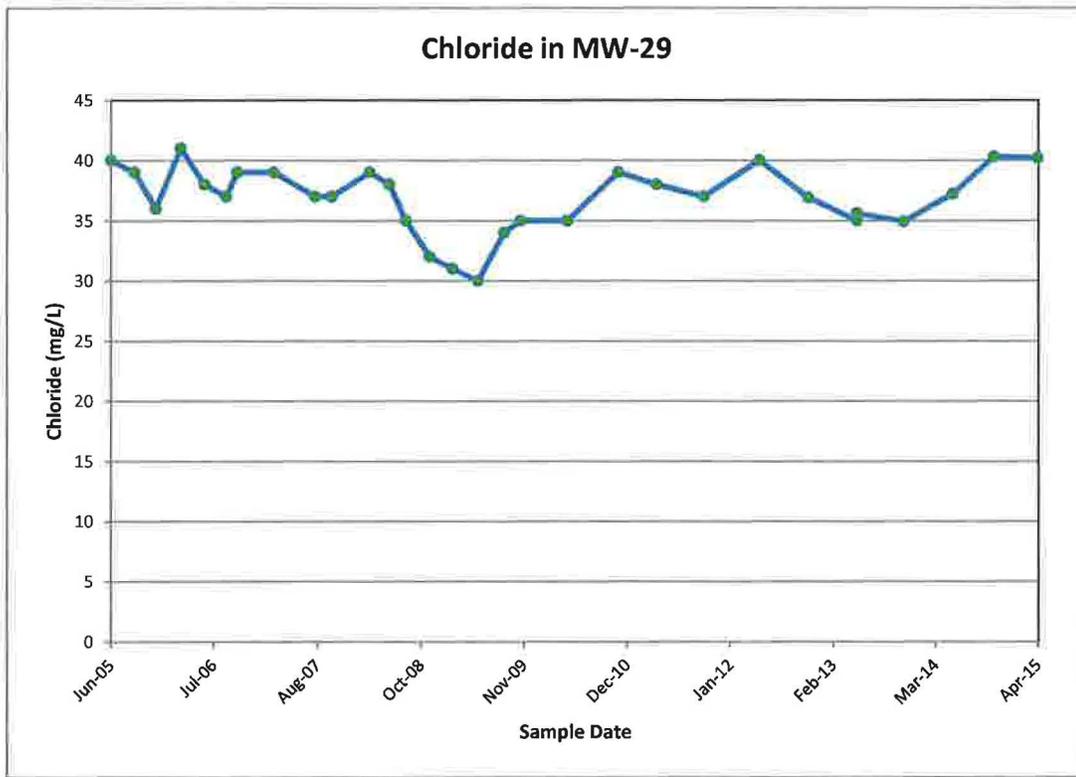
## Time concentration plots for MW-28



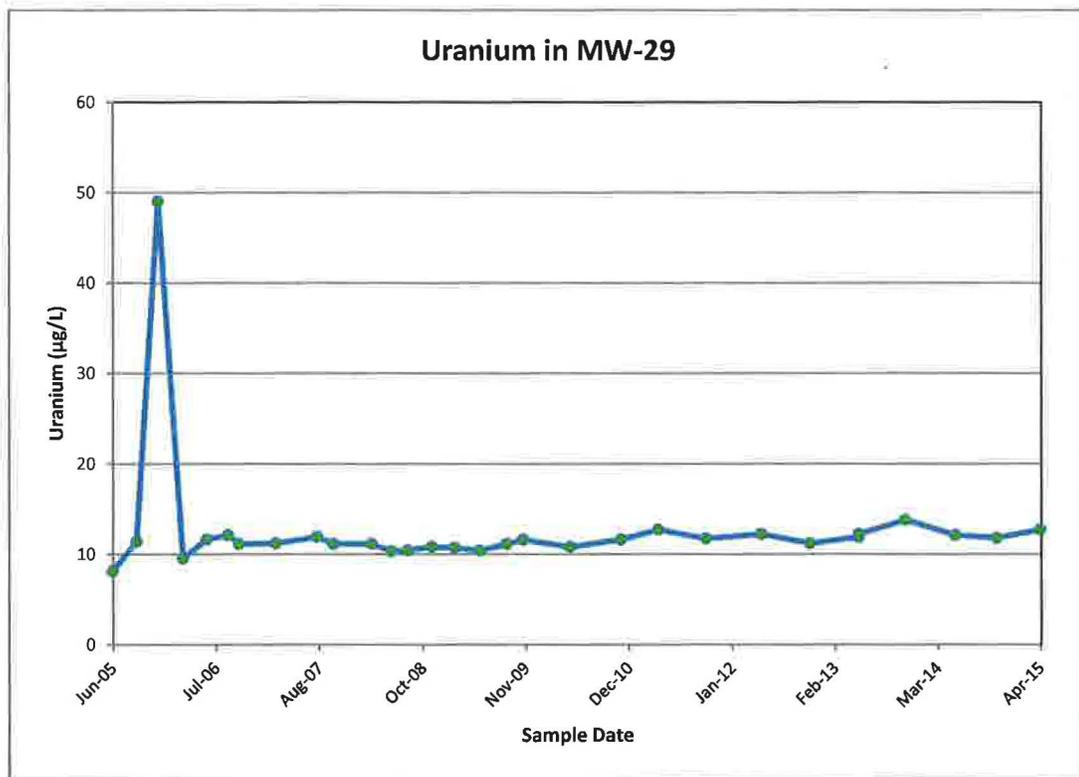
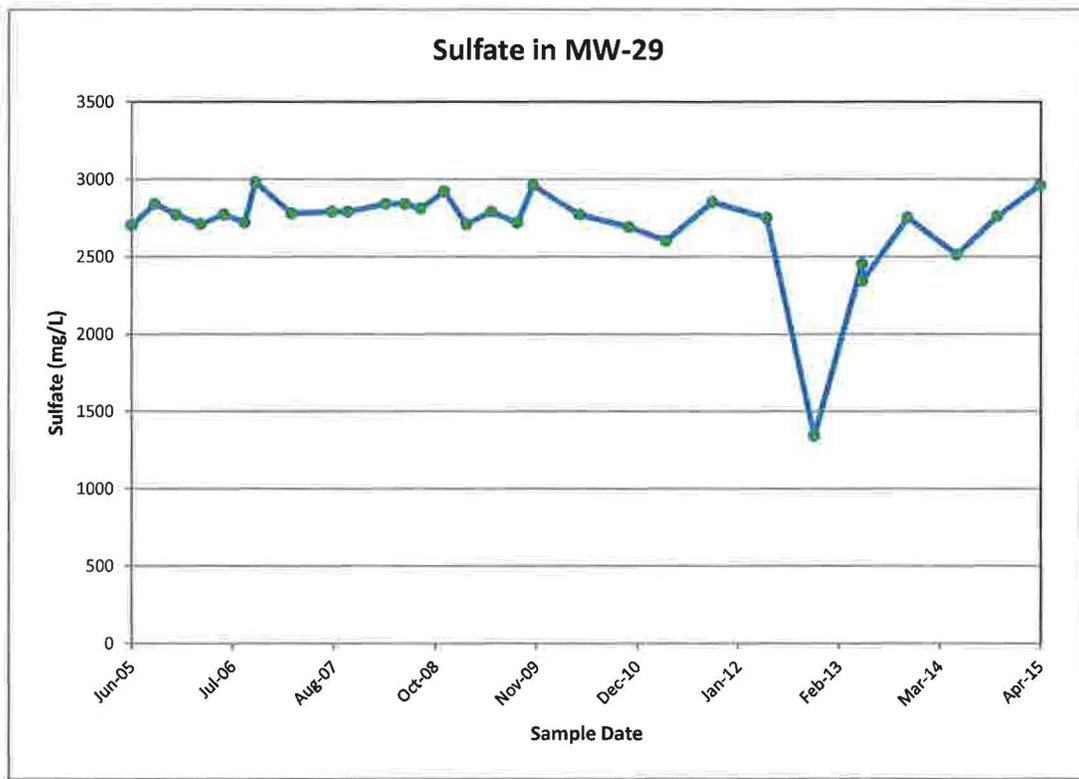
### Time concentration plots for MW-28



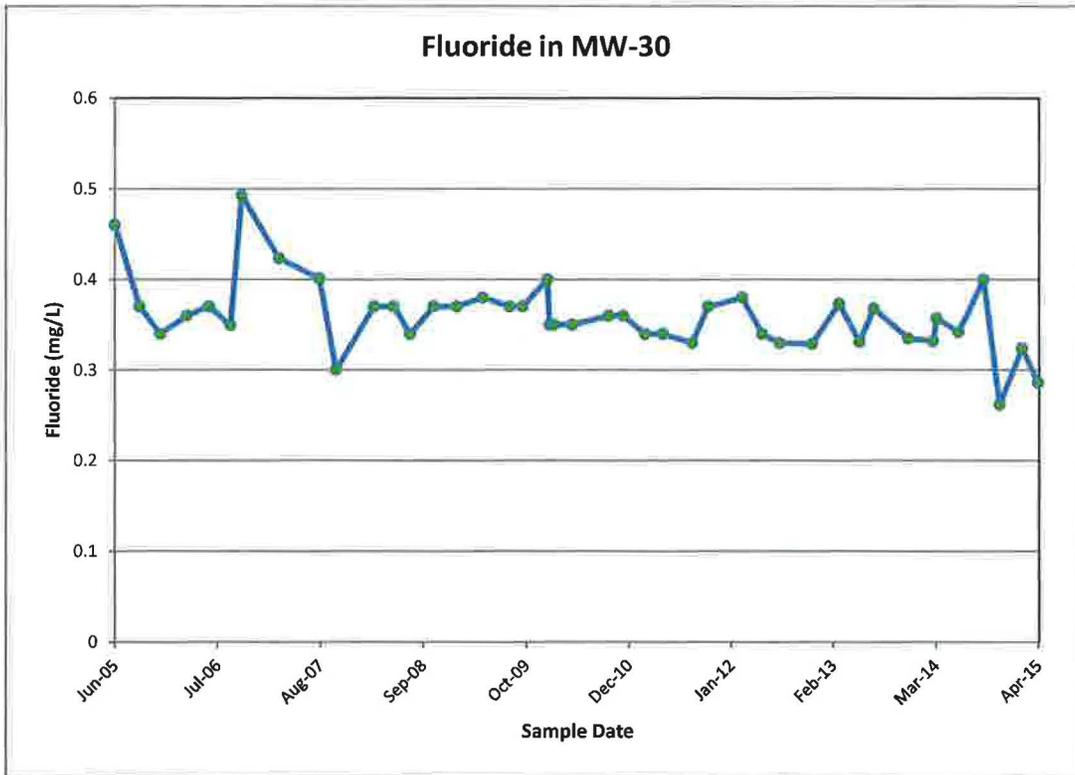
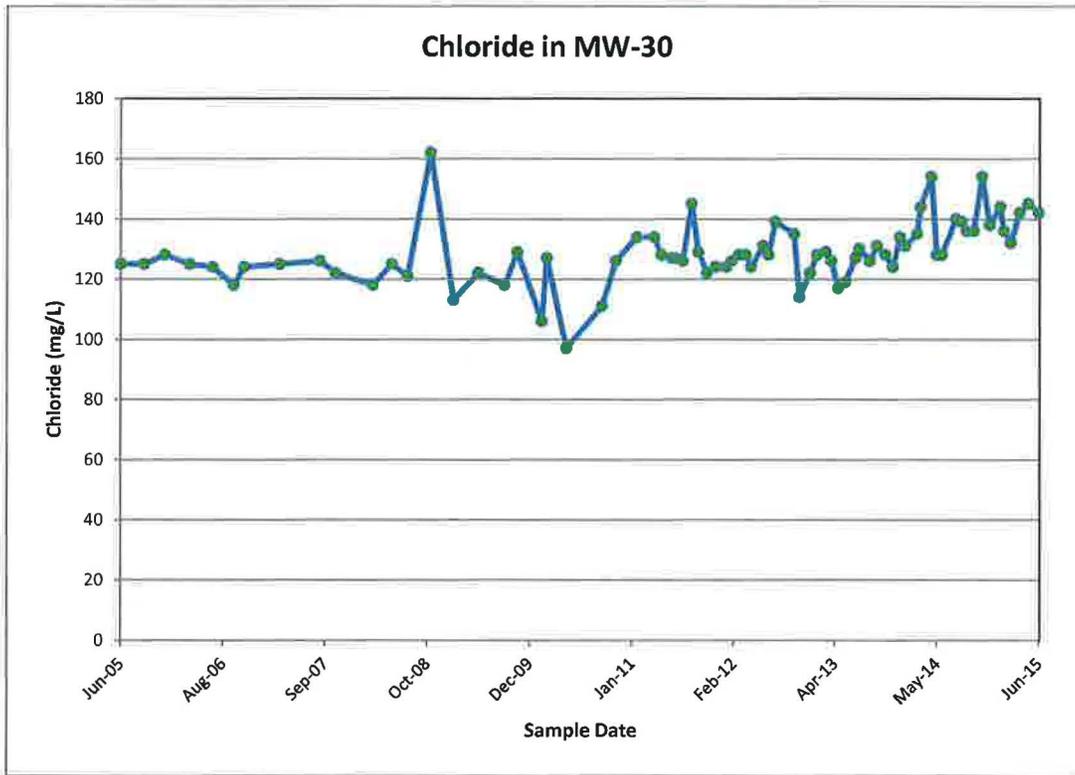
### Time concentration plots for MW-29



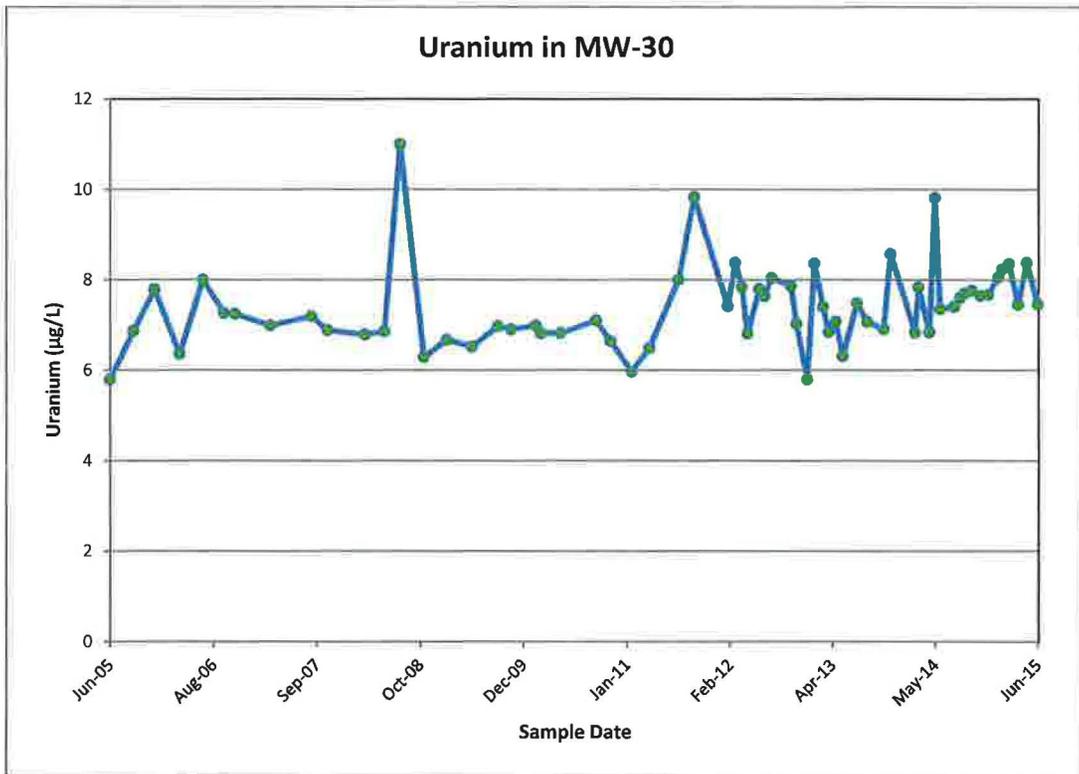
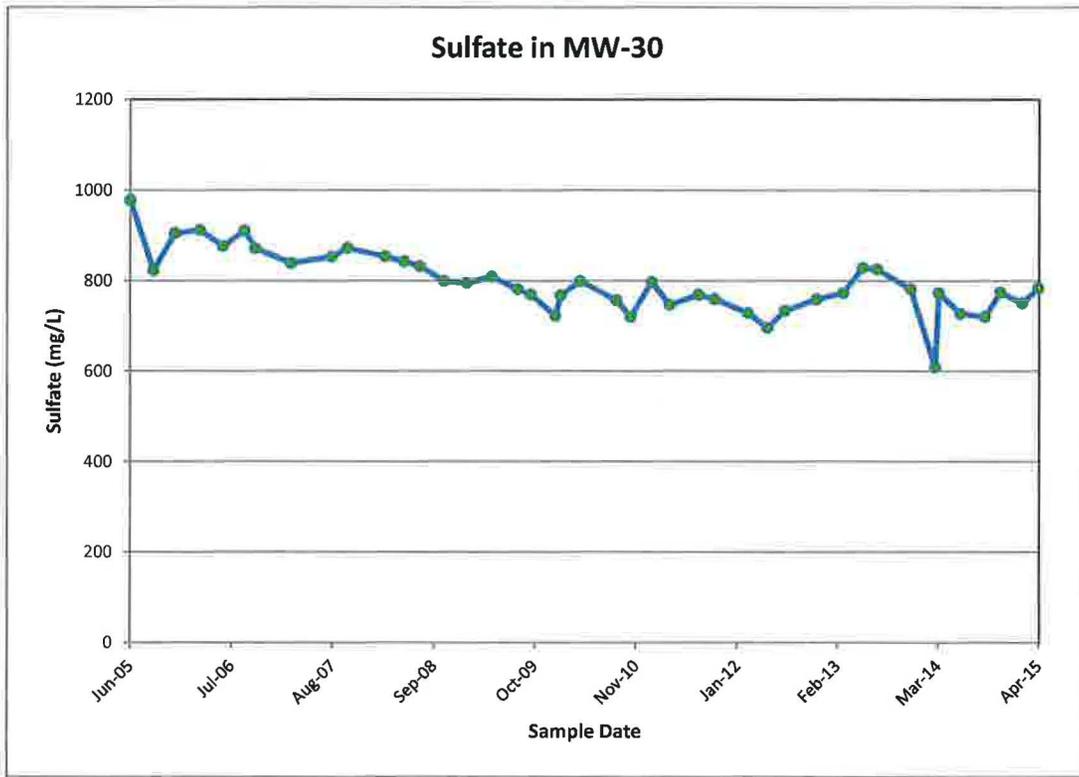
## Time concentration plots for MW-29



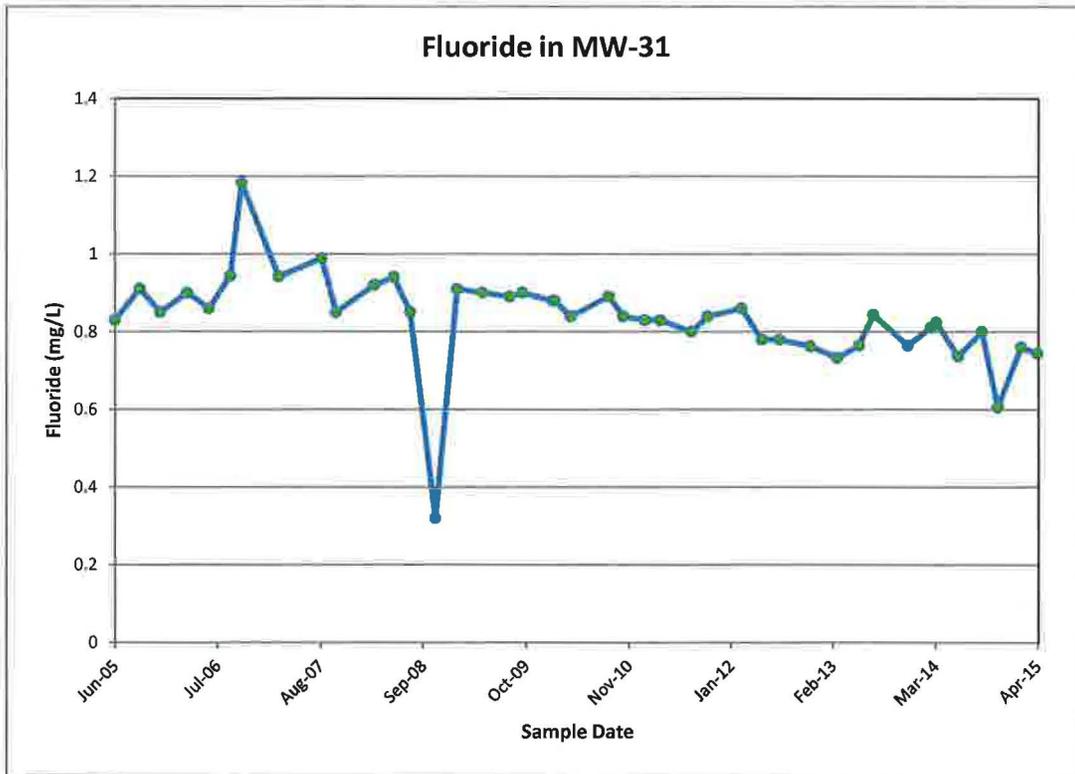
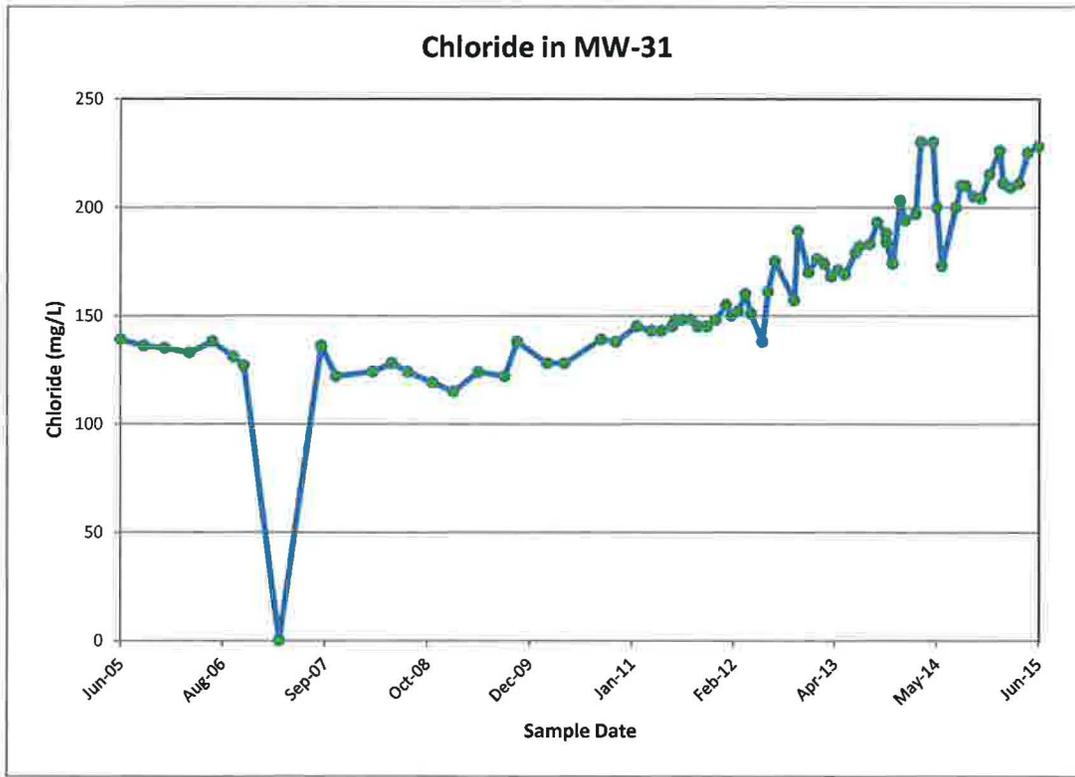
### Time concentration plots for MW-30



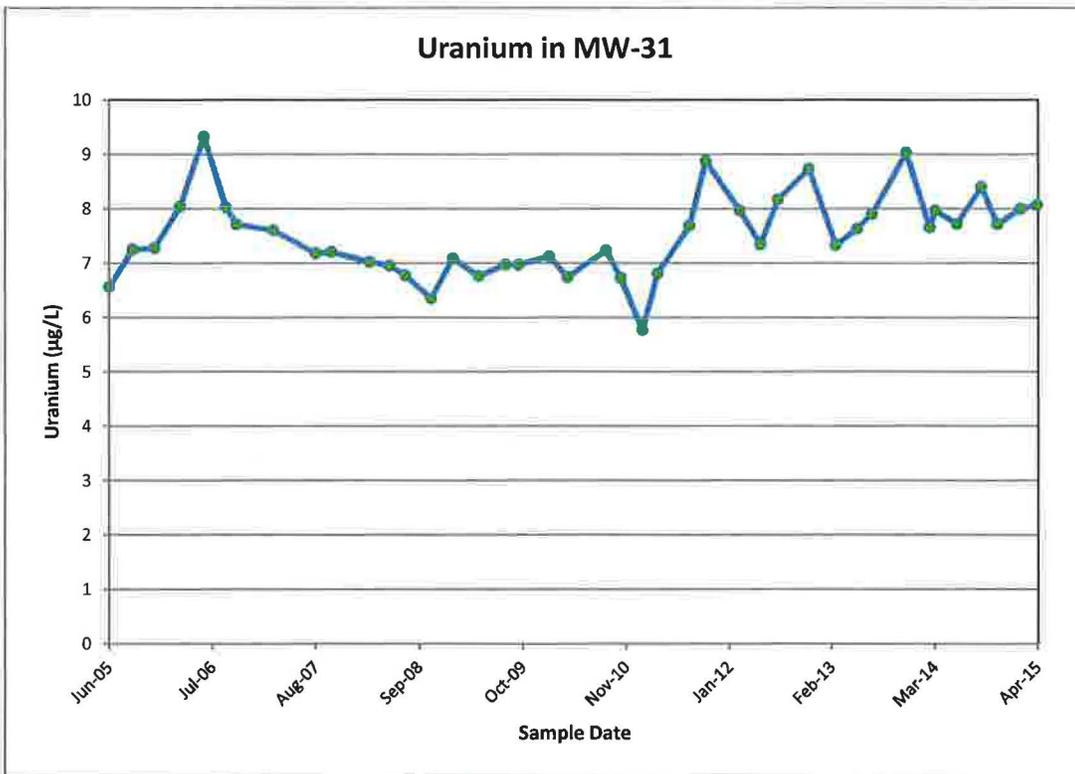
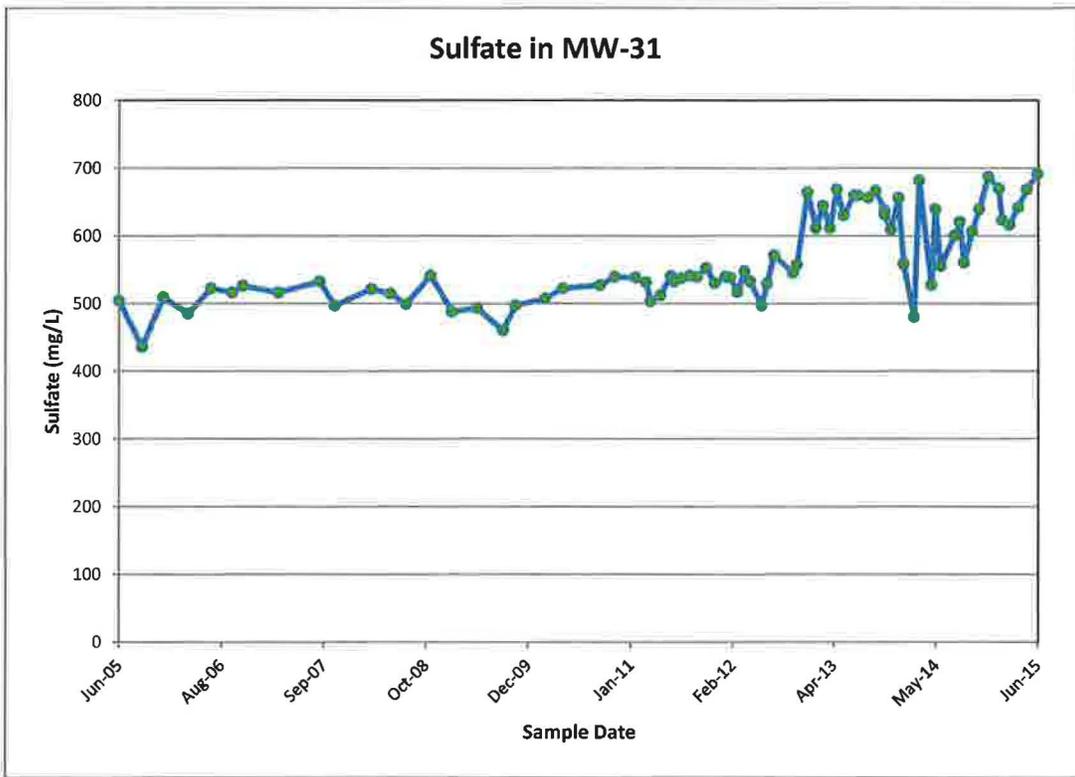
## Time concentration plots for MW-30



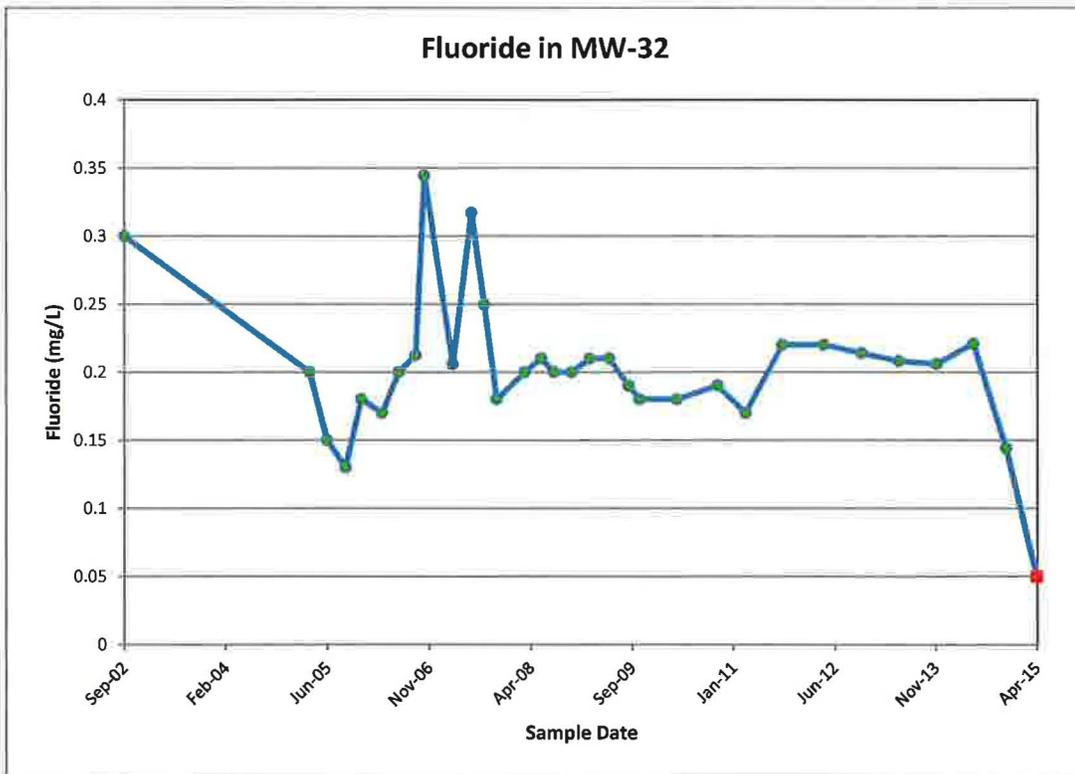
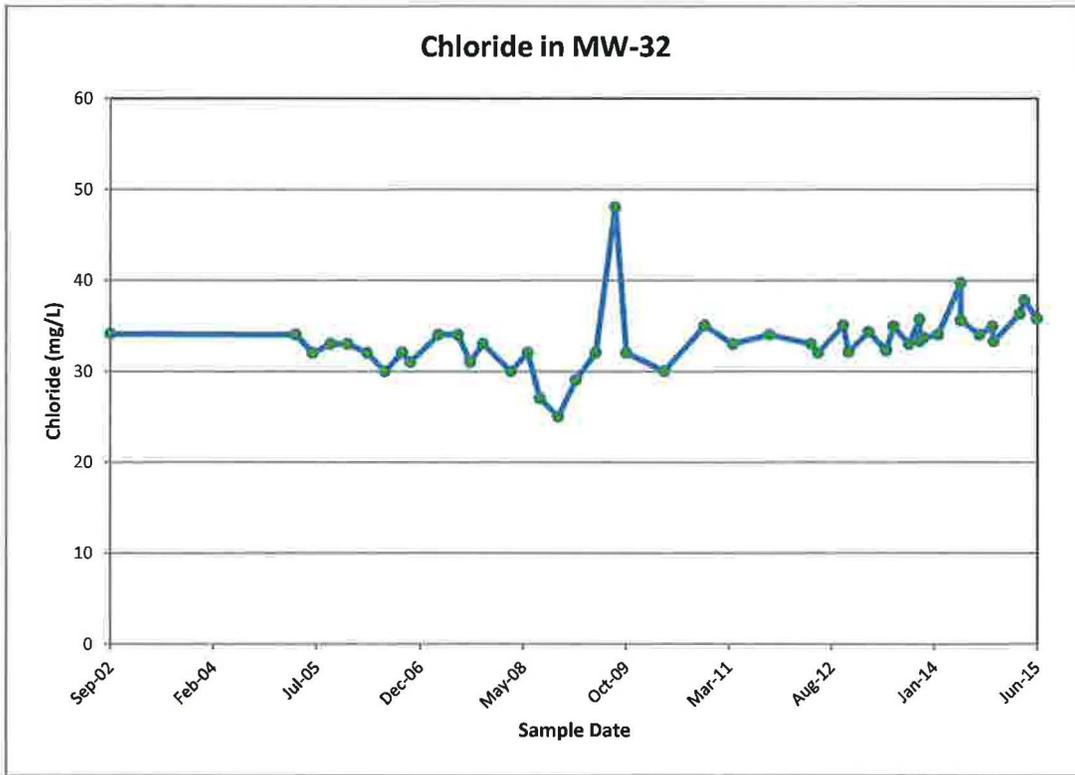
### Time concentration plots for MW-31



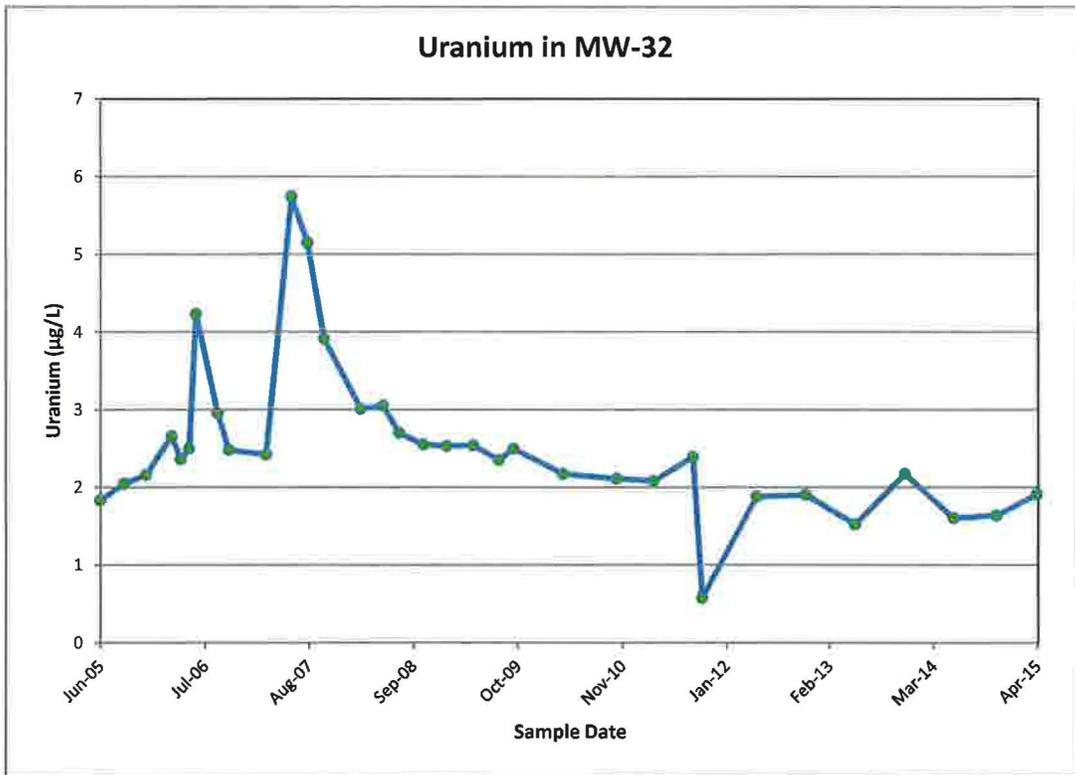
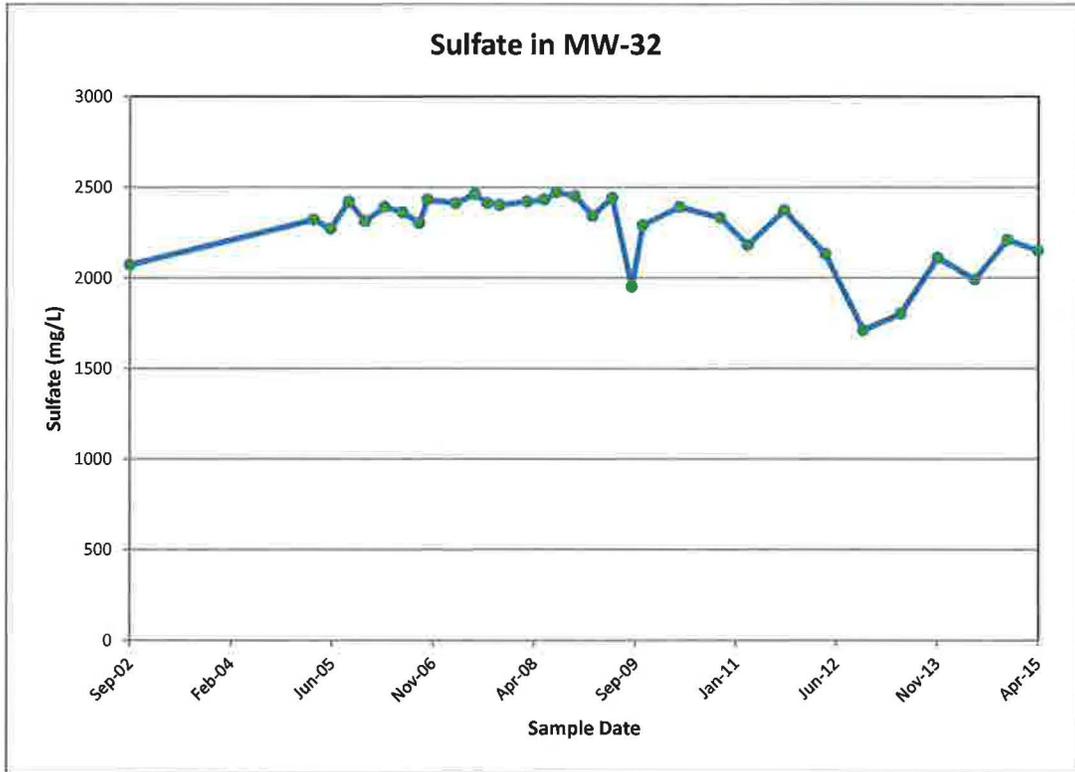
## Time concentration plots for MW-31



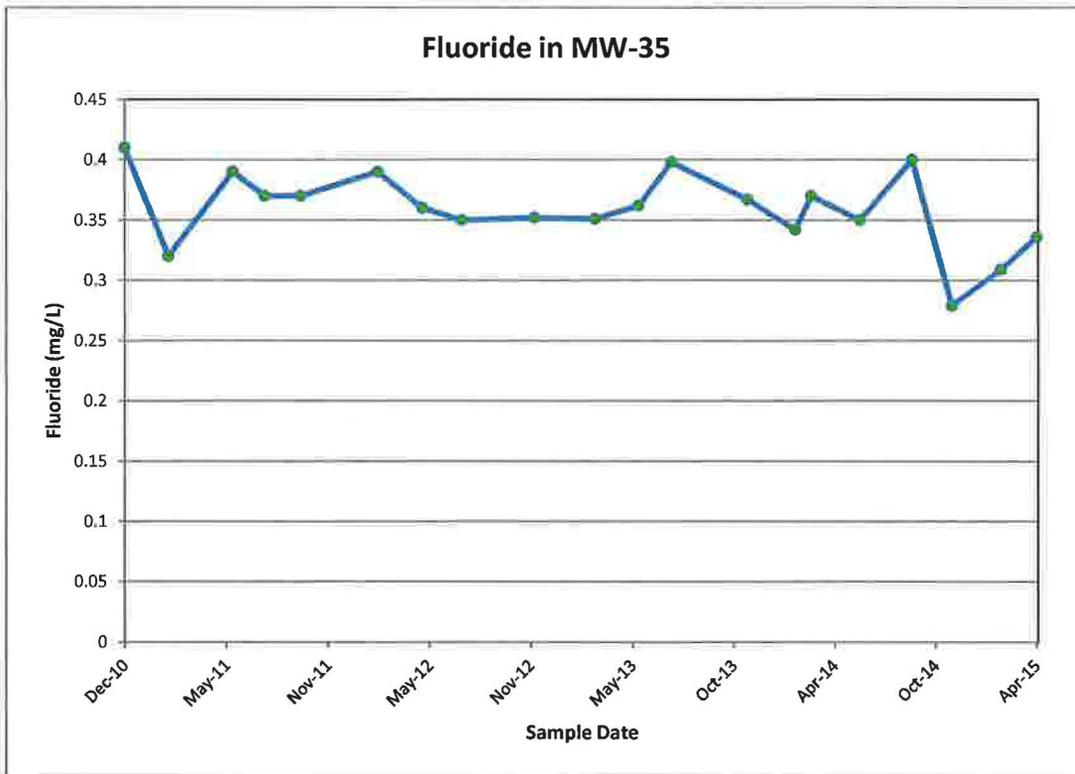
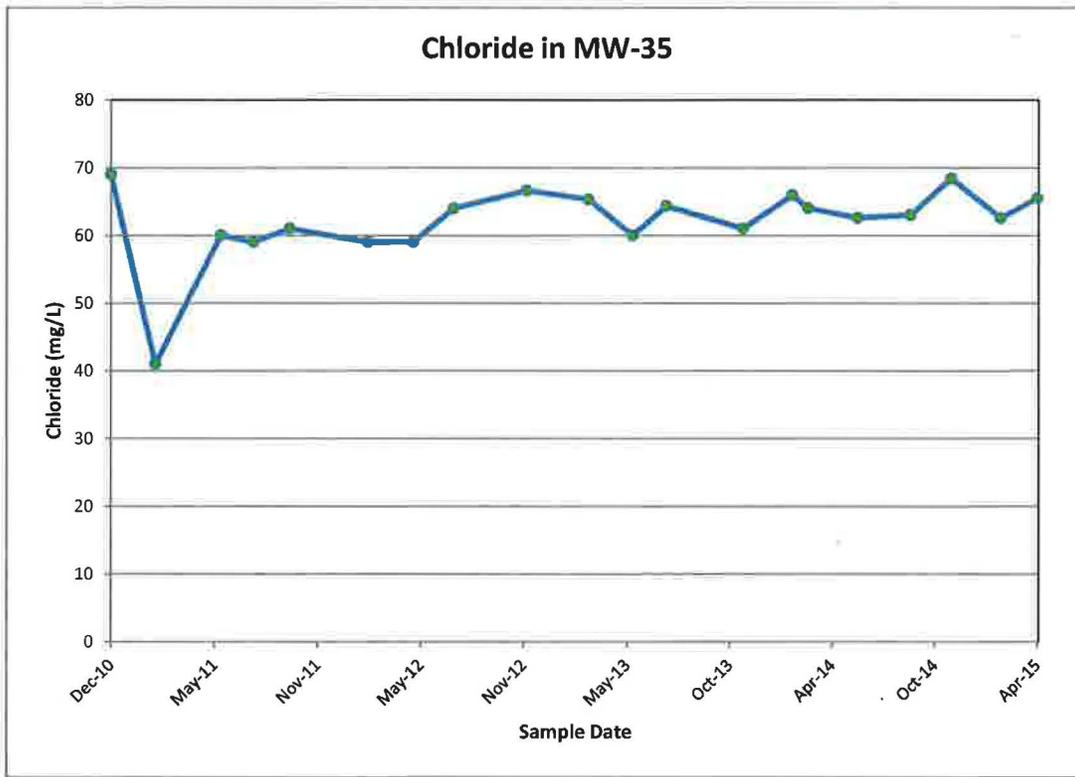
## Time concentration plots for MW-32



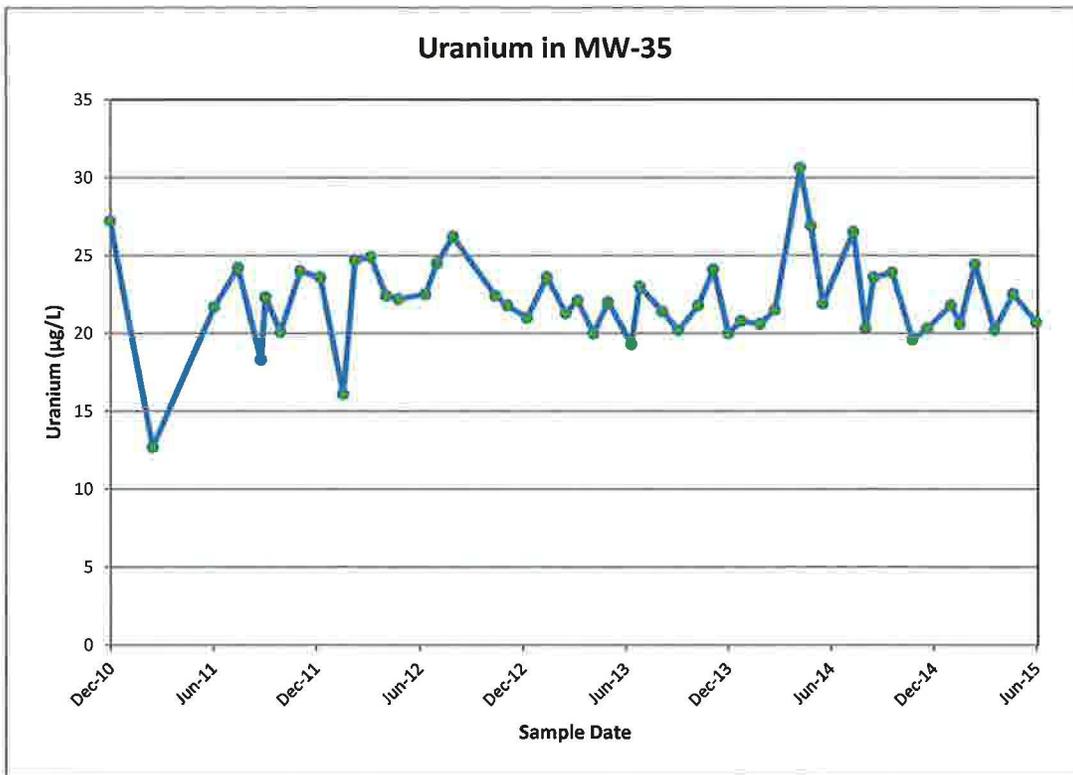
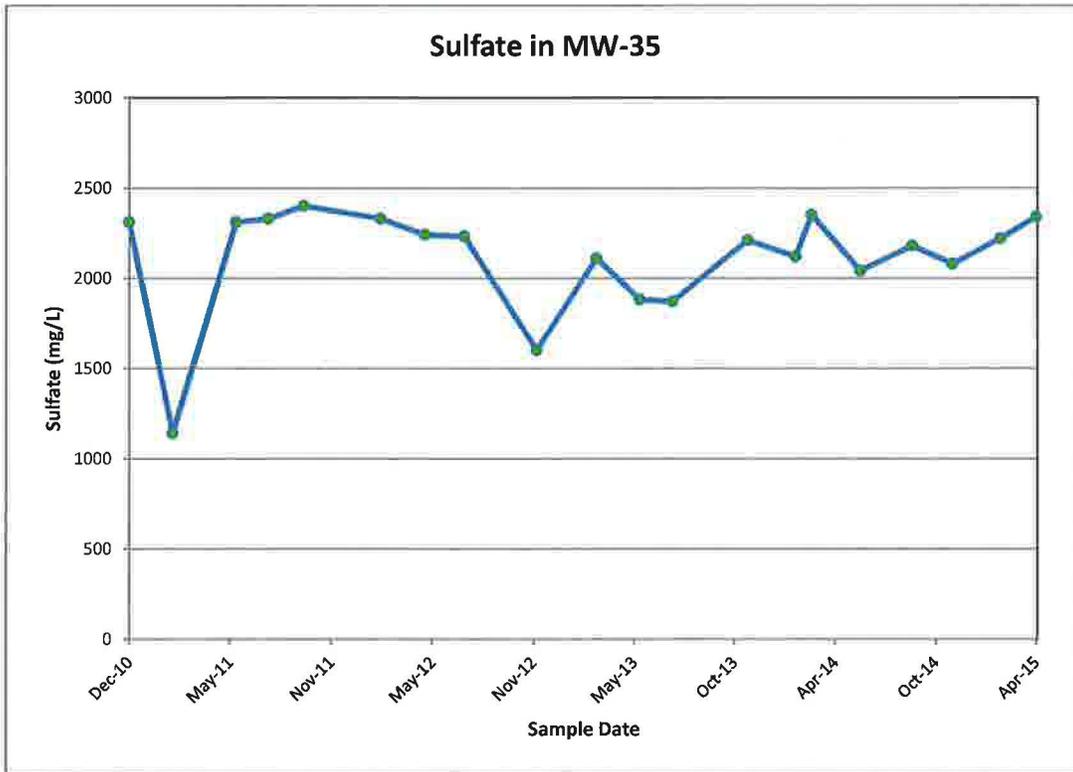
### Time concentration plots for MW-32



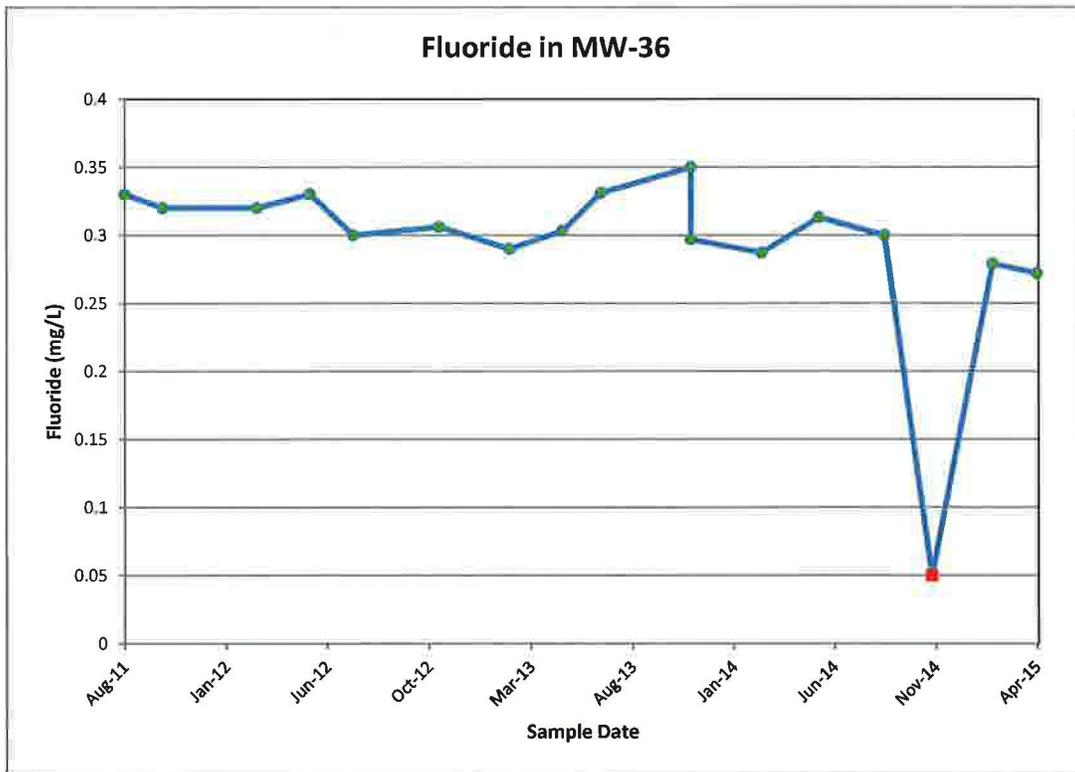
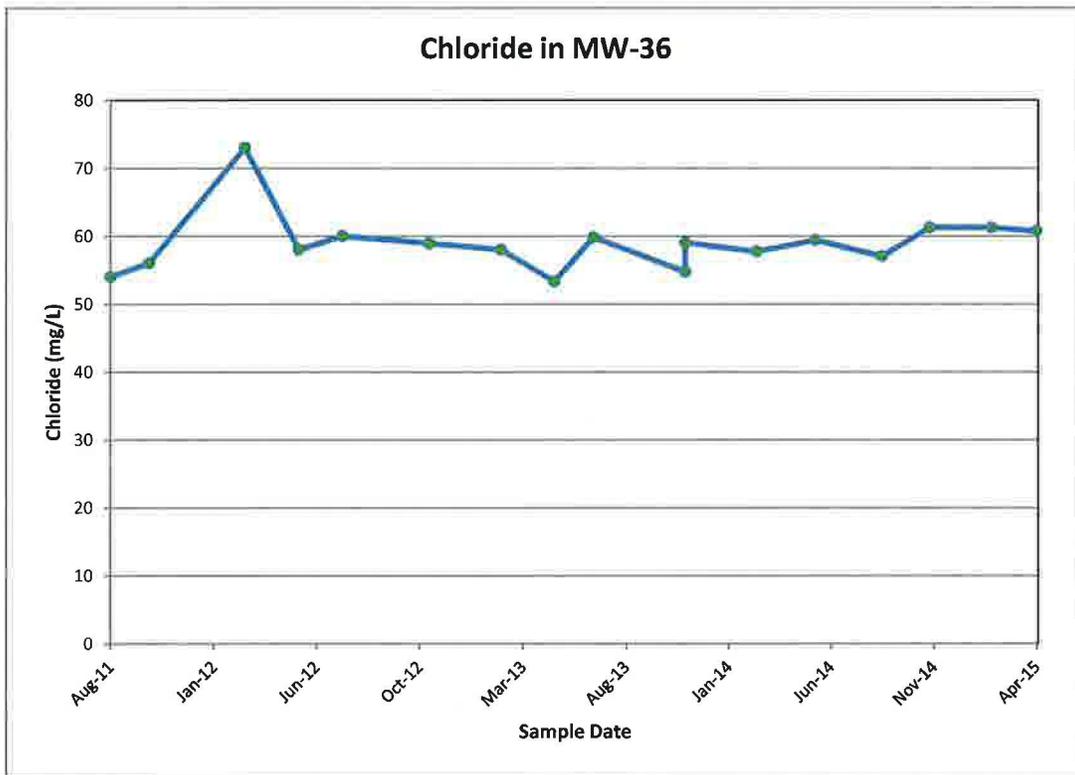
### Time concentration plots for MW-35



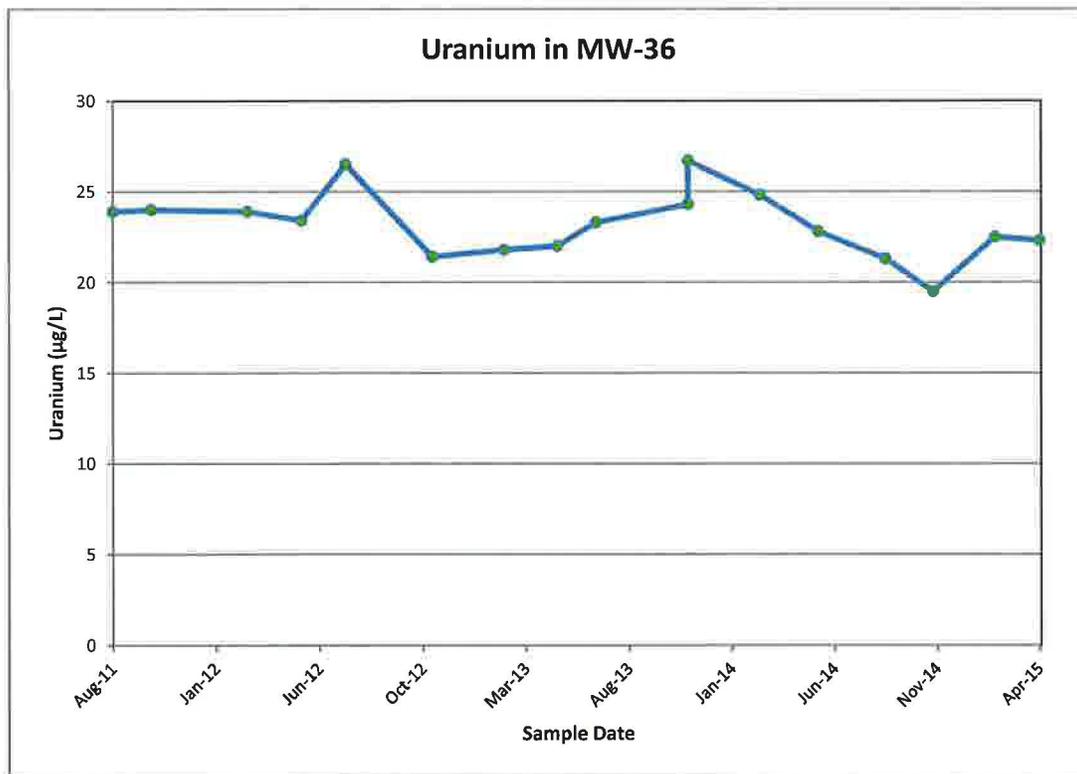
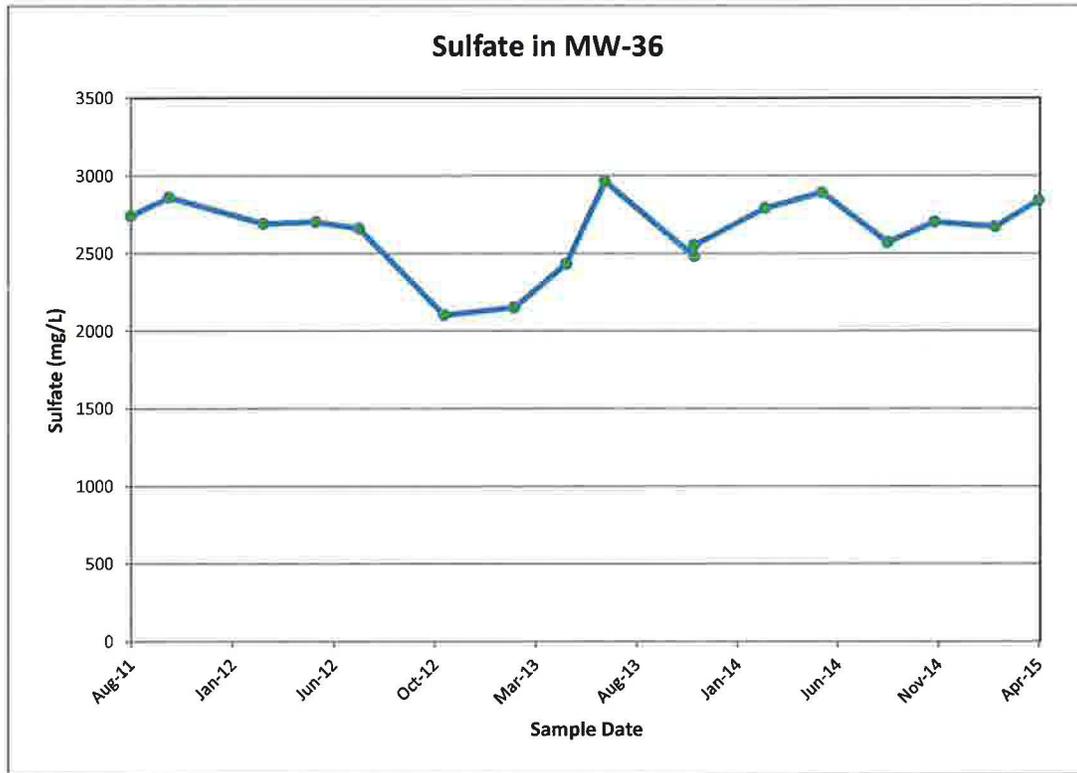
### Time concentration plots for MW-35



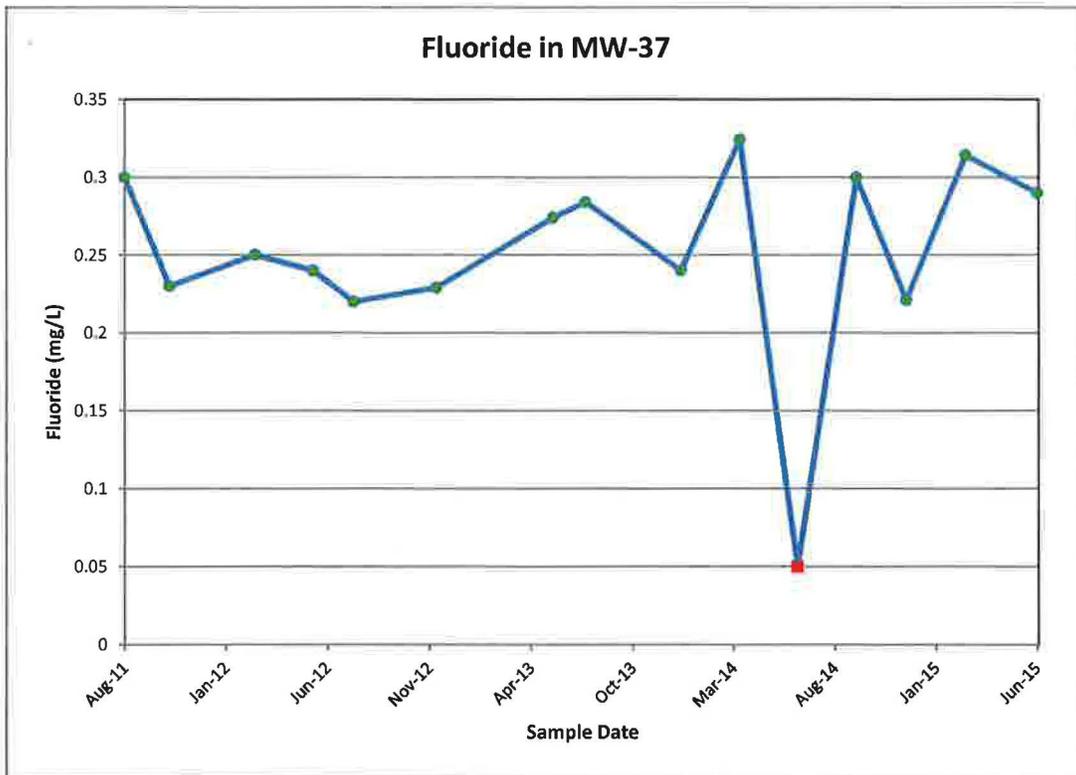
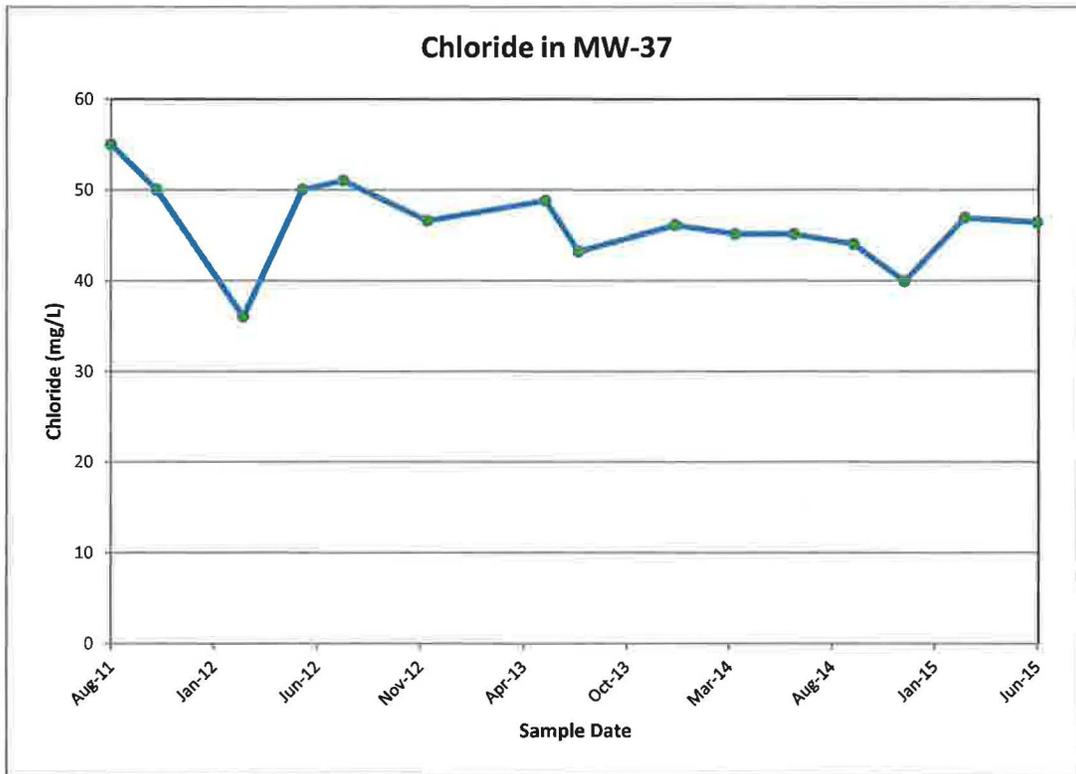
## Time concentration plots for MW-36



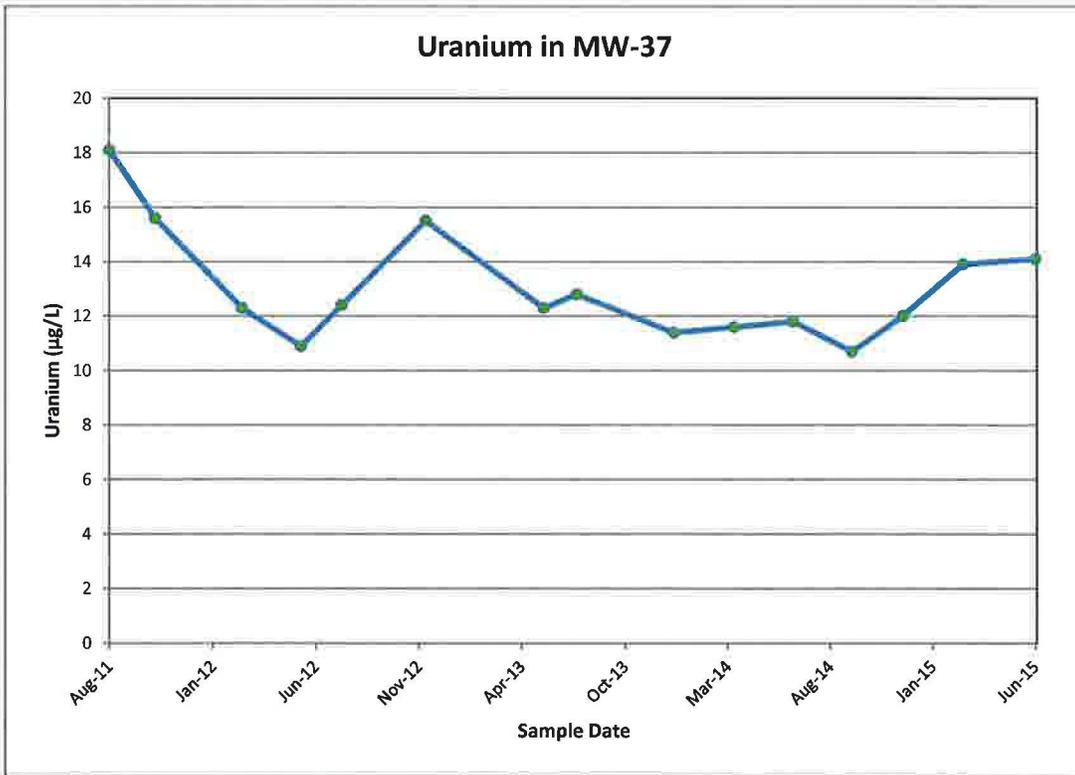
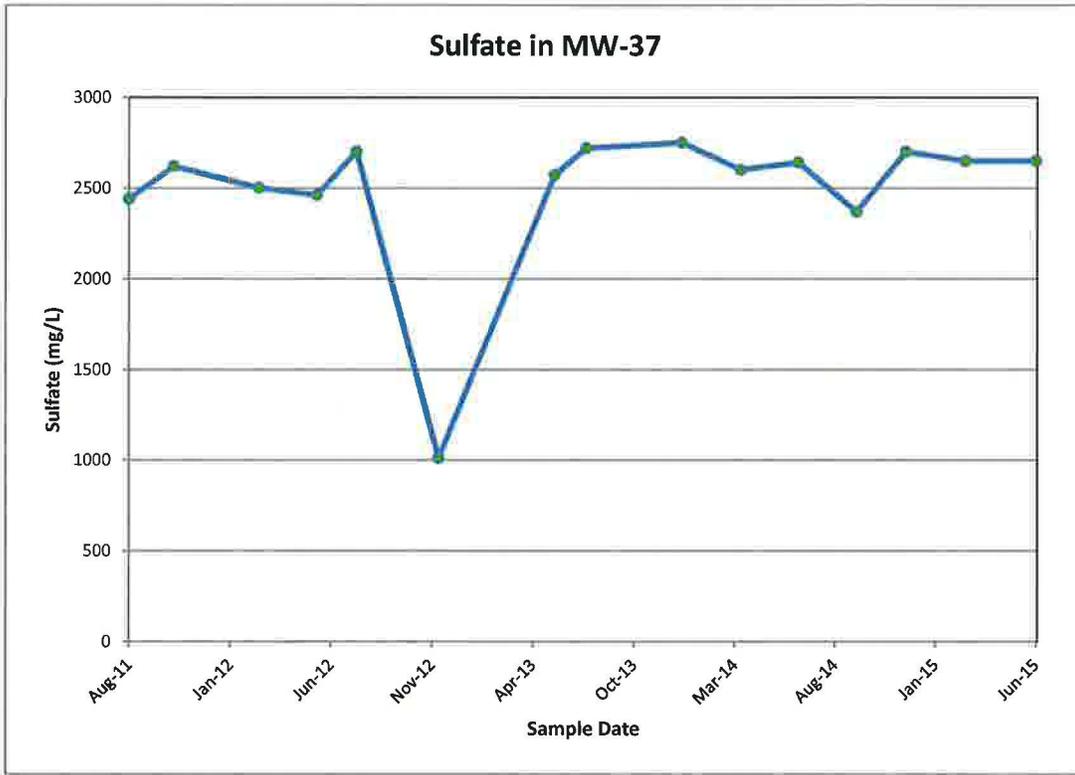
### Time concentration plots for MW-36



### Time concentration plots for MW-37



### Time concentration plots for MW-37



Tab J

CSV Transmittal Letter

## Kathy Weinel

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**From:** Kathy Weinel  
**Sent:** Wednesday, August 19, 2015 12:03 PM  
**To:** standerson@utah.gov  
**Cc:** 'Phillip Goble'; 'Thomas Rushing'; Harold Roberts; David Frydenlund; Dan Hillsten; Jaime Massey; David Turk; Scott Bakken; Logan Shumway  
**Subject:** Transmittal of CSV Files White Mesa Mill 2015 Q2 Groundwater Monitoring  
**Attachments:** Q2 2015 GW data.csv

Dear Mr. Anderson,

Attached to this e-mail is an electronic copy of laboratory results for groundwater monitoring conducted at the White Mesa Mill during the second quarter of 2015, in Comma Separated Value (CSV) format.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel



**Energy Fuels Resources (USA) Inc.**

---

Kathy Weinel  
*Quality Assurance Manager*

t: 303.389.4134 | f: 303.389.4125  
225 Union Blvd., Suite 600  
Lakewood, CO 80228

<http://www.energyfuels.com>

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