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August 15, 2014

**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 2014 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 2014 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 black 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

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

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

**2nd Quarter**  
**(April through June)**  
**2014**

Prepared by:



**Energy Fuels Resources (USA) Inc.**  
225 Union Boulevard, Suite 600  
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**August 15, 2014**

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## 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	Groundwater Monitoring 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 2014 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 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 the narrative in Sections 2 and 3 of this quarterly report, samples classified as being collected quarterly include those wells which are 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.c) 2) ii of the GWDP dated August 24, 2012.

Table 1 of this report provides an overview of the 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, the April monthly samples were initially collected in early April. The Mill Field Staff noted issues with the field instrument used to collect field parameters. The samples were collected despite issues with the field meter. Upon review of the field data, it was noted that the field measurements were significantly outside of the ranges seen in historic data. The field data were considered invalid and the initial April monthly samples were discarded due to the field meter problems noted. The samples were recollected using a new meter. The field measurements for the recollected samples were within historical ranges and were deemed to be valid.

### **2.1.2 Accelerated Groundwater Monitoring**

Accelerated 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”).

In wells MW-35, MW-36, and MW-37 preliminary statistics of the analytical data were analyzed every quarter since the completion of 8 quarters of sampling. The preliminary statistical results indicated that there were extreme values present in the data and as a result, there were not 8 statistically valid data points for the GWDP analytes. EFRI presented this information to DRC who agreed to delay the completion of the background report for MW-35, MW-36 and MW-37 until 8 statistically valid data points were available for every analyte in all three wells.

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.c) 2) ii of the GWDP dated August 24, 2012. The

accelerated monthly 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 and sampling efforts.

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

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

Analytical results are provided by the Mill's two contract analytical laboratories: GEL Laboratories, Inc. ("GEL") and American West Analytical Laboratories ("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 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.

The laboratory report dates for samples collected for the monthly accelerated sampling (i.e. quarterly accelerated to monthly) are provided in Table 1. 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.

Copies of laboratory QA/Quality Control (“QC”) Summaries are included with the reported data under their corresponding Tabs.

### **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 the Q2 2014 sampling events 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**

The analytical results for the accelerated monthly monitoring of the various constituents in certain monitoring wells for the quarter are provided at Tab F.

### **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 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 indicate that several analytes have exceeded their respective GWCLs for two consecutive sampling periods as reported in EFRI’s letter to DRC on August 11, 2014. Table 3 summarizes the results of the accelerated sampling program from first quarter 2010 through second quarter 2014.

Part I.G.1 c) of the GWDP states, with respect to exceedances of GWCLs, “that 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 Discharge Minimization Technology or Best Available Technology will be reestablished.” EFRI submitted an exceedance notice on August 11, 2014 for the second quarter 2014 results. 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.

### **2.4.4 THF in MW-01**

In the first quarter 2013, EFRI noted that tetrahydrofuran (“THF”) exceeded its GWCL for two consecutive quarters in MW-01. A plan and time schedule was submitted to DRC on August 28, 2013. The Plan and Time Schedule was approved by DRC by letter

dated September 17, 2013. The Plan and Time Schedule noted that a discussion of the THF results to date would be included in the second quarter 2014 quarterly groundwater report. As required by the approved Plan and Time Schedule, the discussion of THF in MW-01 is included below.

MW-01 exceeded its GWCL in the fourth quarter 2013 and the first quarter 2013. As noted above a Plan and Time Schedule was submitted and approved. Subsequent to the Plan and Time Schedule a Source Assessment Report (“SAR”) was completed. The SAR noted that the THF in MW-01 was the result of adhesives used in the well construction. The SAR provided literature and studies indicating that wells constructed with adhesives in the casing joints commonly report detections of THF, which results from the leaching of the THF from the adhesives rather than its presence in groundwater. Further, the SAR noted that MW-01 is upgradient of the tailings cells and the Mill processes and the THF detections are not the result of Mill activities due to its upgradient location. The SAR and the associated conclusions were approved by DRC on January 7, 2014.

THF concentrations have not been above the GWCL in MW-01 since the first quarter of 2013. EFRI will continue quarterly monitoring until such time as there are eight quarters of data below the GWCL or the GWCLs are removed from MW-01 in a revised GWDP.

## **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 Chain-of-Custody ("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 and discussed in Section 3.4, below.

### **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.

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

One trip blank per month 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 purged and 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 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): 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 five wells that were purged to

dryness: MW-03A, MW-20, 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, MW-23, and MW-37, which 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 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 wells MW-03A 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-02, MW-12, MW-18, MW-25, 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 in both the April and May monthly events. 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 reporting limits reported by both laboratories were checked against the reporting limits specified in the QAP Table 1. Reporting limit evaluations are provided in Tab G. The analytes were measured and reported to the required reporting

limits except that several sets of quarterly, semi-annual and accelerated sample results had the reporting limit 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 detection limit.

### **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 less than detection level for the GWDP 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 required 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 and semi-annual samples. 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 uranium in duplicate pair MW-25/MW-65 in the April monthly sampling event and thallium in duplicate pair MW-35/MW-65 in the May monthly sampling event. Results of the RPD test are provided under Tab G.

The approved QAP specifies a separate corrective action for duplicate RPDs outside of acceptance limits. The procedure for duplicate results outside of acceptance limits was implemented for the uranium results in duplicate pair MW-25/MW-65 in the April monthly sampling event. 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 laboratory is temporarily unavailable due to a catastrophic fire suffered in early July.

No corrective action was performed for the thallium in duplicate pair MW-35/MW-65 in the May monthly sampling event because the duplicate results are not greater than 5

times the required detection limits. The duplicate information is provided for information purposes only.

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

Section 9.14 of the QAP requires that gross alpha analysis reported with an activity equal to or greater than the GWCL, 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.

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. The original duplicate sample results for duplicate pair MW-35/MW-65 in the quarterly sampling event did not meet the requirements of Section 9.4 of the QAP. The approved QAP specifies a separate corrective action for duplicate RPDs outside of acceptance limits. The procedure for duplicate results outside of acceptance limits was implemented for the gross alpha results in duplicate pair MW-35/MW-65 in the quarterly sampling event. 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 reported correctly and there were no transcription errors or calculation errors. The samples were still within holding time and reanalysis was completed and the revised data were in compliance with the comparability requirements. The original data were considered invalid and were flagged as unusable. The original data are not reported and will not be used or reported due to the poor comparability.

Results of quarterly, semi-annual, and accelerated radiologic sample QC are provided under Tab G. The quarterly, semi-annual, and accelerated radiologic sample results met the counting error requirements specified in the QAP.

### **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.

Multiple sets of quarterly, semi-annual and accelerated sample results had the reporting limit raised for at least one analyte due to matrix interference and/or sample dilution. In all cases the reported value for the analyte was higher than the increased detection limit.

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 QAPs 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 sample(s) are not an order of magnitude greater than the blank result. The method blanks for the quarterly samples and the accelerated samples reported two detections of an analyte in the method blanks.

THF was reported in the method blank in analytical group 1405563. The samples associated with this method blank were all nondetect for THF. The sample results are not an order of magnitude greater than the blank results as required by the QAP. The analytical results for the samples are not affected by the method blank detections because the sample results are nondetect.

Sodium was detected in the method blank for analytical group 1405608. The samples associated with this method blank were all an order of magnitude greater than the method blank results as required by the QAP. The sodium method blank detection was compliant with the requirements of the QAP and the data usability is not affected.

#### **4.0 CORRECTIVE ACTION REPORT**

There are no corrective actions resulting from the second quarter 2014 groundwater sampling event.

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

The first quarter 2014 groundwater report identified a corrective action for the use of the wrong electronic COC template for the February monthly accelerated samples. To

address this, the corrective action implemented was two-fold. First, additional training of all Mill Field Personnel responsible for sample handling was conducted by the QA Manager. Second, the laboratories have been instructed to send copies of the field completed COCs and the resulting laboratory work order sheets to the QA Manager upon receipt of the samples. No analyses are to be completed until the QA Manager reviews and approves the COCs and laboratory work orders. Implementation of the COC procedure occurred after the February 2014 issue was noted. No errors have been noted since the implementation of the corrective action. The corrective action is considered effective and complete.

## **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, the data have been included in the quarterly time concentration plots since first quarter 2012. Future time concentration plots will include all data points.

## **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 15, 2014.

ENERGY FUELS RESOURCES (USA) INC.

By:

A handwritten signature in black ink, appearing to read 'Frank Filas', written over a horizontal line.

Frank Filas, P.E  
Vice President, Permitting and Environmental 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.



---

Frank Filas, P.E  
Vice President, Permitting and Environmental Affairs  
Energy Fuels Resources (USA) Inc.

## Tables

Table 1: Summary of Well Sampling for Q2 2014

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-01	Semi-annually	Semi-annually	5/28/2014	(6/10/14) [6/23/14]
MW-02	Semi-annually	Semi-annually	5/28/2014	(6/10/14) [6/23/14]
MW-03	Semi-annually	Semi-annually	5/30/2014	(6/12/14) [7/2/14] [8/1/14]
MW-03A	Semi-annually	Semi-annually	5/30/2014	(6/12/14) [7/2/14] [8/1/14]
MW-05	Semi-annually	Semi-annually	6/4/2014	(6/17/14) [7/2/14] [8/1/14]
MW-11	Quarterly	Quarterly	6/3/2014	(6/17/14) [7/2/14] [8/1/14]
MW-12	Semi-annually	Semi-annually	6/4/2014	(6/17/14) [7/2/14] [8/1/14]
MW-14	Quarterly	Quarterly	6/3/2014	(6/17/14) [7/2/14] [8/1/14]
MW-15	Semi-annually	Semi-annually	6/4/2014	(6/17/14) [7/2/14] [8/1/14]
MW-17	Semi-annually	Semi-annually	5/30/2014	(6/17/14) [7/2/14] [8/1/14]
MW-18	Semi-annually	Semi-annually	5/27/2014	(6/10/14) [6/23/14]
MW-19	Semi-annually	Semi-annually	5/27/2014	(6/10/14) [6/23/14]
MW-20	Semi-annually	Semi-annually	6/18/2014	(6/30/14) [7/16/14]
MW-22	Semi-annually	Semi-annually	6/11/2014	(6/25/14) [7/16/14]
MW-23	Semi-annually	Semi-annually	6/11/2014	(6/25/14) [7/16/14]
MW-24	Semi-annually	Semi-annually	5/30/2014	(6/12/14) [7/2/14] [8/1/14]
MW-25	Quarterly	Quarterly	6/2/2014	(6/12/14) [7/2/14] [8/1/14]
MW-26	Quarterly	Quarterly	6/5/2014	(6/17/14) [7/2/14] [8/1/14]
MW-27	Semi-annually	Semi-annually	5/28/2014	(6/10/14) [6/23/14]
MW-28	Semi-annually	Semi-annually	6/18/2014	(6/30/14) [7/16/14]
MW-29	Semi-annually	Semi-annually	6/3/2014	(6/17/14) [7/2/14] [8/1/14]
MW-30	Quarterly	Quarterly	6/3/2014	(6/17/14) [7/2/14] [8/1/14]
MW-31	Quarterly	Quarterly	6/2/2014	(6/17/14) [7/2/14] [8/1/14]
MW-32	Semi-annually	Semi-annually	5/23/2014	(6/5/14) (7/28/14) [6/23/14]
MW-35	Quarterly	Background	6/4/2014	(6/17/14) [7/2/14] [8/1/14]
MW-36	Quarterly	Background	5/29/2014	(6/10/14) [6/23/14]
MW-37	Quarterly	Background	6/18/2014	(6/30/14) [7/16/14]
MW-65	1 per Batch	Duplicate of MW-35	6/4/2014	(6/17/14) [7/2/14] [8/1/14]
MW-70	1 per Batch	Duplicate of MW-22	6/11/2014	(6/25/14) [7/16/14]
<b>Accelerated April Monthly</b>				
MW-11	Monthly	Accelerated	4/25/2014	(5/16/14)
MW-14	Monthly	Accelerated	4/23/2014	(5/16/14)
MW-25	Monthly	Accelerated	4/28/2014	(5/16/14)
MW-26	Monthly	Accelerated	4/30/2014	(5/16/14)
MW-30	Monthly	Accelerated	4/23/2014	(5/16/14)
MW-31	Monthly	Accelerated	4/28/2014	(5/16/14)
MW-35	Monthly	Accelerated	4/25/2014	(5/16/14) [5/30/14]
MW-65	Monthly	Duplicate of MW-25	4/28/2014	(5/16/14)
<b>Accelerated May Monthly</b>				
MW-11	Monthly	Accelerated	5/14/2014	(5/21/14)
MW-14	Monthly	Accelerated	5/13/2014	(5/21/14)
MW-25	Monthly	Accelerated	5/13/2014	(5/21/14)
MW-26	Monthly	Accelerated	5/14/2014	(5/21/14)
MW-30	Monthly	Accelerated	5/14/2014	(5/21/14)
MW-31	Monthly	Accelerated	5/13/2014	(5/21/14)
MW-35	Monthly	Accelerated	5/14/2014	(5/21/14) [6/12/14]
MW-65	1 per Batch	Duplicate of MW-35	5/14/2014	(5/21/14) [6/12/14]

## Notes:

Dates in italics are the resubmission laboratory submission dates. Resubmissions were required to correct reporting errors or to address reanalyses. Date in parenthesis depicts the date that data were reported from American West Analytical Laboratories. Date in brackets depicts the date the data were reported from GEL Laboratories.

**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
	Fluoride (mg/L)	0.42	0.534	Quarterly	Monthly	Q3 2013	December 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
	Carbon tetrachloride (ug/L)	5	6.86	Quarterly	Monthly	Q1 2014	June 2014
	Field pH (S.U.)	6.74 - 8.5	6.59	Quarterly	Monthly	Q1 2010	May 2010
MW-30 (Class II)	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
	Uranium (ug/L)	8.32	8.57	Quarterly	Monthly	Q4 2013	March 2014
	Selenium (ug/L)	34	35.3	Quarterly	Monthly	Q2 2010	July 2010
MW-31 (Class III)	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
	Chloride (mg/L)	143	145	Quarterly	Monthly	Q1 2011	May 2011
MW-35 (Class II)	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
	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
	Sulfate (mg/L)	838	846	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Manganese (ug/L)	289	315	Semi-Annually	Quarterly	Q4 2012	Q1 2013
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
	Fluoride (mg/L)	0.68	0.71	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-3A (Class III)	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
	Selenium (ug/L)	89	94.8	Semi-Annually	Quarterly	Q4 2010	Q1 2011
MW-5 (Class II)	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	25.7	Semi-Annually	Quarterly	Q2 2010	Q3 2010
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
	Gross Alpha minus Rn & U (pCi/L)	2.36	4.86	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	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
	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
	Manganese (ug/L)	1837	1850	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	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
	Manganese (ug/L)	5624	6140	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	TDS (mg/L)	4400	4600	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Gross Alpha minus Rn & U (pCi/L)	3.33	5.4	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	5.4	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	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.

() 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 2014 sampling event.



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	NS	NA	9/15/2010	6.93	NS	NA	11/18/2010	6.8	NS	NA
	Gross Alpha minus Rn & U (pCi/L)	2.36		0.9		NA		NA		NA		NA		1.2								
	Nitrate + Nitrite (as N) (mg/L)	2.83		2.6		NA		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	NA	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		NA		0.18								
	Thallium (ug/L)	1		1.3		NA		NA		NA		1.57		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	NS	NA	9/14/2010	5.9	NS	NA	11/12/2010	5.7	NS	NA
	Chloride (mg/L)	38		42		NA		NA		NA		42		NA								
	Sulfate (mg/L)	462		469		NA		NA		NA		461		NA		452						
	TDS (mg/L)	1075		1160		NA		NA		NA		1060		NA		1110						
	Gross Alpha minus Rn & U (pCi/L)	2		1.6		NA		NA		NA		NA		2.4								
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	4/19/2010	108	NS	NA	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		NA		4.11										
	Uranium (ug/L)	4.9		3.36		NA		NA		NA		3.45										
	Vanadium (ug/L)	30		<15.0		NA		NA		NA		<15.0										
	Manganese (ug/L)	1837		1550		NA		NA		NA		1510										
	Field pH (S.U.)	6.1 - 8.5		5.67		NA		NA		NA		5.91		5.72								
MW-29 (Class III)	Manganese (ug/L)	5624	NS	NA	4/27/2010	4820	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/9/2010	4890	NS	NA
	TDS (mg/L)	4400		4400		NA		NA		NA		4390										
	Field pH (S.U.)	6.46 - 8.5		6.82		NA		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	NS	NA	9/13/2010	2.9	NS	NA	11/10/2010	8.8	NS	NA
	Field pH (S.U.)	6.4 - 8.5		6.03		NA		NA		NA		6.33		6.05								

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.

Table 3 – GWCL Exceedances for Second Quarter 2014 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	1/11/2011	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	1/11/2011	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		NA		NA		NA		NA	1.19	NA		1.27		NA														
	Fluoride (mg/L)	0.42		NA		0.31		NA		NA		NA		NA		NA	0.31	NA		0.32		NA														
	Uranium	6.5		7.02		4.77		6.8		5.56		6.72		7.06		6.74	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		32		69.3		31.8		60.2		18.5		57.1		19.0	56.1	58.9		55.6		57														
	Chloroform (ug/L)	70		800		730		1200		390		1900		730		300	1000	1300		440		1200		1400												
	Chloride (mg/L)	58.31		52		59		64		64		54		64		60	66	61		55		62														
	Carbon Tetrachloride (ug/L)	5		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	<1.0	<1.0		<1.0		<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	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		NS		134		NS		134		128		127		126	145	129		122		124														
	Uranium (ug/L)	8.32		NS		5.97		NS		6.49		NS		NS		8	NS	9.83		NS		NS														
	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 (11/29/12)	21	12/12/2011	21										
	TDS (mg/L)	1320		1240		1220		1250		1370		1290		1330		1300	1300	1320		1290		1330														
	Chloride (mg/L)	143		NS		145		NS		143		143		145		1280	148	145		148		148														
	Selenium (ug/L)	71		NS		64.6		NS		65.2		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		NA		NA		NA		NA		NA		NA	NA	NA		0.57		< 0.50		0.63												
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		2.6		NA		NA		NA		NA		NA	NA	NA		NA		NA		NA												
	Selenium (ug/L)	12.5		NA		ND		NA		NA		NA		NA		NA	NA	NA		10.5		NA		NA												
	Uranium (ug/L)	7.5		NA		12.7		NA		NA		NA		NA		NA	NA	NA		24.2		18.3		20.1		24	23.6									
<b>Required Semi-Annual Sampling Wells</b>																																				
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	NS	NA	NS	NA	4/11/2011	218	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	10/11/2011	206	NS	NA	NS	NA										
	Tetrahydrofuran (ug/L)	11.5		NA		NA		NA	10.7	NA		NA		NA		NA		7.82		NA		NA														
	Sulfate (mg/L)	838		NA		NA		NA	704	NA		NA		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	NS	NA	8/10/2011	46	NS	NA	10/10/2011	46.7	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														
	Sulfate (mg/L)	3663		NA		NA		3060		NA		NA		NA		NA	NA	3470		NA		NA														
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		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	NA	0.96		NA		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	NS	NA	8/11/2011	6.19	NS	NA	10/11/2011	6.5 (6.92)	NS	NA	NS	NA										
	Sulfate (mg/L)	3640		NA		3730		NA		3350		NA		NA		3560	3750	NA		NA																
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		1.2		NA		NA		NA		NA	NA	1.1		NA		NA														
	TDS (mg/L)	5805		NA		5770		NA		5720		NA		NA		5810	NA	5630		NA		NA														
	Selenium (ug/L)	89		NA		99		NA		85.8		NA		NA		88.5	NA	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)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/15/2011	6.43	NS	NA	4/5/2011	6.67	NS	NA	NS	NA	NS	NA	8/9/2011	6.13	NS	NA	10/6/2011	6.7 (6.97)	NS	NA	NS	NA										
	Selenium (ug/L)	25		NA		39		NA		21.7		NA		NA		NA	25.4	NA		35.4		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		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	4.0 3.39	NS	NA	10/11/2011	3.83	NS	NA	NS	NA		
	Sulfate (mg/L)	1938.9		1770		1780		NA		1910		2020		NA												
	Field pH (S.U.)	6.25-8.5		6.27		6.71		NA		5.95		6.55 (6.63)		NA												
	TDS (mg/L)	3198.77		3250		3250		NA		3190		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	6.65	NS	NA	10/12/2011	6.88 (7.02)	NS	NA	NS	NA		
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		0.5		NA		NA		0.6		NA												
	Nitrate + Nitrite (as N) (mg/L)	2.83		NS		2.6		NA		NS		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		
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		
	Fluoride (Mg/L)	0.36		0.19		NA		NA		0.36		NA														
	Thallium (ug/L)	1		1.07		NA		NA		0.62		NA														
	Field pH (S.U.)	6.5 - 8.5		5.73		6.12		NA		6.45		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		
	Chloride (mg/L)	38		46		43		NA		43		NA														
	Sulfate (mg/L)	462		455		442		NA		424		NA														
	TDS (mg/L)	1075		1090		1190		NA		1090		NA														
	Gross Alpha minus Rn & U (pCi/L)	2		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		
	Cadmium (ug/L)	5.2		NA		4.13		NA		3.99		NA														
	Uranium (ug/L)	4.9		NA		3.29		NA		3.19		NA														
	Vanadium (ug/L)	30		NA		<15.0		NA		<15.0		NA														
	Manganese (ug/L)	1837		NA		1690		NA		1540		NA														
	Field pH (S.U.)	6.1 - 8.5		5.69		6.01		NA		5.78		6.07 (6.11)		NA												
MW-29 (Class III)	Manganese (ug/L)	5624	NS	NA	NS	NA	NS	NA	4/18/2011	4900	NS	NA	NS	NA	8/9/2011	NA	NS	NA	10/5/2011	4800	NS	NA	NS	NA		
	TDS (mg/L)	4400		NA		4080		NA		4280		NA														
	Field pH (S.U.)	6.46 - 8.5		NA		6.45		NA		6.20		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	1.9	NS	NA	10/3/2011	3.7	NS	NA	NS	NA		
	Field pH (S.U.)	6.4 - 8.5		5.99		6.14		NA		6.10 (6.20)		6.35		NA												

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.

Table 3 – GWCL Exceedances for Second Quarter 2014 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		1.24		NA		1.24		NA		1.24	NA	1.24	NA	1.24	NA	1.24	NA	1.24	NA	1.24	NA	
	Fluoride (mg/L)	0.42		NA		0.34		NA		0.32		NA		0.3		NA		0.3		NA		0.3		NA		0.3	NA	0.3	NA	0.3	NA	0.3	NA	0.3	NA	0.3	NA	0.3
	Uranium	6.5		6.6		6.5		6.93		6.52		5.90		7.6		6.45		6.72		6.01		6.37		6.61		4.83												
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		26.9		56.8		51.3																
	Chloroform (ug/L)	70		1900	3300	2900		1700		2400		8/16/2012		970	2200	4720		4020		1250																		
	Chloride (mg/L)	58.31		68	40	74		82		74		85		7/11/2012	78	78		67		2.62		52.9		65.9														
	Carbon Tetrachloride (ug/L)	5		<1.0	<1.0	<1.0		<1.0		<1.0		<1.0		<1.0	<1.0	<1.0		<1.0		<1.0		<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
	Field pH (S.U.)	6.74 - 8.5		6.59	2/15/2012 2/21/2012	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		124		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		5.80												
	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		1460		1400		1400		1460		1320		1270														
	Chloride (mg/L)	143		155		150		152		160		151		138		161		175		172		157		189		170												
	Selenium (ug/L)	71		NS		67.8		NS		NS		70.2		NA		74		NA		NA		NA		76.9		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												
	Selenium (ug/L)	12.5		NA		19.7		NA		NA		11.4		7.0		15.9		18.8		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		22.4		21.8		21												
<b>Required Semi-Annual Sampling Wells</b>																																						
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	NS	NA	NS	NA	NS	NA	5/1/2012	176	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/27/2012	315	NS	NA												
	Tetrahydrofuran (ug/L)	11.5		NA		NA		NA		10.3		NA		NA		NA		NA		NA		21.8		NA														
	Sulfate (mg/L)	838		NA		NA		NA		659		NA		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		6.55		NA												
	Sulfate (mg/L)	3663		NA		NA		NA		3140		NA		NA		NA		NA		2340		NA		2340		NA												
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		NA		0.4		NA		NA		NA		0.419		NA		0.419		NA														
Fluoride (Mg/L)	0.68	NA	0.86	NA	1.04	NA	0.96	NA	NA	1.26	NA	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		NA		2780		NA		2780		NA												
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		NA		1.1		NA		NA		NA		NA		1.31		NA		1.31		NA												
	TDS (mg/L)	5805		NA		5690		NA		5730		NA		5720		NA		5610		NA		5610		NA														
	Selenium (ug/L)	89		NA		65.8		NA		85.1		NA		99.3		NA		NA		111		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)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/29/2012	6.81	NS	NA	NS	NA	5/10/2012	6.91	NS	NA	7/17/2012	6.98	NS	NA	NS	NA	NS	NA	11/27/2012	6.54	NS	NA												
	Selenium (ug/L)	25		NA		27.2		NA		19.6		NA		20.7		NA		23		NA		23		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		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		1920		NA		NA		1790		NA		1900		NA		NA		1210							
	Field pH (S.U.)	6.25-8.5		6.6		NA		NA		6.59		NA		6.64		NA		6.51									
	TDS (mg/L)	3198.77		3230		NA		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	
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		NA		NA		0.9		NA		NA		NA		4.86									
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NA		NA		3.9		NA		NA		4		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		NA		0.14		NA		NA		NA		0.558									
	Thallium (ug/L)	1		0.96		NA		NA		0.74		NA		1.36		NA		0.666									
	Field pH (S.U.)	6.5 - 8.5		6.03		NA		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		45		NA		NA		46		NA		47		NA		44.2									
	Sulfate (mg/L)	462		451		NA		NA		446		NA		453		NA		451									
	TDS (mg/L)	1075		1140		NA		NA		1170		NA		1150		NA		1070									
	Gross Alpha minus Rn & U (pCi/L)	2		2.3		NA		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	105	NS	NA	NS	NA	NS	NA	11/14/2012	115	NS	NA	
	Cadmium (ug/L)	5.2		NA		NA		NA		3.85		NA		NS		NA		4.37									
	Uranium (ug/L)	4.9		NA		NA		NA		3.44		NA		NS		NA		3.45									
	Vanadium (ug/L)	30		NA		NA		NA		<15.0		NA		NS		NA		<15.0									
	Manganese (ug/L)	1837		NA		NA		NA		1850		NA		8/1/2012		1660		1680									
	Field pH (S.U.)	6.1 - 8.5		6.22		NA		NA		6.15		NA		7/16/2012		6.38 (5.81)		NA		5.98							
MW-29 (Class III)	Manganese (ug/L)	5624	NS	NA	2/22/2012	NA	NS	NA	NS	NA	5/8/2012	6140	NS	NA	8/1/2012	5190	NS	NA	NS	NA	NS	NA	11/14/2012	5040	NS	NA	
	TDS (mg/L)	4400		NA		NA		NA		4600		NA		8/1/2012		4420		NA		4430							
	Field pH (S.U.)	6.46 - 8.5		7.12		NA		NA		6.47		NA		7/16/2012		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	
	Field pH (S.U.)	6.4 - 8.5		6.57		NA		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  
 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.

Table 3 - GWCL Exceedances for Second Quarter 2014 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						Sample Frequency											
			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	Quarterly											
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	Quarterly											
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	Quarterly											
	Cadmium (ug/L)	1.5		NA		1.35		1.40		1.36		1.52		1.31		1.41		1.57		1.31		1.50		1.35		1.23	Quarterly											
	Fluoride (mg/L)	0.42		NA		0.32		NA		NA		0.392		NA		0.534		NA		NA		0.329		NA		0.296	Quarterly											
	Uranium	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	Quarterly											
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	Quarterly											
	Uranium (ug/L)	41.8		65.7		57.8		69		58.8		64.3		70		72.3		19.9		58.8		70.4		Quarterly														
	Chloroform (ug/L)	70		1270		1500		1340		1680		1210		4030*		2410		2110		4170		3420		1680		Quarterly												
	Chloride (mg/L)	58.31		63.5		77		73.6		70.4		63.1		87.8 77.9*		72.1		70.8		77.3		63.8		62.3		65.7	Quarterly											
	Carbon Tetrachloride (ug/L)	5		NA		3.15		NA		NA		NA		<1.0		<1.0		NA		NA		<1.0		NA		<1.0	NA	<1.0	NA	Quarterly								
	Field pH (S.U.)	6.74 - 8.5		6.51		6.71		6.70		6.96		7.31		6.85		6.43		7.41		6.71		6.82		6.83		6.93	Quarterly											
	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	Quarterly											
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	Quarterly											
	Chloride (mg/L)	128		128		129		126		117		119		127		130		126		131		128		124		134	Quarterly											
	Uranium (ug/L)	8.32		8.36		7.4		6.85		7.08		6.31		8.22		7.48		7.07		6.91		8.57		NA		Quarterly												
	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	Quarterly											
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	Quarterly											
	TDS (mg/L)	1320		1270		1390		1420		1260		1540		1380		1510		1440		1500		1460		1320		1500	Quarterly											
	Chloride (mg/L)	143		176		174		168		171		169		179		182		183		193		188		174		203	Quarterly											
	Selenium (ug/L)	71		NS		74.1		81.8		72.9		75.9		73.7		75.7		73.2		80.7		74.5		79.8		Quarterly												
	Field pH (S.U.)	6.5 - 8.5		6.94		7.32		7.28		6.37		7.92		7.10		6.98		7.36		7.35		6.99		7.23		Quarterly												
	Sulfate (mg/L)	532		611		644		611		668		630		659		659		656		666		637		609		656	Quarterly											
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	Quarterly											
	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	Quarterly											
	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	Quarterly											
	Selenium (ug/L)	12.5		11.0		10.8		22.6		11.8		16.1		13.6		8.01		<5		19.8		<5		<5		Quarterly												
	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	Quarterly											
<b>Required Semi-Annual Sampling Wells</b>																																						
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	3/12/2013	173	NS	NA	NS	NA	5/21/2013	127	NS	NA	7/23/2013	83.9	NS	NA	NS	NA	NS	NA	12/4/2013	113	NS	NA	Semi-Annually											
	Tetrahydrofuran (ug/L)	11.5		NA		12.6		NA		NA		3.26		NA		1.86		NA		NA		5.51		NA		Semi-Annually												
	Sulfate (mg/L)	838		NA		761		NA		NA		839		NA		911		NA		NA		930		NA		Semi-Annually												
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	Semi-Annually											
	Field pH (S.U.)	6.5 - 8.5		NA		6.20		NA		NA		7.14		NA		6.46		NA		NA		6.78		NA		Semi-Annually												
	Sulfate (mg/L)	3663		NA		NA		NA		NA		2180		NA		NA		NA		NA		3760		NA		Semi-Annually												
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		NA		NA		0.456		NA		NA		NA		NA		1.21		NA		Semi-Annually												
MW-03A (Class III)	Fluoride (Mg/L)	0.68	NS	NA	3/13/2013	0.902	NS	NA	NS	NA	5/23/2013	0.994	NS	NA	7/19/2013	1.18	NS	NA	NS	NA	NS	NA	12/11/2013	1.28	NS	NA	Semi-Annually											
	Field pH (S.U.)	6.5 - 8.5		NA		6.84		NA		NA		7.10		NA		6.50		NA		NA		6.98		NA		Semi-Annually												
	Sulfate (mg/L)	3640		NA		3480		NA		NA		3120		NA		3670		NA		NA		3360		NA		Semi-Annually												
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.22		NA		NA		1.11		NA		1.09		NA		NA		1.52		NA		Semi-Annually												
	TDS (mg/L)	5805		NA		5750		NA		NA		6020		NA		5860		NA		NA		5940		NA		Semi-Annually												
MW-05 (Class II)	Selenium (ug/L)	89	NS	NA	3/11/2013	36	NS	NA	NS	NA	5/14/2013	75.6	NS	NA	7/18/2013	79.7	NS	NA	NS	NA	NS	NA	12/4/2013	20.1	NS	NA	Semi-Annually											
	Uranium (ug/L)	7.5		NA		NA		NA		NA		1.33		NA		0.574		NA		NA		NA		NA		Semi-Annually												
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/6/2013	6.56	NS	NA	NS	NA	5/15/2013	7.19	NS	NA	7/17/2013	6.60	NS	NA	NS	NA	NS	NA	12/9/2013	6.69	NS	NA	Semi-Annually											
	Selenium (ug/L)	25		NA		19.6		NA		NA		19.0		NA		20.5		NA		NA		21.7		NA		Semi-Annually												
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	Semi-Annually											
	Field pH (S.U.)	6.62 - 8.5		NA		6.75		NA		NA		7.27		NA		6.68		NA		NA		6.61		NA		Semi-Annually												

Q1 2013 Results									Q2 2013 Results						Q3 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	Sample Frequency
Required Semi-Annual Sampling Wells, continued																											
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	2/25/2013	3.26	NS	NA	NS	NA	5/20/2013	2.81	NS	NA	7/15/2013	3.32	NS	NA	NS	NA	NS	NA	12/3/2013	3.06	NS	NA	Semi-Annually
	Sulfate (mg/L)	1938.9		NA		1270		NA		1860		NA		1860		NA		1860		NA		2000		NA		NA	NA
	Field pH (S.U.)	6.25-8.5		NA		6.35		NA		6.97		NA		6.45		NA		6.45		NA		6.38		NA		NA	NA
	TDS (mg/L)	3198.77		NA		3350		NA		3160		NA		3170		NA		3170		NA		3240		NA		NA	NA
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	3/13/2013	6.50	NS	NA	NS	NA	5/20/2013	7.16	NS	NA	7/15/2013	6.91	NS	NA	NS	NA	NS	NA	12/3/2013	6.58	NS	NA	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		1.11		NA		1.19		NA		<1.00		NA		NA		NA		<1.00		NA		NA	
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		3.61		NA		4.21		NA		3.66		NA		NA		NA		3.70		NA		NA	
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/11/2013	6.37	NS	NA	NS	NA	5/23/2013	7.23	NS	NA	7/18/2013	6.61	NS	NA	NS	NA	NS	NA	12/18/2013	7.21	NS	NA	Semi-Annually
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	3/13/2013	2.0	NS	NA	NS	NA	5/22/2013	1.32	NS	NA	7/19/2013	6.72	NS	NA	NS	NA	NS	NA	12/12/2013	1.15	NS	NA	Semi-Annually
	Fluoride (Mg/L)	0.36		NA		0.355		NA		0.211		NA		0.288		NA		NA		NA		0.310		NA		NA	
	Thallium (ug/L)	1		NA		0.88		NA		0.618		NA		1.64		NA		NA		NA		0.707		NA		NA	
	Field pH (S.U.)	6.5 - 8.5		NA		6.29		NA		6.77		NA		5.80		NA		NA		NA		6.08		NA		NA	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/25/2013	7.94	NS	NA	NS	NA	5/21/2013	7.09	NS	NA	7/17/2013	6.97	NS	NA	NS	NA	NS	NA	12/4/2013	7.89	NS	NA	Semi-Annually
	Chloride (mg/L)	38		NA		50.3		NA		44.3		NA		44.2		NA		NA		NA		45.0		NA		NA	
	Sulfate (mg/L)	462		NA		431		NA		497		NA		NA		NA		NA		NA		442		NA		NA	
	TDS (mg/L)	1075		NA		1140		NA		1110		NA		1110		NA		NA		NA		1100		NA		NA	
	Gross Alpha minus Rn & U (pCi/L)	2		NA		<1.0		NA		1.57		NA		<1.00		NA		NA		NA		1.28		NA		NA	
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	3/5/2013	110	NS	NA	NS	NA	5/15/2013	102	NS	NA	7/17/2013	107	NS	NA	NS	NA	NS	NA	12/4/2013	109	NS	NA	Semi-Annually
	Cadmium (ug/L)	5.2		NA		NA		NA		4.61		NA		NA		NA		NA		4.74		NA		NA			
	Uranium (ug/L)	4.9		NA		NA		NA		3.58		NA		NA		NA		NA		3.34		NA		NA			
	Vanadium (ug/L)	30		NA		NA		NA		<15.0		NA		NA		NA		NA		<15.0		NA		NA			
	Manganese (ug/L)	1837		NA		1680		NA		1730		NA		1650		NA		NA		1530		NA		NA			
	Field pH (S.U.)	6.1 - 8.5		NA		6.00		NA		6.63		NA		5.97		NA		NA		6.10		NA		NA			
MW-29 (Class III)	Manganese (ug/L)	5624	NS	NA	3/6/2013	5340	NS	NA	NS	NA	5/23/2013	5140	NS	NA	7/17/2013	5140	NS	NA	NS	NA	NS	NA	11/20/2013	5320	NS	NA	Semi-Annually
	TDS (mg/L)	4400		NA		4500		NA		4340		NA		4270		NA		NA		4370		NA		NA			
	Field pH (S.U.)	6.46 - 8.5		NA		6.36		NA		6.88		NA		6.37		NA		NA		6.35		NA		NA			
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	2/19/2013	5.02	NS	NA	NS	NA	5/13/2013	3.72	NS	NA	7/9/2013	6.46	NS	NA	NS	NA	NS	NA	11/18/2013	1.86	NS	NA	Semi-Annually
	Field pH (S.U.)	6.4 - 8.5		NA		6.52		NA		7.10		NA		6.39		NA		NA		6.29		NA		NA			

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.  
 \* Data are reported from the 6/5/13 chlorofm program sample.

This constituent was removed from accelerated monitoring pursuant to the DRC letter dated November 14, 2013. The constituent exceeded the GWCL in the 4th quarter sample and will be sampled monthly beginning on or before March 2014.

Pursuant to the RC letter of November 14, 2013, these constituents will no longer be monitored on an accelerated schedule. These constituents will be dropped from this report after this quarter.

Table 3 – GWCL Exceedances for Second Quarter 2014 under the August 24, 2012 GWDP

Q1 2014 Results																
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	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	Sample Frequency	
<b>Required Quarterly Sampling Wells</b>																
MW-11 (Class II)	Manganese (ug/L)	131.29	1/8/2014	<b>141</b>	2/24/2014	<b>163</b>	3/11/2014	<b>134</b>	4/25/2014	<b>136</b>	5/14/2014	128	6/3/2014	<b>166</b>	Quarterly	
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/8/2014	6.60	2/24/2014	<b>6.16</b>	3/11/2014	<b>6.33</b>	4/23/2014	6.84	5/13/2014	6.60	6/3/2014	7.63	Quarterly	
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/7/2014	<b>6.37</b>	2/13/2014	<b>6.10</b>	3/10/2014	<b>6.27</b>	4/28/2014	7.18	5/13/2014	6.80	6/2/2014	6.74	Quarterly	
	Cadmium (ug/L)	1.5		1.39		1.29		1.29		0.409		1.34		1.24	Quarterly	
	Fluoride (mg/L)	0.42		0.297		0.313		0.355		0.409		0.321		0.328	Quarterly	
	Uranium	6.5		NA		5.83		6.26		<b>10.6</b>		<b>7.43</b>		6.07	Quarterly	
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/8/2014	<b>2.42</b>	2/24/2014	<b>2.12</b>	3/12/2014	<b>1.30</b>	4/30/2014	<b>1.20</b>	5/14/2014	<b>1.64</b>	6/5/2014	<b>1.42</b>	Quarterly	
	Uranium (ug/L)	41.8		<b>81.7</b>		<b>72.2</b>		<b>51.8</b>		<b>96.0</b>		<b>90.6</b>		<b>75.0</b>	Quarterly	
	Chloroform (ug/L)	70		<b>1580</b>		<b>2810</b>		<b>2800</b>		<b>1310</b>		<b>1580</b>		<b>1450</b>	Quarterly	
	Chloride (mg/L)	58.31		<b>69.7</b>		<b>70.4</b>		<b>61.0</b>		<b>62.1</b>		<b>61.0</b>		<b>63.2</b>	Quarterly	
	Carbon Tetrachloride (ug/L)	5		NA		NA		<b>6.86</b>		NA		NA		<1.0	<1.0	Quarterly
	Field pH (S.U.)	6.74 - 8.5		6.80		6.78		<b>6.50</b>		7.19		7.13		6.78	Quarterly	
Dichloromethane (Methylene Chloride) (ug/L)	5	<b>6.52</b>	<b>25.8</b>	<b>15.5</b>	<b>5.54</b>	<b>10.2</b>	<b>6.73</b>	Quarterly								
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/8/2014	<b>20.3</b>	2/25/2014	<b>18.4</b>	3/11/2014	<b>21.3</b>	4/23/2014	<b>18.3</b>	5/14/2014	<b>17.9</b>	6/3/2014	<b>19.4</b>	Quarterly	
	Chloride (mg/L)	128		<b>131</b>		<b>135</b>		<b>144</b>		<b>154</b>		128		128	Quarterly	
	Uranium (ug/L)	8.32		NA		6.83		7.84		6.84		<b>9.82</b>		7.35	Quarterly	
	Selenium (ug/L)	34		<b>35.6</b>		<b>35.8</b>		<b>38.0</b>		32.8		<b>37.0</b>		<b>35.4</b>	Quarterly	
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/7/2014	<b>24.0</b>	2/17/2014	<b>20.6</b>		<b>26.2</b>	4/28/2014	<b>19.1</b>	5/13/2014	<b>23.3</b>	6/2/2014	<b>23.1</b>	Quarterly	
	TDS (mg/L)	1320		<b>1510</b>		<b>1460</b>		<b>1490</b>		<b>1440</b>		<b>1510</b>		<b>1520</b>	Quarterly	
	Chloride (mg/L)	143		<b>194</b>		<b>197</b>		<b>230</b>		<b>230</b>		<b>200</b>		<b>173</b>	Quarterly	
	Selenium (ug/L)	71		<b>74.4</b>		<b>75.8</b>		<b>77.2</b>		<b>85.4</b>		<b>74.5</b>		69.4	Quarterly	
	Field pH (S.U.)	6.5 - 8.5		7.13		<b>6.45</b>		6.53		7.45		6.83		8.23	Quarterly	
Sulfate (mg/L)	532	<b>558</b>	480	<b>681</b>	527	<b>639</b>	<b>555</b>	Quarterly								
MW-35 (Class II)	Manganese (ug/L)	200	1/8/2014	<b>252</b>	2/11/2014	<b>247</b>	2/26/14	<b>204</b>	4/25/2014	194	5/14/2014	<b>249</b>	6/4/2014	<b>202</b>	Quarterly	
	Thallium (ug/l)	0.5		<b>0.535</b>		<0.5		<0.5		<b>0.582</b>		<b>0.521</b>		<0.5	Quarterly	
	Gross Alpha minus Rn & U (pCi/L)	3.75		<b>4.12</b>		<b>3.98</b>		<b>4.33</b>		2.95		3.67		3.36	Quarterly	
	Selenium (ug/L)	12.5		8.95		12.3		<b>14.1</b>		<b>18.6</b>		<b>17.0</b>		<b>13.9</b>	Quarterly	
Uranium (ug/L)	7.5	<b>20.8</b>	<b>20.6</b>	<b>21.5</b>	<b>30.6</b>	<b>26.9</b>	<b>21.9</b>	Quarterly								
<b>Required Semi-Annual Sampling Wells</b>																
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	NS	NA	2/20/2014	76.8	NS	NA	NS	NA	5/28/2014	82.3	Semi-Annually	
	Tetrahydrofuran (ug/L)	11.5		NA		NA		3.25		NA		NA		3.39	Semi-Annually	
	Sulfate (mg/L)	838		NA		NA		836		NA		NA		<b>909</b>	Semi-Annually	
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	NS	NA	2/26/2014	37.0	NS	NA	NS	NA	5/30/2014	<b>69.5</b>	Semi-Annually	
	Field pH (S.U.)	6.5 - 8.5		NA		NA		<b>6.23</b>		NA		NA		6.56	Semi-Annually	
	Sulfate (mg/L)	3663		NA		NA		NA		NA		NA		3460	Semi-Annually	
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		NA		NA		NA		0.573	Semi-Annually	
Fluoride (Mg/L)	0.68	NA	NA	<b>0.771</b>	NA	NA	<b>1.02</b>	Semi-Annually								
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	Semi-Annually	
	Sulfate (mg/L)	3640		NA		NA		3100		NA		NA		<b>3830</b>	Semi-Annually	
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		0.849		NA		NA		0.97	Semi-Annually	
	TDS (mg/L)	5805		NA		NA		5600		NA		NA		5790	Semi-Annually	
	Selenium (ug/L)	89		NA		NA		<b>92.1</b>		NA		NA		<b>104</b>	Semi-Annually	
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	NS	NA	2/12/2014	<b>22.0</b>	NS	NA	NS	NA	6/4/2014	2.42	Semi-Annually	
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	NS	NA	2/12/2014	<b>6.13</b>	NS	NA	NS	NA	6/4/2014	7.10	Semi-Annually	
	Selenium (ug/L)	25		NA		NA		23.7		NA		NA		<b>17.2</b>	Semi-Annually	
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	Semi-Annually	
	Field pH (S.U.)	6.62 - 8.5		NA		NA		<b>6.51</b>		NA		NA		6.91	Semi-Annually	

Q1 2014 Results															
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	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	Sample Frequency
Required Semi-Annual Sampling Wells, continued															
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	NS	NA	2/19/2014	2.77	NS	NA	NS	NA	5/27/2014	2.42	Semi-Annually
	Sulfate (mg/L)	1938.9		NA		NA		1650		NA		2020		Semi-Annually	
	Field pH (S.U.)	6.25-8.5		NA		NA		6.16		NA		7.04		Semi-Annually	
	TDS (mg/L)	3198.77		NA		NA		3080		NA		3260		Semi-Annually	
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	NS	NA	2/18/2014	6.29	NS	NA	NS	NA	5/27/2014	7.38	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		NA		<1.0		NA		2.24		Semi-Annually	
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NA		3.82		NA		3.68		Semi-Annually	
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	NS	NA	3/5/2014	6.52	NS	NA	NS	NA	6/11/2014	6.67	Semi-Annually
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	NS	NA	3/6/2014	5.92	NS	NA	NS	NA	5/30/2014	2.91	Semi-Annually
	Fluoride (mg/L)	0.36		NA		0.234		NA		0.337		Semi-Annually			
	Thallium (ug/L)	1		NA		1.85		NA		1.23		Semi-Annually			
	Field pH (S.U.)	6.5 - 8.5		NA		NA		5.89		NA		6.07		Semi-Annually	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	NS	NA	2/25/2014	7.98	NS	NA	NS	NA	5/28/2014	7.35	Semi-Annually
	Chloride (mg/L)	38		NA		47.0		NA		45.9		Semi-Annually			
	Sulfate (mg/L)	462		NA		411		NA		484		Semi-Annually			
	TDS (mg/L)	1075		NA		1040		NA		1040		Semi-Annually			
	Gross Alpha minus Rn & U (pCi/L)	2		NA		1.08		NA		2.33		Semi-Annually			
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	NS	NA	2/26/2014	113	NS	NA	NS	NA	6/18/2014	114	Semi-Annually
	Cadmium (ug/L)	5.2		NA		NA		5.41		Semi-Annually					
	Uranium (ug/L)	4.9		NA		NA		61.3		Semi-Annually					
	Vanadium (ug/L)	30		NA		NA		109		Semi-Annually					
	Manganese (ug/L)	1837		NA		1650		NA		1750		Semi-Annually			
	Field pH (S.U.)	6.1 - 8.5		NA		NA		6.01		NA		6.78		Semi-Annually	
MW-29 (Class III)	Manganese (ug/L)	5624	NS	NA	NS	NA	2/25/2014	5170	NS	NA	NS	NA	6/3/2014	4700	Semi-Annually
	TDS (mg/L)	4400		NA		4500		NA		4200		Semi-Annually			
	Field pH (S.U.)	6.46 - 8.5		NA		NA		6.78		NA		7.98		Semi-Annually	
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	NS	NA	2/11/2014	1.94	NS	NA	NS	NA	5/27/2014	4.35	Semi-Annually
	Field pH (S.U.)	6.4 - 8.5		NA		NA		6.15		NA		6.64		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.  
 \* Data are reported from the 6/5/13 chlorofm program sample.

Pursuant to the DRC letter of June 11, 2014, these constituents will no longer be monitored on an accelerated schedule. These constituents will be dropped from this report after this quarter.

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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

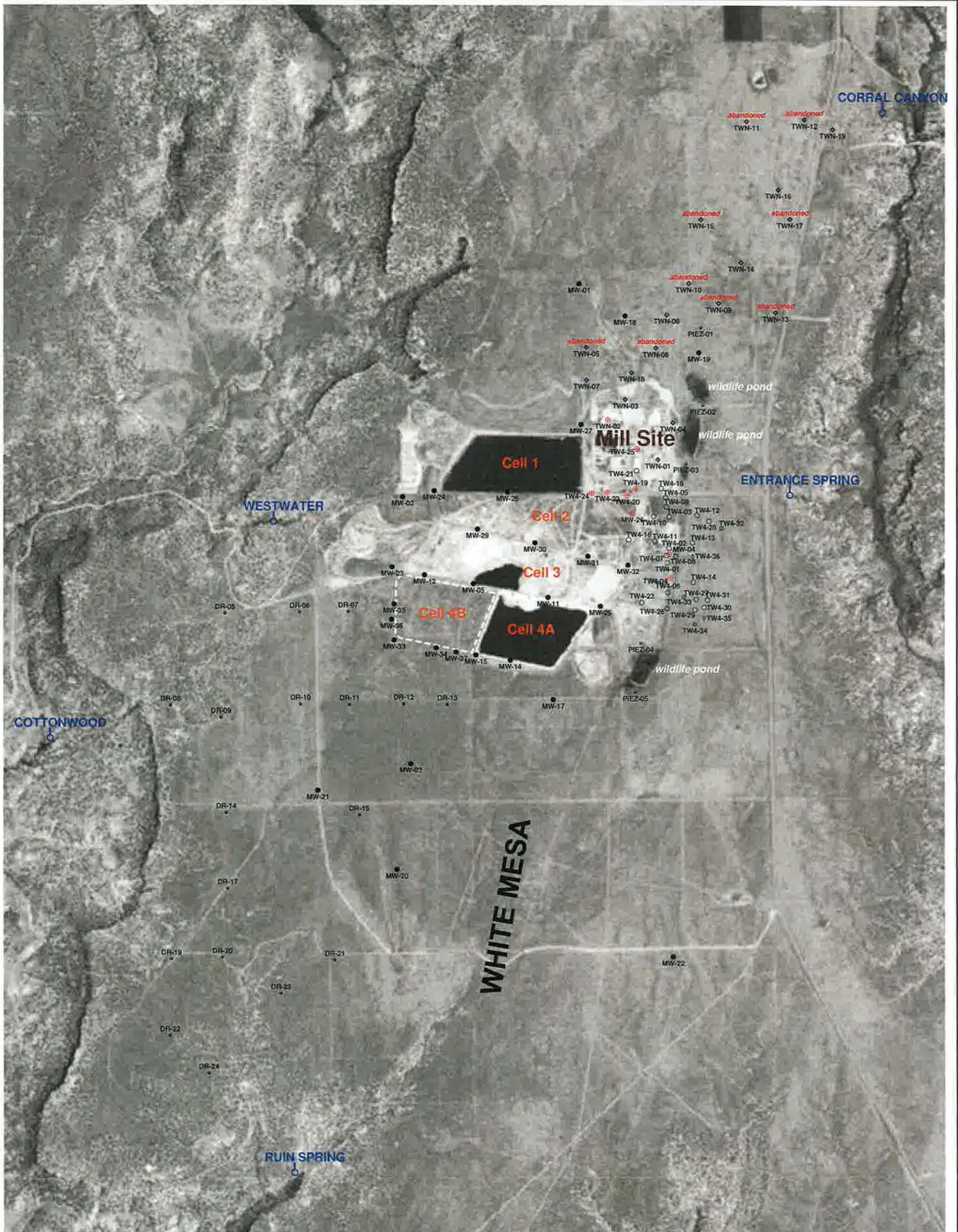
Tab H Kriged Current Quarterly Groundwater Contour Map

Tab I Groundwater Time Concentration Plots

Tab J CSV Transmittal Letter

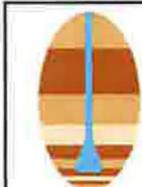
Tab A

Site Plan and Perched Well Locations White Mesa Site



**EXPLANATION**

- TW4-19  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
- TW4-32  temporary perched monitoring well installed September, 2013
- TW4-35  temporary perched monitoring well installed May, 2014
- RUIN SPRING  seep or spring



**HYDRO  
GEO  
CHEM, INC.**

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

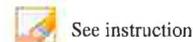
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug14/Uwelloc0614.srf	A-1

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 2014

Location (well name): MW-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-01\_05282014

Date and Time for Purging 5/28/2014

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 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 118.00

Depth to Water Before Purging 64.00

Casing Volume (V) 4" Well: 0 (.653h)  
3" Well: 19.81 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>0932</u>	Gal. Purged	<u>40.57</u>
Conductance	<u>1999</u>	pH	<u>6.90</u>
Temp. °C	<u>16.10</u>		
Redox Potential Eh (mV)	<u>269</u>		
Turbidity (NTU)	<u>4.3</u>		

Time	<u>0933</u>	Gal. Purged	<u>40.79</u>
Conductance	<u>1998</u>	pH	<u>7.02</u>
Temp. °C	<u>16.05</u>		
Redox Potential Eh (mV)	<u>258</u>		
Turbidity (NTU)	<u>4.0</u>		

Time	<u>934</u>	Gal. Purged	<u>41.01</u>
Conductance	<u>1995</u>	pH	<u>7.06</u>
Temp. °C	<u>16.02</u>		
Redox Potential Eh (mV)	<u>250</u>		
Turbidity (NTU)	<u>4.0</u>		

Time	<u>0935</u>	Gal. Purged	<u>41.23</u>
Conductance	<u>1999</u>	pH	<u>7.11</u>
Temp. °C	<u>16.01</u>		
Redox Potential Eh (mV)	<u>243</u>		
Turbidity (NTU)	<u>3.9</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 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

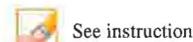
Comment

Arrived on site at 0621. Tanner and Garrin present for purge. Purge began at 0625 Purged well for a total of 190 minutes. water was clear. Purge ended and samples collected at 0935. Left site at 0945

**MW-01 05-28-2014** 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 2014

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

Field Sample ID MW-02\_05282014

Date and Time for Purging 5/28/2014 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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 128.80

Depth to Water Before Purging 109.81 Casing Volume (V) 4" Well: 12.40 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 27°

Time	<u>1312</u>	Gal. Purged	<u>25.38</u>
Conductance	<u>3814</u>	pH	<u>8.69</u>
Temp. °C	<u>16.88</u>		
Redox Potential Eh (mV)	<u>208</u>		
Turbidity (NTU)	<u>9.0</u>		

Time	<u>1313</u>	Gal. Purged	<u>25.60</u>
Conductance	<u>3901</u>	pH	<u>8.31</u>
Temp. °C	<u>16.85</u>		
Redox Potential Eh (mV)	<u>205</u>		
Turbidity (NTU)	<u>8.7</u>		

Time	<u>1314</u>	Gal. Purged	<u>25.82</u>
Conductance	<u>3884</u>	pH	<u>8.11</u>
Temp. °C	<u>17.00</u>		
Redox Potential Eh (mV)	<u>199</u>		
Turbidity (NTU)	<u>8.1</u>		

Time	<u>1315</u>	Gal. Purged	<u>26.04</u>
Conductance	<u>3888</u>	pH	<u>8.08</u>
Temp. °C	<u>16.92</u>		
Redox Potential Eh (mV)	<u>195</u>		
Turbidity (NTU)	<u>8.8</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

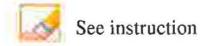
Comment

Arrived on site at 1112. Tanner and Garrin present for purge and sampling event. Purge began at 1115. Purged well for a total of 120 minutes. Water was mostly clear. Purge ended and samples collected at 1315. Left site at 1326

**MW-02 05-28-2014** 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 2014

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

Field Sample ID: MW-03\_05302014

Date and Time for Purging: 5/30/2014 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-20

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 97.00

Depth to Water Before Purging: 82.84 Casing Volume (V) 4" Well: 0 (.653h)  
 3" Well: 5.19 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>0837</u>	Gal. Purged	<u>10.19</u>
Conductance	<u>5985</u>	pH	<u>6.57</u>
Temp. °C	<u>16.37</u>		
Redox Potential Eh (mV)	<u>343</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0838</u>	Gal. Purged	<u>10.41</u>
Conductance	<u>5972</u>	pH	<u>6.56</u>
Temp. °C	<u>16.25</u>		
Redox Potential Eh (mV)	<u>342</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0839</u>	Gal. Purged	<u>10.63</u>
Conductance	<u>5980</u>	pH	<u>6.56</u>
Temp. °C	<u>16.10</u>		
Redox Potential Eh (mV)	<u>342</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0840</u>	Gal. Purged	<u>10.85</u>
Conductance	<u>5969</u>	pH	<u>6.56</u>
Temp. °C	<u>16.13</u>		
Redox Potential Eh (mV)	<u>342</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"/>

*General Inorganics*

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

Final Depth

Sample Time

 See instruction

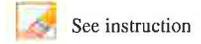
Comment

Arrived on site at 0749. Tanner and Garrin present for purge and sampling event. Purge began at 0750. Purged well for a total of 50 minutes, water was clear. Purge ended and samples were collected at 0840. Left site at 0848

**MW-03 05-30-2014** 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 2014

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

Field Sample ID MW-03A\_05302014

Date and Time for Purging 5/29/2014 and Sampling (if different) 5/30/2014

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-36

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 95.00

Depth to Water Before Purging 84.80 Casing Volume (V) 4" Well: 666 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 25°

Time	<u>1300</u>	Gal. Purged	<u>13.52</u>
Conductance	<u>5926</u>	pH	<u>7.28</u>
Temp. °C	<u>27.80</u>		
Redox Potential Eh (mV)	<u>200</u>		
Turbidity (NTU)	<u>5.6</u>		

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

Time	<u>0739</u>	Gal. Purged	<u>0</u>
Conductance	<u>6183</u>	pH	<u>6.61</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0749</u>	Gal. Purged	<u>0</u>
Conductance	<u>6158</u>	pH	<u>6.60</u>
Temp. °C	<u>15.19</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

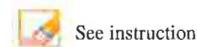
Comment

Arrived on site at 1152 Tanner and Garrin present for purge.  
 Purge began at 1155. Purged well for a total of 65 minutes. Purged well dry!  
 water was mostly clear. Purge ended at 1300. Left site at 1302  
 Arrived on site at 0734. Tanner and Garrin present to collect samples  
 Depth to water was 88.37. Samples collected at 0740. Left site at 0749

**MW-03A 05-29-2014** 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 2014

Location (well name): MW-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-05\_06042014

Date and Time for Purging 6/4/2014

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 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 138.50

Depth to Water Before Purging 106.30

Casing Volume (V) 4" Well: 21.02 (.653h)  
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1127</u>	Gal. Purged	<u>42.74</u>
Conductance	<u>3036</u>	pH	<u>7.55</u>
Temp. °C	<u>15.56</u>		
Redox Potential Eh (mV)	<u>325</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1128</u>	Gal. Purged	<u>42.96</u>
Conductance	<u>3037</u>	pH	<u>7.55</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>321</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1129</u>	Gal. Purged	<u>43.18</u>
Conductance	<u>3047</u>	pH	<u>7.55</u>
Temp. °C	<u>15.53</u>		
Redox Potential Eh (mV)	<u>319</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1130</u>	Gal. Purged	<u>43.40</u>
Conductance	<u>3050</u>	pH	<u>7.58</u>
Temp. °C	<u>15.52</u>		
Redox Potential Eh (mV)	<u>315</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"/>

General Inorganics

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

Final Depth

Sample Time

 See instruction

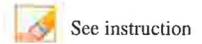
Comment

Arrived on site at 0805. Tanner and Garrin present for purge and sampling event.  
 Purge began at 0810. Purged well for a total of 200 minutes. water was clear.  
 Purge ended and samples collected at 1130. Left site at 1139

**MW-05 06-04-2014** 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 2014

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

Field Sample ID MW-11\_06032014

Date and Time for Purging 6/3/2014 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-25

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging 86.45 Casing Volume (V) 4" Well: 28.43 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>1102</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>3062</u>	pH	<u>7.46</u>
Temp. °C	<u>15.24</u>		
Redox Potential Eh (mV)	<u>265</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1103</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>3072</u>	pH	<u>7.36</u>
Temp. °C	<u>15.25</u>		
Redox Potential Eh (mV)	<u>264</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1104</u>	Gal. Purged	<u>58.37</u>
Conductance	<u>3075</u>	pH	<u>7.34</u>
Temp. °C	<u>15.34</u>		
Redox Potential Eh (mV)	<u>250</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1105</u>	Gal. Purged	<u>58.59</u>
Conductance	<u>3076</u>	pH	<u>7.33</u>
Temp. °C	<u>15.33</u>		
Redox Potential Eh (mV)	<u>296</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

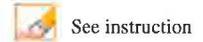
Comment

Arrived on site at 0631 Tanner and Garrin present for purge and sampling event. Purge began at 0635. Purged well for a total of 270 minutes. Water was clear. Purge ended and samples collected at 1105. Left site at 1115

**MW-11 06-03-2014** 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="1317"/>	Gal. Purged	<input type="text" value="39.49"/>
Conductance	<input type="text" value="4351"/>	pH	<input type="text" value="7.05"/>
Temp. °C	<input type="text" value="16.54"/>		
Redox Potential Eh (mV)	<input type="text" value="317"/>		
Turbidity (NTU)	<input type="text" value="5.0"/>		

Time	<input type="text" value="1318"/>	Gal. Purged	<input type="text" value="39.71"/>
Conductance	<input type="text" value="4355"/>	pH	<input type="text" value="7.07"/>
Temp. °C	<input type="text" value="16.56"/>		
Redox Potential Eh (mV)	<input type="text" value="317"/>		
Turbidity (NTU)	<input type="text" value="5.1"/>		

Time	<input type="text" value="1319"/>	Gal. Purged	<input type="text" value="39.92"/>
Conductance	<input type="text" value="4347"/>	pH	<input type="text" value="7.08"/>
Temp. °C	<input type="text" value="16.64"/>		
Redox Potential Eh (mV)	<input type="text" value="317"/>		
Turbidity (NTU)	<input type="text" value="5.1"/>		

Time	<input type="text" value="1320"/>	Gal. Purged	<input type="text" value="40.14"/>
Conductance	<input type="text" value="4359"/>	pH	<input type="text" value="7.10"/>
Temp. °C	<input type="text" value="16.66"/>		
Redox Potential Eh (mV)	<input type="text" value="318"/>		
Turbidity (NTU)	<input type="text" value="5.2"/>		

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

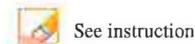
Comment

Arrived on site at 1012. Tanner and Garrin present for purge and sampling event. Purge began at 1015. Purged well for a total of 185 minutes. Water was a little murky but mostly clear. Purge ended and samples were collected at 1320. Left site at 1330

**MW-12 06-04-2014** 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 2014

Location (well name): MW-14 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-14\_06032014

Date and Time for Purging 6/3/2014 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 Quarterly GW Prev. Well Sampled in Sampling Event MW-29

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 128.70

Depth to Water Before Purging 103.30 Casing Volume (V) 4" Well: 16.58 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly cloudy and windy Ext'l Amb. Temp. °C (prior sampling event) 29°

Time	<u>1447</u>	Gal. Purged	<u>34.06</u>
Conductance	<u>4079</u>	pH	<u>7.78</u>
Temp. °C	<u>15.87</u>		
Redox Potential Eh (mV)	<u>285</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1448</u>	Gal. Purged	<u>34.28</u>
Conductance	<u>4116</u>	pH	<u>7.74</u>
Temp. °C	<u>15.88</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1449</u>	Gal. Purged	<u>34.50</u>
Conductance	<u>4105</u>	pH	<u>7.69</u>
Temp. °C	<u>15.79</u>		
Redox Potential Eh (mV)	<u>283</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1450</u>	Gal. Purged	<u>34.72</u>
Conductance	<u>4094</u>	pH	<u>7.63</u>
Temp. °C	<u>15.80</u>		
Redox Potential Eh (mV)	<u>282</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 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 1205. Tanner and Garin present for purge and sampling event. Purge began at 1210. Purged well for a total of 160 minutes. Purge ended and samples were collected at 1450. water was clear. Left site at 1500

**MW-14 06-03-2014** 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="0957"/>	Gal. Purged	<input type="text" value="42.74"/>
Conductance	<input type="text" value="4489"/>	pH	<input type="text" value="6.82"/>
Temp. °C	<input type="text" value="15.22"/>		
Redox Potential Eh (mV)	<input type="text" value="349"/>		
Turbidity (NTU)	<input type="text" value="1.4"/>		

Time	<input type="text" value="0958"/>	Gal. Purged	<input type="text" value="42.96"/>
Conductance	<input type="text" value="4497"/>	pH	<input type="text" value="6.88"/>
Temp. °C	<input type="text" value="15.23"/>		
Redox Potential Eh (mV)	<input type="text" value="349"/>		
Turbidity (NTU)	<input type="text" value="1.4"/>		

Time	<input type="text" value="0959"/>	Gal. Purged	<input type="text" value="43.18"/>
Conductance	<input type="text" value="4488"/>	pH	<input type="text" value="6.89"/>
Temp. °C	<input type="text" value="15.20"/>		
Redox Potential Eh (mV)	<input type="text" value="349"/>		
Turbidity (NTU)	<input type="text" value="1.5"/>		

Time	<input type="text" value="1000"/>	Gal. Purged	<input type="text" value="43.40"/>
Conductance	<input type="text" value="4484"/>	pH	<input type="text" value="6.91"/>
Temp. °C	<input type="text" value="15.28"/>		
Redox Potential Eh (mV)	<input type="text" value="349"/>		
Turbidity (NTU)	<input type="text" value="1.5"/>		

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

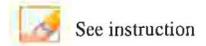
Comment

Arrived on site at 0636 Tanner and Garrin present for purge and sampling event. Purge began at 0640. Purged well for a total of 200 minutes. Water was clear. Purge ended and samples collected at 1000. Left site at 1009

**MW-15 06-04-2014** 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="1257"/>	Gal. Purged	<input type="text" value="51.42"/>
Conductance	<input type="text" value="4079"/>	pH	<input type="text" value="7.24"/>
Temp. °C	<input type="text" value="16.31"/>		
Redox Potential Eh (mV)	<input type="text" value="334"/>		
Turbidity (NTU)	<input type="text" value="2.1"/>		

Time	<input type="text" value="1258"/>	Gal. Purged	<input type="text" value="51.64"/>
Conductance	<input type="text" value="4082"/>	pH	<input type="text" value="7.15"/>
Temp. °C	<input type="text" value="16.20"/>		
Redox Potential Eh (mV)	<input type="text" value="334"/>		
Turbidity (NTU)	<input type="text" value="2.1"/>		

Time	<input type="text" value="1259"/>	Gal. Purged	<input type="text" value="51.86"/>
Conductance	<input type="text" value="4075"/>	pH	<input type="text" value="7.14"/>
Temp. °C	<input type="text" value="16.19"/>		
Redox Potential Eh (mV)	<input type="text" value="333"/>		
Turbidity (NTU)	<input type="text" value="2.0"/>		

Time	<input type="text" value="1300"/>	Gal. Purged	<input type="text" value="52.08"/>
Conductance	<input type="text" value="4070"/>	pH	<input type="text" value="7.12"/>
Temp. °C	<input type="text" value="16.10"/>		
Redox Potential Eh (mV)	<input type="text" value="333"/>		
Turbidity (NTU)	<input type="text" value="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 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 0853. Tanner and Garrin present for purge and sampling event. Purge began at 0900. Purged well for a total of 240 minutes. Water was clear. Purge ended and samples collected at 1300. Left site at 1309

**MW-17 05-30-2014** 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="1242"/>	Gal. Purged	<input type="text" value="83.97"/>
Conductance	<input type="text" value="3615"/>	pH	<input type="text" value="6.98"/>
Temp. °C	<input type="text" value="14.92"/>		
Redox Potential Eh (mV)	<input type="text" value="256"/>		
Turbidity (NTU)	<input type="text" value="7.3"/>		

Time	<input type="text" value="1243"/>	Gal. Purged	<input type="text" value="84.19"/>
Conductance	<input type="text" value="3620"/>	pH	<input type="text" value="7.00"/>
Temp. °C	<input type="text" value="15.00"/>		
Redox Potential Eh (mV)	<input type="text" value="255"/>		
Turbidity (NTU)	<input type="text" value="7.5"/>		

Time	<input type="text" value="1244"/>	Gal. Purged	<input type="text" value="84.41"/>
Conductance	<input type="text" value="3623"/>	pH	<input type="text" value="7.01"/>
Temp. °C	<input type="text" value="14.95"/>		
Redox Potential Eh (mV)	<input type="text" value="252"/>		
Turbidity (NTU)	<input type="text" value="7.5"/>		

Time	<input type="text" value="1245"/>	Gal. Purged	<input type="text" value="84.63"/>
Conductance	<input type="text" value="3616"/>	pH	<input type="text" value="7.04"/>
Temp. °C	<input type="text" value="14.98"/>		
Redox Potential Eh (mV)	<input type="text" value="251"/>		
Turbidity (NTU)	<input type="text" value="7.4"/>		

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"/>

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

Final Depth

Sample Time



See instruction

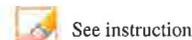
Comment

Arrived on site at 0610. Tanner and Garrin present for purge and sampling event. Purge began at 0615. Purged well for a total of 390 minutes water was mostly clear. Purge ended and samples collected at 1245. Left site at 1255

**MW-18 05-27-2014** 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 2014

Location (well name): MW-19\_05272014 MW-19 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-19\_05272014

Date and Time for Purging 5/27/2014 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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 149.00

Depth to Water Before Purging 58.98 Casing Volume (V) 4" Well: 58.78 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 19°

Time 1507 Gal. Purged 118.69

Conductance 1668 pH 7.59

Temp. °C 16.21

Redox Potential Eh (mV) 279

Turbidity (NTU) 0

Time 1508 Gal. Purged 118.91

Conductance 1650 pH 7.45

Temp. °C 16.23

Redox Potential Eh (mV) 277

Turbidity (NTU) 0

Time 1509 Gal. Purged 119.13

Conductance 1650 pH 7.40

Temp. °C 16.10

Redox Potential Eh (mV) 276

Turbidity (NTU) 0

Time 1510 Gal. Purged 119.35

Conductance 1655 pH 7.38

Temp. °C 16.08

Redox Potential Eh (mV) 275

Turbidity (NTU) 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

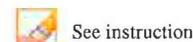
Comment

Arrived on site at 0556. Tanner and Garrin present for purge and sampling event. Purge began at 0600. Purged well for a total of 550 minutes. water was mostly clear. Purge ended and samples collected at 1510. Left site at 1520

**MW-19 05-27-2014** 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 2014

Location (well name): MW-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-20-06182014

Date and Time for Purging 5/29/2014

and Sampling (if different) 6/18/2014

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-03A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 411  $\mu$ MHOS/ cm

Well Depth(0.01ft): 91.00

Depth to Water Before Purging 84.09

Casing Volume (V) 4" Well: 4.51 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly cloudy

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

Time	<u>1211</u>	Gal. Purged	<u>6</u>
Conductance	<u>6714</u>	pH	<u>7.52</u>
Temp. °C	<u>15.91</u>		
Redox Potential Eh (mV)	<u>331</u>		
Turbidity (NTU)	<u>17.5</u>		

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

Time	<u>0849</u>	Gal. Purged	<u>0</u>
Conductance	<u>6120</u>	pH	<u>7.08</u>
Temp. °C	<u>16.88</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0854</u>	Gal. Purged	<u>0</u>
Conductance	<u>6080</u>	pH	<u>7.10</u>
Temp. °C	<u>16.95</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   
 90.54

Sample Time

 See instruction

Comment

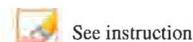
Arrived on site at 1200. Tanner and Garrin present to bail well. Bailing began at 1205. Filled up 5 Gallon bucket and took a set of parameters from the bucket. water was dirty with a grey/brown tint. bailed a total of 8 Gallons. bailed well dry. Left site at 1217

Arrived on site at 0845 Tanner and Garrin present to collect samples. Depth to water was 88.69 Samples bailed at 0850 Left site at 0855

**MW-20 05-29-2014** 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 2014

Location (well name): MW-22

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-22\_06112014

Date and Time for Purging 6/11/2014

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 Quarterly GW

Prev. Well Sampled in Sampling Event MW-26

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging 66.65

Casing Volume (V) 4" Well: 30.91 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 28°

Time	<u>1257</u>	Gal. Purged	<u>64.44</u>
Conductance	<u>7992</u>	pH	<u>4.50</u>
Temp. °C	<u>15.40</u>		
Redox Potential Eh (mV)	<u>382</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1258</u>	Gal. Purged	<u>64.66</u>
Conductance	<u>7996</u>	pH	<u>4.52</u>
Temp. °C	<u>15.39</u>		
Redox Potential Eh (mV)	<u>380</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1259</u>	Gal. Purged	<u>64.88</u>
Conductance	<u>7999</u>	pH	<u>4.53</u>
Temp. °C	<u>15.43</u>		
Redox Potential Eh (mV)	<u>381</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1300</u>	Gal. Purged	<u>65.10</u>
Conductance	<u>7998</u>	pH	<u>4.53</u>
Temp. °C	<u>15.40</u>		
Redox Potential Eh (mV)	<u>379</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

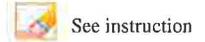
Comment

*Arrived on site at 0755. Tanner and Garrin present for purge and sampling event. Purge began at 0800. Purged well for a total of 300 minutes. Purge ended and samples were collected at 1300. water was left site at 1316*

**MW-22 06-11-2014** 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 2014

Location (well name): MW-23 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-23\_06112014

Date and Time for Purging 5/28/2014 and Sampling (if different) 6/11/2014

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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 132.00

Depth to Water Before Purging 114.07 Casing Volume (V) 4" Well: 11.70 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>1540</u>	Gal. Purged	<u>24.96</u>
Conductance	<u>4055</u>	pH	<u>6.30</u>
Temp. °C	<u>17.74</u>		
Redox Potential Eh (mV)	<u>289</u>		
Turbidity (NTU)	<u>12.1</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>3957</u>	pH	<u>6.70</u>
Temp. °C	<u>17.92</u>		
Redox Potential Eh (mV)	<u>349.</u>		
Turbidity (NTU)			

Time	<u>0910</u>	Gal. Purged	<u>0</u>
Conductance	<u>3974</u>	pH	<u>6.61</u>
Temp. °C	<u>17.79</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 1335. Tanner and Garrin present for purge. Purge began at 1340  
Purged well for a total of 120 minutes. Flow Rate decreased throughout purge until well ran dry. Purge ended at 1540. Left site at 1542  
Arrived on site at 0854. Tanner present to collect samples. Depth to water was 119.35  
samples collected at 0900. Left site at 0911

MW-23 05-28-2014

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



See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2014

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

Field Sample ID MW-24\_05302014

Date and Time for Purging 5/29/2014 and Sampling (if different) 5/30/2014

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-36

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 120.00

Depth to Water Before Purging 113.75 Casing Volume (V) 4" Well: 4.08 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Cloudy Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>0810</u>	Gal. Purged	<u>0810</u>
Conductance	<u>4538</u>	pH	<u>6.26</u>
Temp. °C	<u>16.85</u>		
Redox Potential Eh (mV)	<u>351</u>		
Turbidity (NTU)	<u>2.1</u>		

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

Time	<u>0709</u>	Gal. Purged	<u>0</u>
Conductance	<u>4610</u>	pH	<u>6.05</u>
Temp. °C	<u>15.98</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0720</u>	Gal. Purged	<u>0</u>
Conductance	<u>4616</u>	pH	<u>6.07</u>
Temp. °C	<u>16.04</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 =  .192

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

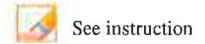
Arrived on site at 0651 Tanner and Garrin present for purge. Purge began at 0655 Purged well for a total of 75 minutes. Purged well dry! Flow rate decreased throughout Purge. Purge ended at 0810. Left site at 0811  
 Arrived on site at 0705. Tanner and Garrin present to collect samples. Depth to water was 113.85 samples collected at <sup>0710</sup>0705. Left site at 0721

MW-24 05-29-2014

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



Description of Sampling Event: 2nd Quarter Ground Water 2014

Location (well name): MW-25 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-25\_06022014

Date and Time for Purging 6/2/2014 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-31

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 115.00

Depth to Water Before Purging 74.15 Casing Volume (V) 4" Well: 26.67 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 20°

Time	<u>1052</u>	Gal. Purged	<u>53.59</u>
Conductance	<u>3275</u>	pH	<u>6.81</u>
Temp. °C	<u>15.16</u>		
Redox Potential Eh (mV)	<u>330</u>		
Turbidity (NTU)	<u>13.6</u>		

Time	<u>1053</u>	Gal. Purged	<u>53.81</u>
Conductance	<u>3263</u>	pH	<u>6.78</u>
Temp. °C	<u>15.20</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>15</u>		

Time	<u>1054</u>	Gal. Purged	<u>54.03</u>
Conductance	<u>3287</u>	pH	<u>6.76</u>
Temp. °C	<u>15.26</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>16</u>		

Time	<u>1055</u>	Gal. Purged	<u>54.25</u>
Conductance	<u>3294</u>	pH	<u>6.74</u>
Temp. °C	<u>15.24</u>		
Redox Potential Eh (mV)	<u>329</u>		
Turbidity (NTU)	<u>16</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

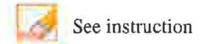
Comment

Arrived on site at 0641. Tanner and Garrin present for purge and sampling event. Purge began at 0645. Purged well for a total of 250 minutes. Water was mostly clear. Purge ended and samples collected at 1055. Left site at 1104

**MW-25 06-02-2014** 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="0629"/>	Gal. Purged	<input type="text" value="0"/>
Conductance	<input type="text" value="3562"/>	pH	<input type="text" value="6.78"/>
Temp. °C	<input type="text" value="16.21"/>		
Redox Potential Eh (mV)	<input type="text" value="235"/>		
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 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

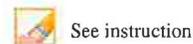
Arrived on site at 0625. Tanner Holliday present to collect samples. Samples collected at 0630. water was clear. Left site at 0636.

*Continuous Pumping Well*

**MW-26 06-05-2014** 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 2014

Location (well name): MW-27 Sampler Name and initials: Tanner Holliday TH

Field Sample ID MW-27\_05282014

Date and Time for Purging 5/28/2014 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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 95.00

Depth to Water Before Purging 53.19 Casing Volume (V) 4" Well: 27.30 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>1057</u>	Gal. Purged	<u>55.76</u>
Conductance	<u>1560</u>	pH	<u>7.83</u>
Temp. °C	<u>16.10</u>		
Redox Potential Eh (mV)	<u>274</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1058</u>	Gal. Purged	<u>55.98</u>
Conductance	<u>1573</u>	pH	<u>7.82</u>
Temp. °C	<u>16.06</u>		
Redox Potential Eh (mV)	<u>272</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1059</u>	Gal. Purged	<u>56.20</u>
Conductance	<u>1580</u>	pH	<u>7.80</u>
Temp. °C	<u>16.00</u>		
Redox Potential Eh (mV)	<u>270</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1100</u>	Gal. Purged	<u>56.42</u>
Conductance	<u>1571</u>	pH	<u>7.80</u>
Temp. °C	<u>15.87</u>		
Redox Potential Eh (mV)	<u>269</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"/>

*General Inorganics*

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

Final Depth

Sample Time

 See instruction

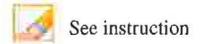
Comment

Arrived on site at 0636. Tanner and Garrin present for purge and sampling event  
 Purge began at 0640. Purged well for a total of 260 minutes  
 water was clear. Purge ended and samples collected at 1100.  
 Left site at 1109

**MW-27 05-28-2014** 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="1327"/>	Gal. Purged	<input type="text" value="38.40"/>
Conductance	<input type="text" value="4266"/>	pH	<input type="text" value="6.80"/>
Temp. °C	<input type="text" value="15.33"/>		
Redox Potential Eh (mV)	<input type="text" value="243"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1328"/>	Gal. Purged	<input type="text" value="38.62"/>
Conductance	<input type="text" value="4270"/>	pH	<input type="text" value="6.79"/>
Temp. °C	<input type="text" value="15.35"/>		
Redox Potential Eh (mV)	<input type="text" value="242"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1329"/>	Gal. Purged	<input type="text" value="38.84"/>
Conductance	<input type="text" value="4261"/>	pH	<input type="text" value="6.78"/>
Temp. °C	<input type="text" value="15.31"/>		
Redox Potential Eh (mV)	<input type="text" value="240"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1330"/>	Gal. Purged	<input type="text" value="39.06"/>
Conductance	<input type="text" value="4274"/>	pH	<input type="text" value="6.78"/>
Temp. °C	<input type="text" value="15.28"/>		
Redox Potential Eh (mV)	<input type="text" value="241"/>		
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

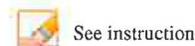
Comment

Arrived on site at 1025. Tanner and Garrin present for purge and sampling event. Purge began at 1030. Purged well for a total of 180 minutes. Water was clear. Purge ended and samples collected at 1330. Left site at 1340

**MW-28 06-18-2014** 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="1312"/>	Gal. Purged	<input type="text" value="34.06"/>
Conductance	<input type="text" value="4894"/>	pH	<input type="text" value="8.28"/>
Temp. °C	<input type="text" value="15.51"/>		
Redox Potential Eh (mV)	<input type="text" value="198"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1313"/>	Gal. Purged	<input type="text" value="34.28"/>
Conductance	<input type="text" value="4882"/>	pH	<input type="text" value="8.12"/>
Temp. °C	<input type="text" value="15.42"/>		
Redox Potential Eh (mV)	<input type="text" value="198"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1314"/>	Gal. Purged	<input type="text" value="34.50"/>
Conductance	<input type="text" value="4866"/>	pH	<input type="text" value="8.05"/>
Temp. °C	<input type="text" value="15.39"/>		
Redox Potential Eh (mV)	<input type="text" value="195"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1315"/>	Gal. Purged	<input type="text" value="34.72"/>
Conductance	<input type="text" value="4889"/>	pH	<input type="text" value="7.98"/>
Temp. °C	<input type="text" value="15.38"/>		
Redox Potential Eh (mV)	<input type="text" value="191"/>		
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

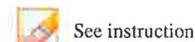
Comment

Arrived on site at 1030. Tanner and Garrin present for purge and sampling event. Purge began at 1035. Purged well for a total of 160 minutes. Purge ended and samples were collected at 1315. water was clear. Left site at 1324

**MW-29 06-03-2014** 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 2014

Location (well name): MW-30 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-30\_06032014

Date and Time for Purging 6/3/2014 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-11

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.10 Casing Volume (V) 4" Well: 22.78 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>1017</u>	Gal. Purged	<u>46.00</u>
Conductance	<u>2108</u>	pH	<u>6.84</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>2.4</u>		

Time	<u>1018</u>	Gal. Purged	<u>46.22</u>
Conductance	<u>2068</u>	pH	<u>6.85</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>348</u>		
Turbidity (NTU)	<u>2.5</u>		

Time	<u>1019</u>	Gal. Purged	<u>46.43</u>
Conductance	<u>2073</u>	pH	<u>6.89</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>346</u>		
Turbidity (NTU)	<u>2.5</u>		

Time	<u>1020</u>	Gal. Purged	<u>46.65</u>
Conductance	<u>2056</u>	pH	<u>6.89</u>
Temp. °C	<u>14.94</u>		
Redox Potential Eh (mV)	<u>343</u>		
Turbidity (NTU)	<u>2.6</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 0640 Tanner and Garrin present for purge and sampling event. Purge began at 0645. Purged well for a total of 215 minutes. water was clear, Purge ended and samples were collected at 1020 Left site at 1030

MW-30 06-03-2014

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 2014

Location (well name): MW-31 Sampler Name and initials: Tanner Holliday /TH

Field Sample ID MW-31-06022014

Date and Time for Purging 6/2/2014 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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging 67.85 Casing Volume (V) 4" Well: 40.58 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>1252</u>	Gal. Purged	<u>81.80</u>
Conductance	<u>2189</u>	pH	<u>8.50</u>
Temp. °C	<u>15.89</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1253</u>	Gal. Purged	<u>82.02</u>
Conductance	<u>2188</u>	pH	<u>8.40</u>
Temp. °C	<u>15.95</u>		
Redox Potential Eh (mV)	<u>302</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1254</u>	Gal. Purged	<u>82.24</u>
Conductance	<u>2182</u>	pH	<u>8.38</u>
Temp. °C	<u>15.83</u>		
Redox Potential Eh (mV)	<u>302</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1255</u>	Gal. Purged	<u>82.46</u>
Conductance	<u>2189</u>	pH	<u>8.23</u>
Temp. °C	<u>15.80</u>		
Redox Potential Eh (mV)	<u>301</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

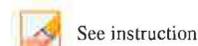
Arrived on site at 0630. Tanner and Garrin present for purge and sampling event. Purge began at 0635, Purged well for a total of 380 minutes. water was clear. Purge ended and samples collected at 1255. Left site at 1304

MW-31 06-02-2014

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



Description of Sampling Event: 2nd Quarter Groundwater 2014

Location (well name): MW-32

Sampler Name and initials: Gerrin Palmer / G.P.

Field Sample ID MW-32\_05232014

Date and Time for Purging 5/23/14

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 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 132.5

Depth to Water Before Purging 75.05

Casing Volume (V) 4" Well: 37.51 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event) 19°

Time	<u>1247</u>	Gal. Purged	<u>76.38</u>
Conductance	<u>3984</u>	pH	<u>6.66</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>201</u>		
Turbidity (NTU)	<u>15</u>		

Time	<u>1248</u>	Gal. Purged	<u>76.60</u>
Conductance	<u>3991</u>	pH	<u>6.64</u>
Temp. °C	<u>14.59</u>		
Redox Potential Eh (mV)	<u>197</u>		
Turbidity (NTU)	<u>17</u>		

Time	<u>1249</u>	Gal. Purged	<u>76.81</u>
Conductance	<u>3994</u>	pH	<u>6.63</u>
Temp. °C	<u>14.59</u>		
Redox Potential Eh (mV)	<u>190</u>		
Turbidity (NTU)	<u>16</u>		

Time	<u>1250</u>	Gal. Purged	<u>77.03</u>
Conductance	<u>3996</u>	pH	<u>6.64</u>
Temp. °C	<u>14.63</u>		
Redox Potential Eh (mV)	<u>185</u>		
Turbidity (NTU)	<u>17</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 0646. Garin present for purge and sampling event. Purge began at 0655. Purged well for a total of 355 minutes. Water was clear. Purge ended at 1250. Left site at 1307.

MW-32 05-23-2014

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



See instruction

Description of Sampling Event: 2nd Quarter Ground Water 2014

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

Field Sample ID MW-35\_06042014

Date and Time for Purging 6/4/2014 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-14

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.26 Casing Volume (V) 4" Well: 7.99 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>0742</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>4381</u>	pH	<u>6.81</u>
Temp. °C	<u>14.54</u>		
Redox Potential Eh (mV)	<u>342</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0743</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>4370</u>	pH	<u>6.81</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>341</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0744</u>	Gal. Purged	<u>16.05</u>
Conductance	<u>4367</u>	pH	<u>6.81</u>
Temp. °C	<u>14.55</u>		
Redox Potential Eh (mV)	<u>340</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0745</u>	Gal. Purged	<u>16.27</u>
Conductance	<u>4367</u>	pH	<u>6.85</u>
Temp. °C	<u>14.59</u>		
Redox Potential Eh (mV)	<u>356</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 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 were collected at 0745. Left site at 0801

MW-35 06-04-2014

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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="0737"/>	Gal. Purged	<input type="text" value="14.53"/>
Conductance	<input type="text" value="5125"/>	pH	<input type="text" value="6.91"/>
Temp. °C	<input type="text" value="14.83"/>		
Redox Potential Eh (mV)	<input type="text" value="355"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="0738"/>	Gal. Purged	<input type="text" value="14.75"/>
Conductance	<input type="text" value="5128"/>	pH	<input type="text" value="6.94"/>
Temp. °C	<input type="text" value="14.85"/>		
Redox Potential Eh (mV)	<input type="text" value="354"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="0739"/>	Gal. Purged	<input type="text" value="14.97"/>
Conductance	<input type="text" value="5120"/>	pH	<input type="text" value="6.95"/>
Temp. °C	<input type="text" value="14.90"/>		
Redox Potential Eh (mV)	<input type="text" value="352"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="0740"/>	Gal. Purged	<input type="text" value="15.19"/>
Conductance	<input type="text" value="5129"/>	pH	<input type="text" value="6.95"/>
Temp. °C	<input type="text" value="14.89"/>		
Redox Potential Eh (mV)	<input type="text" value="352"/>		
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

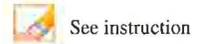
Arrived on site at 0625 Tanner and Garrin present for purge and sampling event.  
 Purge began at 0630 Purged well for a total of 70 minutes  
 water was clear. Purge ended and samples collected at 0740  
 Left site at 0750

MW-36 05-29-2014

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



Description of Sampling Event: 2nd Quarter Ground Water 2014

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

Field Sample ID MW-37-06182014

Date and Time for Purging 5/28/2014 and Sampling (if different) 6/18/2014

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-27

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 121.80

Depth to Water Before Purging 106.95 Casing Volume (V) 4" Well: 9.69 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>0832</u>	Gal. Purged	<u>6</u>
Conductance	<u>4605</u>	pH	<u>6.65</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>291</u>		
Turbidity (NTU)	<u>12.9</u>		

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

Time	<u>0829</u>	Gal. Purged	<u>0</u>
Conductance	<u>4575</u>	pH	<u>6.66</u>
Temp. °C	<u>15.27</u>		
Redox Potential Eh (mV)	<u>252</u>		
Turbidity (NTU)			

Time	<u>0834</u>	Gal. Purged	<u>0</u>
Conductance	<u>4591</u>	pH	<u>6.65</u>
Temp. °C	<u>15.31</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

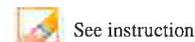
Comment

Arrived on site at 0821. Tanner and Garrin present to bail well dry. Started bailing at 0823. Bailed 5 Gallons and took a set of parameters. Bailed a total of 14 Gallons. Bailed well dry Left site at 0855  
 Arrived on site at 0822. Tanner and Garrin present to collect samples. Depth to water was 112.08 Samples bailed at 0830. Left site at 0835

MW-37 05-28-2014 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 2014

Location (well name): MW-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-65\_06042014

Date and Time for Purging 6/4/2014

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-14

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.26

Casing Volume (V) 4" Well: 7.99 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

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

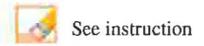
Comment

Duplicate of MW-35

MW-65 06-04-2014 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 2014

Location (well name): MW-70 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-70\_06112014

Date and Time for Purging: 6/11/2014 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-26

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 114.00

Depth to Water Before Purging: 666.1  
66.65 Casing Volume (V) 4" Well: 30.91 (.653h)  
3" Well: 0 (.367h)

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

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 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-22

**MW-70 06-11-2014** Do not touch this cell (SheetName)

Tab C

Field Data Worksheets Accelerated Monitoring

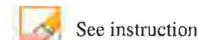
Tab C1

Field Data Worksheets Accelerated Monitoring

April 2014



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



Description of Sampling Event: April monthly Groundwater 2014

Location (well name): MW-11 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-11-04252014

Date and Time for Purging: 4/25/2014 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: Monthly GW Prev. Well Sampled in Sampling Event: MW-14

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 130

Depth to Water Before Purging: 86.66 Casing Volume (V) 4" Well: 28.30 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>1142</u>	Gal. Purged	<u>56.85</u>
Conductance	<u>2873</u>	pH	<u>7.69</u>
Temp. °C	<u>15.34</u>		
Redox Potential Eh (mV)	<u>323</u>		
Turbidity (NTU)	<u>4.1</u>		

Time	<u>1143</u>	Gal. Purged	<u>57.07</u>
Conductance	<u>2869</u>	pH	<u>7.70</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>316</u>		
Turbidity (NTU)	<u>4.0</u>		

Time	<u>1144</u>	Gal. Purged	<u>57.28</u>
Conductance	<u>2880</u>	pH	<u>7.71</u>
Temp. °C	<u>15.03</u>		
Redox Potential Eh (mV)	<u>311</u>		
Turbidity (NTU)	<u>4.0</u>		

Time	<u>1145</u>	Gal. Purged	<u>57.50</u>
Conductance	<u>2875</u>	pH	<u>7.71</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>305</u>		
Turbidity (NTU)	<u>4.0</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 0715. Garrin and David present. Purge began at 0720. Purged well for a total of 265 minutes. Water was clear during Purge. Purge ended and samples were collected at 1145. Left site at 1150.

**MW-11 04-25-2014** Do not touch this cell (SheetName)



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



See instruction

Description of Sampling Event: April Monthly Ground Water 2014

Location (well name): MW-14

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID MW-14-04232014

Date and Time for Purging 4/23/2014

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 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 128.70

Depth to Water Before Purging 103.16

Casing Volume (V) 4" Well: 16.67 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Cloudy and Windy

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

Time	<u>1427</u>	Gal. Purged	<u>32.98</u>
Conductance	<u>3879</u>	pH	<u>6.85</u>
Temp. °C	<u>14.58</u>		
Redox Potential Eh (mV)	<u>402</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1428</u>	Gal. Purged	<u>33.20</u>
Conductance	<u>3877</u>	pH	<u>6.84</u>
Temp. °C	<u>14.56</u>		
Redox Potential Eh (mV)	<u>402</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1429</u>	Gal. Purged	<u>33.41</u>
Conductance	<u>3890</u>	pH	<u>6.83</u> <u>6.84</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>408</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1430</u>	Gal. Purged	<u>33.63</u>
Conductance	<u>3891</u>	pH	<u>6.84</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>6.407</u>	<u>407</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

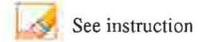
Comment

Arrived on site at 1150. Tanner and Garrin present for purge and sampling event  
 Purge began at 1155. Purged well for a total of 155 minutes.  
 water was clear. Purge ended and sample collected at 1430  
 Left site at 1433

**MW-14 04-23-2014** Do not touch this cell (SheetName)



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



Description of Sampling Event: April Ground Water 2014

Location (well name): MW-25 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-25\_04282014

Date and Time for Purging 4/28/2014 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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 115.00

Depth to Water Before Purging 73.86 Casing Volume (V) 4" Well: 26.86 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>1137</u>	Gal. Purged	<u>53.59</u>
Conductance	<u>3146</u>	pH	<u>7.20</u>
Temp. °C	<u>14.55</u>		
Redox Potential Eh (mV)	<u>298</u>		
Turbidity (NTU)	<u>120</u>		

Time	<u>1138</u>	Gal. Purged	<u>53.81</u>
Conductance	<u>3150</u>	pH	<u>7.16</u>
Temp. °C	<u>14.60</u>		
Redox Potential Eh (mV)	<u>296</u>		
Turbidity (NTU)	<u>115</u>		

Time	<u>1139</u>	Gal. Purged	<u>54.03</u>
Conductance	<u>3173</u>	pH	<u>7.20</u>
Temp. °C	<u>14.57</u>		
Redox Potential Eh (mV)	<u>294</u>		
Turbidity (NTU)	<u>113</u>		

Time	<u>1140</u>	Gal. Purged	<u>54.25</u>
Conductance	<u>3180</u>	pH	<u>7.18</u>
Temp. °C	<u>14.55</u>		
Redox Potential Eh (mV)	<u>294</u>		
Turbidity (NTU)	<u>110</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 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

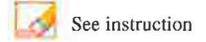
Comment

Arrived on site at 0725. Tanner and Garrin present for purge and sampling event. Purge started at 0730. Purged well for a total of 250 minutes water has a lot of tiny bubbles. Purge ended and samples were collected at 1140. Left site at 1147

**MW-25 04-28-2014** Do not touch this cell (SheetName)



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



Description of Sampling Event: April Ground Water 2014

Location (well name): MW-26 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-26\_04302014

Date and Time for Purging 4/30/2014 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-31

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 121.33

Depth to Water Before Purging 69.65 Casing Volume (V) 4" Well: 33.74 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy and Windy Ext'l Amb. Temp. °C (prior sampling event) 11°

Time	<u>1329</u>	Gal. Purged	<u>0</u>
Conductance	<u>3328</u>	pH	<u>7.19</u>
Temp. °C	<u>15.12</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)			

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 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

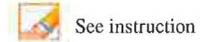
Comment

Arrived on site at 1324. Tanner and Garrin present to collect samples  
 Samples collected at 1330. Water was clear  
 Left site at 1334  
 Continuous Pumping Well.

**MW-26 04-30-2014** Do not touch this cell (SheetName)



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



Description of Sampling Event: April Monthly Ground Water 2014

Location (well name): MW-30 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-30\_04232014

Date and Time for Purging 4/23/2014 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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 74.95 Casing Volume (V) 4" Well: 22.88 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Partly Cloudy with wind Ext'l Amb. Temp. °C (prior sampling event) 18°

Time	<u>1517</u>	Gal. Purged	<u>46.00</u>
Conductance	<u>2130</u>	pH	<u>7.07</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>315</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1518</u>	Gal. Purged	<u>46.22</u>
Conductance	<u>2127</u>	pH	<u>7.07</u>
Temp. °C	<u>14.63</u>		
Redox Potential Eh (mV)	<u>314</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1519</u>	Gal. Purged	<u>46.43</u>
Conductance	<u>2131</u>	pH	<u>7.07</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>314</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1520</u>	Gal. Purged	<u>46.65</u>
Conductance	<u>2076</u>	pH	<u>7.06</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>313</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

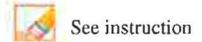
Comment

Arrived on site at 1140. Tanner and Garrin present for purge and sampling event. Purge began at 1145. Purged well for a total of 215 minutes water was mostly clear. Purge ended and samples collected at 1520. Left site at 1526

**MW-30 04-23-2014** Do not touch this cell (SheetName)



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



Description of Sampling Event: April Ground Water 2014

Location (well name): MW-31 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-31\_04282014

Date and Time for Purging 4/28/2014 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 1.0 pH Buffer 4.0 4.0

Specific Conductance 999 μMHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging 67.65 Casing Volume (V) 4" Well: 40.71 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>1357</u>	Gal. Purged	<u>81.80</u>
Conductance	<u>2089</u>	pH	<u>7.34</u>
Temp. °C	<u>14.38</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1358</u>	Gal. Purged	<u>82.02</u>
Conductance	<u>2086</u>	pH	<u>7.41</u>
Temp. °C	<u>14.40</u>		
Redox Potential Eh (mV)	<u>301</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1359</u>	Gal. Purged	<u>82.24</u>
Conductance	<u>2088</u>	pH	<u>7.41</u>
Temp. °C	<u>14.39</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1400</u>	Gal. Purged	<u>82.46</u>
Conductance	<u>2086</u>	pH	<u>7.45</u>
Temp. °C	<u>14.37</u>		
Redox Potential Eh (mV)	<u>296</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 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"/>

Sulfate  
 TDS  
 Chloride

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

Final Depth

Sample Time

 See instruction

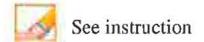
Comment

Arrived on site at 0735. Tanner and Garrin present for purge and sampling event. Purge began at 0740. Purged well for a total of 380 minutes, water was clear. Purge ended and samples collected at 1400. Left site at 1405

**MW-31 04-28-2014** Do not touch this cell (SheetName)



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



Description of Sampling Event: April monthly Groundwater 2014

Location (well name): MW-35 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-35-04252014

Date and Time for Purging: 4/25/2014 and Sampling (if different): NA

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

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: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 124.50

Depth to Water Before Purging: 112.39 Casing Volume (V) 4" Well: 7.90 (.653h)  
 3" Well: 0 (.367h)

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

Time: ~~0847~~ 0847 Gal. Purged: 15.62

Conductance: 4150 pH: 6.76

Temp. °C: 14.41

Redox Potential Eh (mV): 368

Turbidity (NTU): 0

Time: ~~0848~~ 0848 Gal. Purged: 15.84

Conductance: 4151 pH: 6.78

Temp. °C: 14.42

Redox Potential Eh (mV): 363

Turbidity (NTU): 0

Time: ~~0849~~ 0849 Gal. Purged: 16.05

Conductance: 4153 pH: 6.78

Temp. °C: 14.40

Redox Potential Eh (mV): 358

Turbidity (NTU): 0

Time: ~~0850~~ 0850 Gal. Purged: 16.27

Conductance: 4152 pH: 6.79

Temp. °C: 14.41

Redox Potential Eh (mV): 354

Turbidity (NTU): 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 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 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

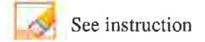
Comment

Arrived on site at 0730. Garrin and David present, Purge began at 0735. Purged well for a total of ~~75~~ 75 minutes. water was clear. Purge ended and samples were collected at 0850. Left site at 0855.

**MW-35 04-25-2014** Do not touch this cell (SheetName)



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



Description of Sampling Event: April Ground water 2014

Location (well name): MW-65 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-65\_04282014

Date and Time for Purging 4/28/2014 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 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 115.00

Depth to Water Before Purging 73.86 Casing Volume (V) 4" Well: 26.86 (.653h)  
 3" Well: 0 (.367h)

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

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 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 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-25

**MW-65 04-28-2014** Do not touch this cell (SheetName)

Tab C2

Field Data Worksheets Accelerated Monitoring

May 2014



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



See instruction

Description of Sampling Event: May Monthly Ground Water 2014

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

Field Sample ID MW-11\_05142014

Date and Time for Purging 5/14/2014 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 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 86.95

Casing Volume (V) 4" Well: 28.11 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Clear

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

Time	<u>1152</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>2931</u>	pH	<u>7.15</u>
Temp. °C	<u>15.20</u>		
Redox Potential Eh (mV)	<u>287</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1153</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>2911</u>	pH	<u>7.30</u>
Temp. °C	<u>15.25</u>		
Redox Potential Eh (mV)	<u>278</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1154</u>	Gal. Purged	<u>58.57</u>
Conductance	<u>2930</u>	pH	<u>7.40</u>
Temp. °C	<u>15.21</u>		
Redox Potential Eh (mV)	<u>262</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1155</u>	Gal. Purged	<u>58.59</u>
Conductance	<u>2932</u>	pH	<u>7.45</u>
Temp. °C	<u>15.15</u>		
Redox Potential Eh (mV)	<u>255</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

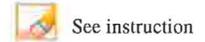
Arrived on site at 0721 Tamer and Garrin present for purge and sampling event.  
 Purge began at 0725. Purged well for a total of 270 minutes.  
 Water was clear. Purge ended and sample was collected at 1155  
 Left site at 1157

MW-11 05-14-2014

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



Description of Sampling Event: May Monthly Ground Water 2014

Location (well name): MW-14 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-14\_05132014

Date and Time for Purging: 5/13/2014 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: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 128.70

Depth to Water Before Purging: 103.70 Casing Volume (V) 4" Well: 16.32 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Clear and windy Ext'l Amb. Temp. °C (prior sampling event) 13°

Time	<u>1452</u>	Gal. Purged	<u>32.98</u>
Conductance	<u>3985</u>	pH	<u>6.50</u>
Temp. °C	<u>15.10</u>		
Redox Potential Eh (mV)	<u>271</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1453</u>	Gal. Purged	<u>33.20</u>
Conductance	<u>3989</u>	pH	<u>6.48</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>265</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1454</u>	Gal. Purged	<u>33.91</u>
Conductance	<u>3991</u>	pH	<u>6.54</u>
Temp. °C	<u>14.99</u>		
Redox Potential Eh (mV)	<u>260</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1455</u>	Gal. Purged	<u>33.63</u>
Conductance	<u>3990</u>	pH	<u>6.60</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>260</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

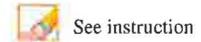
Arrived on site at 1215. Tanner and Garrin present for purge and sampling event.  
 Purge began at 1220. Purged well for a total of 155 minutes.  
 Purge ended and sample collected at 1455. water was clear.  
 Left site at 1500

MW-14 05-13-2014

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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="1157"/>	Gal. Purged	<input type="text" value="54.68"/>
Conductance	<input type="text" value="1490.."/> <input type="text" value="3080"/>	pH	<input type="text" value="6.77"/>
Temp. °C	<input type="text" value="17.99"/>		
Redox Potential Eh (mV)	<input type="text" value="257"/>		
Turbidity (NTU)	<input type="text" value="35"/>		

Time	<input type="text" value="1158"/>	Gal. Purged	<input type="text" value="54.90"/>
Conductance	<input type="text" value="3090"/>	pH	<input type="text" value="6.77"/>
Temp. °C	<input type="text" value="17.95"/>		
Redox Potential Eh (mV)	<input type="text" value="254"/>		
Turbidity (NTU)	<input type="text" value="37"/>		

Time	<input type="text" value="1159"/>	Gal. Purged	<input type="text" value="55.11"/>
Conductance	<input type="text" value="3061"/>	pH	<input type="text" value="6.78"/>
Temp. °C	<input type="text" value="17.95"/>		
Redox Potential Eh (mV)	<input type="text" value="250"/>		
Turbidity (NTU)	<input type="text" value="37"/>		

Time	<input type="text" value="1200"/>	Gal. Purged	<input type="text" value="55.33"/>
Conductance	<input type="text" value="3078"/>	pH	<input type="text" value="6.80"/>
Temp. °C	<input type="text" value="17.94"/>		
Redox Potential Eh (mV)	<input type="text" value="247"/>		
Turbidity (NTU)	<input type="text" value="38"/>		

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 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

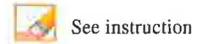
Comment

Arrived on site at 0742. Tanner and Garrin present for purge and sampling event. Purge began at 0745. Purged well for a total of 255 minutes. water was a little murky. Purge ended and samples collected at 1200. Left site at 1205

**MW-25 05-13-2014** 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="3500"/>	pH	<input type="text" value="7.13"/>
Temp. °C	<input type="text" value="15.45"/>		
Redox Potential Eh (mV)	<input type="text" value="276"/>		
Turbidity (NTU)	<input type="text" value="2.5"/>		

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.  
 $S/60 =$   10.0

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 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

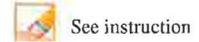
Arrived on site at 1357 Tanner and Garrin present to collect samples.  
 Samples collected at 1400 water was clear. Left site at 1406

Continuous pumping well

**MW-26 05-14-2014** Do not touch this cell (SheetName)



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



Description of Sampling Event: May Monthly Ground Water 2014

Location (well name): MW-30 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-30\_05142014

Date and Time for Purging: 5/14/2014 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: May Monthly GW Prev. Well Sampled in Sampling Event: MW-14

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999  $\mu$ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 75.60 Casing Volume (V) 4" Well: 22.46 (.653h)  
 3" Well: 0 (.367h)

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

Time	<u>1047</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>2103</u>	pH	<u>6.80</u>
Temp. °C	<u>15.13</u>		
Redox Potential Eh (mV)	<u>215</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1048</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>2107</u>	pH	<u>6.80</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>215</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1049</u>	Gal. Purged	<u>45.35</u>
Conductance	<u>2109</u>	pH	<u>6.87</u>
Temp. °C	<u>15.05</u>		
Redox Potential Eh (mV)	<u>214</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1050</u>	Gal. Purged	<u>45.57</u>
Conductance	<u>2112</u>	pH	<u>6.88</u>
Temp. °C	<u>15.04</u>		
Redox Potential Eh (mV)	<u>213</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

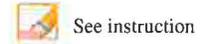
Comment

Arrived on site at 0716 Tanner and Garrin present for purge and sampling event. Purge began at 0720. Purged well for a total of 210 minutes water was mostly clear. Purge ended and samples collected at 1050. Left site at 1057.

Do not touch this cell (SheetName)



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



Description of Sampling Event: May Monthly Ground Water 2014

Location (well name): MW-31

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-31\_05132014

Date and Time for Purging 5/13/2014

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 999  $\mu$ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 68-10

Casing Volume (V) 4" Well: 40.42 (.653h)  
 3" Well: 0 (.367h)

Weather Cond. Clear

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

Time	<u>1357</u>	Gal. Purged	<u>81.80</u>
Conductance	<u>2135</u>	pH	<u>6.78</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>218</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1358</u>	Gal. Purged	<u>82.02</u>
Conductance	<u>2132</u>	pH	<u>6.79</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>223</u>	<u>273</u>	
Turbidity (NTU)	<u>0</u>		

Time	<u>1359</u>	Gal. Purged	<u>82.24</u>
Conductance	<u>2133</u>	pH	<u>6.82</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>211</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1400</u>	Gal. Purged	<u>82.46</u>
Conductance	<u>2127</u>	pH	<u>6.83</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)	<u>269</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   
 70.01

Sample Time

 See instruction

Comment

Arrived on site at 0735. Tanner and Garrin present for purge and sampling event  
 Purge began at 0740. Purged well for a total of 380 minutes.  
 water was clear  
 Purge ended and samples collected at 1400. Left site at 1407

**MW-31 05-13-2014** 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="1217"/>	Gal. Purged	<input type="text" value="15.62"/>
Conductance	<input type="text" value="4232"/>	pH	<input type="text" value="6.95"/>
Temp. °C	<input type="text" value="14.94"/>		
Redox Potential Eh (mV)	<input type="text" value="270"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1218"/>	Gal. Purged	<input type="text" value="15.84"/>
Conductance	<input type="text" value="4259"/>	pH	<input type="text" value="7.05"/>
Temp. °C	<input type="text" value="14.95"/>		
Redox Potential Eh (mV)	<input type="text" value="255"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1219"/>	Gal. Purged	<input type="text" value="16.05"/>
Conductance	<input type="text" value="4262"/>	pH	<input type="text" value="7.07"/>
Temp. °C	<input type="text" value="14.93"/>		
Redox Potential Eh (mV)	<input type="text" value="251"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1220"/>	Gal. Purged	<input type="text" value="16.27"/>
Conductance	<input type="text" value="4268"/>	pH	<input type="text" value="7.10"/>
Temp. °C	<input type="text" value="14.90"/>		
Redox Potential Eh (mV)	<input type="text" value="247"/>		
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 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

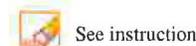
Comment

Arrived on site at ~~1200~~ 1100. Tanner and Garrin present for purge and sampling event. Purge began at 1105. Purged well for a total of ~~75~~ 75 minutes. water was clear. Purge ended and samples collected at 1220. Left site at 1230

**MW-35 05-14-2014** 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"/>	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 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

**MW-65 05-14-2014** Do not touch this cell (SheetName)

Tab D

Quarterly Depth to Water

NAME: Clay Most, Garrin Palmer, Tanner Holliday, Mike Palmer

DATE: 6/25/14

TIME	WELL	level	TIME	WELL	Level	TIME	WELL	Level	TIME	WELL	Level
1235	MW-1	64.02	900	MW-4	69.40	1339	PIEZ-1	63.54	NA	DR-1	Abandon
1006	MW-2	109.62	749	TW4-1	66.38	1250	PIEZ-2	34.92	NA	DR-2	Abandon
1303	MW-3	82.70	745	TW4-2	66.73	1310	PIEZ-3	46.06	959	DR-5	83.05
1304	MW-3A	84.70	739	TW4-3	53.71	1244	PIEZ-4	53.21	1003	DR-6	94.31
1313	MW-5	106.50	902	TW4-4	69.88	1247	PIEZ-5	51.73	1018	DR-7	92.08
1239	MW-11	86.40	735	TW4-5	62.59	1333	TWN-1	59.00	948	DR-8	51.16
1311	MW-12	108.25	754	TW4-6	69.93	842	TWN-2	30.89	940	DR-9	86.54
1031	MW-14	103.26	747	TW4-7	66.87	1318	TWN-3	38.16	1008	DR-10	78.06
1027	MW-15	106.11	752	TW4-8	65.84	1313	TWN-4	51.38	1258	DR-11	98.05
1250	MW-17	72.35	737	TW4-9	60.35		TWN-5	Abandon	1256	DR-12	90.12
1258	MW-18	71.07	732	TW4-10	60.13	1253	TWN-6	76.91	1254	DR-13	69.65
1250	MW-19	59.05	744	TW4-11	59.44	1231	TWN-7	86.31	827	DR-14	76.30
847	MW-20	89.45	805	TW4-12	43.20		TWN-8	Abandon	829	DR-15	92.85
818	MW-22	66.79	814	TW4-13	48.15		TWN-9	Abandon	NA	DR-16	Abandon
1010	MW-23	116.20	817	TW4-14	83.56		TWN-10	Abandon	912	DR-17	64.86
1003	MW-24	113.60	847	TW4-15	73.22		TWN-11	Abandon	NA	DR-18	Abandon
1242	MW-25	74.15	1231	TW4-16	64.49		TWN-12	Abandon	919	DR-19	63.05
847	MW-26	73.22	1234	TW4-17	75.08		TWN-13	Abandon	908	DR-20	55.21
1328	MW-27	53.10	1326	TW4-18	63.55	1245	TWN-14	61.79	859	DR-21	100.96
1000	MW-28	75.47	830	TW4-19	69.90		TWN-15	Abandon	925	DR-22	DRY
1321	MW-29	101.21	846	TW4-20	70.55	1241	TWN-16	47.54	902	DR-23	70.58
1324	MW-30	75.10	1324	TW4-21	65.27		TWN-17	Abandon	929	DR-24	44.13
1237	MW-31	67.80	845	TW4-22	59.98	1315	TWN-18	59.22	NA	DR-25	Abandon
1234	MW-32	75.80	757	TW4-23	65.95	740	TWN-19	53.03			
1016	MW-33	DRY	844	TW4-24	64.40						
1023	MW-34	107.70	840	TW4-25	62.47						
1013	MW-35	112.22	800	TW4-26	63.83						
1015	MW-36	110.35	835	TW4-27	80.51						
1025	MW-37	111.52	811	TW4-28	37.79						
			823	TW4-29	72.19						
			829	TW4-30	76.90						
			833	TW4-31	82.26						
			808	TW4-32	49.41						
			838	TW4-33	70.67						
			820	TW4-34	70.02						
			826	TW4-35	74.36						
			815	TW4-36	58.35						

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 2014  
**Lab Sample ID:** 1405608-001  
**Client Sample ID:** MW-01\_05282014  
**Collection Date:** 5/28/2014 935h  
**Received Date:** 5/30/2014 1010h

## Analytical Results

## DISSOLVED METALS

463 West 3600 South  
Salt Lake City, UT 84115

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	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/30/2014	1310h	6/3/2014	1950h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/30/2014	1310h	6/4/2014	1505h	E200.7	50.0	<b>179</b>	A
Chromium	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/30/2014	1310h	6/4/2014	2051h	E200.8	0.0300	<b>0.180</b>	
Lead	mg/L	5/30/2014	1310h	6/3/2014	1950h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/30/2014	1310h	6/4/2014	1505h	E200.7	50.0	<b>67.6</b>	
Manganese	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.0100	<b>0.0823</b>	
Mercury	mg/L	6/2/2014	1230h	6/3/2014	929h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/30/2014	1310h	6/4/2014	1407h	E200.7	1.00	<b>5.90</b>	
Selenium	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/30/2014	1310h	6/3/2014	1816h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/30/2014	1310h	6/4/2014	1505h	E200.7	50.0	<b>163</b>	B <sup>2</sup>
Thallium	mg/L	5/30/2014	1310h	6/4/2014	2051h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/30/2014	1310h	6/4/2014	1842h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/30/2014	1310h	6/4/2014	2146h	E200.8	0.000300	<b>0.000334</b>	
Vanadium	mg/L	5/30/2014	1310h	6/4/2014	1407h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/30/2014	1310h	6/4/2014	1407h	E200.7	0.0100	< 0.0100	

<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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-001  
**Client Sample ID:** MW-01\_05282014  
**Collection Date:** 5/28/2014 935h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

### Analytical Results

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Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/3/2014 1100h	6/4/2014 1435h	E350.1	0.0500	<b>0.0611</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	<b>242</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/6/2014 1621h	E300.0	5.00	<b>20.4</b>	
Fluoride	mg/L		6/10/2014 003h	E300.0	0.100	<b>0.306</b>	
Ion Balance	%		6/9/2014 1548h	Calc.	-100	<b>-5.71</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1756h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/6/2014 1636h	E300.0	100	<b>909</b>	<sup>1</sup> @
Total Anions, Measured	meq/L		6/9/2014 1548h	Calc.		<b>24.3</b>	
Total Cations, Measured	meq/L		6/9/2014 1548h	Calc.		<b>21.7</b>	
Total Dissolved Solids	mg/L		5/30/2014 1325h	SM2540C	20.0	<b>1,460</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/9/2014 1548h	Calc.		<b>0.978</b>	
Total Dissolved Solids, Calculated	mg/L		6/9/2014 1548h	Calc.		<b>1,490</b>	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

@ - High RPD due to suspected sample non-homogeneity or matrix interference.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-001A  
**Client Sample ID:** MW-01\_05282014  
**Collection Date:** 5/28/2014 935h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/30/2014 1308h

**Units:** µg/L      **Dilution Factor:** 1      **Method:** SW8260C

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>3.39</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	53.1	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.4	50.00	96.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.4	50.00	96.8	80-124	
Surr: Toluene-d8	2037-26-5	47.9	50.00	95.9	77-129	

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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 7, 2014

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_05282014	Project: DNMI00100
Sample ID: 349790001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 28-MAY-14 09:35	
Receive Date: 02-JUN-14	
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		1.08	+/-0.323	0.760	1.00	pCi/L		CXP3	06/05/14	1224	1392631	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"			102	(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 2014  
**Lab Sample ID:** 1405608-002  
**Client Sample ID:** MW-02\_05282014  
**Collection Date:** 5/28/2014 1315h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

### 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	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/30/2014	1310h	6/3/2014	1956h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/30/2014	1310h	6/4/2014	1513h	E200.7	50.0	<b>321</b>	
Chromium	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/30/2014	1310h	6/4/2014	2056h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/30/2014	1310h	6/3/2014	1956h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/30/2014	1310h	6/4/2014	1513h	E200.7	50.0	<b>97.7</b>	
Manganese	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/2/2014	1230h	6/3/2014	937h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/30/2014	1310h	6/4/2014	1419h	E200.7	1.00	<b>9.25</b>	
Selenium	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.00500	<b>0.00624</b>	
Silver	mg/L	5/30/2014	1310h	6/3/2014	1843h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/30/2014	1310h	6/4/2014	1513h	E200.7	50.0	<b>493</b>	B
Thallium	mg/L	5/30/2014	1310h	6/4/2014	2056h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/30/2014	1310h	6/4/2014	1944h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/30/2014	1310h	6/4/2014	2152h	E200.8	0.000300	<b>0.0111</b>	
Vanadium	mg/L	5/30/2014	1310h	6/4/2014	1419h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/30/2014	1310h	6/4/2014	1419h	E200.7	0.0100	<b>0.0150</b>	

*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 2014  
**Lab Sample ID:** 1405608-002  
**Client Sample ID:** MW-02\_05282014  
**Collection Date:** 5/28/2014 1315h  
**Received Date:** 5/30/2014 1010h

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/3/2014 1100h	6/4/2014 1438h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	<b>317</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/10/2014 019h	E300.0	1.00	<b>6.63</b>	
Fluoride	mg/L		6/10/2014 019h	E300.0	0.100	<b>0.292</b>	
Ion Balance	%		6/9/2014 1548h	Calc.	-100	<b>-4.34</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1758h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/6/2014 1723h	E300.0	500	<b>2,080</b>	
Total Anions, Measured	meq/L		6/9/2014 1548h	Calc.		<b>49.9</b>	
Total Cations, Measured	meq/L		6/9/2014 1548h	Calc.		<b>45.8</b>	
Total Dissolved Solids	mg/L		5/30/2014 1325h	SM2540C	20.0	<b>3,160</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/9/2014 1548h	Calc.		<b>0.987</b>	
Total Dissolved Solids, Calculated	mg/L		6/9/2014 1548h	Calc.		<b>3,200</b>	

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Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-002A  
**Client Sample ID:** MW-02\_05282014  
**Collection Date:** 5/28/2014 1315h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/30/2014 1327h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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 Laboratory Director

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 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	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.7	50.00	99.4	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.9	50.00	97.9	80-124	
Surr: Toluene-d8	2037-26-5	49.0	50.00	97.9	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: June 7, 2014

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_05282014	Project: DNMI00100
Sample ID: 349790002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 28-MAY-14 13:15	
Receive Date: 02-JUN-14	
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		2.19	+/-0.417	0.742	1.00	pCi/L		CXP3	06/05/14	1224	1392631	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-002  
**Client Sample ID:** MW-03\_05302014  
**Collection Date:** 5/30/2014 840h  
**Received Date:** 6/3/2014 940h

**Contact:** Garrin Palmer

## 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	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/4/2014	1025h	6/10/2014	1623h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.000500	<b>0.00170</b>	
Calcium	mg/L	6/4/2014	1025h	6/11/2014	1744h	E200.7	50.0	<b>443</b>	
Chromium	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/4/2014	1025h	6/10/2014	1623h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/4/2014	1025h	6/10/2014	1623h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/4/2014	1025h	6/11/2014	1744h	E200.7	50.0	<b>258</b>	
Manganese	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.0100	<b>0.104</b>	
Mercury	mg/L	6/4/2014	1530h	6/5/2014	1010h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/4/2014	1025h	6/12/2014	1253h	E200.7	1.00	<b>24.5</b>	
Selenium	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.00500	<b>0.0695</b>	
Silver	mg/L	6/4/2014	1025h	6/9/2014	1450h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/4/2014	1025h	6/12/2014	1043h	E200.7	50.0	<b>786</b>	
Thallium	mg/L	6/4/2014	1025h	6/10/2014	1623h	E200.8	0.000500	<b>0.00128</b>	
Tin	mg/L	6/4/2014	1025h	6/10/2014	1728h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/4/2014	1025h	6/11/2014	632h	E200.8	0.000300	<b>0.0141</b>	
Vanadium	mg/L	6/4/2014	1025h	6/12/2014	1253h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/4/2014	1025h	6/12/2014	1253h	E200.7	0.0100	<b>0.0945</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-002  
**Client Sample ID:** MW-03\_05302014  
**Collection Date:** 5/30/2014 840h  
**Received Date:** 6/3/2014 940h

**Contact:** Garrin Palmer

### Analytical Results

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Laboratory Director

Jose Rocha  
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/6/2014 1030h	6/9/2014 1949h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		6/4/2014 752h	SM2320B	1.00	161	
Carbonate (as CaCO3)	mg/L		6/4/2014 752h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/10/2014 1709h	E300.0	10.0	64.8	
Fluoride	mg/L		6/10/2014 2240h	E300.0	0.100	1.02	
Ion Balance	%		6/12/2014 1339h	Calc.	-100	0.615	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1806h	E353.2	0.100	0.573	
Sulfate	mg/L		6/10/2014 1653h	E300.0	500	3,460	
Total Anions, Measured	meq/L		6/12/2014 1339h	Calc.		77.2	
Total Cations, Measured	meq/L		6/12/2014 1339h	Calc.		78.1	
Total Dissolved Solids	mg/L		6/4/2014 1205h	SM2540C	20.0	5,130	
Total Dissolved Solids Ratio, Measured/Calculated			6/12/2014 1339h	Calc.		0.999	
Total Dissolved Solids, Calculated	mg/L		6/12/2014 1339h	Calc.		5,140	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-002A  
**Client Sample ID:** MW-03\_05302014  
**Collection Date:** 5/30/2014 840h  
**Received Date:** 6/3/2014 940h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/3/2014 1307h

**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	55.1	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.2	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	50.1	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: June 30, 2014

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_05302014	Project: DNMI00100
Sample ID: 350282012	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 30-MAY-14 08:40	
Receive Date: 09-JUN-14	
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	+/-0.240	0.701	1.00	pCi/L		CXP3	06/26/14	1122	1394634	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"			97.8	(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 2014  
**Lab Sample ID:** 1406025-001  
**Client Sample ID:** MW-03A\_05302014  
**Collection Date:** 5/30/2014 740h  
**Received Date:** 6/3/2014 940h

**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	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/4/2014	1025h	6/10/2014	1618h	E200.8	0.000500	<b>0.000673</b>	
Cadmium	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.000500	<b>0.00355</b>	
Calcium	mg/L	6/4/2014	1025h	6/11/2014	1737h	E200.7	50.0	<b>465</b>	2
Chromium	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/4/2014	1025h	6/10/2014	1618h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/4/2014	1025h	6/10/2014	1618h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/4/2014	1025h	6/11/2014	1737h	E200.7	50.0	<b>302</b>	2
Manganese	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.0100	<b>0.0274</b>	
Mercury	mg/L	6/4/2014	1530h	6/5/2014	1003h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.0100	< 0.0100	1
Nickel	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/4/2014	1025h	6/12/2014	1248h	E200.7	1.00	<b>27.2</b>	
Selenium	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.00500	<b>0.104</b>	
Silver	mg/L	6/4/2014	1025h	6/9/2014	1421h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/4/2014	1025h	6/12/2014	1038h	E200.7	50.0	<b>772</b>	2
Thallium	mg/L	6/4/2014	1025h	6/10/2014	1618h	E200.8	0.000500	<b>0.000748</b>	
Tin	mg/L	6/4/2014	1025h	6/10/2014	1710h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/4/2014	1025h	6/10/2014	1730h	E200.8	0.000300	<b>0.0201</b>	
Vanadium	mg/L	6/4/2014	1025h	6/12/2014	1248h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/4/2014	1025h	6/12/2014	1248h	E200.7	0.0100	<b>0.0426</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 2014  
**Lab Sample ID:** 1406025-001  
**Client Sample ID:** MW-03A\_05302014  
**Collection Date:** 5/30/2014 740h  
**Received Date:** 6/3/2014 940h

### Analytical Results

	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, UT 84115	Ammonia (as N)	mg/L	6/6/2014 1030h	6/9/2014 1941h	E350.1	0.0500	< 0.0500	
	Bicarbonate (as CaCO3)	mg/L		6/4/2014 752h	SM2320B	1.00	<b>340</b>	
	Carbonate (as CaCO3)	mg/L		6/4/2014 752h	SM2320B	1.00	< 1.00	
Phone: (801) 263-8686	Chloride	mg/L		6/10/2014 1441h	E300.0	10.0	<b>64.2</b>	
Toll Free: (888) 263-8686	Fluoride	mg/L		6/10/2014 2224h	E300.0	0.100	<b>1.02</b>	
Fax: (801) 263-8687	Ion Balance	%		6/12/2014 1339h	Calc.	-100	<b>-3.50</b>	
e-mail: awal@awal-labs.com	Nitrate/Nitrite (as N)	mg/L		6/5/2014 1804h	E353.2	0.100	<b>0.970</b>	
	Sulfate	mg/L		6/10/2014 1354h	E300.0	500	<b>3,830</b>	
web: www.awal-labs.com	Total Anions, Measured	meq/L		6/12/2014 1339h	Calc.		<b>88.3</b>	
	Total Cations, Measured	meq/L		6/12/2014 1339h	Calc.		<b>82.3</b>	
	Total Dissolved Solids	mg/L		6/4/2014 1205h	SM2540C	20.0	<b>5,790</b>	
Kyle F. Gross Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated			6/12/2014 1339h	Calc.		<b>1.02</b>	
Jose Rocha QA Officer	Total Dissolved Solids, Calculated	mg/L		6/12/2014 1339h	Calc.		<b>5,660</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-001A  
**Client Sample ID:** MW-03A\_05302014  
**Collection Date:** 5/30/2014 740h  
**Received Date:** 6/3/2014 940h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/3/2014 1249h

**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	52.1	50.00	104	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.7	80-124	
Surr: Toluene-d8	2037-26-5	48.4	50.00	96.8	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: June 30, 2014

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_05302014	Project: DNMI00100
Sample ID: 350282013	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 30-MAY-14 07:40	
Receive Date: 09-JUN-14	
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	+/-0.242	0.638	1.00	pCi/L		CXP3	06/26/14	1125	1394634	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-001  
**Client Sample ID:** MW-05\_06042014  
**Collection Date:** 6/4/2014 1130h  
**Received Date:** 6/5/2014 1615h

**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	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014	1125h	6/11/2014	312h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014	1125h	6/12/2014	1623h	E200.7	50.0	<b>135</b>	2
Chromium	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014	1125h	6/11/2014	312h	E200.8	0.0300	<b>0.0343</b>	
Lead	mg/L	6/6/2014	1125h	6/11/2014	312h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014	1125h	6/12/2014	1755h	E200.7	1.00	<b>39.5</b>	1
Manganese	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.0100	<b>0.207</b>	
Mercury	mg/L	6/9/2014	1445h	6/10/2014	1117h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014	1125h	6/12/2014	2131h	E200.7	1.00	<b>7.07</b>	
Selenium	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/6/2014	1125h	6/9/2014	1946h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014	1125h	6/12/2014	1623h	E200.7	50.0	<b>477</b>	2
Thallium	mg/L	6/6/2014	1125h	6/11/2014	312h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014	1125h	6/11/2014	1240h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014	1125h	6/11/2014	513h	E200.8	0.000300	<b>0.00242</b>	
Vanadium	mg/L	6/6/2014	1125h	6/12/2014	1755h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014	1125h	6/12/2014	1755h	E200.7	0.0100	< 0.0100	

<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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-001  
**Client Sample ID:** MW-05\_06042014  
**Collection Date:** 6/4/2014 1130h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### 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	6/15/2014 1100h	6/16/2014 1237h	E350.1	0.0500	<b>0.492</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>333</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/11/2014 1607h	E300.0	10.0	<b>51.9</b>	
Fluoride	mg/L		6/12/2014 2001h	E300.0	0.100	<b>0.773</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>-3.80</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1733h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/11/2014 1552h	E300.0	100	<b>1,210</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>33.4</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>30.9</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>1,950</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>0.920</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>2,120</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-001A  
**Client Sample ID:** MW-05\_06042014  
**Collection Date:** 6/4/2014 1130h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/5/2014 2334h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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>5.22</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	56.5	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	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: June 30, 2014

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_06042014	Project: DNMI00100
Sample ID: 350282001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 04-JUN-14 11:30	
Receive Date: 09-JUN-14	
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	+/-0.193	0.795	1.00	pCi/L		CXP3	06/26/14	1121	1394634	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"			103	(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 2014  
**Lab Sample ID:** 1406109-002  
**Client Sample ID:** MW-11\_06032014  
**Collection Date:** 6/3/2014 1105h  
**Received Date:** 6/5/2014 1615h

**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	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014	1125h	6/11/2014	328h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014	1125h	6/12/2014	1629h	E200.7	50.0	<b>79.5</b>	
Chromium	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014	1125h	6/11/2014	328h	E200.8	0.0300	<b>0.102</b>	
Lead	mg/L	6/6/2014	1125h	6/11/2014	328h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014	1125h	6/12/2014	1800h	E200.7	1.00	<b>24.9</b>	
Manganese	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.0100	<b>0.166</b>	
Mercury	mg/L	6/9/2014	1445h	6/10/2014	1127h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014	1125h	6/12/2014	2137h	E200.7	1.00	<b>6.70</b>	
Selenium	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/6/2014	1125h	6/9/2014	2021h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014	1125h	6/12/2014	1629h	E200.7	50.0	<b>580</b>	
Thallium	mg/L	6/6/2014	1125h	6/11/2014	328h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014	1125h	6/11/2014	1257h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014	1125h	6/11/2014	519h	E200.8	0.000300	<b>0.000937</b>	
Vanadium	mg/L	6/6/2014	1125h	6/12/2014	1800h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014	1125h	6/12/2014	1800h	E200.7	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 2014  
**Lab Sample ID:** 1406109-002  
**Client Sample ID:** MW-11\_06032014  
**Collection Date:** 6/3/2014 1105h  
**Received Date:** 6/5/2014 1615h

**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	6/15/2014 1100h	6/16/2014 1238h	E350.1	0.0500	<b>0.614</b>	
Bicarbonate (as CaCO3)	mg/L		6/10/2014 614h	SM2320B	1.00	<b>342</b>	
Carbonate (as CaCO3)	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/11/2014 1710h	E300.0	5.00	<b>32.9</b>	
Fluoride	mg/L		6/12/2014 2016h	E300.0	0.100	<b>0.485</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>-0.0721</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1734h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/11/2014 1655h	E300.0	500	<b>1,140</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>31.4</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>31.4</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>1,990</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>0.962</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>2,070</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-002A  
**Client Sample ID:** MW-11\_06032014  
**Collection Date:** 6/3/2014 1105h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 030h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

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	55.6	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.3	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	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: June 30, 2014

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\_06032014 Project: DNMI00100  
Sample ID: 350282002 Client ID: DNMI001  
Matrix: Ground Water  
Collect Date: 03-JUN-14 11:05  
Receive Date: 09-JUN-14  
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	+/-0.253	0.675	1.00	pCi/L		CXP3	06/26/14	1124	1394634	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-003  
**Client Sample ID:** MW-12\_06042014  
**Collection Date:** 6/4/2014 1320h  
**Received Date:** 6/5/2014 1615h

**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	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014	1125h	6/11/2014	333h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014	1125h	6/12/2014	1630h	E200.7	50.0	<b>520</b>	
Chromium	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014	1125h	6/11/2014	333h	E200.8	0.0300	<b>0.0724</b>	
Lead	mg/L	6/6/2014	1125h	6/11/2014	333h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014	1125h	6/12/2014	1630h	E200.7	50.0	<b>226</b>	
Manganese	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.0100	<b>0.128</b>	
Mercury	mg/L	6/9/2014	1445h	6/10/2014	1129h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014	1125h	6/12/2014	2138h	E200.7	1.00	<b>13.3</b>	
Selenium	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.00500	<b>0.0172</b>	
Silver	mg/L	6/6/2014	1125h	6/9/2014	2027h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014	1125h	6/12/2014	1630h	E200.7	50.0	<b>319</b>	
Thallium	mg/L	6/6/2014	1125h	6/11/2014	333h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014	1125h	6/11/2014	1303h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014	1125h	6/11/2014	524h	E200.8	0.000300	<b>0.0202</b>	
Vanadium	mg/L	6/6/2014	1125h	6/12/2014	1802h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014	1125h	6/12/2014	1802h	E200.7	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 2014  
**Lab Sample ID:** 1406109-003  
**Client Sample ID:** MW-12\_06042014  
**Collection Date:** 6/4/2014 1320h  
**Received Date:** 6/5/2014 1615h

## Analytical Results

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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	6/15/2014 1100h	6/16/2014 1241h	E350.1	0.0500	<b>0.0698</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>349</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1358h	E300.0	10.0	<b>64.5</b>	1
Fluoride	mg/L		6/12/2014 2032h	E300.0	0.100	<b>0.243</b>	1
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>-1.04</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1736h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/12/2014 1343h	E300.0	500	<b>2,460</b>	1
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>60.0</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>58.8</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>4,080</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>1.07</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>3,810</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

<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 2014  
**Lab Sample ID:** 1406109-003A  
**Client Sample ID:** MW-12\_06042014  
**Collection Date:** 6/4/2014 1320h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 049h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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Kyle F. Gross  
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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	55.7	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.3	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	50.4	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: June 30, 2014

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_06042014	Project: DNMI00100
Sample ID: 350282003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 04-JUN-14 13:20	
Receive Date: 09-JUN-14	
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	+/-0.232	0.646	1.00	pCi/L		CXP3	06/26/14	1124	1394634	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-004  
**Client Sample ID:** MW-14\_06032014  
**Collection Date:** 6/3/2014 1450h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014 1125h	6/11/2014 339h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.000500	<b>0.00125</b>	
Calcium	mg/L	6/6/2014 1125h	6/12/2014 1632h	E200.7	50.0	<b>486</b>	
Chromium	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014 1125h	6/11/2014 339h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/6/2014 1125h	6/11/2014 339h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014 1125h	6/12/2014 1632h	E200.7	50.0	<b>158</b>	
Manganese	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.0100	<b>1.89</b>	
Mercury	mg/L	6/9/2014 1445h	6/10/2014 1131h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014 1125h	6/12/2014 2140h	E200.7	1.00	<b>11.3</b>	
Selenium	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/6/2014 1125h	6/9/2014 2032h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014 1125h	6/12/2014 1632h	E200.7	50.0	<b>330</b>	
Thallium	mg/L	6/6/2014 1125h	6/11/2014 339h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014 1125h	6/11/2014 1309h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014 1125h	6/11/2014 530h	E200.8	0.000300	<b>0.0570</b>	
Vanadium	mg/L	6/6/2014 1125h	6/12/2014 1804h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014 1125h	6/12/2014 1804h	E200.7	0.0100	<b>0.0156</b>	

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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 2014  
**Lab Sample ID:** 1406109-004  
**Client Sample ID:** MW-14\_06032014  
**Collection Date:** 6/3/2014 1450h  
**Received Date:** 6/5/2014 1615h

**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	6/15/2014 1100h	6/16/2014 1242h	E350.1	0.0500	<b>0.119</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>399</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1533h	E300.0	5.00	<b>18.7</b>	
Fluoride	mg/L		6/12/2014 2048h	E300.0	0.100	<b>0.154</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>4.73</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1740h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/12/2014 1517h	E300.0	500	<b>1,860</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>47.2</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>51.9</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>3,460</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>1.11</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>3,100</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-004A  
**Client Sample ID:** MW-14\_06032014  
**Collection Date:** 6/3/2014 1450h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 107h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.6	50.00	99.3	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.9	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.3	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: June 30, 2014

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_06032014	Project: DNMI00100
Sample ID: 350282004	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 03-JUN-14 14:50	
Receive Date: 09-JUN-14	
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	+/-0.260	0.567	1.00	pCi/L		CXP3	06/26/14	1124	1394634	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"			95.6	(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 2014  
**Lab Sample ID:** 1406109-005  
**Client Sample ID:** MW-15\_06042014  
**Collection Date:** 6/4/2014 1000h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

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 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	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014	1125h	6/11/2014	344h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014	1125h	6/12/2014	1634h	E200.7	50.0	<b>422</b>	
Chromium	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014	1125h	6/11/2014	344h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/6/2014	1125h	6/11/2014	344h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014	1125h	6/12/2014	1634h	E200.7	50.0	<b>168</b>	
Manganese	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/9/2014	1445h	6/10/2014	1132h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014	1125h	6/12/2014	2142h	E200.7	1.00	<b>9.80</b>	
Selenium	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.00500	<b>0.105</b>	
Silver	mg/L	6/6/2014	1125h	6/9/2014	2056h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014	1125h	6/12/2014	1634h	E200.7	50.0	<b>469</b>	
Thallium	mg/L	6/6/2014	1125h	6/11/2014	344h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014	1125h	6/11/2014	1315h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014	1125h	6/11/2014	536h	E200.8	0.000300	<b>0.0422</b>	
Vanadium	mg/L	6/6/2014	1125h	6/12/2014	1806h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014	1125h	6/12/2014	1806h	E200.7	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 2014  
**Lab Sample ID:** 1406109-005  
**Client Sample ID:** MW-15\_06042014  
**Collection Date:** 6/4/2014 1000h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### Analytical Results

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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	6/15/2014 1100h	6/16/2014 1244h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>358</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1605h	E300.0	5.00	<b>37.2</b>	
Fluoride	mg/L		6/12/2014 2104h	E300.0	0.100	<b>0.218</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>3.14</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1741h	E353.2	0.100	<b>0.193</b>	
Sulfate	mg/L		6/12/2014 1549h	E300.0	500	<b>2,110</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>52.1</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>55.5</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>3,550</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>1.04</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>3,430</b>	

Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-005A  
**Client Sample ID:** MW-15\_06042014  
**Collection Date:** 6/4/2014 1000h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 126h

**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	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.9	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.9	50.00	102	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: June 30, 2014

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_06042014	Project: DNMI00100
Sample ID: 350282005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 04-JUN-14 10:00	
Receive Date: 09-JUN-14	
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	+/-0.226	0.813	1.00	pCi/L		CXP3	06/26/14	1124	1394634	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"			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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-004  
**Client Sample ID:** MW-17\_05302014  
**Collection Date:** 5/30/2014 1300h  
**Received Date:** 6/3/2014 940h

**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	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/4/2014 1025h	6/10/2014 1636h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/4/2014 1025h	6/11/2014 1747h	E200.7	50.0	<b>321</b>	
Chromium	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/4/2014 1025h	6/10/2014 1636h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/4/2014 1025h	6/10/2014 1636h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/4/2014 1025h	6/11/2014 1747h	E200.7	50.0	<b>169</b>	
Manganese	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.0100	<b>0.0598</b>	
Mercury	mg/L	6/4/2014 1530h	6/5/2014 1016h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/4/2014 1025h	6/12/2014 1257h	E200.7	1.00	<b>10.5</b>	
Selenium	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.00500	<b>0.0170</b>	
Silver	mg/L	6/4/2014 1025h	6/9/2014 1502h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/4/2014 1025h	6/12/2014 1047h	E200.7	50.0	<b>491</b>	
Thallium	mg/L	6/4/2014 1025h	6/10/2014 1636h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/4/2014 1025h	6/10/2014 1740h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/4/2014 1025h	6/11/2014 638h	E200.8	0.000300	<b>0.0196</b>	
Vanadium	mg/L	6/4/2014 1025h	6/12/2014 1257h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/4/2014 1025h	6/12/2014 1257h	E200.7	0.0100	< 0.0100	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-004  
**Client Sample ID:** MW-17\_05302014  
**Collection Date:** 5/30/2014 1300h  
**Received Date:** 6/3/2014 940h

## 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>
463 West 3600 South	Ammonia (as N)	mg/L	6/6/2014	1030h	6/9/2014	1951h	E350.1	0.0500	< 0.0500	
Salt Lake City, UT 84115	Bicarbonate (as CaCO3)	mg/L			6/4/2014	752h	SM2320B	1.00	<b>369</b>	
Phone: (801) 263-8686	Carbonate (as CaCO3)	mg/L			6/4/2014	752h	SM2320B	1.00	< 1.00	
Toll Free: (888) 263-8686	Chloride	mg/L			6/10/2014	1812h	E300.0	5.00	<b>35.4</b>	
Fax: (801) 263-8687	Fluoride	mg/L			6/10/2014	2311h	E300.0	0.100	<b>0.271</b>	
e-mail: awal@awal-labs.com	Ion Balance	%			6/12/2014	1339h	Calc.	-100	<b>2.86</b>	
web: www.awal-labs.com	Nitrate/Nitrite (as N)	mg/L			6/5/2014	1813h	E353.2	0.100	<b>1.29</b>	
	Sulfate	mg/L			6/10/2014	1756h	E300.0	500	<b>1,940</b>	
	Total Anions, Measured	meq/L			6/12/2014	1339h	Calc.		<b>48.7</b>	
	Total Cations, Measured	meq/L			6/12/2014	1339h	Calc.		<b>51.6</b>	
Kyle F. Gross	Total Dissolved Solids	mg/L			6/4/2014	1205h	SM2540C	20.0	<b>3,580</b>	
Laboratory Director	Total Dissolved Solids Ratio, Measured/Calculated				6/12/2014	1339h	Calc.		<b>1.12</b>	
Jose Rocha	Total Dissolved Solids, Calculated	mg/L			6/12/2014	1339h	Calc.		<b>3,190</b>	
QA Officer										



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-004A  
**Client Sample ID:** MW-17\_05302014  
**Collection Date:** 5/30/2014 1300h  
**Received Date:** 6/3/2014 940h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/3/2014 1345h

**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	53.8	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.0	50.00	97.9	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.6	50.00	99.3	80-124	
Surr: Toluene-d8	2037-26-5	48.3	50.00	96.5	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 30, 2014

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_05302014	Project: DNMI00100
Sample ID: 350282014	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 30-MAY-14 13:00	
Receive Date: 09-JUN-14	
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	+/-0.271	0.758	1.00	pCi/L		CXP3	06/26/14	1125	1394634	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-003  
**Client Sample ID:** MW-18\_05272014  
**Collection Date:** 5/27/2014 1245h  
**Received Date:** 5/30/2014 1010h

**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	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/30/2014	1310h	6/3/2014	2002h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/30/2014	1310h	6/4/2014	1515h	E200.7	50.0	<b>536</b>	
Chromium	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/30/2014	1310h	6/4/2014	2102h	E200.8	0.0300	<b>0.0411</b>	
Lead	mg/L	5/30/2014	1310h	6/3/2014	2002h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/30/2014	1310h	6/4/2014	1515h	E200.7	50.0	<b>133</b>	
Manganese	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.0100	<b>0.0659</b>	
Mercury	mg/L	6/2/2014	1230h	6/3/2014	939h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/30/2014	1310h	6/4/2014	1423h	E200.7	1.00	<b>7.93</b>	
Selenium	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/30/2014	1310h	6/3/2014	1849h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/30/2014	1310h	6/4/2014	1515h	E200.7	50.0	<b>173</b>	B
Thallium	mg/L	5/30/2014	1310h	6/4/2014	2102h	E200.8	0.000500	<b>0.00242</b>	
Tin	mg/L	5/30/2014	1310h	6/4/2014	1950h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/30/2014	1310h	6/4/2014	2157h	E200.8	0.000300	<b>0.0360</b>	
Vanadium	mg/L	5/30/2014	1310h	6/4/2014	1423h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/30/2014	1310h	6/4/2014	1423h	E200.7	0.0100	< 0.0100	

*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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-003  
**Client Sample ID:** MW-18\_05272014  
**Collection Date:** 5/27/2014 1245h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

## Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/3/2014 1100h	6/4/2014 1444h	E350.1	0.0500	<b>0.114</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	<b>387</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/6/2014 1755h	E300.0	10.0	<b>55.0</b>	
Fluoride	mg/L		6/10/2014 035h	E300.0	0.100	<b>0.230</b>	
Ion Balance	%		6/9/2014 1548h	Calc.	-100	<b>-6.18</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1759h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/6/2014 1739h	E300.0	500	<b>2,020</b>	
Total Anions, Measured	meq/L		6/9/2014 1548h	Calc.		<b>51.4</b>	
Total Cations, Measured	meq/L		6/9/2014 1548h	Calc.		<b>45.5</b>	
Total Dissolved Solids	mg/L		5/30/2014 1325h	SM2540C	20.0	<b>3,260</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/9/2014 1548h	Calc.		<b>1.03</b>	
Total Dissolved Solids, Calculated	mg/L		6/9/2014 1548h	Calc.		<b>3,160</b>	

Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-003A  
**Client Sample ID:** MW-18\_05272014  
**Collection Date:** 5/27/2014 1245h  
**Received Date:** 5/30/2014 1010h Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/30/2014 1345h

**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	49.0	50.00	98.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.0	80-124	
Surr: Toluene-d8	2037-26-5	48.3	50.00	96.6	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 7, 2014

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_05272014	Project: DNMI00100
Sample ID: 349790003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 27-MAY-14 12:45	
Receive Date: 02-JUN-14	
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	+/-0.403	0.778	1.00	pCi/L		CXP3	06/05/14	1224	1392631	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"			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:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-004  
**Client Sample ID:** MW-19\_05272014  
**Collection Date:** 5/27/2014 1510h  
**Received Date:** 5/30/2014 1010h

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/30/2014 1310h	6/3/2014 2007h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/30/2014 1310h	6/4/2014 1517h	E200.7	50.0	<b>155</b>	
Chromium	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/30/2014 1310h	6/4/2014 2107h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/30/2014 1310h	6/3/2014 2007h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/30/2014 1310h	6/4/2014 1517h	E200.7	50.0	<b>62.9</b>	
Manganese	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.0100	<b>0.0189</b>	
Mercury	mg/L	6/2/2014 1230h	6/3/2014 941h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/30/2014 1310h	6/4/2014 1427h	E200.7	1.00	<b>4.20</b>	
Selenium	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.00500	<b>0.0177</b>	
Silver	mg/L	5/30/2014 1310h	6/3/2014 1854h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/30/2014 1310h	6/4/2014 1517h	E200.7	50.0	<b>111</b>	B
Thallium	mg/L	5/30/2014 1310h	6/4/2014 2107h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/30/2014 1310h	6/4/2014 1956h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/30/2014 1310h	6/4/2014 2203h	E200.8	0.000300	<b>0.00515</b>	
Vanadium	mg/L	5/30/2014 1310h	6/4/2014 1427h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/30/2014 1310h	6/4/2014 1427h	E200.7	0.0100	< 0.0100	

*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



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-004  
**Client Sample ID:** MW-19\_05272014  
**Collection Date:** 5/27/2014 1510h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

## Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/3/2014 1100h	6/4/2014 1445h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		6/3/2014 1004h	SM2320B	1.00	<b>188</b>	
Carbonate (as CaCO3)	mg/L		6/3/2014 1004h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/6/2014 2227h	E300.0	5.00	<b>35.5</b>	
Fluoride	mg/L		6/10/2014 051h	E300.0	0.100	<b>0.963</b>	
Ion Balance	%		6/9/2014 1548h	Calc.	-100	<b>-3.79</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1800h	E353.2	1.00	<b>3.68</b>	
Sulfate	mg/L		6/6/2014 2211h	E300.0	100	<b>694</b>	
Total Anions, Measured	meq/L		6/9/2014 1548h	Calc.		<b>19.3</b>	
Total Cations, Measured	meq/L		6/9/2014 1548h	Calc.		<b>17.9</b>	
Total Dissolved Solids	mg/L		5/30/2014 1325h	SM2540C	20.0	<b>1,180</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/9/2014 1548h	Calc.		<b>0.997</b>	
Total Dissolved Solids, Calculated	mg/L		6/9/2014 1548h	Calc.		<b>1,180</b>	

Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-004A  
**Client Sample ID:** MW-19\_05272014  
**Collection Date:** 5/27/2014 1510h  
**Received Date:** 5/30/2014 1010h

Test Code: 8260-W

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/30/2014 1404h

**Units:** µg/L **Dilution Factor:** 1 **Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	

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Kyle F. Gross  
Laboratory Director

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.6	50.00	99.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.0	80-124	
Surr: Toluene-d8	2037-26-5	48.8	50.00	97.6	77-129	

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 7, 2014

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\_05272014  
 Sample ID: 349790004  
 Matrix: Ground Water  
 Collect Date: 27-MAY-14 15:10  
 Receive Date: 02-JUN-14  
 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		2.24	+/-0.424	0.771	1.00	pCi/L		CXP3	06/05/14	1224 1392631	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"			98.9	(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 2014  
**Lab Sample ID:** 1406404-001  
**Client Sample ID:** MW-20\_06182014  
**Collection Date:** 6/18/2014 850h  
**Received Date:** 6/19/2014 900h

### Analytical Results

### DISSOLVED METALS

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.00500	< 0.00500	1
Beryllium	mg/L	6/19/2014 1230h	6/20/2014 1836h	E200.8	0.000500	< 0.000500	1@
Cadmium	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.000500	< 0.000500	@
Calcium	mg/L	6/19/2014 1230h	6/25/2014 1022h	E200.7	50.0	<b>337</b>	2
Chromium	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/19/2014 1230h	6/25/2014 1654h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/19/2014 1230h	6/20/2014 1836h	E200.8	0.00100	< 0.00100	@
Magnesium	mg/L	6/19/2014 1230h	6/25/2014 1138h	E200.7	1.00	<b>17.3</b>	
Manganese	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/23/2014 1445h	6/24/2014 856h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.0100	<b>0.0235</b>	1@
Nickel	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/19/2014 1230h	6/25/2014 1138h	E200.7	1.00	<b>26.8</b>	
Selenium	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.00500	< 0.00500	1
Silver	mg/L	6/19/2014 1230h	6/20/2014 1721h	E200.8	0.0100	< 0.0100	@
Sodium	mg/L	6/19/2014 1230h	6/25/2014 1022h	E200.7	50.0	<b>1,190</b>	2
Thallium	mg/L	6/19/2014 1230h	6/20/2014 1836h	E200.8	0.000500	< 0.000500	@
Tin	mg/L	6/19/2014 1230h	6/23/2014 1604h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/19/2014 1230h	6/23/2014 1834h	E200.8	0.000300	<b>0.00179</b>	1@
Vanadium	mg/L	6/19/2014 1230h	6/25/2014 1138h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/19/2014 1230h	6/25/2014 1138h	E200.7	0.0100	< 0.0100	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

<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 2014  
**Lab Sample ID:** 1406404-001  
**Client Sample ID:** MW-20\_06182014  
**Collection Date:** 6/18/2014 850h  
**Received Date:** 6/19/2014 900h

### 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	6/25/2014 1130h	6/25/2014 2015h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		6/20/2014 705h	SM2320B	1.00	39.4	
Carbonate (as CaCO3)	mg/L		6/20/2014 705h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/24/2014 2222h	E300.0	1.00	61.9	
Fluoride	mg/L		6/24/2014 2222h	E300.0	1.00	< 1.00	
Ion Balance	%		6/26/2014 1450h	Calc.	-100	-2.01	
Nitrate/Nitrite (as N)	mg/L		6/19/2014 1615h	E353.2	1.00	15.9	
Sulfate	mg/L		6/24/2014 2237h	E300.0	1,000	3,410	
Total Anions, Measured	meq/L		6/26/2014 1450h	Calc.		73.8	
Total Cations, Measured	meq/L		6/26/2014 1450h	Calc.		70.9	
Total Dissolved Solids	mg/L		6/20/2014 1050h	SM2540C	20.0	4,980	@
Total Dissolved Solids Ratio, Measured/Calculated			6/26/2014 1450h	Calc.		0.978	
Total Dissolved Solids, Calculated	mg/L		6/26/2014 1450h	Calc.		5,090	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406404-001A  
**Client Sample ID:** MW-20\_06182014  
**Collection Date:** 6/18/2014 850h  
**Received Date:** 6/19/2014 900h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/19/2014 1447h

**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	56.8	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.1	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.8	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.8	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: July 16, 2014

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\_06182014  
 Sample ID: 351093004  
 Matrix: Ground Water  
 Collect Date: 18-JUN-14 08:50  
 Receive Date: 20-JUN-14  
 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	+/-0.154	0.309	1.00	pCi/L		CXP3	07/12/14	1616	1399658	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406278-001  
**Client Sample ID:** MW-22\_06112014  
**Collection Date:** 6/11/2014 1300h  
**Received Date:** 6/13/2014 1010h

**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	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/13/2014 1210h	6/17/2014 429h	E200.8	0.000500	<b>0.0152</b>	
Cadmium	mg/L	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.000500	<b>0.169</b>	
Calcium	mg/L	6/13/2014 1210h	6/17/2014 1704h	E200.7	50.0	<b>400</b>	2
Chromium	mg/L	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.0100	<b>0.513</b>	
Copper	mg/L	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.0100	<b>0.120</b>	
Iron	mg/L	6/13/2014 1210h	6/17/2014 429h	E200.8	0.0300	<b>0.0694</b>	
Lead	mg/L	6/13/2014 1210h	6/17/2014 429h	E200.8	0.00100	<b>0.00629</b>	
Magnesium	mg/L	6/13/2014 1210h	6/17/2014 1704h	E200.7	50.0	<b>1,120</b>	2
Manganese	mg/L	6/13/2014 1210h	6/16/2014 2012h	E200.8	0.500	<b>46.5</b>	2
Mercury	mg/L	6/13/2014 1450h	6/16/2014 1149h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.0100	<b>0.183</b>	
Nickel	mg/L	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.0200	<b>0.316</b>	
Potassium	mg/L	6/13/2014 1210h	6/19/2014 1147h	E200.7	5.00	<b>20.9</b>	
Selenium	mg/L	6/13/2014 1210h	6/17/2014 326h	E200.8	0.00500	<b>0.0169</b>	
Silver	mg/L	6/13/2014 1210h	6/17/2014 326h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/13/2014 1210h	6/17/2014 1704h	E200.7	50.0	<b>267</b>	2
Thallium	mg/L	6/13/2014 1210h	6/18/2014 1253h	E200.8	0.000500	<b>0.00144</b>	
Tin	mg/L	6/13/2014 1210h	6/16/2014 1448h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/13/2014 1210h	6/17/2014 509h	E200.8	0.000300	<b>0.0319</b>	
Vanadium	mg/L	6/13/2014 1210h	6/17/2014 1847h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/13/2014 1210h	6/17/2014 1847h	E200.7	0.0100	<b>1.47</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 2014  
**Lab Sample ID:** 1406278-001  
**Client Sample ID:** MW-22\_06112014  
**Collection Date:** 6/11/2014 1300h  
**Received Date:** 6/13/2014 1010h

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/24/2014 1700h	6/24/2014 1948h	E350.1	0.0500	<b>0.534</b>	1
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/25/2014 600h	SM2320B	1.00	<b>12.5</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/25/2014 600h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/23/2014 1204h	E300.0	1.00	<b>54.9</b>	
Fluoride	mg/L		6/23/2014 1204h	E300.0	1.00	<b>14.5</b>	
Ion Balance	%		6/24/2014 933h	Calc.	-100	<b>-8.51</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1857h	E353.2	1.00	<b>2.97</b>	
Sulfate	mg/L		6/20/2014 1905h	E300.0	1,000	<b>6,950</b>	
Total Anions, Measured	meq/L		6/24/2014 933h	Calc.		<b>147</b>	
Total Cations, Measured	meq/L		6/24/2014 933h	Calc.		<b>124</b>	
Total Dissolved Solids	mg/L		6/17/2014 1200h	SM2540C	100	<b>8,560</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/24/2014 933h	Calc.		<b>0.970</b>	
Total Dissolved Solids, Calculated	mg/L		6/24/2014 933h	Calc.		<b>8,830</b>	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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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 2014  
**Lab Sample ID:** 1406278-001A  
**Client Sample ID:** MW-22\_06112014  
**Collection Date:** 6/11/2014 1300h  
**Received Date:** 6/13/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/13/2014 1129h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	

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Kyle F. Gross  
 Laboratory Director

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.5	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.8	80-124	
Surr: Toluene-d8	2037-26-5	49.9	50.00	99.8	77-129	

Jose Rocha  
 QA Officer

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: July 16, 2014

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_06112014	Project: DNMI00100
Sample ID: 351093001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 11-JUN-14 13:00	
Receive Date: 20-JUN-14	
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		3.57	+/-0.414	0.565	1.00	pCi/L		CXP3	07/12/14	1616	1399658	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"			83.9	(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 2014  
**Lab Sample ID:** 1406278-002  
**Client Sample ID:** MW-23\_06112014  
**Collection Date:** 6/11/2014 900h  
**Received Date:** 6/13/2014 1010h

**Contact:** Garrin Palmer

## 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	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/13/2014 1210h	6/17/2014 435h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/13/2014 1210h	6/17/2014 1711h	E200.7	50.0	<b>430</b>	
Chromium	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.0100	<b>0.0171</b>	
Iron	mg/L	6/13/2014 1210h	6/17/2014 435h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/13/2014 1210h	6/17/2014 435h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/13/2014 1210h	6/17/2014 1711h	E200.7	50.0	<b>160</b>	
Manganese	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.0100	<b>0.0147</b>	
Mercury	mg/L	6/13/2014 1450h	6/16/2014 1155h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.0200	<b>0.0271</b>	
Potassium	mg/L	6/13/2014 1210h	6/19/2014 1152h	E200.7	5.00	<b>8.80</b>	
Selenium	mg/L	6/13/2014 1210h	6/17/2014 354h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/13/2014 1210h	6/17/2014 354h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/13/2014 1210h	6/17/2014 1711h	E200.7	50.0	<b>380</b>	
Thallium	mg/L	6/13/2014 1210h	6/18/2014 1258h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/13/2014 1210h	6/16/2014 1506h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/13/2014 1210h	6/17/2014 515h	E200.8	0.000300	<b>0.00886</b>	
Vanadium	mg/L	6/13/2014 1210h	6/17/2014 1858h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/13/2014 1210h	6/17/2014 1858h	E200.7	0.0100	<b>0.0149</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406278-002  
**Client Sample ID:** MW-23\_06112014  
**Collection Date:** 6/11/2014 900h  
**Received Date:** 6/13/2014 1010h

### 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	6/24/2014 1700h	6/24/2014 1952h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/17/2014 956h	SM2320B	1.00	<b>276</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/17/2014 956h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/23/2014 1220h	E300.0	1.00	<b>7.44</b>	
Fluoride	mg/L		6/23/2014 1220h	E300.0	1.00	< 1.00	
Ion Balance	%		6/24/2014 933h	Calc.	-100	<b>-4.55</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1858h	E353.2	0.100	<b>0.195</b>	
Sulfate	mg/L		6/20/2014 1920h	E300.0	1,000	<b>2,430</b>	
Total Anions, Measured	meq/L		6/24/2014 933h	Calc.		<b>56.2</b>	
Total Cations, Measured	meq/L		6/24/2014 933h	Calc.		<b>51.4</b>	
Total Dissolved Solids	mg/L		6/13/2014 1900h	SM2540C	20.0	<b>3,620</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/24/2014 933h	Calc.		<b>1.01</b>	
Total Dissolved Solids, Calculated	mg/L		6/24/2014 933h	Calc.		<b>3,580</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 2014  
**Lab Sample ID:** 1406278-002A  
**Client Sample ID:** MW-23\_06112014  
**Collection Date:** 6/11/2014 900h  
**Received Date:** 6/13/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/13/2014 1148h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	49.4	50.00	98.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.7	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	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: July 16, 2014

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\_06112014  
 Sample ID: 351093002  
 Matrix: Ground Water  
 Collect Date: 11-JUN-14 09:00  
 Receive Date: 20-JUN-14  
 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		1.22	+/-0.223	0.317	1.00	pCi/L		CXP3	07/12/14	1616	1399658	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-003  
**Client Sample ID:** MW-24\_05302014  
**Collection Date:** 5/30/2014 710h  
**Received Date:** 6/3/2014 940h

**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	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/4/2014 1025h	6/10/2014 1629h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.000500	<b>0.00291</b>	
Calcium	mg/L	6/4/2014 1025h	6/11/2014 1745h	E200.7	50.0	<b>463</b>	
Chromium	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.0100	<b>0.0285</b>	
Copper	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/4/2014 1025h	6/10/2014 1629h	E200.8	0.0300	<b>0.137</b>	
Lead	mg/L	6/4/2014 1025h	6/10/2014 1629h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/4/2014 1025h	6/11/2014 1745h	E200.7	50.0	<b>187</b>	
Manganese	mg/L	6/4/2014 1025h	6/10/2014 1606h	E200.8	0.0250	<b>1.51</b>	
Mercury	mg/L	6/4/2014 1530h	6/5/2014 1012h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.0200	<b>0.0261</b>	
Potassium	mg/L	6/4/2014 1025h	6/12/2014 1255h	E200.7	1.00	<b>11.9</b>	
Selenium	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/4/2014 1025h	6/9/2014 1456h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/4/2014 1025h	6/12/2014 1045h	E200.7	50.0	<b>498</b>	
Thallium	mg/L	6/4/2014 1025h	6/10/2014 1629h	E200.8	0.000500	<b>0.00123</b>	
Tin	mg/L	6/4/2014 1025h	6/10/2014 1734h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/4/2014 1025h	6/10/2014 1741h	E200.8	0.000300	<b>0.00440</b>	
Vanadium	mg/L	6/4/2014 1025h	6/12/2014 1255h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/4/2014 1025h	6/12/2014 1255h	E200.7	0.0100	<b>0.0604</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-003  
**Client Sample ID:** MW-24\_05302014  
**Collection Date:** 5/30/2014 710h  
**Received Date:** 6/3/2014 940h

## Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/6/2014 1030h	6/9/2014 1950h	E350.1	0.0500	<b>0.0756</b>	
Bicarbonate (as CaCO3)	mg/L		6/4/2014 752h	SM2320B	1.00	<b>111</b>	
Carbonate (as CaCO3)	mg/L		6/4/2014 752h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/10/2014 1740h	E300.0	10.0	<b>44.7</b>	
Fluoride	mg/L		6/10/2014 2255h	E300.0	0.100	<b>0.337</b>	
Ion Balance	%		6/12/2014 1339h	Calc.	-100	<b>5.26</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1811h	E353.2	0.100	<b>0.269</b>	
Sulfate	mg/L		6/10/2014 1725h	E300.0	500	<b>2,450</b>	
Total Anions, Measured	meq/L		6/12/2014 1339h	Calc.		<b>54.4</b>	
Total Cations, Measured	meq/L		6/12/2014 1339h	Calc.		<b>60.4</b>	
Total Dissolved Solids	mg/L		6/4/2014 1205h	SM2540C	20.0	<b>3,970</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/12/2014 1339h	Calc.		<b>1.07</b>	
Total Dissolved Solids, Calculated	mg/L		6/12/2014 1339h	Calc.		<b>3,720</b>	

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Kyle F. Gross  
 Laboratory Director  
  
 Jose Rocha  
 QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-003A  
**Client Sample ID:** MW-24\_05302014  
**Collection Date:** 5/30/2014 710h  
**Received Date:** 6/3/2014 940h

Test Code: 8260-W

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/3/2014 1326h

**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	53.6	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.0	50.00	98.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.6	50.00	99.3	80-124	
Surr: Toluene-d8	2037-26-5	48.3	50.00	96.7	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 30, 2014

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_05302014	Project: DNMI00100
Sample ID: 350282015	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 30-MAY-14 07:10	
Receive Date: 09-JUN-14	
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	+/-0.280	0.917	1.00	pCi/L		CXP3	06/26/14	1122	1394634	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"			104	(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 2014  
**Lab Sample ID:** 1406025-006  
**Client Sample ID:** MW-25\_06022014  
**Collection Date:** 6/2/2014 1055h  
**Received Date:** 6/3/2014 940h

## 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	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/4/2014 1025h	6/10/2014 1646h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.000500	<b>0.00124</b>	
Calcium	mg/L	6/4/2014 1025h	6/11/2014 1749h	E200.7	50.0	<b>336</b>	
Chromium	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/4/2014 1025h	6/10/2014 1646h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/4/2014 1025h	6/10/2014 1646h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/4/2014 1025h	6/11/2014 1749h	E200.7	50.0	<b>125</b>	
Manganese	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.0100	<b>1.44</b>	
Mercury	mg/L	6/4/2014 1530h	6/5/2014 1018h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.0100	<b>0.0109</b>	
Nickel	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/4/2014 1025h	6/12/2014 1259h	E200.7	1.00	<b>8.90</b>	
Selenium	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/4/2014 1025h	6/9/2014 1547h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/4/2014 1025h	6/12/2014 1049h	E200.7	50.0	<b>298</b>	
Thallium	mg/L	6/4/2014 1025h	6/10/2014 1646h	E200.8	0.000500	<b>0.000808</b>	
Tin	mg/L	6/4/2014 1025h	6/10/2014 1746h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/4/2014 1025h	6/10/2014 1753h	E200.8	0.000300	<b>0.00607</b>	
Vanadium	mg/L	6/4/2014 1025h	6/12/2014 1259h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/4/2014 1025h	6/12/2014 1259h	E200.7	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-006  
**Client Sample ID:** MW-25\_06022014  
**Collection Date:** 6/2/2014 1055h  
**Received Date:** 6/3/2014 940h

**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	6/6/2014 1030h	6/9/2014 1952h	E350.1	0.0500	<b>0.391</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/4/2014 752h	SM2320B	1.00	<b>322</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/4/2014 752h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/10/2014 1915h	E300.0	5.00	<b>30.9</b>	
Fluoride	mg/L		6/10/2014 2327h	E300.0	0.100	<b>0.328</b>	
Ion Balance	%		6/12/2014 1339h	Calc.	-100	<b>0.695</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1824h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/10/2014 1828h	E300.0	500	<b>1,560</b>	
Total Anions, Measured	meq/L		6/12/2014 1339h	Calc.		<b>39.7</b>	
Total Cations, Measured	meq/L		6/12/2014 1339h	Calc.		<b>40.3</b>	
Total Dissolved Solids	mg/L		6/4/2014 1205h	SM2540C	20.0	<b>2,820</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/12/2014 1339h	Calc.		<b>1.11</b>	
Total Dissolved Solids, Calculated	mg/L		6/12/2014 1339h	Calc.		<b>2,550</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-006A  
**Client Sample ID:** MW-25\_06022014  
**Collection Date:** 6/2/2014 1055h  
**Received Date:** 6/3/2014 940h Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/3/2014 1422h

**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	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.4	50.00	98.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.1	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	48.5	50.00	97.0	77-129	

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## Certificate of Analysis

Report Date: June 30, 2014

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_06022014	Project: DNMI00100
Sample ID: 350282016	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 02-JUN-14 10:55	
Receive Date: 09-JUN-14	
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	+/-0.289	0.810	1.00	pCi/L		CXP3	06/26/14	1122 1394634	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-006  
**Client Sample ID:** MW-26\_06052014  
**Collection Date:** 6/5/2014 630h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014 1125h	6/11/2014 407h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014 1125h	6/12/2014 1636h	E200.7	50.0	<b>515</b>	
Chromium	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014 1125h	6/11/2014 407h	E200.8	0.0300	<b>0.381</b>	
Lead	mg/L	6/6/2014 1125h	6/11/2014 407h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014 1125h	6/12/2014 1636h	E200.7	50.0	<b>191</b>	
Manganese	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.0100	<b>1.15</b>	
Mercury	mg/L	6/9/2014 1445h	6/10/2014 1134h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014 1125h	6/12/2014 2144h	E200.7	1.00	<b>11.7</b>	
Selenium	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.00500	<b>0.00641</b>	
Silver	mg/L	6/6/2014 1125h	6/9/2014 2101h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014 1125h	6/12/2014 1636h	E200.7	50.0	<b>178</b>	
Thallium	mg/L	6/6/2014 1125h	6/11/2014 407h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014 1125h	6/11/2014 1320h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014 1125h	6/11/2014 542h	E200.8	0.000300	<b>0.0750</b>	
Vanadium	mg/L	6/6/2014 1125h	6/12/2014 1808h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014 1125h	6/12/2014 1808h	E200.7	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 2014  
**Lab Sample ID:** 1406109-006  
**Client Sample ID:** MW-26\_06052014  
**Collection Date:** 6/5/2014 630h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/15/2014 1100h	6/16/2014 1245h	E350.1	0.0500	<b>0.256</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>341</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1913h	E300.0	10.0	<b>63.2</b>	
Fluoride	mg/L		6/12/2014 2119h	E300.0	0.100	<b>0.279</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>7.17</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1743h	E353.2	0.100	<b>1.42</b>	
Sulfate	mg/L		6/12/2014 1620h	E300.0	500	<b>1,640</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>42.8</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>49.4</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>3,160</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>1.13</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>2,810</b>	

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-006A  
**Client Sample ID:** MW-26\_06052014  
**Collection Date:** 6/5/2014 630h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

## Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 925h

**Units:** µg/L

**Dilution Factor:** 20

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,450	~

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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	1,110	1,000	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,010	1,000	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,040	1,000	104	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:** 6/6/2014 145h

**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	6.73	
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	55.5	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.1	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.6	50.00	107	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: June 30, 2014

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_06052014	Project: DNMI00100
Sample ID: 350282006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 05-JUN-14 06:30	
Receive Date: 09-JUN-14	
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		2.47	+/-0.462	0.807	1.00	pCi/L		CXP3	06/26/14	1121	1394634	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"			102	(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 2014  
**Lab Sample ID:** 1405608-005  
**Client Sample ID:** MW-27\_05282014  
**Collection Date:** 5/28/2014 1100h  
**Received Date:** 5/30/2014 1010h

## 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	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/30/2014 1310h	6/3/2014 2013h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/30/2014 1310h	6/4/2014 1519h	E200.7	50.0	<b>164</b>	
Chromium	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/30/2014 1310h	6/4/2014 2113h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/30/2014 1310h	6/3/2014 2013h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/30/2014 1310h	6/4/2014 1519h	E200.7	50.0	<b>75.4</b>	
Manganese	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/2/2014 1230h	6/3/2014 942h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/30/2014 1310h	6/4/2014 1431h	E200.7	1.00	<b>3.86</b>	
Selenium	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.00500	<b>0.0124</b>	
Silver	mg/L	5/30/2014 1310h	6/3/2014 1917h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/30/2014 1310h	6/4/2014 1519h	E200.7	50.0	<b>74.4</b>	<b>B</b>
Thallium	mg/L	5/30/2014 1310h	6/4/2014 2113h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/30/2014 1310h	6/4/2014 2004h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/30/2014 1310h	6/4/2014 2209h	E200.8	0.000300	<b>0.0277</b>	
Vanadium	mg/L	5/30/2014 1310h	6/4/2014 1431h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/30/2014 1310h	6/4/2014 1431h	E200.7	0.0100	< 0.0100	

*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 2014  
**Lab Sample ID:** 1405608-005  
**Client Sample ID:** MW-27\_05282014  
**Collection Date:** 5/28/2014 1100h  
**Received Date:** 5/30/2014 1010h

### 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	6/3/2014 1100h	6/4/2014 1446h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	<b>356</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/6/2014 2258h	E300.0	10.0	<b>45.9</b>	
Fluoride	mg/L		6/10/2014 106h	E300.0	0.100	<b>0.637</b>	
Ion Balance	%		6/9/2014 1548h	Calc.	-100	<b>-2.48</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1802h	E353.2	1.00	<b>7.35</b>	
Sulfate	mg/L		6/6/2014 2243h	E300.0	50.0	<b>484</b>	
Total Anions, Measured	meq/L		6/9/2014 1548h	Calc.		<b>18.6</b>	
Total Cations, Measured	meq/L		6/9/2014 1548h	Calc.		<b>17.7</b>	
Total Dissolved Solids	mg/L		5/30/2014 1325h	SM2540C	20.0	<b>1,040</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/9/2014 1548h	Calc.		<b>0.970</b>	
Total Dissolved Solids, Calculated	mg/L		6/9/2014 1548h	Calc.		<b>1,070</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-005A  
**Client Sample ID:** MW-27\_05282014  
**Collection Date:** 5/28/2014 1100h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/30/2014 1423h

**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	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.9	50.00	97.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.1	50.00	98.3	80-124	
Surr: Toluene-d8	2037-26-5	48.1	50.00	96.2	77-129	

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: June 7, 2014

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_05282014	Project: DNMI00100
Sample ID: 349790005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 28-MAY-14 11:00	
Receive Date: 02-JUN-14	
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		2.33	+/-0.407	0.614	1.00	pCi/L		CXP3	06/05/14	1224	1392631	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"			102	(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 2014  
**Lab Sample ID:** 1406404-003  
**Client Sample ID:** MW-28\_06182014  
**Collection Date:** 6/18/2014 1330h  
**Received Date:** 6/19/2014 900h

### 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	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.00500	<b>0.0199</b>	
Beryllium	mg/L	6/19/2014 1230h	6/20/2014 1848h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.000500	<b>0.00541</b>	
Calcium	mg/L	6/19/2014 1230h	6/25/2014 1029h	E200.7	50.0	<b>554</b>	
Chromium	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.0100	<b>0.0216</b>	
Copper	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.0100	<b>0.0105</b>	
Iron	mg/L	6/19/2014 1230h	6/25/2014 1705h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/19/2014 1230h	6/20/2014 1848h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/19/2014 1230h	6/25/2014 1029h	E200.7	50.0	<b>180</b>	
Manganese	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.0100	<b>1.75</b>	
Mercury	mg/L	6/23/2014 1445h	6/24/2014 903h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.0200	<b>0.0231</b>	
Potassium	mg/L	6/19/2014 1230h	6/25/2014 1150h	E200.7	1.00	<b>12.5</b>	
Selenium	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.00500	<b>0.00604</b>	
Silver	mg/L	6/19/2014 1230h	6/20/2014 1733h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/19/2014 1230h	6/25/2014 1029h	E200.7	50.0	<b>313</b>	
Thallium	mg/L	6/19/2014 1230h	6/20/2014 1848h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/19/2014 1230h	6/23/2014 1650h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/19/2014 1230h	6/24/2014 1757h	E200.8	0.000300	<b>0.0613</b>	
Vanadium	mg/L	6/19/2014 1230h	6/25/2014 1150h	E200.7	0.0150	<b>0.109</b>	
Zinc	mg/L	6/19/2014 1230h	6/25/2014 1150h	E200.7	0.0100	<b>0.0406</b>	



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406404-003  
**Client Sample ID:** MW-28\_06182014  
**Collection Date:** 6/18/2014 1330h  
**Received Date:** 6/19/2014 900h

## Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/25/2014 1130h	6/25/2014 2025h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/20/2014 705h	SM2320B	1.00	<b>240</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/20/2014 705h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/24/2014 2356h	E300.0	1.00	<b>114</b>	
Fluoride	mg/L		6/24/2014 2356h	E300.0	1.00	< 1.00	
Ion Balance	%		6/26/2014 1450h	Calc.	-100	<b>-1.45</b>	
Nitrate/Nitrite (as N)	mg/L		6/19/2014 1609h	E353.2	0.100	<b>0.258</b>	
Sulfate	mg/L		6/25/2014 012h	E300.0	100	<b>2,410</b>	
Total Anions, Measured	meq/L		6/26/2014 1450h	Calc.		<b>58.1</b>	
Total Cations, Measured	meq/L		6/26/2014 1450h	Calc.		<b>56.4</b>	
Total Dissolved Solids	mg/L		6/20/2014 1050h	SM2540C	20.0	<b>3,680</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/26/2014 1450h	Calc.		<b>0.987</b>	
Total Dissolved Solids, Calculated	mg/L		6/26/2014 1450h	Calc.		<b>3,720</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 2014  
**Lab Sample ID:** 1406404-003A  
**Client Sample ID:** MW-28\_06182014  
**Collection Date:** 6/18/2014 1330h  
**Received Date:** 6/19/2014 900h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/19/2014 1524h

**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	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.3	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.5	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: July 16, 2014

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_06182014	Project: DNMI00100
Sample ID: 351093006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 18-JUN-14 13:30	
Receive Date: 20-JUN-14	
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	+/-0.218	0.312	1.00	pCi/L		CXP3	07/12/14	1617	1399658	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"			99.6	(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 2014  
**Lab Sample ID:** 1406109-007  
**Client Sample ID:** MW-29\_06032014  
**Collection Date:** 6/3/2014 1315h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### 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	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014	1125h	6/11/2014	412h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014	1125h	6/12/2014	1643h	E200.7	50.0	<b>478</b>	
Chromium	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.120	<b>1.26</b>	
Lead	mg/L	6/6/2014	1125h	6/11/2014	412h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014	1125h	6/12/2014	1643h	E200.7	50.0	<b>221</b>	
Manganese	mg/L	6/6/2014	1125h	6/11/2014	255h	E200.8	0.0500	<b>4.70</b>	
Mercury	mg/L	6/9/2014	1445h	6/10/2014	1135h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014	1125h	6/12/2014	2146h	E200.7	1.00	<b>17.0</b>	
Selenium	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.00500	< 0.00500	
Silver	mg/L	6/6/2014	1125h	6/9/2014	2107h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014	1125h	6/12/2014	1643h	E200.7	50.0	<b>471</b>	
Thallium	mg/L	6/6/2014	1125h	6/11/2014	412h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014	1125h	6/13/2014	1355h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014	1125h	6/11/2014	547h	E200.8	0.000300	<b>0.0121</b>	
Vanadium	mg/L	6/6/2014	1125h	6/12/2014	1809h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014	1125h	6/12/2014	1809h	E200.7	0.0100	<b>0.0128</b>	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-007  
**Client Sample ID:** MW-29\_06032014  
**Collection Date:** 6/3/2014 1315h  
**Received Date:** 6/5/2014 1615h

**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	6/15/2014 1100h	6/16/2014 1250h	E350.1	0.0500	<b>0.588</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>306</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1723h	E300.0	5.00	<b>37.2</b>	
Fluoride	mg/L		6/12/2014 2135h	E300.0	0.100	<b>0.699</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>2.99</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1750h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/12/2014 1708h	E300.0	500	<b>2,510</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>59.3</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>63.0</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>4,200</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>1.07</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>3,910</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-007A  
**Client Sample ID:** MW-29\_06032014  
**Collection Date:** 6/3/2014 1315h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 203h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	55.4	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.0	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.1	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	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: June 30, 2014

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_06032014	Project: DNMI00100
Sample ID: 350282007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 03-JUN-14 13:15	
Receive Date: 09-JUN-14	
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	+/-0.341	0.943	1.00	pCi/L		CXP3	06/26/14	1121	1394634	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"			103	(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 2014  
**Lab Sample ID:** 1406109-008  
**Client Sample ID:** MW-30\_06032014  
**Collection Date:** 6/3/2014 1020h  
**Received Date:** 6/5/2014 1615h

**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	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014	1125h	6/11/2014	418h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014	1125h	6/12/2014	1645h	E200.7	50.0	<b>259</b>	
Chromium	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014	1125h	6/11/2014	418h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/6/2014	1125h	6/11/2014	418h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014	1125h	6/12/2014	1645h	E200.7	50.0	<b>72.6</b>	
Manganese	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.0100	<b>0.0179</b>	
Mercury	mg/L	6/9/2014	1445h	6/10/2014	1137h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014	1125h	6/12/2014	1817h	E200.7	1.00	<b>6.41</b>	
Selenium	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.00500	<b>0.0354</b>	
Silver	mg/L	6/6/2014	1125h	6/9/2014	2113h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014	1125h	6/12/2014	1645h	E200.7	50.0	<b>94.9</b>	
Thallium	mg/L	6/6/2014	1125h	6/11/2014	418h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014	1125h	6/13/2014	1401h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014	1125h	6/11/2014	553h	E200.8	0.000300	<b>0.00735</b>	
Vanadium	mg/L	6/6/2014	1125h	6/12/2014	1817h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014	1125h	6/12/2014	1817h	E200.7	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 2014  
**Lab Sample ID:** 1406109-008  
**Client Sample ID:** MW-30\_06032014  
**Collection Date:** 6/3/2014 1020h  
**Received Date:** 6/5/2014 1615h

**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	6/15/2014 1100h	6/16/2014 1254h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	152	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1739h	E300.0	50.0	128	
Fluoride	mg/L		6/12/2014 2151h	E300.0	0.100	0.342	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	2.39	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1752h	E353.2	2.00	19.4	
Sulfate	mg/L		6/12/2014 1739h	E300.0	50.0	727	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		22.1	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		23.2	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	1,500	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		1.07	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		1,400	



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-008A  
**Client Sample ID:** MW-30\_06032014  
**Collection Date:** 6/3/2014 1020h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 222h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.4	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

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 Laboratory Director

Jose Rocha  
 QA Officer

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: June 30, 2014

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_06032014	Project: DNMI00100
Sample ID: 350282008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 03-JUN-14 10:20	
Receive Date: 09-JUN-14	
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	+/-0.254	0.762	1.00	pCi/L		CXP3	06/26/14	1124	1394634	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"			98.9	(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 2014  
**Lab Sample ID:** 1406109-009  
**Client Sample ID:** MW-31\_06022014  
**Collection Date:** 6/2/2014 1255h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date		Method	Reporting	Analytical	Qual
		Prepared	Analyzed	Used	Limit	Result	
Arsenic	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014 1125h	6/11/2014 423h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014 1125h	6/12/2014 1647h	E200.7	50.0	<b>202</b>	
Chromium	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014 1125h	6/11/2014 423h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/6/2014 1125h	6/11/2014 423h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014 1125h	6/12/2014 1647h	E200.7	50.0	<b>101</b>	
Manganese	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/9/2014 1445h	6/10/2014 1139h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014 1125h	6/12/2014 1818h	E200.7	1.00	<b>6.15</b>	
Selenium	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.00500	<b>0.0694</b>	
Silver	mg/L	6/6/2014 1125h	6/9/2014 2119h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014 1125h	6/12/2014 1647h	E200.7	50.0	<b>93.1</b>	
Thallium	mg/L	6/6/2014 1125h	6/11/2014 423h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014 1125h	6/13/2014 1407h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014 1125h	6/11/2014 558h	E200.8	0.000300	<b>0.00772</b>	
Vanadium	mg/L	6/6/2014 1125h	6/12/2014 1818h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014 1125h	6/12/2014 1818h	E200.7	0.0100	< 0.0100	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-009  
**Client Sample ID:** MW-31\_06022014  
**Collection Date:** 6/2/2014 1255h  
**Received Date:** 6/5/2014 1615h

**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	6/15/2014 1100h	6/16/2014 1255h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	172	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1755h	E300.0	50.0	173	
Fluoride	mg/L		6/12/2014 2207h	E300.0	0.100	0.737	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	5.36	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1753h	E353.2	2.00	23.1	
Sulfate	mg/L		6/12/2014 1755h	E300.0	50.0	555	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		20.3	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		22.6	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	1,520	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		1.21	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		1,260	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-009A  
**Client Sample ID:** MW-31\_06022014  
**Collection Date:** 6/2/2014 1255h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 241h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	55.2	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.6	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	50.7	50.00	101	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: June 30, 2014

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_06022014	Project: DNMI00100
Sample ID: 350282009	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 02-JUN-14 12:55	
Receive Date: 09-JUN-14	
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	+/-0.290	0.844	1.00	pCi/L		CXP3	06/26/14	1121	1394634	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"			102	(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 2014  
**Lab Sample ID:** 1405563-001  
**Client Sample ID:** MW-32\_05232014  
**Collection Date:** 5/23/2014 1250h  
**Received Date:** 5/28/2014 0940h

**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	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/29/2014 1215h	5/31/2014 0030h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.000500	<b>0.000875</b>	
Calcium	mg/L	5/29/2014 1215h	6/2/2014 1551h	E200.7	50.0	<b>491</b>	2
Chromium	mg/L	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.0100	<b>0.0361</b>	
Copper	mg/L	5/29/2014 1215h	6/3/2014 0342h	E200.8	0.0100	<b>0.0235</b>	
Iron	mg/L	5/29/2014 1215h	6/3/2014 0309h	E200.8	0.600	<b>4.57</b>	
Lead	mg/L	5/29/2014 1215h	5/31/2014 0030h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/29/2014 1215h	6/2/2014 1551h	E200.7	50.0	<b>209</b>	
Manganese	mg/L	5/29/2014 1215h	6/3/2014 0739h	E200.8	0.0500	<b>4.95</b>	2
Mercury	mg/L	6/2/2014 1230h	6/3/2014 0923h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.0100	<b>0.0106</b>	
Nickel	mg/L	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.0200	<b>0.0403</b>	
Potassium	mg/L	5/29/2014 1215h	6/3/2014 0920h	E200.7	1.00	<b>12.6</b>	
Selenium	mg/L	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/29/2014 1215h	5/30/2014 2340h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/29/2014 1215h	6/2/2014 1551h	E200.7	50.0	<b>237</b>	2
Thallium	mg/L	5/29/2014 1215h	5/31/2014 0030h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/29/2014 1215h	6/3/2014 0342h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/29/2014 1215h	5/31/2014 0057h	E200.8	0.000300	<b>0.00160</b>	
Vanadium	mg/L	5/29/2014 1215h	6/2/2014 1605h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/29/2014 1215h	6/3/2014 0920h	E200.7	0.0100	<b>0.0849</b>	

<sup>2</sup> - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

Reissue of a previously generated report. The sample ID and collection date has been updated. Information herein supersedes that of the previously issued reports.



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405563-001  
**Client Sample ID:** MW-32\_05232014  
**Collection Date:** 5/23/2014 1250h  
**Received Date:** 5/28/2014 0940h

**Contact:** Garrin Palmer

### Analytical Results

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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	5/30/2014 1100h	6/2/2014 1817h	E350.1	0.0500	<b>0.510</b>	'@
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		5/29/2014 0946h	SM2320B	1.00	<b>399</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		5/29/2014 0946h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/4/2014 2116h	E300.0	10.0	<b>35.6</b>	
Fluoride	mg/L		6/5/2014 0112h	E300.0	0.100	<b>0.221</b>	
Ion Balance	%		6/5/2014 1103h	Calc.	-100	<b>1.74</b>	
Nitrate/Nitrite (as N)	mg/L		6/3/2014 2244h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/4/2014 1839h	E300.0	500	<b>1,990</b>	
Total Anions, Measured	meq/L		6/5/2014 1103h	Calc.		<b>50.5</b>	
Total Cations, Measured	meq/L		6/5/2014 1103h	Calc.		<b>52.3</b>	
Total Dissolved Solids	mg/L		5/28/2014 1300h	SM2540C	20.0	<b>3,530</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/5/2014 1103h	Calc.		<b>1.10</b>	
Total Dissolved Solids, Calculated	mg/L		6/5/2014 1103h	Calc.		<b>3,220</b>	

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

@ - 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.

Reissue of a previously generated report. The sample ID and collection date has been updated. Information herein supersedes that of the previously issued reports.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405563-001A  
**Client Sample ID:** MW-32\_05232014  
**Collection Date:** 5/23/2014 1250h  
**Received Date:** 5/28/2014 0940h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2014 1546h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.9	50.00	97.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.6	50.00	99.2	80-124	
Surr: Toluene-d8	2037-26-5	48.5	50.00	97.1	77-129	

*Reissue of a previously generated report. The sample ID and collection date has been updated. Information herein supersedes that of the previously issued reports.*

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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 7, 2014

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_05232014	Project: DNMI00100
Sample ID: 349790006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 23-MAY-14 12:50	
Receive Date: 02-JUN-14	
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		4.35	+/-0.543	0.662	1.00	pCi/L		CXP3	06/05/14	1224	1392631	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"			105	(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 2014  
**Lab Sample ID:** 1406109-010  
**Client Sample ID:** MW-35\_06042014  
**Collection Date:** 6/4/2014 745h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014 1125h	6/11/2014 429h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014 1125h	6/12/2014 1648h	E200.7	50.0	<b>518</b>	
Chromium	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014 1125h	6/11/2014 429h	E200.8	0.0300	<b>0.0813</b>	
Lead	mg/L	6/6/2014 1125h	6/11/2014 429h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014 1125h	6/12/2014 1648h	E200.7	50.0	<b>173</b>	
Manganese	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.0100	<b>0.202</b>	
Mercury	mg/L	6/9/2014 1445h	6/10/2014 1140h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014 1125h	6/12/2014 1820h	E200.7	1.00	<b>11.6</b>	
Selenium	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.00500	<b>0.0139</b>	
Silver	mg/L	6/6/2014 1125h	6/9/2014 2125h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014 1125h	6/12/2014 1648h	E200.7	50.0	<b>386</b>	
Thallium	mg/L	6/6/2014 1125h	6/11/2014 429h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014 1125h	6/13/2014 1413h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014 1125h	6/11/2014 621h	E200.8	0.000300	<b>0.0219</b>	
Vanadium	mg/L	6/6/2014 1125h	6/12/2014 1820h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014 1125h	6/12/2014 1820h	E200.7	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 2014  
**Lab Sample ID:** 1406109-010  
**Client Sample ID:** MW-35\_06042014  
**Collection Date:** 6/4/2014 745h  
**Received Date:** 6/5/2014 1615h

**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	6/15/2014 1100h	6/16/2014 1256h	E350.1	0.0500	<b>0.0778</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>340</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1826h	E300.0	10.0	<b>62.6</b>	
Fluoride	mg/L		6/12/2014 2222h	E300.0	0.100	<b>0.350</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>5.59</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1754h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/12/2014 1811h	E300.0	500	<b>2,040</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>51.1</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>57.2</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>3,720</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>1.10</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>3,400</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-010A  
**Client Sample ID:** MW-35\_06042014  
**Collection Date:** 6/4/2014 745h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 259h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	77-129	

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Kyle F. Gross  
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Jose Rocha  
QA Officer

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## Certificate of Analysis

Report Date: August 4, 2014

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_06042014	Project: DNMI00100
Sample ID: 350282010	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 04-JUN-14 07:45	
Receive Date: 09-JUN-14	
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		3.36	+/-0.334	0.333	1.00	pCi/L		CXP3	07/29/14	1640	1394634	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-006  
**Client Sample ID:** MW-36\_05292014  
**Collection Date:** 5/29/2014 740h  
**Received Date:** 5/30/2014 1010h

**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	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/30/2014 1310h	6/3/2014 2018h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/30/2014 1310h	6/4/2014 1521h	E200.7	50.0	<b>427</b>	
Chromium	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/30/2014 1310h	6/4/2014 2118h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/30/2014 1310h	6/3/2014 2018h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/30/2014 1310h	6/4/2014 1521h	E200.7	50.0	<b>142</b>	
Manganese	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	6/2/2014 1230h	6/3/2014 944h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/30/2014 1310h	6/4/2014 1435h	E200.7	1.00	<b>8.94</b>	
Selenium	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.00500	<b>0.252</b>	
Silver	mg/L	5/30/2014 1310h	6/3/2014 1922h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/30/2014 1310h	6/4/2014 1521h	E200.7	50.0	<b>669</b>	B
Thallium	mg/L	5/30/2014 1310h	6/4/2014 2118h	E200.8	0.000500	<b>0.000594</b>	
Tin	mg/L	5/30/2014 1310h	6/4/2014 2011h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/30/2014 1310h	6/4/2014 2214h	E200.8	0.000300	<b>0.0228</b>	
Vanadium	mg/L	5/30/2014 1310h	6/4/2014 1435h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/30/2014 1310h	6/4/2014 1435h	E200.7	0.0100	< 0.0100	

*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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-006  
**Client Sample ID:** MW-36\_05292014  
**Collection Date:** 5/29/2014 740h  
**Received Date:** 5/30/2014 1010h

**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	6/3/2014 1100h	6/4/2014 1448h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	<b>306</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/3/2014 1004h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/9/2014 1936h	E300.0	10.0	<b>59.4</b>	
Fluoride	mg/L		6/10/2014 122h	E300.0	0.100	<b>0.313</b>	
Ion Balance	%		6/9/2014 1548h	Calc.	-100	<b>-4.32</b>	
Nitrate/Nitrite (as N)	mg/L		6/5/2014 1803h	E353.2	0.100	<b>0.179</b>	
Sulfate	mg/L		6/9/2014 1920h	E300.0	500	<b>2,890</b>	
Total Anions, Measured	meq/L		6/9/2014 1548h	Calc.		<b>68.0</b>	
Total Cations, Measured	meq/L		6/9/2014 1548h	Calc.		<b>62.4</b>	
Total Dissolved Solids	mg/L		5/30/2014 1325h	SM2540C	20.0	<b>4,250</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/9/2014 1548h	Calc.		<b>0.970</b>	
Total Dissolved Solids, Calculated	mg/L		6/9/2014 1548h	Calc.		<b>4,380</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405608-006A  
**Client Sample ID:** MW-36\_05292014  
**Collection Date:** 5/29/2014 740h  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/30/2014 1441h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

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	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.0	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.6	80-124	
Surr: Toluene-d8	2037-26-5	48.9	50.00	97.8	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: June 7, 2014

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_05292014	Project: DNMI00100
Sample ID: 349790007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 29-MAY-14 07:40	
Receive Date: 02-JUN-14	
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		4.48	+/-0.596	1.03	1.00	pCi/L		CXP3	06/05/14	1224	1392631	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406404-002  
**Client Sample ID:** MW-37\_06182014  
**Collection Date:** 6/18/2014 830h  
**Received Date:** 6/19/2014 900h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/19/2014 1230h	6/20/2014 1842h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/19/2014 1230h	6/25/2014 1027h	E200.7	50.0	<b>468</b>	
Chromium	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/19/2014 1230h	6/25/2014 1659h	E200.8	0.0300	< 0.0300	
Lead	mg/L	6/19/2014 1230h	6/20/2014 1842h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/19/2014 1230h	6/25/2014 1027h	E200.7	50.0	<b>141</b>	
Manganese	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.0100	<b>0.0367</b>	
Mercury	mg/L	6/23/2014 1445h	6/24/2014 901h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/19/2014 1230h	6/25/2014 1143h	E200.7	1.00	<b>16.3</b>	
Selenium	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.00500	<b>0.00789</b>	
Silver	mg/L	6/19/2014 1230h	6/20/2014 1727h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/19/2014 1230h	6/25/2014 1027h	E200.7	50.0	<b>527</b>	
Thallium	mg/L	6/19/2014 1230h	6/20/2014 1842h	E200.8	0.000500	<b>0.000903</b>	
Tin	mg/L	6/19/2014 1230h	6/23/2014 1644h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/19/2014 1230h	6/23/2014 1839h	E200.8	0.000300	<b>0.0118</b>	
Vanadium	mg/L	6/19/2014 1230h	6/25/2014 1143h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/19/2014 1230h	6/25/2014 1143h	E200.7	0.0100	<b>0.0392</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:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406404-002  
**Client Sample ID:** MW-37\_06182014  
**Collection Date:** 6/18/2014 830h  
**Received Date:** 6/19/2014 900h

### Analytical Results

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 Laboratory Director  
  
 Jose Rocha  
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/25/2014 1130h	6/25/2014 2023h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/20/2014 705h	SM2320B	1.00	<b>218</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/20/2014 705h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/24/2014 2325h	E300.0	1.00	<b>45.1</b>	
Fluoride	mg/L		6/24/2014 2325h	E300.0	1.00	< 1.00	
Ion Balance	%		6/26/2014 1450h	Calc.	-100	<b>-2.03</b>	
Nitrate/Nitrite (as N)	mg/L		6/19/2014 1617h	E353.2	0.100	<b>0.401</b>	
Sulfate	mg/L		6/24/2014 2341h	E300.0	100	<b>2,640</b>	
Total Anions, Measured	meq/L		6/26/2014 1450h	Calc.		<b>60.7</b>	
Total Cations, Measured	meq/L		6/26/2014 1450h	Calc.		<b>58.3</b>	
Total Dissolved Solids	mg/L		6/20/2014 1050h	SM2540C	20.0	<b>3,860</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/26/2014 1450h	Calc.		<b>0.970</b>	
Total Dissolved Solids, Calculated	mg/L		6/26/2014 1450h	Calc.		<b>3,970</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406404-002A  
**Client Sample ID:** MW-37\_06182014  
**Collection Date:** 6/18/2014 830h  
**Received Date:** 6/19/2014 900h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/19/2014 1506h

**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	55.7	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.6	50.00	99.3	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.3	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	

# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: July 16, 2014

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\_06182014  
Sample ID: 351093005  
Matrix: Ground Water  
Collect Date: 18-JUN-14 08:30  
Receive Date: 20-JUN-14  
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	+/-0.185	0.382	1.00	pCi/L		CXP3	07/12/14	1617	1399658	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.



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-011  
**Client Sample ID:** MW-65\_06042014  
**Collection Date:** 6/4/2014 745h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

## Analytical Results

## DISSOLVED METALS

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

Compound	Units	Date		Date		Method	Reporting	Analytical	Qual
		Prepared		Analyzed		Used	Limit	Result	
Arsenic	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/6/2014	1125h	6/11/2014	434h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	6/6/2014	1125h	6/12/2014	1650h	E200.7	50.0	<b>533</b>	<sup>3</sup>
Chromium	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.0100	< 0.0100	
Copper	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.0100	< 0.0100	
Iron	mg/L	6/6/2014	1125h	6/11/2014	434h	E200.8	0.0300	<b>0.0874</b>	
Lead	mg/L	6/6/2014	1125h	6/11/2014	434h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	6/6/2014	1125h	6/12/2014	1650h	E200.7	50.0	<b>173</b>	<sup>2</sup>
Manganese	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.0100	<b>0.205</b>	
Mercury	mg/L	6/9/2014	1445h	6/10/2014	1142h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	6/6/2014	1125h	6/12/2014	1822h	E200.7	1.00	<b>11.9</b>	
Selenium	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.00500	<b>0.0142</b>	
Silver	mg/L	6/6/2014	1125h	6/9/2014	2130h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/6/2014	1125h	6/12/2014	1650h	E200.7	50.0	<b>396</b>	<sup>2</sup>
Thallium	mg/L	6/6/2014	1125h	6/11/2014	434h	E200.8	0.000500	< 0.000500	
Tin	mg/L	6/6/2014	1125h	6/13/2014	1419h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/6/2014	1125h	6/11/2014	627h	E200.8	0.000300	<b>0.0224</b>	
Vanadium	mg/L	6/6/2014	1125h	6/12/2014	1822h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/6/2014	1125h	6/12/2014	1822h	E200.7	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-011  
**Client Sample ID:** MW-65\_06042014  
**Collection Date:** 6/4/2014 745h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/15/2014 1100h	6/16/2014 1258h	E350.1	0.0500	<b>0.0831</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	<b>360</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/10/2014 614h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/12/2014 1858h	E300.0	10.0	<b>59.4</b>	
Fluoride	mg/L		6/13/2014 2133h	E300.0	0.100	<b>0.347</b>	
Ion Balance	%		6/15/2014 1931h	Calc.	-100	<b>7.93</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1756h	E353.2	0.100	< 0.100	
Sulfate	mg/L		6/12/2014 1842h	E300.0	500	<b>1,960</b>	
Total Anions, Measured	meq/L		6/15/2014 1931h	Calc.		<b>49.8</b>	
Total Cations, Measured	meq/L		6/15/2014 1931h	Calc.		<b>58.3</b>	
Total Dissolved Solids	mg/L		6/6/2014 1240h	SM2540C	20.0	<b>3,880</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/15/2014 1931h	Calc.		<b>1.16</b>	
Total Dissolved Solids, Calculated	mg/L		6/15/2014 1931h	Calc.		<b>3,350</b>	

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-011A  
**Client Sample ID:** MW-65\_06042014  
**Collection Date:** 6/4/2014 745h  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 318h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

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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	

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Laboratory Director

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.0	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.6	50.00	99.2	80-124	
Surr: Toluene-d8	2037-26-5	48.7	50.00	97.4	77-129	

Jose Rocha  
QA Officer

# GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

## Certificate of Analysis

Report Date: August 4, 2014

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_06042014	Project: DNMI00100
Sample ID: 350282011	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 04-JUN-14 07:45	
Receive Date: 09-JUN-14	
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		4.17	+/-0.372	0.336	1.00	pCi/L		CXP3	07/29/14	1640	1394634	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.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406278-003  
**Client Sample ID:** MW-70\_06112014  
**Collection Date:** 6/11/2014 1300h  
**Received Date:** 6/13/2014 1010h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	6/13/2014 1210h	6/17/2014 441h	E200.8	0.000500	<b>0.0158</b>	
Cadmium	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.000500	<b>0.170</b>	
Calcium	mg/L	6/13/2014 1210h	6/17/2014 1713h	E200.7	50.0	<b>416</b>	
Chromium	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.0100	<b>0.525</b>	
Copper	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.0100	<b>0.121</b>	
Iron	mg/L	6/13/2014 1210h	6/17/2014 441h	E200.8	0.0300	<b>0.0783</b>	
Lead	mg/L	6/13/2014 1210h	6/17/2014 441h	E200.8	0.00100	<b>0.00654</b>	
Magnesium	mg/L	6/13/2014 1210h	6/17/2014 1713h	E200.7	50.0	<b>1,180</b>	
Manganese	mg/L	6/13/2014 1210h	6/16/2014 2029h	E200.8	0.500	<b>50.4</b>	
Mercury	mg/L	6/13/2014 1450h	6/16/2014 1157h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.0100	<b>0.187</b>	
Nickel	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.0200	<b>0.321</b>	
Potassium	mg/L	6/13/2014 1210h	6/19/2014 1154h	E200.7	5.00	<b>21.5</b>	
Selenium	mg/L	6/13/2014 1210h	6/17/2014 400h	E200.8	0.00500	<b>0.0180</b>	
Silver	mg/L	6/13/2014 1210h	6/17/2014 400h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	6/13/2014 1210h	6/17/2014 1713h	E200.7	50.0	<b>274</b>	
Thallium	mg/L	6/13/2014 1210h	6/18/2014 1304h	E200.8	0.000500	<b>0.00146</b>	
Tin	mg/L	6/13/2014 1210h	6/16/2014 1514h	E200.8	0.100	< 0.100	
Uranium	mg/L	6/13/2014 1210h	6/17/2014 521h	E200.8	0.000300	<b>0.0319</b>	
Vanadium	mg/L	6/13/2014 1210h	6/17/2014 1859h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	6/13/2014 1210h	6/17/2014 1859h	E200.7	0.0100	<b>1.53</b>	

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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 2014  
**Lab Sample ID:** 1406278-003  
**Client Sample ID:** MW-70\_06112014  
**Collection Date:** 6/11/2014 1300h  
**Received Date:** 6/13/2014 1010h

**Contact:** Garrin Palmer

### Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	6/24/2014 1700h	6/24/2014 1953h	E350.1	0.0500	<b>0.652</b>	
Bicarbonate (as CaCO <sub>3</sub> )	mg/L		6/25/2014 600h	SM2320B	1.00	<b>14.3</b>	
Carbonate (as CaCO <sub>3</sub> )	mg/L		6/25/2014 600h	SM2320B	1.00	< 1.00	
Chloride	mg/L		6/23/2014 1307h	E300.0	1.00	<b>54.8</b>	
Fluoride	mg/L		6/23/2014 1307h	E300.0	1.00	<b>14.4</b>	
Ion Balance	%		6/24/2014 933h	Calc.	-100	<b>-5.03</b>	
Nitrate/Nitrite (as N)	mg/L		6/14/2014 1909h	E353.2	1.00	<b>2.96</b>	
Sulfate	mg/L		6/20/2014 1936h	E300.0	1,000	<b>6,830</b>	
Total Anions, Measured	meq/L		6/24/2014 933h	Calc.		<b>144</b>	
Total Cations, Measured	meq/L		6/24/2014 933h	Calc.		<b>130</b>	
Total Dissolved Solids	mg/L		6/17/2014 1200h	SM2540C	100	<b>8,480</b>	
Total Dissolved Solids Ratio, Measured/Calculated			6/24/2014 933h	Calc.		<b>0.966</b>	
Total Dissolved Solids, Calculated	mg/L		6/24/2014 933h	Calc.		<b>8,780</b>	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406278-003A  
**Client Sample ID:** MW-70\_06112014  
**Collection Date:** 6/11/2014 1300h  
**Received Date:** 6/13/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/13/2014 1206h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.8	50.00	99.5	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.7	50.00	99.5	80-124	
Surr: Toluene-d8	2037-26-5	49.2	50.00	98.5	77-129	

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# GEL LABORATORIES LLC

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## Certificate of Analysis

Report Date: July 16, 2014

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_06112014	Project: DNMI00100
Sample ID: 351093003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 11-JUN-14 13:00	
Receive Date: 20-JUN-14	
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		3.39	+/-0.374	0.411	1.00	pCi/L		CXP3	07/12/14	1616 1399658	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"			85.0	(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.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1405563-002A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 5/23/2014  
**Received Date:** 5/28/2014 0940h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/28/2014 1604h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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	53.4	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.9	50.00	95.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.5	50.00	97.0	80-124	
Surr: Toluene-d8	2037-26-5	47.6	50.00	95.3	77-129	

*Reissue of a previously generated report. The collection date has been updated. Information herein supersedes that of the previously issued reports.*

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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 2014  
**Lab Sample ID:** 1405608-007A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 5/27/2014  
**Received Date:** 5/30/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/30/2014 1500h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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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	48.6	50.00	97.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.4	50.00	98.8	80-124	
Surr: Toluene-d8	2037-26-5	48.8	50.00	97.6	77-129	



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406025-005A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 5/30/2014  
**Received Date:** 6/3/2014 940h

**Contact:** Garrin Palmer

Test Code: 8260-W

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/3/2014 1403h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

463 West 3600 South  
Salt Lake City, UT 84115

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	

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 Laboratory Director

Jose Rocha  
 QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.7	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.9	50.00	99.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	48.9	50.00	97.8	77-129	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406109-012A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/2/2014  
**Received Date:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/6/2014 337h

**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	56.4	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.6	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	77-129	



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406278-004A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/11/2014  
**Received Date:** 6/13/2014 1010h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/13/2014 1225h

**Units:** µg/L      **Dilution Factor:** 1      **Method:** SW8260C

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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	54.7	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.0	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.8	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Sample ID:** 1406404-004A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 6/18/2014  
**Received Date:** 6/19/2014 900h

**Contact:** Garrin Palmer

Test Code: 8260-W

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 6/19/2014 1543h

**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	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.1	50.00	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2014

Dear Garrin Palmer:

Lab Set ID: 1405563

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 2 sample(s) on 5/28/2014 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.

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.

This is a revision to a report originally issued on 6/5/2014. The sample ID on sample AWAL 1405563-001 and the collection dates on both samples have been updated. Pages 1-8 have been revised.

Thank You,

Approved by:

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US  
Date: 2014.07.28 12:18:12 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1405563  
**Date Received:** 5/28/2014 0940h

463 West 3600 South Salt Lake City, UT 84115	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
	1405563-001A	MW-32_05232014	5/23/2014 1250h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1405563-001B	MW-32_05232014	5/23/2014 1250h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
	1405563-001B	MW-32_05232014	5/23/2014 1250h	Aqueous	Anions, E300.0
Phone: (801) 263-8686	1405563-001C	MW-32_05232014	5/23/2014 1250h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1405563-001D	MW-32_05232014	5/23/2014 1250h	Aqueous	Ammonia, Aqueous
Fax: (801) 263-8687	1405563-001D	MW-32_05232014	5/23/2014 1250h	Aqueous	Nitrite/Nitrate (as N), E353.2
e-mail: awal@awal-labs.com	1405563-001E	MW-32_05232014	5/23/2014 1250h	Aqueous	Mercury, Drinking Water Dissolved
	1405563-001E	MW-32_05232014	5/23/2014 1250h	Aqueous	ICPMS Metals, Dissolved
web: www.awal-labs.com	1405563-001E	MW-32_05232014	5/23/2014 1250h	Aqueous	ICP Metals, Dissolved
	1405563-001E	MW-32_05232014	5/23/2014 1250h	Aqueous	Ion Balance
Kyle F. Gross	1405563-002A	Trip Blank	5/23/2014	Aqueous	VOA by GC/MS Method 8260C/5030C

Laboratory Director

*Reissue of a previously generated report. The sample ID and collection date has been updated. Information herein supersedes that of the previously issued reports.*

Jose Rocha

QA Officer



## Revised Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Chloroform 2014  
**Lab Set ID:** 1405563

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### Sample Receipt Information:

**Date of Receipt:** 5/28/2014  
**Date of Collection:** 5/23/2014  
**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
1405562-001B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1405563-001D	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1405563-001D	Ammonia (as N)	MS/RPD	Sample non-homogeneity or matrix interference
1405563-001E	Calcium	MS/MSD	High analyte concentration
1405563-001E	Manganese	MS	High analyte concentration
1405563-001E	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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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Revised Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Chloroform 2014  
**Lab Set ID:** 1405563

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 5/28/2014  
**Date(s) of Collection:** 5/23/2014  
**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, LCSD, MS, MSD, RPD, and Surrogates:

**Method Blanks (MBs):** Tetrahydrofuran was detected above the reporting limits in MB VOC-C 052814A. Tetrahydrofuran was not detected in any of the samples.

**Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD):** All LCS and LCSD 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, 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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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-32580</b>		Date Analyzed: 06/03/2014 916h											
Test Code: 200.7-DIS		Date Prepared: 05/29/2014 1215h											
Potassium	9.14	mg/L	E200.7	0.0721	1.00	10.00	0	91.4	85 - 115				
Zinc	0.978	mg/L	E200.7	0.00448	0.0100	1.000	0	97.8	85 - 115				
<b>Lab Sample ID: LCS-32580</b>		Date Analyzed: 06/02/2014 1547h											
Test Code: 200.7-DIS		Date Prepared: 05/29/2014 1215h											
Calcium	9.29	mg/L	E200.7	0.00892	1.00	10.00	0	92.9	85 - 115				
Magnesium	9.54	mg/L	E200.7	0.0389	1.00	10.00	0	95.4	85 - 115				
Sodium	9.93	mg/L	E200.7	0.0269	1.00	10.00	0	99.3	85 - 115				
Vanadium	0.184	mg/L	E200.7	0.000596	0.00500	0.2000	0	92.0	85 - 115				
<b>Lab Sample ID: LCS-32581</b>		Date Analyzed: 05/30/2014 2334h											
Test Code: 200.8-DIS		Date Prepared: 05/29/2014 1215h											
Arsenic	0.184	mg/L	E200.8	0.000802	0.00200	0.2000	0	92.2	85 - 115				
Beryllium	0.194	mg/L	E200.8	0.0000950	0.00200	0.2000	0	96.8	85 - 115				
Cadmium	0.181	mg/L	E200.8	0.0000598	0.000500	0.2000	0	90.7	85 - 115				
Chromium	0.183	mg/L	E200.8	0.000608	0.00200	0.2000	0	91.5	85 - 115				
Cobalt	0.184	mg/L	E200.8	0.000124	0.00400	0.2000	0	92.2	85 - 115				
Lead	0.183	mg/L	E200.8	0.000726	0.00200	0.2000	0	91.7	85 - 115				
Molybdenum	0.193	mg/L	E200.8	0.000806	0.00200	0.2000	0	96.5	85 - 115				
Nickel	0.182	mg/L	E200.8	0.00175	0.00200	0.2000	0	91.1	85 - 115				
Selenium	0.180	mg/L	E200.8	0.000644	0.00200	0.2000	0	89.9	85 - 115				
Silver	0.183	mg/L	E200.8	0.000504	0.00200	0.2000	0	91.7	85 - 115				
Thallium	0.180	mg/L	E200.8	0.0000788	0.00200	0.2000	0	90.1	85 - 115				
Uranium	0.190	mg/L	E200.8	0.0000336	0.00200	0.2000	0	94.9	85 - 115				
<b>Lab Sample ID: LCS-32581</b>		Date Analyzed: 06/03/2014 336h											
Test Code: 200.8-DIS		Date Prepared: 05/29/2014 1215h											
Copper	0.211	mg/L	E200.8	0.00149	0.00200	0.2000	0	106	85 - 115				
Tin	0.969	mg/L	E200.8	0.000482	0.00200	1.000	0	96.9	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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-32581	Date Analyzed:	06/03/2014	303h										
Test Code:	200.8-DIS	Date Prepared:	05/29/2014	1215h									
Iron	0.921	mg/L	E200.8	0.0304	0.100	1.000	0	92.1	85 - 115				
<b>Lab Sample ID:</b> LCS-32581	Date Analyzed:	06/03/2014	733h										
Test Code:	200.8-DIS	Date Prepared:	05/29/2014	1215h									
Manganese	0.190	mg/L	E200.8	0.00175	0.00200	0.2000	0	94.9	85 - 115				
<b>Lab Sample ID:</b> LCS-32665	Date Analyzed:	06/03/2014	919h										
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	06/02/2014	1230h									
Mercury	0.00333	mg/L	E245.1	0.00000675	0.000150	0.003330	0	100	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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-32580</b>													
Date Analyzed: 06/03/2014 912h													
Test Code: 200.7-DIS													
Date Prepared: 05/29/2014 1215h													
Potassium	< 1.00	mg/L	E200.7	0.0721	1.00								
Zinc	< 0.0100	mg/L	E200.7	0.00448	0.0100								
<b>Lab Sample ID: MB-32580</b>													
Date Analyzed: 06/02/2014 1545h													
Test Code: 200.7-DIS													
Date Prepared: 05/29/2014 1215h													
Calcium	< 1.00	mg/L	E200.7	0.00892	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0389	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0269	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.000596	0.00500								
<b>Lab Sample ID: MB-32581</b>													
Date Analyzed: 05/30/2014 2329h													
Test Code: 200.8-DIS													
Date Prepared: 05/29/2014 1215h													
Arsenic	< 0.00200	mg/L	E200.8	0.000802	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000598	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000608	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000124	0.00400								
Molybdenum	< 0.00200	mg/L	E200.8	0.000806	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000644	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000504	0.00200								
<b>Lab Sample ID: MB-32581</b>													
Date Analyzed: 05/31/2014 024h													
Test Code: 200.8-DIS													
Date Prepared: 05/29/2014 1215h													
Beryllium	< 0.000500	mg/L	E200.8	0.0000238	0.000500								
Lead	< 0.000500	mg/L	E200.8	0.000182	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.0000197	0.000500								
<b>Lab Sample ID: MB-32581</b>													
Date Analyzed: 05/31/2014 052h													
Test Code: 200.8-DIS													
Date Prepared: 05/29/2014 1215h													
Uranium	< 0.000200	mg/L	E200.8	0.00000336	0.000200								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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-32581	Date Analyzed:	06/03/2014	330h										
Test Code:	Date Prepared:	200.8-DIS	05/29/2014	1215h									
Copper	< 0.00200	mg/L	E200.8	0.00149	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000482	0.00200								
<b>Lab Sample ID:</b> MB-32581	Date Analyzed:	06/03/2014	258h										
Test Code:	Date Prepared:	200.8-DIS	05/29/2014	1215h									
Iron	< 0.100	mg/L	E200.8	0.0304	0.100								
<b>Lab Sample ID:</b> MB-32581	Date Analyzed:	06/03/2014	727h										
Test Code:	Date Prepared:	200.8-DIS	05/29/2014	1215h									
Manganese	< 0.00200	mg/L	E200.8	0.00175	0.00200								
<b>Lab Sample ID:</b> MB-32665	Date Analyzed:	06/03/2014	918h										
Test Code:	Date Prepared:	Hg-DW-DIS-245.1	06/02/2014	1230h									
Mercury	< 0.000150	mg/L	E245.1	0.00000675	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405563-001EMS</b>													
Date Analyzed: 06/03/2014 924h													
Test Code: 200.7-DIS													
Date Prepared: 05/29/2014 1215h													
Potassium	22.0	mg/L	E200.7	0.0721	1.00	10.00	12.6	93.5	70 - 130				
Zinc	1.10	mg/L	E200.7	0.00448	0.0100	1.000	0.0849	102	70 - 130				
<b>Lab Sample ID: 1405563-001EMS</b>													
Date Analyzed: 06/02/2014 1555h													
Test Code: 200.7-DIS													
Date Prepared: 05/29/2014 1215h													
Calcium	513	mg/L	E200.7	0.446	50.0	10.00	491	218	70 - 130				1
Magnesium	221	mg/L	E200.7	1.95	50.0	10.00	209	126	70 - 130				
Sodium	252	mg/L	E200.7	1.34	50.0	10.00	237	147	70 - 130				1
<b>Lab Sample ID: 1405563-001EMS</b>													
Date Analyzed: 06/02/2014 1607h													
Test Code: 200.7-DIS													
Date Prepared: 05/29/2014 1215h													
Vanadium	0.190	mg/L	E200.7	0.000596	0.00500	0.2000	0	95.2	70 - 130				
<b>Lab Sample ID: 1405563-001EMS</b>													
Date Analyzed: 05/30/2014 2356h													
Test Code: 200.8-DIS													
Date Prepared: 05/29/2014 1215h													
Arsenic	0.198	mg/L	E200.8	0.000802	0.00200	0.2000	0	99.0	75 - 125				
Beryllium	0.195	mg/L	E200.8	0.0000950	0.00200	0.2000	0.000118	97.4	75 - 125				
Cadmium	0.184	mg/L	E200.8	0.0000598	0.000500	0.2000	0.000875	91.3	75 - 125				
Chromium	0.185	mg/L	E200.8	0.000608	0.00200	0.2000	0	92.7	75 - 125				
Cobalt	0.220	mg/L	E200.8	0.000124	0.00400	0.2000	0.0361	91.7	75 - 125				
Lead	0.183	mg/L	E200.8	0.000726	0.00200	0.2000	0	91.7	75 - 125				
Molybdenum	0.215	mg/L	E200.8	0.000806	0.00200	0.2000	0.0106	102	75 - 125				
Nickel	0.225	mg/L	E200.8	0.00175	0.00200	0.2000	0.0403	92.2	75 - 125				
Selenium	0.195	mg/L	E200.8	0.000644	0.00200	0.2000	0	97.6	75 - 125				
Silver	0.184	mg/L	E200.8	0.000504	0.00200	0.2000	0	92.0	75 - 125				
Thallium	0.182	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000204	90.8	75 - 125				
Uranium	0.193	mg/L	E200.8	0.0000336	0.00200	0.2000	0.00165	95.7	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405563-001EMS</b>		Date Analyzed:	06/03/2014 348h										
Test Code: 200.8-DIS		Date Prepared:	05/29/2014 1215h										
Copper	0.224	mg/L	E200.8	0.00149	0.00200	0.2000	0.0235	100	75 - 125				
Tin	0.988	mg/L	E200.8	0.000482	0.00200	1.000	0.0022	98.5	75 - 125				
<b>Lab Sample ID: 1405563-001EMS</b>		Date Analyzed:	06/03/2014 315h										
Test Code: 200.8-DIS		Date Prepared:	05/29/2014 1215h										
Iron	5.43	mg/L	E200.8	0.152	0.500	1.000	4.57	86.6	75 - 125				
<b>Lab Sample ID: 1405563-001EMS</b>		Date Analyzed:	06/03/2014 744h										
Test Code: 200.8-DIS		Date Prepared:	05/29/2014 1215h										
Manganese	5.09	mg/L	E200.8	0.00875	0.0100	0.2000	4.95	71.7	75 - 125				
<b>Lab Sample ID: 1405563-001EMS</b>		Date Analyzed:	06/03/2014 926h										
Test Code: Hg-DW-DIS-245.1		Date Prepared:	06/02/2014 1230h										
Mercury	0.00339	mg/L	E245.1	0.00000675	0.000150	0.003330	0	102	85 - 115				
<b>Lab Sample ID: 1405608-001EMS</b>		Date Analyzed:	06/03/2014 931h										
Test Code: Hg-DW-DIS-245.1		Date Prepared:	06/02/2014 1230h										
Mercury	0.00344	mg/L	E245.1	0.00000675	0.000150	0.003330	0	103	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405563-001EMSD</b>													
Date Analyzed:		06/03/2014 928h											
Test Code:		200.7-DIS											
Date Prepared:		05/29/2014 1215h											
Potassium	20.4	mg/L	E200.7	0.0721	1.00	10.00	12.6	77.6	70 - 130	22	7.49	20	
Zinc	1.08	mg/L	E200.7	0.00448	0.0100	1.000	0.0849	99.3	70 - 130	1.1	2.28	20	
<b>Lab Sample ID: 1405563-001EMSD</b>													
Date Analyzed:		06/02/2014 1557h											
Test Code:		200.7-DIS											
Date Prepared:		05/29/2014 1215h											
Calcium	507	mg/L	E200.7	0.446	50.0	10.00	491	162	70 - 130	513	1.09	20	1
Magnesium	220	mg/L	E200.7	1.95	50.0	10.00	209	114	70 - 130	221	0.550	20	
Sodium	250	mg/L	E200.7	1.34	50.0	10.00	237	130	70 - 130	252	0.666	20	2
<b>Lab Sample ID: 1405563-001EMSD</b>													
Date Analyzed:		06/02/2014 1609h											
Test Code:		200.7-DIS											
Date Prepared:		05/29/2014 1215h											
Vanadium	0.190	mg/L	E200.7	0.000596	0.00500	0.2000	0	95.0	70 - 130	0.19	0.204	20	
<b>Lab Sample ID: 1405563-001EMSD</b>													
Date Analyzed:		05/31/2014 001h											
Test Code:		200.8-DIS											
Date Prepared:		05/29/2014 1215h											
Arsenic	0.197	mg/L	E200.8	0.000802	0.00200	0.2000	0	98.3	75 - 125	0.198	0.674	20	
Beryllium	0.196	mg/L	E200.8	0.0000950	0.00200	0.2000	0.000118	98.2	75 - 125	0.195	0.817	20	
Cadmium	0.184	mg/L	E200.8	0.0000598	0.000500	0.2000	0.000875	91.6	75 - 125	0.184	0.351	20	
Chromium	0.188	mg/L	E200.8	0.000608	0.00200	0.2000	0	94.1	75 - 125	0.185	1.55	20	
Cobalt	0.222	mg/L	E200.8	0.000124	0.00400	0.2000	0.0361	93.1	75 - 125	0.22	1.25	20	
Lead	0.182	mg/L	E200.8	0.000726	0.00200	0.2000	0	91.2	75 - 125	0.183	0.522	20	
Molybdenum	0.216	mg/L	E200.8	0.000806	0.00200	0.2000	0.0106	103	75 - 125	0.215	0.0715	20	
Nickel	0.225	mg/L	E200.8	0.00175	0.00200	0.2000	0.0403	92.5	75 - 125	0.225	0.302	20	
Selenium	0.195	mg/L	E200.8	0.000644	0.00200	0.2000	0	97.4	75 - 125	0.195	0.253	20	
Silver	0.185	mg/L	E200.8	0.000504	0.00200	0.2000	0	92.6	75 - 125	0.184	0.675	20	
Thallium	0.180	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000204	90.1	75 - 125	0.182	0.705	20	
Uranium	0.193	mg/L	E200.8	0.0000336	0.00200	0.2000	0.00165	95.9	75 - 125	0.193	0.208	20	



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405563-001EMSD</b>		Date Analyzed:	06/03/2014 354h										
Test Code: 200.8-DIS		Date Prepared:	05/29/2014 1215h										
Copper	0.224	mg/L	E200.8	0.00149	0.00200	0.2000	0.0235	100	75 - 125	0.224	0.187	20	
Tin	0.990	mg/L	E200.8	0.000482	0.00200	1.000	0.0022	98.8	75 - 125	0.988	0.240	20	
<b>Lab Sample ID: 1405563-001EMSD</b>		Date Analyzed:	06/03/2014 321h										
Test Code: 200.8-DIS		Date Prepared:	05/29/2014 1215h										
Iron	5.36	mg/L	E200.8	0.152	0.500	1.000	4.57	78.8	75 - 125	5.43	1.43	20	
<b>Lab Sample ID: 1405563-001EMSD</b>		Date Analyzed:	06/03/2014 750h										
Test Code: 200.8-DIS		Date Prepared:	05/29/2014 1215h										
Manganese	5.11	mg/L	E200.8	0.00875	0.0100	0.2000	4.95	80.5	75 - 125	5.09	0.343	20	2
<b>Lab Sample ID: 1405563-001EMSD</b>		Date Analyzed:	06/03/2014 927h										
Test Code: Hg-DW-DIS-245.1		Date Prepared:	06/02/2014 1230h										
Mercury	0.00346	mg/L	E245.1	0.00000675	0.000150	0.003330	0	104	85 - 115	0.00339	1.87	20	
<b>Lab Sample ID: 1405608-001EMSD</b>		Date Analyzed:	06/03/2014 932h										
Test Code: Hg-DW-DIS-245.1		Date Prepared:	06/02/2014 1230h										
Mercury	0.00337	mg/L	E245.1	0.00000675	0.000150	0.003330	0	101	85 - 115	0.00344	2.11	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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> 1405563-001CDUP		Date Analyzed: 05/28/2014 1300h											
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	3,680	mg/L	SM2540C	4.34	20.0					3530	4.11	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: LCS-R69833</b> Date Analyzed: 06/04/2014 1339h													
Test Code: 300.0-W													
Chloride	4.89	mg/L	E300.0	0.00623	0.100	5.000	0	97.7	90 - 110				
Fluoride	4.77	mg/L	E300.0	0.00510	0.100	5.000	0	95.5	90 - 110				
Sulfate	4.76	mg/L	E300.0	0.0331	0.750	5.000	0	95.1	90 - 110				
<b>Lab Sample ID: LCS-R69505</b> Date Analyzed: 05/29/2014 946h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	51,000	mg/L	SM2320B	0.719	10.0	50,000	0	102	90 - 110				
<b>Lab Sample ID: LCS-32616</b> Date Analyzed: 06/02/2014 1811h													
Test Code: NH3-W-350.1      Date Prepared: 05/30/2014 1100h													
Ammonia (as N)	0.922	mg/L	E350.1	0.0214	0.0500	1.000	0	92.2	90 - 110				
<b>Lab Sample ID: LCS-R69751</b> Date Analyzed: 06/03/2014 2227h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.952	mg/L	E353.2	0.00368	0.100	1.000	0	95.2	90 - 110				
<b>Lab Sample ID: LCS-R69598</b> Date Analyzed: 05/28/2014 1300h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	204	mg/L	SM2540C	2.17	10.0	205.0	0	99.5	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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-R69833</b> Date Analyzed: 06/04/2014 1324h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R69505</b> Date Analyzed: 05/29/2014 946h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
<b>Lab Sample ID: MB-32616</b> Date Analyzed: 06/02/2014 1810h													
Test Code: NH3-W-350.1      Date Prepared: 05/30/2014 1100h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0214	0.0500								
<b>Lab Sample ID: MB-R69751</b> Date Analyzed: 06/03/2014 2226h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00368	0.100								
<b>Lab Sample ID: MB-R69598</b> Date Analyzed: 05/28/2014 1300h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405563-001BMS</b> Date Analyzed: 06/04/2014 1910h													
Test Code: 300.0-W													
Chloride	25,200	mg/L	E300.0	31.2	500	25,000	39.9	100	90 - 110				
Fluoride	24,600	mg/L	E300.0	25.5	500	25,000	0	98.5	90 - 110				
Sulfate	27,500	mg/L	E300.0	166	3,750	25,000	1990	102	90 - 110				
<b>Lab Sample ID: 1405562-007AMS</b> Date Analyzed: 06/04/2014 2306h													
Test Code: 300.0-W													
Chloride	4.90	mg/L	E300.0	0.00623	0.100	5.000	0.0161	97.7	90 - 110				
<b>Lab Sample ID: 1405563-001BMS</b> Date Analyzed: 05/29/2014 946h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	449	mg/L	SM2320B	0.719	10.0	50.00	399	100	80 - 120				
<b>Lab Sample ID: 1405563-001DMS</b> Date Analyzed: 06/02/2014 1819h													
Test Code: NH3-W-350.1 Date Prepared: 05/30/2014 1100h													
Ammonia (as N)	1.30	mg/L	E350.1	0.0214	0.0500	1.000	0.51	78.7	90 - 110				
<b>Lab Sample ID: 1405562-001BMS</b> Date Analyzed: 06/03/2014 2247h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.794	mg/L	E353.2	0.00368	0.100	1.000	0	79.4	90 - 110				
<b>Lab Sample ID: 1405563-001DMS</b> Date Analyzed: 06/03/2014 2253h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.817	mg/L	E353.2	0.00368	0.100	1.000	0	81.7	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405563-001BMSD</b> Date Analyzed: 06/04/2014 1926h													
Test Code: 300.0-W													
Chloride	25,000	mg/L	E300.0	31.2	500	25,000	39.9	99.8	90 - 110	25200	0.691	20	
Fluoride	25,400	mg/L	E300.0	25.5	500	25,000	0	102	90 - 110	24600	3.04	20	
Sulfate	29,200	mg/L	E300.0	166	3,750	25,000	1990	109	90 - 110	27500	5.93	20	
<b>Lab Sample ID: 1405562-007AMSD</b> Date Analyzed: 06/04/2014 2322h													
Test Code: 300.0-W													
Chloride	5.46	mg/L	E300.0	0.00623	0.100	5.000	0.0161	109	90 - 110	4.9	10.9	20	
<b>Lab Sample ID: 1405563-001BMSD</b> Date Analyzed: 05/29/2014 946h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	451	mg/L	SM2320B	0.719	10.0	50.00	399	104	80 - 120	449	0.400	10	
<b>Lab Sample ID: 1405563-001DMSD</b> Date Analyzed: 06/02/2014 1824h													
Test Code: NH3-W-350.1 Date Prepared: 05/30/2014 1100h													
Ammonia (as N)	1.45	mg/L	E350.1	0.0214	0.0500	1.000	0.51	93.8	90 - 110	1.3	11.0	10	@
<b>Lab Sample ID: 1405562-001BMSD</b> Date Analyzed: 06/03/2014 2248h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.842	mg/L	E353.2	0.00368	0.100	1.000	0	84.2	90 - 110	0.794	5.81	10	!
<b>Lab Sample ID: 1405563-001DMSD</b> Date Analyzed: 06/03/2014 2254h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.839	mg/L	E353.2	0.00368	0.100	1.000	0	83.9	90 - 110	0.817	2.63	10	!

@ - 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.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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-C 052814A		<b>Date Analyzed:</b> 05/28/2014 717h											
<b>Test Code:</b> 8260-W													
Benzene	20.5	µg/L	SW8260C	0.0859	2.00	20.00	0	103	62 - 127				
Chloroform	20.9	µg/L	SW8260C	0.626	2.00	20.00	0	105	67 - 132				
Methylene chloride	20.7	µg/L	SW8260C	0.321	2.00	20.00	0	104	32 - 185				
Naphthalene	18.2	µg/L	SW8260C	0.315	2.00	20.00	0	91.1	28 - 136				
Tetrahydrofuran	23.5	µg/L	SW8260C	0.214	2.00	20.00	0	117	43 - 146				
Toluene	19.7	µg/L	SW8260C	0.206	2.00	20.00	0	98.7	64 - 129				
Xylenes, Total	61.8	µg/L	SW8260C	0.333	2.00	60.00	0	103	52 - 134				
Surr: 1,2-Dichloroethane-d4	53.4	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	46.5	µg/L	SW8260C			50.00		92.9	77 - 121				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260C			50.00		100	67 - 128				
Surr: Toluene-d8	47.2	µg/L	SW8260C			50.00		94.3	81 - 135				



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## QC SUMMARY REPORT

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**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** LCSD

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> LCSD VOC-C 052814A		<b>Date Analyzed:</b> 05/28/2014 813h											
<b>Test Code:</b> 8260-W													
Benzene	20.0	µg/L	SW8260C	0.0859	2.00	20.00	0	100	62 - 127	20.5	2.56	25	
Chloroform	20.4	µg/L	SW8260C	0.626	2.00	20.00	0	102	67 - 132	20.9	2.76	25	
Methylene chloride	20.6	µg/L	SW8260C	0.321	2.00	20.00	0	103	32 - 185	20.7	0.580	25	
Naphthalene	18.2	µg/L	SW8260C	0.315	2.00	20.00	0	90.9	28 - 136	18.2	0.220	25	
Tetrahydrofuran	24.2	µg/L	SW8260C	0.214	2.00	20.00	0	121	43 - 146	23.5	3.27	25	
Toluene	19.2	µg/L	SW8260C	0.206	2.00	20.00	0	95.9	64 - 129	19.7	2.93	25	
Xylenes, Total	58.9	µg/L	SW8260C	0.333	2.00	60.00	0	98.1	52 - 134	61.8	4.79	25	
Surr: 1,2-Dichloroethane-d4	53.9	µg/L	SW8260C			50.00		108	76 - 138				
Surr: 4-Bromofluorobenzene	45.3	µg/L	SW8260C			50.00		90.5	77 - 121				
Surr: Dibromofluoromethane	50.2	µg/L	SW8260C			50.00		101	67 - 128				
Surr: Toluene-d8	46.7	µg/L	SW8260C			50.00		93.5	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:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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-C 052814A</b>		Date Analyzed: 05/28/2014 754h											
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	1.01	10.0								
Acetone	< 10.0	µg/L	SW8260C	3.62	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.0859	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.738	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.214	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.315	1.00								
Tetrahydrofuran	4.99	µg/L	SW8260C	0.214	1.00								B
Toluene	< 1.00	µg/L	SW8260C	0.206	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.333	1.00								
Surr: 1,2-Dichloroethane-d4	52.5	µg/L	SW8260C			50.00		105	76 - 138				
Surr: 4-Bromofluorobenzene	48.4	µg/L	SW8260C			50.00		96.8	77 - 121				
Surr: Dibromofluoromethane	49.0	µg/L	SW8260C			50.00		98.0	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.8	81 - 135				

B - This analyte also detected in the method blank. This analyte was either not reported or N.D. in all samples in this batch.



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405494-028CMS</b>		Date Analyzed: 05/28/2014 1059h											
<b>Test Code: 8260-W</b>													
Benzene	1,020	µg/L	SW8260C	4.30	100	1,000	0	102	66 - 145				
Chloroform	3,060	µg/L	SW8260C	31.3	100	1,000	1970	109	50 - 146				
Methylene chloride	1,080	µg/L	SW8260C	16.0	100	1,000	0	108	30 - 192				
Naphthalene	882	µg/L	SW8260C	15.8	100	1,000	0	88.2	41 - 131				
Tetrahydrofuran	1,450	µg/L	SW8260C	10.7	100	1,000	354	109	43 - 146				
Toluene	978	µg/L	SW8260C	10.3	100	1,000	0	97.9	18 - 192				
Xylenes, Total	2,990	µg/L	SW8260C	16.7	100	3,000	0	99.7	42 - 167				
Surr: 1,2-Dichloroethane-d4	2,650	µg/L	SW8260C			2,500		106	72 - 151				
Surr: 4-Bromofluorobenzene	2,280	µg/L	SW8260C			2,500		91.4	80 - 128				
Surr: Dibromofluoromethane	2,500	µg/L	SW8260C			2,500		100	80 - 124				
Surr: Toluene-d8	2,330	µg/L	SW8260C			2,500		93.3	77 - 129				



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405563  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405494-028CMSD</b>		Date Analyzed: 05/28/2014 1118h											
Test Code: 8260-W													
Benzene	1,030	µg/L	SW8260C	4.30	100	1,000	0	103	66 - 145	1020	0.536	25	
Chloroform	3,090	µg/L	SW8260C	31.3	100	1,000	1970	112	50 - 146	3060	0.879	25	
Methylene chloride	1,070	µg/L	SW8260C	16.0	100	1,000	0	107	30 - 192	1080	0.744	25	
Naphthalene	876	µg/L	SW8260C	15.8	100	1,000	0	87.6	41 - 131	882	0.740	25	
Tetrahydrofuran	1,480	µg/L	SW8260C	10.7	100	1,000	354	112	43 - 146	1450	2.26	25	
Toluene	986	µg/L	SW8260C	10.3	100	1,000	0	98.6	18 - 192	979	0.713	25	
Xylenes, Total	3,020	µg/L	SW8260C	16.7	100	3,000	0	101	42 - 167	2990	0.915	25	
Surr: 1,2-Dichloroethane-d4	2,660	µg/L	SW8260C			2,500		106	72 - 151				
Surr: 4-Bromofluorobenzene	2,300	µg/L	SW8260C			2,500		91.9	80 - 128				
Surr: Dibromofluoromethane	2,480	µg/L	SW8260C			2,500		99.3	80 - 124				
Surr: Toluene-d8	2,330	µg/L	SW8260C			2,500		93.0	77 - 129				

# American West Analytical Laboratories

**REVISED:** 7/28/2014

UL  
Denison

Sample ID updated on -001 and the collection dates  
updated on both samples. MH

## WORK ORDER Summary

Work Order: **1405563** Page 1 of 1

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/6/2014

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2014

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume. 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. Run Fe by 200.8 for necessary reporting limits. Sample for metals has been field filtered;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1405563-001A	MW-32_05232014	5/23/2014 1250h	5/28/2014 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1405563-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1405563-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1405563-001D				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>				
1405563-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-mct	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-mct	
				200.8-DIS		<input checked="" type="checkbox"/>	df-mct	
				<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		<input checked="" type="checkbox"/>	df-mct	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-mct	
				<i>1 SEL Analytes: HG</i>				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-mct	
				IONBALANCE		<input checked="" type="checkbox"/>	df-mct	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1405563-002A	Trip Blank	5/23/2014	5/28/2014 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # 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 2014

Dear Garrin Palmer:

Lab Set ID: 1405608

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 7 sample(s) on 5/30/2014 for the analyses presented in the following report.

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.

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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:

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL,  
ou=AWAL-Laboratory Director,  
email=kyle@awal-labs.com, c=US  
Date: 2014.06.10 15:53:01 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1405608  
**Date Received:** 5/30/2014 1010h

**Contact:** Garrin Palmer

463 West 3600 South Salt Lake City, UT 84115	<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date Collected</b>	<b>Matrix</b>	<b>Analysis</b>
	1405608-001A	MW-01_05282014	5/28/2014 935h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1405608-001B	MW-01_05282014	5/28/2014 935h	Aqueous	Anions, E300.0
	1405608-001B	MW-01_05282014	5/28/2014 935h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Phone: (801) 263-8686	1405608-001C	MW-01_05282014	5/28/2014 935h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1405608-001D	MW-01_05282014	5/28/2014 935h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1405608-001D	MW-01_05282014	5/28/2014 935h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1405608-001E	MW-01_05282014	5/28/2014 935h	Aqueous	Ion Balance
	1405608-001E	MW-01_05282014	5/28/2014 935h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1405608-001E	MW-01_05282014	5/28/2014 935h	Aqueous	ICPMS Metals, Dissolved
	1405608-001E	MW-01_05282014	5/28/2014 935h	Aqueous	Mercury, Drinking Water Dissolved
Kyle F. Gross	1405608-002A	MW-02_05282014	5/28/2014 1315h	Aqueous	VOA by GC/MS Method 8260C/5030C
Laboratory Director	1405608-002B	MW-02_05282014	5/28/2014 1315h	Aqueous	Anions, E300.0
	1405608-002B	MW-02_05282014	5/28/2014 1315h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Jose Rocha	1405608-002C	MW-02_05282014	5/28/2014 1315h	Aqueous	Total Dissolved Solids, A2540C
QA Officer	1405608-002D	MW-02_05282014	5/28/2014 1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1405608-002D	MW-02_05282014	5/28/2014 1315h	Aqueous	Ammonia, Aqueous
	1405608-002E	MW-02_05282014	5/28/2014 1315h	Aqueous	ICP Metals, Dissolved
	1405608-002E	MW-02_05282014	5/28/2014 1315h	Aqueous	ICPMS Metals, Dissolved
	1405608-002E	MW-02_05282014	5/28/2014 1315h	Aqueous	Mercury, Drinking Water Dissolved
	1405608-002E	MW-02_05282014	5/28/2014 1315h	Aqueous	Ion Balance
	1405608-003A	MW-18_05272014	5/27/2014 1245h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1405608-003B	MW-18_05272014	5/27/2014 1245h	Aqueous	Anions, E300.0
	1405608-003B	MW-18_05272014	5/27/2014 1245h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
	1405608-003C	MW-18_05272014	5/27/2014 1245h	Aqueous	Total Dissolved Solids, A2540C
	1405608-003D	MW-18_05272014	5/27/2014 1245h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1405608-003D	MW-18_05272014	5/27/2014 1245h	Aqueous	Ammonia, Aqueous
	1405608-003E	MW-18_05272014	5/27/2014 1245h	Aqueous	Mercury, Drinking Water Dissolved
	1405608-003E	MW-18_05272014	5/27/2014 1245h	Aqueous	Ion Balance
	1405608-003E	MW-18_05272014	5/27/2014 1245h	Aqueous	ICP Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1405608  
**Date Received:** 5/30/2014 1010h

**Contact:** Garrin Palmer

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Salt Lake City, UT 84115

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1405608-003E	MW-18_05272014	5/27/2014 1245h	Aqueous	ICPMS Metals, Dissolved
1405608-004A	MW-19_05272014	5/27/2014 1510h	Aqueous	VOA by GC/MS Method 8260C/5030C
1405608-004B	MW-19_05272014	5/27/2014 1510h	Aqueous	Anions, E300.0
1405608-004B	MW-19_05272014	5/27/2014 1510h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1405608-004C	MW-19_05272014	5/27/2014 1510h	Aqueous	Total Dissolved Solids, A2540C
1405608-004D	MW-19_05272014	5/27/2014 1510h	Aqueous	Nitrite/Nitrate (as N), E353.2
1405608-004D	MW-19_05272014	5/27/2014 1510h	Aqueous	Ammonia, Aqueous
1405608-004E	MW-19_05272014	5/27/2014 1510h	Aqueous	Ion Balance
1405608-004E	MW-19_05272014	5/27/2014 1510h	Aqueous	ICP Metals, Dissolved
1405608-004E	MW-19_05272014	5/27/2014 1510h	Aqueous	ICPMS Metals, Dissolved
1405608-004E	MW-19_05272014	5/27/2014 1510h	Aqueous	Mercury, Drinking Water Dissolved
1405608-005A	MW-27_05282014	5/28/2014 1100h	Aqueous	VOA by GC/MS Method 8260C/5030C
1405608-005B	MW-27_05282014	5/28/2014 1100h	Aqueous	Anions, E300.0
1405608-005B	MW-27_05282014	5/28/2014 1100h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1405608-005C	MW-27_05282014	5/28/2014 1100h	Aqueous	Total Dissolved Solids, A2540C
1405608-005D	MW-27_05282014	5/28/2014 1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
1405608-005D	MW-27_05282014	5/28/2014 1100h	Aqueous	Ammonia, Aqueous
1405608-005E	MW-27_05282014	5/28/2014 1100h	Aqueous	Ion Balance
1405608-005E	MW-27_05282014	5/28/2014 1100h	Aqueous	ICP Metals, Dissolved
1405608-005E	MW-27_05282014	5/28/2014 1100h	Aqueous	ICPMS Metals, Dissolved
1405608-005E	MW-27_05282014	5/28/2014 1100h	Aqueous	Mercury, Drinking Water Dissolved
1405608-006A	MW-36_05292014	5/29/2014 740h	Aqueous	VOA by GC/MS Method 8260C/5030C
1405608-006B	MW-36_05292014	5/29/2014 740h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1405608-006B	MW-36_05292014	5/29/2014 740h	Aqueous	Anions, E300.0
1405608-006C	MW-36_05292014	5/29/2014 740h	Aqueous	Total Dissolved Solids, A2540C
1405608-006D	MW-36_05292014	5/29/2014 740h	Aqueous	Ammonia, Aqueous
1405608-006D	MW-36_05292014	5/29/2014 740h	Aqueous	Nitrite/Nitrate (as N), E353.2
1405608-006E	MW-36_05292014	5/29/2014 740h	Aqueous	Ion Balance
1405608-006E	MW-36_05292014	5/29/2014 740h	Aqueous	ICP Metals, Dissolved
1405608-006E	MW-36_05292014	5/29/2014 740h	Aqueous	ICPMS Metals, Dissolved
1405608-006E	MW-36_05292014	5/29/2014 740h	Aqueous	Mercury, Drinking Water Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1405608  
**Date Received:** 5/30/2014 1010h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1405608-007A	Trip Blank	5/27/2014	Aqueous	VOA by GC/MS Method 8260C/5030C

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web: [www.awal-labs.com](http://www.awal-labs.com)

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Inorganic Case Narrative

<b>Client:</b>	Energy Fuels Resources, Inc.
<b>Contact:</b>	Garrin Palmer
<b>Project:</b>	2nd Quarter Groundwater 2014
<b>Lab Set ID:</b>	1405608

### Sample Receipt Information:

<b>Date of Receipt:</b>	5/30/2014
<b>Date(s) of Collection:</b>	5/27-5/29/2014
<b>Sample Condition:</b>	Intact
<b>C-O-C Discrepancies:</b>	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):** Sodium was detected above reporting limits in MB-32619. The method blank result is less than 10% of the lowest reported sample concentration; thus, the method blank is acceptable.

**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
1405608-001B	Sulfate	MSD/RPD	Sample non-homogeneity or matrix interference
1405608-001E	Calcium	MS	High analyte concentration
1405608-001E	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



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1405608

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 5/30/2014  
**Date(s) of Collection:** 5/27-5/29/2014  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None  
**Method:** SW-846 8260C/5030C  
**Analysis:** Volatile Organic Compounds

**General Set Comments:** Tetrahydrofuran was observed above reporting limits on sample 1405608-01A.

**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:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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-32619</b>													
Date Analyzed:		06/04/2014 1454h											
Test Code:		200.7-DIS											
Date Prepared:		05/30/2014 1310h											
Calcium	9.58	mg/L	E200.7	0.00892	1.00	10.00	0	95.8	85 - 115				
Magnesium	9.71	mg/L	E200.7	0.0389	1.00	10.00	0	97.1	85 - 115				
Potassium	9.41	mg/L	E200.7	0.0721	1.00	10.00	0	94.1	85 - 115				
Sodium	9.65	mg/L	E200.7	0.0269	1.00	10.00	0	96.5	85 - 115				
Vanadium	0.193	mg/L	E200.7	0.000596	0.00500	0.2000	0	96.3	85 - 115				
Zinc	0.982	mg/L	E200.7	0.00448	0.0100	1.000	0	98.2	85 - 115				
<b>Lab Sample ID: LCS-32621</b>													
Date Analyzed:		06/03/2014 1811h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Arsenic	0.200	mg/L	E200.8	0.000802	0.00200	0.2000	0	100	85 - 115				
Beryllium	0.202	mg/L	E200.8	0.0000950	0.00200	0.2000	0	101	85 - 115				
Cadmium	0.190	mg/L	E200.8	0.0000598	0.000500	0.2000	0	95.2	85 - 115				
Chromium	0.195	mg/L	E200.8	0.000608	0.00200	0.2000	0	97.3	85 - 115				
Cobalt	0.192	mg/L	E200.8	0.000124	0.00400	0.2000	0	96.2	85 - 115				
Copper	0.194	mg/L	E200.8	0.00149	0.00200	0.2000	0	97.1	85 - 115				
Lead	0.193	mg/L	E200.8	0.000726	0.00200	0.2000	0	96.6	85 - 115				
Manganese	0.196	mg/L	E200.8	0.00175	0.00200	0.2000	0	98.0	85 - 115				
Molybdenum	0.196	mg/L	E200.8	0.000806	0.00200	0.2000	0	97.8	85 - 115				
Nickel	0.193	mg/L	E200.8	0.00175	0.00200	0.2000	0	96.7	85 - 115				
Selenium	0.193	mg/L	E200.8	0.000644	0.00200	0.2000	0	96.6	85 - 115				
Silver	0.193	mg/L	E200.8	0.000504	0.00200	0.2000	0	96.4	85 - 115				
Uranium	0.198	mg/L	E200.8	0.0000336	0.00200	0.2000	0	98.8	85 - 115				
<b>Lab Sample ID: LCS-32621</b>													
Date Analyzed:		06/04/2014 1836h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Tin	0.989	mg/L	E200.8	0.000482	0.00200	1.000	0	98.9	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1405608

**Project:** 2nd Quarter Groundwater 2014

**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-32621		Date Analyzed:		06/06/2014 147h									
Test Code:		Date Prepared:		200.8-DIS 05/30/2014 1310h									
Iron	1.01	mg/L	E200.8	0.0304	0.100	1.000	0	101	85 - 115				
Thallium	0.192	mg/L	E200.8	0.0000788	0.00200	0.2000	0	96.1	85 - 115				
<b>Lab Sample ID:</b> LCS-32665		Date Analyzed:		06/03/2014 919h									
Test Code:		Date Prepared:		Hg-DW-DIS-245.1 06/02/2014 1230h									
Mercury	0.00333	mg/L	E245.1	0.00000675	0.000150	0.003330	0	100	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1405608

**Project:** 2nd Quarter Groundwater 2014

**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-32619</b>													
Date Analyzed:		06/04/2014 1452h											
Test Code:		200.7-DIS											
Date Prepared:		05/30/2014 1310h											
Calcium	< 1.00	mg/L	E200.7	0.00892	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0389	1.00								
Potassium	< 1.00	mg/L	E200.7	0.0721	1.00								
Sodium	3.70	mg/L	E200.7	0.0269	1.00								B
Vanadium	< 0.00500	mg/L	E200.7	0.000596	0.00500								
Zinc	< 0.0100	mg/L	E200.7	0.00448	0.0100								
<b>Lab Sample ID: MB-32621</b>													
Date Analyzed:		06/03/2014 1805h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Arsenic	< 0.00200	mg/L	E200.8	0.000802	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000598	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000608	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000124	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.00149	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000806	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000644	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000504	0.00200								
<b>Lab Sample ID: MB-32621</b>													
Date Analyzed:		06/03/2014 1945h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Beryllium	< 0.000500	mg/L	E200.8	0.0000238	0.000500								
Lead	< 0.000500	mg/L	E200.8	0.000182	0.000500								
<b>Lab Sample ID: MB-32621</b>													
Date Analyzed:		06/04/2014 1830h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Tin	< 0.00200	mg/L	E200.8	0.000482	0.00200								



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Jose Rocha  
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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1405608

**Project:** 2nd Quarter Groundwater 2014

**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-32621	Date Analyzed:	06/04/2014	2046h										
Test Code:	200.8-DIS	Date Prepared:	05/30/2014	1310h									
Iron	< 0.0250	mg/L	E200.8	0.00760	0.0250								
Thallium	< 0.000500	mg/L	E200.8	0.0000197	0.000500								
<b>Lab Sample ID:</b> MB-32621	Date Analyzed:	06/04/2014	2141h										
Test Code:	200.8-DIS	Date Prepared:	05/30/2014	1310h									
Uranium	< 0.000200	mg/L	E200.8	0.00000336	0.000200								
<b>Lab Sample ID:</b> MB-32665	Date Analyzed:	06/03/2014	918h										
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	06/02/2014	1230h									
Mercury	< 0.000150	mg/L	E245.1	0.00000675	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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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405608-001EMS</b>													
Date Analyzed:		06/04/2014 1411h											
Test Code:		200.7-DIS											
Date Prepared:		05/30/2014 1310h											
Potassium	14.5	mg/L	E200.7	0.0721	1.00	10.00	5.9	86.3	70 - 130				
Vanadium	0.171	mg/L	E200.7	0.000596	0.00500	0.2000	0	85.4	70 - 130				
Zinc	0.918	mg/L	E200.7	0.00448	0.0100	1.000	0.00778	91.0	70 - 130				
<b>Lab Sample ID: 1405608-001EMS</b>													
Date Analyzed:		06/04/2014 1509h											
Test Code:		200.7-DIS											
Date Prepared:		05/30/2014 1310h											
Calcium	184	mg/L	E200.7	0.446	50.0	10.00	179	50.2	70 - 130				2
Magnesium	77.9	mg/L	E200.7	1.95	50.0	10.00	67.6	103	70 - 130				
Sodium	168	mg/L	E200.7	1.34	50.0	10.00	163	51.4	70 - 130				2
<b>Lab Sample ID: 1405608-001EMS</b>													
Date Analyzed:		06/03/2014 1832h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Arsenic	0.193	mg/L	E200.8	0.000802	0.00200	0.2000	0	96.6	75 - 125				
Beryllium	0.203	mg/L	E200.8	0.0000950	0.00200	0.2000	0	101	75 - 125				
Cadmium	0.192	mg/L	E200.8	0.0000598	0.000500	0.2000	0.00029	95.9	75 - 125				
Chromium	0.184	mg/L	E200.8	0.000608	0.00200	0.2000	0	91.8	75 - 125				
Cobalt	0.183	mg/L	E200.8	0.000124	0.00400	0.2000	0.000276	91.5	75 - 125				
Copper	0.184	mg/L	E200.8	0.00149	0.00200	0.2000	0	91.9	75 - 125				
Lead	0.192	mg/L	E200.8	0.000726	0.00200	0.2000	0	96.1	75 - 125				
Manganese	0.267	mg/L	E200.8	0.00175	0.00200	0.2000	0.0823	92.4	75 - 125				
Molybdenum	0.205	mg/L	E200.8	0.000806	0.00200	0.2000	0.00166	102	75 - 125				
Nickel	0.183	mg/L	E200.8	0.00175	0.00200	0.2000	0.00197	90.7	75 - 125				
Selenium	0.193	mg/L	E200.8	0.000644	0.00200	0.2000	0	96.6	75 - 125				
Silver	0.189	mg/L	E200.8	0.000504	0.00200	0.2000	0	94.5	75 - 125				
Uranium	0.198	mg/L	E200.8	0.0000336	0.00200	0.2000	0.000362	98.9	75 - 125				
<b>Lab Sample ID: 1405608-001EMS</b>													
Date Analyzed:		06/04/2014 1931h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Tin	1.02	mg/L	E200.8	0.000482	0.00200	1.000	0.00345	102	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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> 1405608-001EMS		Date Analyzed:		06/06/2014 153h									
Test Code:		Date Prepared:		200.8-DIS 05/30/2014 1310h									
Iron	1.17	mg/L	E200.8	0.0304	0.100	1.000	0.184	98.6	75 - 125				
Thallium	0.185	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000563	92.0	75 - 125				
<b>Lab Sample ID:</b> 1405563-001EMS		Date Analyzed:		06/03/2014 926h									
Test Code:		Date Prepared:		Hg-DW-DIS-245.1 06/02/2014 1230h									
Mercury	0.00339	mg/L	E245.1	0.00000675	0.000150	0.003330	0	102	85 - 115				
<b>Lab Sample ID:</b> 1405608-001EMS		Date Analyzed:		06/03/2014 931h									
Test Code:		Date Prepared:		Hg-DW-DIS-245.1 06/02/2014 1230h									
Mercury	0.00344	mg/L	E245.1	0.00000675	0.000150	0.003330	0	103	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:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405608-001EMSD</b>													
Date Analyzed:		06/04/2014 1415h											
Test Code:		200.7-DIS											
Date Prepared:		05/30/2014 1310h											
Potassium	14.3	mg/L	E200.7	0.0721	1.00	10.00	5.9	84.4	70 - 130	14.5	1.30	20	
Vanadium	0.178	mg/L	E200.7	0.000596	0.00500	0.2000	0	88.9	70 - 130	0.171	4.01	20	
Zinc	0.955	mg/L	E200.7	0.00448	0.0100	1.000	0.00778	94.7	70 - 130	0.918	3.89	20	
<b>Lab Sample ID: 1405608-001EMSD</b>													
Date Analyzed:		06/04/2014 1511h											
Test Code:		200.7-DIS											
Date Prepared:		05/30/2014 1310h											
Calcium	186	mg/L	E200.7	0.446	50.0	10.00	179	76.1	70 - 130	184	1.40	20	
Magnesium	79.1	mg/L	E200.7	1.95	50.0	10.00	67.6	115	70 - 130	77.9	1.52	20	
Sodium	171	mg/L	E200.7	1.34	50.0	10.00	163	82.2	70 - 130	168	1.82	20	
<b>Lab Sample ID: 1405608-001EMSD</b>													
Date Analyzed:		06/03/2014 1838h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Arsenic	0.204	mg/L	E200.8	0.000802	0.00200	0.2000	0	102	75 - 125	0.193	5.21	20	
Beryllium	0.204	mg/L	E200.8	0.0000950	0.00200	0.2000	0	102	75 - 125	0.203	0.756	20	
Cadmium	0.192	mg/L	E200.8	0.0000598	0.000500	0.2000	0.00029	96.0	75 - 125	0.192	0.163	20	
Chromium	0.194	mg/L	E200.8	0.000608	0.00200	0.2000	0	96.9	75 - 125	0.184	5.39	20	
Cobalt	0.191	mg/L	E200.8	0.000124	0.00400	0.2000	0.000276	95.6	75 - 125	0.183	4.40	20	
Copper	0.193	mg/L	E200.8	0.00149	0.00200	0.2000	0	96.7	75 - 125	0.184	5.10	20	
Lead	0.194	mg/L	E200.8	0.000726	0.00200	0.2000	0	97.2	75 - 125	0.192	1.13	20	
Manganese	0.274	mg/L	E200.8	0.00175	0.00200	0.2000	0.0823	95.7	75 - 125	0.267	2.41	20	
Molybdenum	0.208	mg/L	E200.8	0.000806	0.00200	0.2000	0.00166	103	75 - 125	0.205	1.37	20	
Nickel	0.189	mg/L	E200.8	0.00175	0.00200	0.2000	0.00197	93.3	75 - 125	0.183	2.80	20	
Selenium	0.196	mg/L	E200.8	0.000644	0.00200	0.2000	0	98.1	75 - 125	0.193	1.62	20	
Silver	0.190	mg/L	E200.8	0.000504	0.00200	0.2000	0	95.1	75 - 125	0.189	0.626	20	
Uranium	0.202	mg/L	E200.8	0.0000336	0.00200	0.2000	0.000362	101	75 - 125	0.198	1.78	20	
<b>Lab Sample ID: 1405608-001EMSD</b>													
Date Analyzed:		06/04/2014 1937h											
Test Code:		200.8-DIS											
Date Prepared:		05/30/2014 1310h											
Tin	1.01	mg/L	E200.8	0.000482	0.00200	1.000	0.00345	100	75 - 125	1.02	1.50	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1405608

**Project:** 2nd Quarter Groundwater 2014

**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: 1405608-001EMSD</b>		Date Analyzed:	06/06/2014 158h										
Test Code: 200.8-DIS		Date Prepared:	05/30/2014 1310h										
Iron	1.19	mg/L	E200.8	0.0304	0.100	1.000	0.184	100	75 - 125	1.17	1.39	20	
Thallium	0.186	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000563	92.7	75 - 125	0.185	0.821	20	
<b>Lab Sample ID: 1405563-001EMSD</b>		Date Analyzed:	06/03/2014 927h										
Test Code: Hg-DW-DIS-245.1		Date Prepared:	06/02/2014 1230h										
Mercury	0.00346	mg/L	E245.1	0.00000675	0.000150	0.003330	0	104	85 - 115	0.00339	1.87	20	
<b>Lab Sample ID: 1405608-001EMSD</b>		Date Analyzed:	06/03/2014 932h										
Test Code: Hg-DW-DIS-245.1		Date Prepared:	06/02/2014 1230h										
Mercury	0.00337	mg/L	E245.1	0.00000675	0.000150	0.003330	0	101	85 - 115	0.00344	2.11	20	



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 QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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> 1405608-001CDUP	Date Analyzed: 05/30/2014 1325h												
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,390	mg/L	SM2540C	4.34	20.0					1460	4.49	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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: LCS-R69952</b> Date Analyzed: 06/06/2014 1544h													
Test Code: 300.0-W													
Chloride	5.16	mg/L	E300.0	0.00623	0.100	5.000	0	103	90 - 110				
Sulfate	4.97	mg/L	E300.0	0.0331	0.750	5.000	0	99.3	90 - 110				
<b>Lab Sample ID: LCS-R70016</b> Date Analyzed: 06/09/2014 1730h													
Test Code: 300.0-W													
Chloride	4.72	mg/L	E300.0	0.00623	0.100	5.000	0	94.4	90 - 110				
Fluoride	4.79	mg/L	E300.0	0.00510	0.100	5.000	0	95.7	90 - 110				
Sulfate	4.63	mg/L	E300.0	0.0331	0.750	5.000	0	92.7	90 - 110				
<b>Lab Sample ID: LCS-R69713</b> Date Analyzed: 06/03/2014 1004h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.719	10.0	50,000	0	100	90 - 110				
<b>Lab Sample ID: LCS-32694</b> Date Analyzed: 06/04/2014 1429h													
Test Code: NH3-W-350.1      Date Prepared: 06/03/2014 1100h													
Ammonia (as N)	0.984	mg/L	E350.1	0.0214	0.0500	1.000	0	98.4	90 - 110				
<b>Lab Sample ID: LCS-R69872</b> Date Analyzed: 06/05/2014 1755h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.969	mg/L	E353.2	0.00368	0.100	1.000	0	96.9	90 - 110				
<b>Lab Sample ID: LCS-R69668</b> Date Analyzed: 05/30/2014 1325h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	190	mg/L	SM2540C	2.17	10.0	205.0	0	92.7	80 - 120				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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-R69952</b> Date Analyzed: 06/06/2014 1528h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R70016</b> Date Analyzed: 06/09/2014 1714h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R69713</b> Date Analyzed: 06/03/2014 1004h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
<b>Lab Sample ID: MB-32694</b> Date Analyzed: 06/04/2014 1428h													
Test Code: NH3-W-350.1      Date Prepared: 06/03/2014 1100h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0214	0.0500								
<b>Lab Sample ID: MB-R69872</b> Date Analyzed: 06/05/2014 1753h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00368	0.100								
<b>Lab Sample ID: MB-R69668</b> Date Analyzed: 05/30/2014 1325h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405608-001BMS</b> Date Analyzed: 06/06/2014 1652h													
Test Code: 300.0-W													
Chloride	4,880	mg/L	E300.0	6.23	100	5,000	20.4	97.1	90 - 110				
Sulfate	5,430	mg/L	E300.0	33.1	750	5,000	601	96.5	90 - 110				
<b>Lab Sample ID: 1405608-006BMS</b> Date Analyzed: 06/09/2014 1952h													
Test Code: 300.0-W													
Chloride	23,700	mg/L	E300.0	31.2	500	25,000	81.2	94.5	90 - 110				
Fluoride	23,700	mg/L	E300.0	25.5	500	25,000	35.9	94.6	90 - 110				
Sulfate	26,900	mg/L	E300.0	166	3,750	25,000	2890	96.0	90 - 110				
<b>Lab Sample ID: 1405608-001BMS</b> Date Analyzed: 06/03/2014 1004h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	291	mg/L	SM2320B	0.719	10.0	50.00	243	96.8	80 - 120				
<b>Lab Sample ID: 1405608-001DMS</b> Date Analyzed: 06/04/2014 1436h													
Test Code: NH3-W-350.1      Date Prepared: 06/03/2014 1100h													
Ammonia (as N)	0.994	mg/L	E350.1	0.0214	0.0500	1.000	0.0611	93.2	90 - 110				
<b>Lab Sample ID: 1405608-006DMS</b> Date Analyzed: 06/05/2014 1815h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00368	0.100	1.000	0.179	90.4	90 - 110				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405608-001BMSD</b> Date Analyzed: 06/06/2014 1708h													
Test Code: 300.0-W													
Chloride	5,440	mg/L	E300.0	6.23	100	5,000	20.4	108	90 - 110	4880	11.0	20	
Sulfate	6,660	mg/L	E300.0	33.1	750	5,000	601	121	90 - 110	5430	20.4	20	'@
<b>Lab Sample ID: 1405608-006BMSD</b> Date Analyzed: 06/09/2014 2007h													
Test Code: 300.0-W													
Chloride	25,800	mg/L	E300.0	31.2	500	25,000	81.2	103	90 - 110	23700	8.41	20	
Fluoride	25,800	mg/L	E300.0	25.5	500	25,000	35.9	103	90 - 110	23700	8.60	20	
Sulfate	28,900	mg/L	E300.0	166	3,750	25,000	2890	104	90 - 110	26900	7.13	20	
<b>Lab Sample ID: 1405608-001BMSD</b> Date Analyzed: 06/03/2014 1004h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	292	mg/L	SM2320B	0.719	10.0	50.00	243	98.6	80 - 120	291	0.309	10	
<b>Lab Sample ID: 1405608-001DMSD</b> Date Analyzed: 06/04/2014 1437h													
Test Code: NH3-W-350.1 Date Prepared: 06/03/2014 1100h													
Ammonia (as N)	0.976	mg/L	E350.1	0.0214	0.0500	1.000	0.0611	91.5	90 - 110	0.994	1.73	10	
<b>Lab Sample ID: 1405608-006DMSD</b> Date Analyzed: 06/05/2014 1817h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.11	mg/L	E353.2	0.00368	0.100	1.000	0.179	93.0	90 - 110	1.08	2.42	10	

@ - 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.



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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-C 053014A		<b>Date Analyzed:</b> 05/30/2014 803h											
<b>Test Code:</b> 8260-W													
Benzene	20.0	µg/L	SW8260C	0.0859	2.00	20.00	0	100	62 - 127				
Chloroform	20.2	µg/L	SW8260C	0.626	2.00	20.00	0	101	67 - 132				
Methylene chloride	19.9	µg/L	SW8260C	0.321	2.00	20.00	0	99.4	32 - 185				
Naphthalene	17.7	µg/L	SW8260C	0.315	2.00	20.00	0	88.7	28 - 136				
Tetrahydrofuran	17.6	µg/L	SW8260C	0.214	2.00	20.00	0	87.9	43 - 146				
Toluene	19.5	µg/L	SW8260C	0.206	2.00	20.00	0	97.6	64 - 129				
Xylenes, Total	60.7	µg/L	SW8260C	0.333	2.00	60.00	0	101	52 - 134				
Surr: 1,2-Dichloroethane-d4	52.2	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	48.6	µg/L	SW8260C			50.00		97.2	77 - 121				
Surr: Dibromofluoromethane	50.3	µg/L	SW8260C			50.00		101	67 - 128				
Surr: Toluene-d8	48.3	µg/L	SW8260C			50.00		96.7	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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-C 053014A</b>		<b>Date Analyzed: 05/30/2014 840h</b>											
<b>Test Code: 8260-W</b>													
2-Butanone	< 10.0	µg/L	SW8260C	1.01	10.0								
Acetone	< 10.0	µg/L	SW8260C	3.62	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.0859	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.738	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.214	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.315	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.214	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.206	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.333	1.00								
Surr: 1,2-Dichloroethane-d4	51.6	µg/L	SW8260C			50.00		103	76 - 138				
Surr: 4-Bromofluorobenzene	50.2	µg/L	SW8260C			50.00		100	77 - 121				
Surr: Dibromofluoromethane	48.0	µg/L	SW8260C			50.00		96.1	67 - 128				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.3	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405608-001AMS</b>		<b>Date Analyzed: 05/30/2014 1615h</b>											
<b>Test Code: 8260-W</b>													
Benzene	20.3	µg/L	SW8260C	0.0859	2.00	20.00	0	101	66 - 145				
Chloroform	20.5	µg/L	SW8260C	0.626	2.00	20.00	0	103	50 - 146				
Methylene chloride	20.4	µg/L	SW8260C	0.321	2.00	20.00	0	102	30 - 192				
Naphthalene	17.3	µg/L	SW8260C	0.315	2.00	20.00	0	86.6	41 - 131				
Tetrahydrofuran	30.6	µg/L	SW8260C	0.214	2.00	20.00	3.39	136	43 - 146				
Toluene	19.2	µg/L	SW8260C	0.206	2.00	20.00	0	95.9	18 - 192				
Xylenes, Total	58.1	µg/L	SW8260C	0.333	2.00	60.00	0	96.9	42 - 167				
Surr: 1,2-Dichloroethane-d4	53.1	µg/L	SW8260C			50.00		106	72 - 151				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.8	80 - 128				
Surr: Dibromofluoromethane	50.3	µg/L	SW8260C			50.00		101	80 - 124				
Surr: Toluene-d8	46.8	µg/L	SW8260C			50.00		93.7	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405608  
**Project:** 2nd Quarter Groundwater 2014

**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: 1405608-001AMSD</b>		Date Analyzed: 05/30/2014 1633h											
Test Code: 8260-W													
Benzene	20.8	µg/L	SW8260C	0.0859	2.00	20.00	0	104	66 - 145	20.3	2.34	25	
Chloroform	21.0	µg/L	SW8260C	0.626	2.00	20.00	0	105	50 - 146	20.5	2.12	25	
Methylene chloride	21.5	µg/L	SW8260C	0.321	2.00	20.00	0	108	30 - 192	20.4	5.10	25	
Naphthalene	17.7	µg/L	SW8260C	0.315	2.00	20.00	0	88.3	41 - 131	17.3	2.00	25	
Tetrahydrofuran	31.0	µg/L	SW8260C	0.214	2.00	20.00	3.39	138	43 - 146	30.6	1.14	25	
Toluene	19.2	µg/L	SW8260C	0.206	2.00	20.00	0	96.0	18 - 192	19.2	0.156	25	
Xylenes, Total	58.2	µg/L	SW8260C	0.333	2.00	60.00	0	97.0	42 - 167	58.1	0.172	25	
Surr: 1,2-Dichloroethane-d4	54.0	µg/L	SW8260C			50.00		108	72 - 151				
Surr: 4-Bromofluorobenzene	47.3	µg/L	SW8260C			50.00		94.6	80 - 128				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260C			50.00		101	80 - 124				
Surr: Toluene-d8	46.4	µg/L	SW8260C			50.00		92.7	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1405608**

Page 1 of 5

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/10/14

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2014

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume. 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. Samples for dissolved metals have been field filtered. Email Group;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1405608-001A	MW-01_05282014	5/28/2014 0935h	5/30/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1405608-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1405608-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1405608-001D				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>				
1405608-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>				
1405608-002A	MW-02_05282014	5/28/2014 1315h	5/30/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1405608-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				

# WORK ORDER Summary

Work Order: **1405608** Page 2 of 5

Client: Energy Fuels Resources, Inc.

Due Date: 6/10/14

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1405608-002C	MW-02_05282014	5/28/2014 1315h	5/30/2014 1010h	TDS-W-2540C <i>1 SEL Analytes: TDS</i>	Aqueous	<input checked="" type="checkbox"/>	ww - tds	1
1405608-002D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1405608-002E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	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>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1405608-003A	MW-18_05272014	5/27/2014 1245h	5/30/2014 1010h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1405608-003B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1405608-003C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1405608-003D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1405608-003E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	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>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	

# WORK ORDER Summary

Work Order: **1405608** Page 3 of 5

Client: Energy Fuels Resources, Inc.

Due Date: 6/10/14

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1405608-003E	MW-18_05272014	5/27/2014 1245h	5/30/2014 1010h	HG-DW-DIS-PR	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1405608-004A	MW-19_05272014	5/27/2014 1510h	5/30/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1405608-004B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				2 SEL Analytes: ALKB ALKC				
1405608-004C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				1 SEL Analytes: TDS				
1405608-004D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1405608-004E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				6 SEL Analytes: CA MG K NA V ZN				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1405608-005A	MW-27_05282014	5/28/2014 1100h	5/30/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1405608-005B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				2 SEL Analytes: ALKB ALKC				
1405608-005C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				1 SEL Analytes: TDS				
1405608-005D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	

# WORK ORDER Summary

Work Order: **1405608** Page 4 of 5

Client: Energy Fuels Resources, Inc.

Due Date: 6/10/14

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1405608-005D	MW-27_05282014	5/28/2014 1100h	5/30/2014 1010h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	1
				<i>1 SEL Analytes: NO3NO2N</i>				
1405608-005E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>				
1405608-006A	MW-36_05292014	5/29/2014 0740h	5/30/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1405608-006B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1405608-006C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1405608-006D				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>				
1405608-006E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>				

# WORK ORDER Summary

Work Order: **1405608** Page 5 of 5

Client: Energy Fuels Resources, Inc.

Due Date: 6/10/14

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1405608-007A	Trip Blank	5/27/2014	5/30/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge

*Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4*

### AWAL Use Only: Close Hold Times

Test Code	# Samps	Min. days left
TDS-W-2540C	4	1.04



# 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.

1405608  
 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 2014**  
 PROJECT #:  
 PO #:  
 SAMPLER NAME: **Tanner Holliday, 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.											
3		STANDARD													
# OF CONTAINERS	SAMPLE MATRIX	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F1, 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)	<input checked="" type="checkbox"/> INCLUDE EDD: LOCUS UPLOAD EXCEL <input checked="" type="checkbox"/> FIELD FILTERED FOR: Dissolved Metals  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				
												1	MW-01_05282014	5/28/2014	935
2	MW-02_05282014	5/28/2014	1315	7	W	X	X	X	X	X	X	X	X	X	
3	MW-18_05272014	5/27/2014	1245	7	W	X	X	X	X	X	X	X	X	X	
4	MW-19_05272014	5/27/2014	1510	7	W	X	X	X	X	X	X	X	X	X	
5	MW-27_05282014	5/28/2014	1100	7	W	X	X	X	X	X	X	X	X	X	
6	MW-36_05292014	5/29/2014	740	7	W	X	X	X	X	X	X	X	X	X	
7	TRIP BLANK	5/27/2014		3	W									X	
8	TEMP BLANK	5/29/2014		1	W										
9															
10															
11															
12															

**DUE DATE:**

**LABORATORY USE ONLY**

SAMPLES WERE:

- 1 SHIPPED OR HAND DELIVERED  YES  NO
- 2 AMBIENT OR CHILLED  YES  NO
- 3 TEMPERATURE 16 °C
- 4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)  YES  NO
- 5 PROPERLY PRESERVED  YES  NO  
 CHECKED AT BENCH  YES  NO
- 6 RECEIVED WITHIN HOLDING TIME  YES  NO

**COC TAPES WERE:**

- 1 PRESENT ON OUTER PACKAGE  YES  NO
- 2 UNBROKEN ON OUTER PACKAGE  YES  NO
- 3 PRESENT ON SAMPLE  YES  NO
- 4 UNBROKEN ON SAMPLE  YES  NO

**DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD?**  
 YES  NO

RELINQUISHED BY: SIGNATURE <i>Tanner Holliday</i>	DATE: 5/29/2014	RECEIVED BY: SIGNATURE <i>Amber Cliff</i>	DATE: 5/30/14
PRINT NAME: Tanner Holliday	TIME: 1000	PRINT NAME: Amber Cliff	TIME: 10:10
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:

**SPECIAL INSTRUCTIONS:**

Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Table 1 AWAL – Quarterly Sampling Programs

Groundwater						
Analyte/ Group	Matrix	Approximate Number of Samples per Quarter*				Approximate Number of Samples Annually
		Q1	Q2	Q3	Q4	
Nitrate	Groundwater	18	37	18	37	110
Ammonia	Groundwater	11	29	11	29	80
VOCs	Groundwater	16	32	16	32	96
Fluoride	Groundwater	12	29	12	29	82
TDS	Groundwater	15	30	15	30	90
Chloride	Groundwater	14	37	14	37	102
Sulfate	Groundwater	15	31	15	31	92
Carb/Bicarb	Groundwater	11	29	11	29	80
Chloroform						
Chloride	Groundwater	32				128
Nitrate	Groundwater	32				128
VOCs	Groundwater	35				140
Nitrate						
Chloride	Groundwater	24				96
Nitrate	Groundwater	24				96

\* Sample numbers are approximate and may change slightly based on the number of wells and specific constituents in accelerated monitoring.

Table 2 AWAL – Annual Sampling Programs

Tailings		
Analyte Group	Matrix	Approximate Number of Samples Annually
Nitrate	Tailings Wastewater	8
Ammonia	Tailings Wastewater	8
VOCs	Tailings Wastewater	9
Fluoride	Tailings Wastewater	8
TDS	Tailings Wastewater	8
Chloride	Tailings Wastewater	8
Sulfate	Tailings Wastewater	8
Carb/Bicarb	Tailings Wastewater	8
SVOCs	Tailings Wastewater	8
Seeps and Springs		
Nitrate	Surface Water	4 – 6*
Ammonia	Surface Water	4 – 6*
VOCs	Surface Water	4 – 6*
Fluoride	Surface Water	4 – 6*
TDS	Surface Water	4 – 6*
Chloride	Surface Water	4 – 6*
Sulfate	Surface Water	4 – 6*
Carb/Bicarb	Surface Water	4 – 6*

\* Number of samples depends on the number of flowing surface water bodies.

Table 3 – AWAL Analyte List, Reporting Limits and Analytical Method Requirements

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Nutrients</b>					
Ammonia (as N)	A4500-NH <sub>3</sub> G or E350.1	0.05 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
<b>Volatile Organic Compounds – Groundwater, Seeps and Springs and Tailings Impoundment</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 or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
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>					
Fluoride	A4500-F C or E300.0	0.1 mg/L	28 days	None	≤ 6°C
TDS	A2540 C	10 mg/L	7 days	None	≤ 6°C

AWAL - Analytical Scope of Work  
 White Mesa Mill Blanding Utah  
 Page 11 of 13

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>General Inorganics</b>					
Chloride	A4500-Cl B or A4500-Cl E or E300.0	1 mg/L	28 days	None	≤ 6°C
Sulfate	A4500-SO4 E or E300.0	1 mg/L	28 days	None	≤ 6°C
Carbonate as CO3	A2320 B	1 mg/L	14 days	None	≤ 6°C
Bicarbonate as HCO3	A2320 B	1 mg/L	14 days	None	
<b>Volatile Organic Compounds – Chloroform Program</b>					
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
Dichloromethane (Methylene Chloride)	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
<b>SVOCs – Tailings Impoundment Samples Only</b>					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
4-Bromophenylphenyl ether	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4-Chloro-3-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4-Chlorophenyl phenyl ether	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Acenaphthene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Acenaphthylene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Anthracene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Azobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Benz(a)anthracene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Benzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Benzo(a)pyrene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Benzo(b)fluoranthene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Benzo(g,h,i)perylene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Benzo(k)fluoranthene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Bis(2-hloroethoxy)methane	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Bis(2-chloroethyl) ether	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Bis(2-chloroisopropyl) ether	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Bis(2-ethylhexyl) phthalate	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Butyl benzyl phthalate	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Chrysene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Dibenz(a,h)anthracene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Diethyl phthalate	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Dimethyl phthalate	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Di-n-butyl phthalate	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Di-n-octyl phthalate	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Fluoranthene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Fluorene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Hexachlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Hexachlorobutadiene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Hexachlorocyclopentadiene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Hexachloroethane	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Indeno(1,2,3-cd)pyrene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Isophorone	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Naphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Nitrobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
N-Nitrosodimethylamine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
N-Nitrosodi-n-propylamine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
N-Nitrosodiphenylamine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Pentachlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Phenanthrene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Phenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
Pyrene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Library Search for 4-Chlorophenol added 9/4/13 per Kathy Weinel -RW

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
Pyridine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Holding time for SVOCs is 7 days to extraction and 40 days for analysis of the extract.

Table 4 Fee Schedule

Analyte/ Group	Cost per Sample
Nitrate	
Ammonia	
VOCs (GW program)	
VOCs (Chloroform Program)	
Fluoride	
TDS	
Chloride	
Sulfate	
Carb/Bicarb	
SVOCs	

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006												
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
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	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	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 2014

Dear Garrin Palmer:

Lab Set ID: 1406025

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 6 sample(s) on 6/3/2014 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, 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:

**Jose G.  
Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou=Quality  
Assurance Officer,  
email=jose@awal-labs.com,  
c=US  
Date: 2014.06.12 17:03:39  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406025  
**Date Received:** 6/3/2014 940h

**Contact:** Garrin Palmer

463 West 3600 South Salt Lake City, UT 84115	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
	1406025-001A	MW-03A_05302014	5/30/2014 740h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406025-001B	MW-03A_05302014	5/30/2014 740h	Aqueous	Anions, E300.0
	1406025-001B	MW-03A_05302014	5/30/2014 740h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Phone: (801) 263-8686	1406025-001C	MW-03A_05302014	5/30/2014 740h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1406025-001D	MW-03A_05302014	5/30/2014 740h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1406025-001D	MW-03A_05302014	5/30/2014 740h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1406025-001E	MW-03A_05302014	5/30/2014 740h	Aqueous	Ion Balance
	1406025-001E	MW-03A_05302014	5/30/2014 740h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1406025-001E	MW-03A_05302014	5/30/2014 740h	Aqueous	ICPMS Metals, Dissolved
	1406025-001E	MW-03A_05302014	5/30/2014 740h	Aqueous	Mercury, Drinking Water Dissolved
Kyle F. Gross	1406025-002A	MW-03_05302014	5/30/2014 840h	Aqueous	VOA by GC/MS Method 8260C/5030C
Laboratory Director	1406025-002B	MW-03_05302014	5/30/2014 840h	Aqueous	Anions, E300.0
	1406025-002B	MW-03_05302014	5/30/2014 840h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Jose Rocha	1406025-002C	MW-03_05302014	5/30/2014 840h	Aqueous	Total Dissolved Solids, A2540C
QA Officer	1406025-002D	MW-03_05302014	5/30/2014 840h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406025-002D	MW-03_05302014	5/30/2014 840h	Aqueous	Ammonia, Aqueous
	1406025-002E	MW-03_05302014	5/30/2014 840h	Aqueous	Ion Balance
	1406025-002E	MW-03_05302014	5/30/2014 840h	Aqueous	ICP Metals, Dissolved
	1406025-002E	MW-03_05302014	5/30/2014 840h	Aqueous	ICPMS Metals, Dissolved
	1406025-002E	MW-03_05302014	5/30/2014 840h	Aqueous	Mercury, Drinking Water Dissolved
	1406025-003A	MW-24_05302014	5/30/2014 710h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406025-003B	MW-24_05302014	5/30/2014 710h	Aqueous	Anions, E300.0
	1406025-003B	MW-24_05302014	5/30/2014 710h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
	1406025-003C	MW-24_05302014	5/30/2014 710h	Aqueous	Total Dissolved Solids, A2540C
	1406025-003D	MW-24_05302014	5/30/2014 710h	Aqueous	Ammonia, Aqueous
	1406025-003D	MW-24_05302014	5/30/2014 710h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406025-003E	MW-24_05302014	5/30/2014 710h	Aqueous	Ion Balance
	1406025-003E	MW-24_05302014	5/30/2014 710h	Aqueous	ICP Metals, Dissolved
	1406025-003E	MW-24_05302014	5/30/2014 710h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406025  
**Date Received:** 6/3/2014 940h

**Contact:** Garrin Palmer

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Salt Lake City, UT 84115

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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
1406025-003E	MW-24_05302014	5/30/2014 710h	Aqueous	Mercury, Drinking Water Dissolved
1406025-004A	MW-17_05302014	5/30/2014 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
1406025-004B	MW-17_05302014	5/30/2014 1300h	Aqueous	Anions, E300.0
1406025-004B	MW-17_05302014	5/30/2014 1300h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1406025-004C	MW-17_05302014	5/30/2014 1300h	Aqueous	Total Dissolved Solids, A2540C
1406025-004D	MW-17_05302014	5/30/2014 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1406025-004D	MW-17_05302014	5/30/2014 1300h	Aqueous	Ammonia, Aqueous
1406025-004E	MW-17_05302014	5/30/2014 1300h	Aqueous	ICP Metals, Dissolved
1406025-004E	MW-17_05302014	5/30/2014 1300h	Aqueous	ICPMS Metals, Dissolved
1406025-004E	MW-17_05302014	5/30/2014 1300h	Aqueous	Ion Balance
1406025-004E	MW-17_05302014	5/30/2014 1300h	Aqueous	Mercury, Drinking Water Dissolved
1406025-005A	Trip Blank	5/30/2014	Aqueous	VOA by GC/MS Method 8260C/5030C
1406025-006A	MW-25_06022014	6/2/2014 1055h	Aqueous	VOA by GC/MS Method 8260C/5030C
1406025-006B	MW-25_06022014	6/2/2014 1055h	Aqueous	Anions, E300.0
1406025-006B	MW-25_06022014	6/2/2014 1055h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1406025-006C	MW-25_06022014	6/2/2014 1055h	Aqueous	Total Dissolved Solids, A2540C
1406025-006D	MW-25_06022014	6/2/2014 1055h	Aqueous	Nitrite/Nitrate (as N), E353.2
1406025-006D	MW-25_06022014	6/2/2014 1055h	Aqueous	Ammonia, Aqueous
1406025-006E	MW-25_06022014	6/2/2014 1055h	Aqueous	Mercury, Drinking Water Dissolved
1406025-006E	MW-25_06022014	6/2/2014 1055h	Aqueous	Ion Balance
1406025-006E	MW-25_06022014	6/2/2014 1055h	Aqueous	ICP Metals, Dissolved
1406025-006E	MW-25_06022014	6/2/2014 1055h	Aqueous	ICPMS Metals, Dissolved



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406025

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 6/3/2014  
**Date(s) of Collection:** 5/30 & 6/2/2014  
**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
1406025-001E	Calcium	MS/MSD	High analyte concentration
1406025-001E	Magnesium	MS/MSD	High analyte concentration
1406025-001E	Molybdenum	MSD	Sample matrix interference
1406025-001E	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.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406025

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 6/3/2014  
**Date(s) of Collection:** 5/30 & 6/2/2014  
**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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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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-32709</b>		Date Analyzed: 06/11/2014 1728h											
Test Code: 200.7-DIS		Date Prepared: 06/04/2014 1025h											
Calcium	9.79	mg/L	E200.7	0.00892	1.00	10.00	0	97.9	85 - 115				
Magnesium	10.1	mg/L	E200.7	0.0389	1.00	10.00	0	101	85 - 115				
Potassium	9.81	mg/L	E200.7	0.0721	1.00	10.00	0	98.1	85 - 115				
Vanadium	0.199	mg/L	E200.7	0.000596	0.00500	0.2000	0	99.4	85 - 115				
Zinc	0.989	mg/L	E200.7	0.00448	0.0100	1.000	0	98.9	85 - 115				
<b>Lab Sample ID: LCS-32709</b>		Date Analyzed: 06/12/2014 911h											
Test Code: 200.7-DIS		Date Prepared: 06/04/2014 1025h											
Sodium	9.83	mg/L	E200.7	0.0269	1.00	10.00	0	98.3	85 - 115				
<b>Lab Sample ID: LCS-32710</b>		Date Analyzed: 06/09/2014 1415h											
Test Code: 200.8-DIS		Date Prepared: 06/04/2014 1025h											
Arsenic	0.192	mg/L	E200.8	0.000802	0.00200	0.2000	0	95.9	85 - 115				
Beryllium	0.196	mg/L	E200.8	0.0000950	0.00200	0.2000	0	98.2	85 - 115				
Cadmium	0.185	mg/L	E200.8	0.0000598	0.000500	0.2000	0	92.3	85 - 115				
Chromium	0.198	mg/L	E200.8	0.000608	0.00200	0.2000	0	99.1	85 - 115				
Cobalt	0.196	mg/L	E200.8	0.000124	0.00400	0.2000	0	98.2	85 - 115				
Copper	0.199	mg/L	E200.8	0.00149	0.00200	0.2000	0	99.7	85 - 115				
Iron	0.960	mg/L	E200.8	0.0304	0.100	1.000	0	96.0	85 - 115				
Lead	0.190	mg/L	E200.8	0.000726	0.00200	0.2000	0	95.2	85 - 115				
Manganese	0.194	mg/L	E200.8	0.00175	0.00200	0.2000	0	97.0	85 - 115				
Molybdenum	0.194	mg/L	E200.8	0.000806	0.00200	0.2000	0	97.0	85 - 115				
Nickel	0.196	mg/L	E200.8	0.00175	0.00200	0.2000	0	98.1	85 - 115				
Selenium	0.187	mg/L	E200.8	0.000644	0.00200	0.2000	0	93.6	85 - 115				
Silver	0.184	mg/L	E200.8	0.000504	0.00200	0.2000	0	92.2	85 - 115				
Uranium	0.199	mg/L	E200.8	0.0000336	0.00200	0.2000	0	99.4	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:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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-32710	Date Analyzed:	06/10/2014	1703h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/04/2014	1025h										
Tin	1.02	mg/L	E200.8	0.000482	0.00200	1.000	0	102	85 - 115				
<b>Lab Sample ID:</b> LCS-32710	Date Analyzed:	06/10/2014	1702h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/04/2014	1025h										
Thallium	0.182	mg/L	E200.8	0.0000788	0.00200	0.2000	0	90.8	85 - 115				
<b>Lab Sample ID:</b> LCS-32737	Date Analyzed:	06/05/2014	1000h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/04/2014	1530h										
Mercury	0.00346	mg/L	E245.1	0.00000675	0.000150	0.003330	0	104	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:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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-32709	Date Analyzed:	06/11/2014	1726h										
<b>Test Code:</b> 200.7-DIS	Date Prepared:	06/04/2014	1025h										
Calcium	< 1.00	mg/L	E200.7	0.00892	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0389	1.00								
Potassium	< 1.00	mg/L	E200.7	0.0721	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.000596	0.00500								
Zinc	< 0.0100	mg/L	E200.7	0.00448	0.0100								
<b>Lab Sample ID:</b> MB-32709	Date Analyzed:	06/12/2014	909h										
<b>Test Code:</b> 200.7-DIS	Date Prepared:	06/04/2014	1025h										
Sodium	< 1.00	mg/L	E200.7	0.0269	1.00								
<b>Lab Sample ID:</b> MB-32710	Date Analyzed:	06/09/2014	1410h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/04/2014	1025h										
Arsenic	< 0.00200	mg/L	E200.8	0.000802	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000598	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000608	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000124	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.00149	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000806	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000644	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000504	0.00200								
<b>Lab Sample ID:</b> MB-32710	Date Analyzed:	06/10/2014	1657h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/04/2014	1025h										
Tin	< 0.00200	mg/L	E200.8	0.000482	0.00200								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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-32710	Date Analyzed:	06/10/2014	1612h										
Test Code:	200.8-DIS	Date Prepared:	06/04/2014	1025h									
Beryllium	< 0.000500	mg/L	E200.8	0.0000238	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00760	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.000182	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.0000197	0.000500								
<b>Lab Sample ID:</b> MB-32710	Date Analyzed:	06/10/2014	1724h										
Test Code:	200.8-DIS	Date Prepared:	06/04/2014	1025h									
Uranium	< 0.000200	mg/L	E200.8	0.00000336	0.000200								
<b>Lab Sample ID:</b> MB-32737	Date Analyzed:	06/05/2014	958h										
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	06/04/2014	1530h									
Mercury	< 0.000150	mg/L	E245.1	0.00000675	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406025-001EMS</b>													
Date Analyzed: 06/11/2014 1740h													
Test Code: 200.7-DIS													
Date Prepared: 06/04/2014 1025h													
Calcium	470	mg/L	E200.7	0.446	50.0	10.00	465	51.3	70 - 130				2
Magnesium	308	mg/L	E200.7	1.95	50.0	10.00	302	60.1	70 - 130				2
<b>Lab Sample ID: 1406025-001EMS</b>													
Date Analyzed: 06/12/2014 1040h													
Test Code: 200.7-DIS													
Date Prepared: 06/04/2014 1025h													
Sodium	745	mg/L	E200.7	1.34	50.0	10.00	772	-263	70 - 130				2
<b>Lab Sample ID: 1406025-001EMS</b>													
Date Analyzed: 06/12/2014 1250h													
Test Code: 200.7-DIS													
Date Prepared: 06/04/2014 1025h													
Potassium	36.7	mg/L	E200.7	0.0721	1.00	10.00	27.2	95.9	70 - 130				
Vanadium	0.208	mg/L	E200.7	0.000596	0.00500	0.2000	0	104	70 - 130				
Zinc	1.08	mg/L	E200.7	0.00448	0.0100	1.000	0.0426	103	70 - 130				
<b>Lab Sample ID: 1406025-001EMS</b>													
Date Analyzed: 06/09/2014 1439h													
Test Code: 200.8-DIS													
Date Prepared: 06/04/2014 1025h													
Arsenic	0.214	mg/L	E200.8	0.000802	0.00200	0.2000	0.00259	106	75 - 125				
Beryllium	0.214	mg/L	E200.8	0.0000950	0.00200	0.2000	0.00347	105	75 - 125				
Cadmium	0.208	mg/L	E200.8	0.0000598	0.000500	0.2000	0.00355	102	75 - 125				
Chromium	0.200	mg/L	E200.8	0.000608	0.00200	0.2000	0.00251	98.6	75 - 125				
Cobalt	0.199	mg/L	E200.8	0.000124	0.00400	0.2000	0.00315	98.0	75 - 125				
Copper	0.201	mg/L	E200.8	0.00149	0.00200	0.2000	0.00343	98.8	75 - 125				
Iron	1.03	mg/L	E200.8	0.0304	0.100	1.000	0	103	75 - 125				
Lead	0.203	mg/L	E200.8	0.000726	0.00200	0.2000	0.00259	100	75 - 125				
Manganese	0.220	mg/L	E200.8	0.00175	0.00200	0.2000	0.0274	96.4	75 - 125				
Molybdenum	0.226	mg/L	E200.8	0.000806	0.00200	0.2000	0.00336	111	75 - 125				
Nickel	0.206	mg/L	E200.8	0.00175	0.00200	0.2000	0.0097	98.3	75 - 125				
Selenium	0.297	mg/L	E200.8	0.000644	0.00200	0.2000	0.104	96.6	75 - 125				
Silver	0.196	mg/L	E200.8	0.000504	0.00200	0.2000	0.000557	97.9	75 - 125				
Uranium	0.243	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0271	108	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:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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> 1406025-001EMS	Date Analyzed:	06/10/2014	1716h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/04/2014	1025h										
Tin	0.998	mg/L	E200.8	0.000482	0.00200	1.000	0.00217	99.6	75 - 125				
<b>Lab Sample ID:</b> 1406025-001EMS	Date Analyzed:	06/10/2014	1651h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/04/2014	1025h										
Thallium	0.173	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000748	86.2	75 - 125				
<b>Lab Sample ID:</b> 1406025-001EMS	Date Analyzed:	06/05/2014	1007h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/04/2014	1530h										
Mercury	0.00328	mg/L	E245.1	0.00000675	0.000150	0.003330	0	98.5	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:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406025-001EMSD</b>		Date Analyzed: 06/11/2014 1742h											
Test Code: 200.7-DIS		Date Prepared: 06/04/2014 1025h											
Calcium	488	mg/L	E200.7	0.446	50.0	10.00	465	228	70 - 130	470	3.70	20	2
Magnesium	326	mg/L	E200.7	1.95	50.0	10.00	302	241	70 - 130	308	5.69	20	2
<b>Lab Sample ID: 1406025-001EMSD</b>		Date Analyzed: 06/12/2014 1042h											
Test Code: 200.7-DIS		Date Prepared: 06/04/2014 1025h											
Sodium	797	mg/L	E200.7	1.34	50.0	10.00	772	252	70 - 130	745	6.68	20	2
<b>Lab Sample ID: 1406025-001EMSD</b>		Date Analyzed: 06/12/2014 1252h											
Test Code: 200.7-DIS		Date Prepared: 06/04/2014 1025h											
Potassium	38.8	mg/L	E200.7	0.0721	1.00	10.00	27.2	117	70 - 130	36.7	5.54	20	
Vanadium	0.200	mg/L	E200.7	0.000596	0.00500	0.2000	0	99.9	70 - 130	0.208	3.96	20	
Zinc	1.11	mg/L	E200.7	0.00448	0.0100	1.000	0.0426	107	70 - 130	1.08	3.06	20	
<b>Lab Sample ID: 1406025-001EMSD</b>		Date Analyzed: 06/09/2014 1444h											
Test Code: 200.8-DIS		Date Prepared: 06/04/2014 1025h											
Arsenic	0.243	mg/L	E200.8	0.000802	0.00200	0.2000	0.00259	120	75 - 125	0.214	12.6	20	
Beryllium	0.242	mg/L	E200.8	0.0000950	0.00200	0.2000	0.00347	119	75 - 125	0.214	12.1	20	
Cadmium	0.234	mg/L	E200.8	0.0000598	0.000500	0.2000	0.00355	115	75 - 125	0.208	12.2	20	
Chromium	0.225	mg/L	E200.8	0.000608	0.00200	0.2000	0.00251	111	75 - 125	0.2	11.9	20	
Cobalt	0.223	mg/L	E200.8	0.000124	0.00400	0.2000	0.00315	110	75 - 125	0.199	11.4	20	
Copper	0.227	mg/L	E200.8	0.00149	0.00200	0.2000	0.00343	112	75 - 125	0.201	11.9	20	
Iron	1.21	mg/L	E200.8	0.0304	0.100	1.000	0	121	75 - 125	1.03	16.3	20	
Lead	0.230	mg/L	E200.8	0.000726	0.00200	0.2000	0.00259	114	75 - 125	0.203	12.6	20	
Manganese	0.249	mg/L	E200.8	0.00175	0.00200	0.2000	0.0274	111	75 - 125	0.22	12.3	20	
Molybdenum	0.256	mg/L	E200.8	0.000806	0.00200	0.2000	0.00336	126	75 - 125	0.226	12.3	20	
Nickel	0.234	mg/L	E200.8	0.00175	0.00200	0.2000	0.0097	112	75 - 125	0.206	12.7	20	
Selenium	0.339	mg/L	E200.8	0.000644	0.00200	0.2000	0.104	118	75 - 125	0.297	13.2	20	
Silver	0.220	mg/L	E200.8	0.000504	0.00200	0.2000	0.000557	110	75 - 125	0.196	11.6	20	
Uranium	0.275	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0271	124	75 - 125	0.243	12.4	20	



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406025-001EMSD</b>		Date Analyzed:	06/10/2014 1722h										
<b>Test Code: 200.8-DIS</b>		Date Prepared:	06/04/2014 1025h										
Tin	1.01	mg/L	E200.8	0.000482	0.00200	1.000	0.00217	101	75 - 125	0.998	1.62	20	
<b>Lab Sample ID: 1406025-001EMSD</b>		Date Analyzed:	06/10/2014 1656h										
<b>Test Code: 200.8-DIS</b>		Date Prepared:	06/04/2014 1025h										
Thallium	0.178	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000748	88.4	75 - 125	0.173	2.48	20	
<b>Lab Sample ID: 1406025-001EMSD</b>		Date Analyzed:	06/05/2014 1008h										
<b>Test Code: Hg-DW-DIS-245.1</b>		Date Prepared:	06/04/2014 1530h										
Mercury	0.00332	mg/L	E245.1	0.00000675	0.000150	0.003330	0	99.6	85 - 115	0.00328	1.15	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:** 1406025  
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**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> 1406025-001CDUP	Date Analyzed: 06/04/2014 1205h												
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	5,940	mg/L	SM2540C	4.34	20.0					5790	2.52	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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-R70091		Date Analyzed: 06/10/2014 1148h											
Test Code: 300.0-W													
Chloride	5.25	mg/L	E300.0	0.00623	0.100	5.000	0	105	90 - 110				
Fluoride	5.22	mg/L	E300.0	0.00510	0.100	5.000	0	104	90 - 110				
Sulfate	5.43	mg/L	E300.0	0.0331	0.750	5.000	0	109	90 - 110				
<b>Lab Sample ID:</b> LCS-R69762		Date Analyzed: 06/04/2014 752h											
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.719	10.0	50,000	0	100	90 - 110				
<b>Lab Sample ID:</b> LCS-32786		Date Analyzed: 06/09/2014 1932h											
Test Code: NH3-W-350.1		Date Prepared: 06/06/2014 1030h											
Ammonia (as N)	0.951	mg/L	E350.1	0.0214	0.0500	1.000	0	95.1	90 - 110				
<b>Lab Sample ID:</b> LCS-R69872		Date Analyzed: 06/05/2014 1755h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.969	mg/L	E353.2	0.00368	0.100	1.000	0	96.9	90 - 110				
<b>Lab Sample ID:</b> LCS-R69857		Date Analyzed: 06/04/2014 1205h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	192	mg/L	SM2540C	2.17	10.0	205.0	0	93.7	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406025  
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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-R70091</b>													
Date Analyzed: 06/10/2014 1133h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R69762</b>													
Date Analyzed: 06/04/2014 752h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
<b>Lab Sample ID: MB-32786</b>													
Date Analyzed: 06/09/2014 1931h													
Test Code: NH3-W-350.1													
Date Prepared: 06/06/2014 1030h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0214	0.0500								
<b>Lab Sample ID: MB-R69872</b>													
Date Analyzed: 06/05/2014 1753h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00368	0.100								
<b>Lab Sample ID: MB-R69857</b>													
Date Analyzed: 06/04/2014 1205h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406025-001BMS</b>													
Date Analyzed: 06/10/2014 1457h													
Test Code: 300.0-W													
Chloride	25,100	mg/L	E300.0	31.2	500	25,000	89.6	99.9	90 - 110				
Fluoride	25,000	mg/L	E300.0	25.5	500	25,000	33.5	99.8	90 - 110				
Sulfate	29,200	mg/L	E300.0	166	3,750	25,000	3830	101	90 - 110				
<b>Lab Sample ID: 1406025-003BMS</b>													
Date Analyzed: 06/04/2014 752h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	160	mg/L	SM2320B	0.719	10.0	50.00	111	98.4	80 - 120				
<b>Lab Sample ID: 1406025-001DMS</b>													
Date Analyzed: 06/09/2014 1942h													
Test Code: NH3-W-350.1													
Date Prepared: 06/06/2014 1030h													
Ammonia (as N)	0.943	mg/L	E350.1	0.0214	0.0500	1.000	0	94.3	90 - 110				
<b>Lab Sample ID: 1405608-006DMS</b>													
Date Analyzed: 06/05/2014 1815h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00368	0.100	1.000	0.179	90.4	90 - 110				



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**Project:** 2nd Quarter Groundwater 2014

**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: 1406025-001BMSD</b>		Date Analyzed: 06/10/2014 1637h											
Test Code: 300.0-W													
Chloride	26,300	mg/L	E300.0	31.2	500	25,000	89.6	105	90 - 110	25100	4.73	20	
Fluoride	26,300	mg/L	E300.0	25.5	500	25,000	33.5	105	90 - 110	25000	5.16	20	
Sulfate	30,600	mg/L	E300.0	166	3,750	25,000	3830	107	90 - 110	29200	4.62	20	
<b>Lab Sample ID: 1406025-003BMSD</b>		Date Analyzed: 06/04/2014 752h											
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	159	mg/L	SM2320B	0.719	10.0	50.00	111	96.6	80 - 120	160	0.563	10	
<b>Lab Sample ID: 1406025-001DMSD</b>		Date Analyzed: 06/09/2014 1947h											
Test Code: NH3-W-350.1		Date Prepared: 06/06/2014 1030h											
Ammonia (as N)	0.922	mg/L	E350.1	0.0214	0.0500	1.000	0	92.2	90 - 110	0.943	2.29	10	
<b>Lab Sample ID: 1405608-006DMSD</b>		Date Analyzed: 06/05/2014 1817h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.11	mg/L	E353.2	0.00368	0.100	1.000	0.179	93.0	90 - 110	1.08	2.42	10	



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**Lab Set ID:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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-C 060314A		<b>Date Analyzed:</b> 06/03/2014 744h											
<b>Test Code:</b> 8260-W													
Benzene	19.5	µg/L	SW8260C	0.0859	2.00	20.00	0	97.6	62 - 127				
Chloroform	19.9	µg/L	SW8260C	0.626	2.00	20.00	0	99.5	67 - 132				
Methylene chloride	19.9	µg/L	SW8260C	0.321	2.00	20.00	0	99.6	32 - 185				
Naphthalene	18.3	µg/L	SW8260C	0.315	2.00	20.00	0	91.7	28 - 136				
Tetrahydrofuran	17.5	µg/L	SW8260C	0.214	2.00	20.00	0	87.6	43 - 146				
Toluene	18.7	µg/L	SW8260C	0.206	2.00	20.00	0	93.5	64 - 129				
Xylenes, Total	59.2	µg/L	SW8260C	0.333	2.00	60.00	0	98.6	52 - 134				
Surr: 1,2-Dichloroethane-d4	53.2	µg/L	SW8260C			50.00		106	76 - 138				
Surr: 4-Bromofluorobenzene	46.7	µg/L	SW8260C			50.00		93.4	77 - 121				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260C			50.00		101	67 - 128				
Surr: Toluene-d8	47.3	µg/L	SW8260C			50.00		94.6	81 - 135				



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**Project:** 2nd Quarter Groundwater 2014

**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-C 060314A</b>		Date Analyzed: 06/03/2014 821h											
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	1.01	10.0								
Acetone	< 10.0	µg/L	SW8260C	3.62	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.0859	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.738	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.214	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.315	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.214	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.206	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.333	1.00								
Surr: 1,2-Dichloroethane-d4	53.4	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	49.3	µg/L	SW8260C			50.00		98.7	77 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.6	67 - 128				
Surr: Toluene-d8	48.5	µg/L	SW8260C			50.00		97.1	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:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406025-001AMS</b>		Date Analyzed: 06/03/2014 1459h											
Test Code: 8260-W													
Benzene	20.8	µg/L	SW8260C	0.0859	2.00	20.00	0	104	66 - 145				
Chloroform	21.0	µg/L	SW8260C	0.626	2.00	20.00	0	105	50 - 146				
Methylene chloride	21.8	µg/L	SW8260C	0.321	2.00	20.00	0	109	30 - 192				
Naphthalene	17.2	µg/L	SW8260C	0.315	2.00	20.00	0	85.8	41 - 131				
Tetrahydrofuran	20.5	µg/L	SW8260C	0.214	2.00	20.00	0	102	43 - 146				
Toluene	19.2	µg/L	SW8260C	0.206	2.00	20.00	0	95.9	18 - 192				
Xylenes, Total	58.4	µg/L	SW8260C	0.333	2.00	60.00	0	97.3	42 - 167				
Surr: 1,2-Dichloroethane-d4	54.8	µg/L	SW8260C			50.00		110	72 - 151				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.8	80 - 128				
Surr: Dibromofluoromethane	51.7	µg/L	SW8260C			50.00		103	80 - 124				
Surr: Toluene-d8	46.7	µg/L	SW8260C			50.00		93.4	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:** 1406025  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406025-001AMSD</b>		<b>Date Analyzed: 06/03/2014 1518h</b>											
<b>Test Code: 8260-W</b>													
Benzene	22.2	µg/L	SW8260C	0.0859	2.00	20.00	0	111	66 - 145	20.8	6.59	25	
Chloroform	22.4	µg/L	SW8260C	0.626	2.00	20.00	0	112	50 - 146	21	6.41	25	
Methylene chloride	23.3	µg/L	SW8260C	0.321	2.00	20.00	0	117	30 - 192	21.8	6.56	25	
Naphthalene	18.7	µg/L	SW8260C	0.315	2.00	20.00	0	93.5	41 - 131	17.2	8.54	25	
Tetrahydrofuran	21.6	µg/L	SW8260C	0.214	2.00	20.00	0	108	43 - 146	20.5	5.32	25	
Toluene	20.7	µg/L	SW8260C	0.206	2.00	20.00	0	104	18 - 192	19.2	7.72	25	
Xylenes, Total	63.2	µg/L	SW8260C	0.333	2.00	60.00	0	105	42 - 167	58.4	7.88	25	
Surr: 1,2-Dichloroethane-d4	52.6	µg/L	SW8260C			50.00		105	72 - 151				
Surr: 4-Bromofluorobenzene	46.2	µg/L	SW8260C			50.00		92.4	80 - 128				
Surr: Dibromofluoromethane	50.9	µg/L	SW8260C			50.00		102	80 - 124				
Surr: Toluene-d8	46.8	µg/L	SW8260C			50.00		93.5	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1406025** Page 1 of 4

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/12/2014

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2014

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume. 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 have been field filtered. Run Fe by 200.8 for necessary reporting limits.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406025-001A	MW-03A_05302014	5/30/2014 0740h	6/3/2014 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>								
1406025-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
<i>3 SEL Analytes: CL F SO4</i>								
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
<i>2 SEL Analytes: ALKB ALKC</i>								
1406025-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
<i>1 SEL Analytes: TDS</i>								
1406025-001D				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>								
1406025-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
<i>6 SEL Analytes: CA MG K NA V ZN</i>								
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>								
1406025-002A	MW-03_05302014	5/30/2014 0840h	6/3/2014 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>								
1406025-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
<i>3 SEL Analytes: CL F SO4</i>								
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
<i>2 SEL Analytes: ALKB ALKC</i>								

# WORK ORDER Summary

Work Order: **1406025** Page 2 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 6/12/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406025-002C	MW-03_05302014	5/30/2014 0840h	6/3/2014 0940h	TDS-W-2540C <i>1 SEL Analytes: TDS</i>	Aqueous	<input checked="" type="checkbox"/>	ww - tds	1
1406025-002D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1406025-002E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	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>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1406025-003A	MW-24_05302014	5/30/2014 0710h	6/3/2014 0940h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1406025-003B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1406025-003C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1406025-003D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1406025-003E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	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>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	

# WORK ORDER Summary

Work Order: **1406025** Page 3 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 6/12/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage				
1406025-003E	MW-24_05302014	5/30/2014 0710h	6/3/2014 0940h	HG-DW-DIS-PR	Aqueous	<input checked="" type="checkbox"/>	df-met	1			
				IONBALANCE		<input checked="" type="checkbox"/>	df-met				
5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc											
1406025-004A	MW-17_05302014	5/30/2014 1300h	6/3/2014 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4											
1406025-004B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1			
				3 SEL Analytes: CL F SO4			ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				2 SEL Analytes: ALKB ALKC							
1406025-004C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds				
				1 SEL Analytes: TDS							
1406025-004D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				1 SEL Analytes: NH3N			NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2				<input checked="" type="checkbox"/>	df - no2/no3 & nh3		
				1 SEL Analytes: NO3NO2N							
1406025-004E				200.7-DIS		<input checked="" type="checkbox"/>	df-met				
				6 SEL Analytes: CA MG K NA V ZN			200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met				
				1 SEL Analytes: HG			HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met				
5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc											
1406025-005A	Trip Blank	5/30/2014	6/3/2014 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4											
1406025-006A	MW-25_06022014	6/2/2014 1055h	6/3/2014 0940h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4											
1406025-006B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1			
				3 SEL Analytes: CL F SO4			ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				2 SEL Analytes: ALKB ALKC							
1406025-006C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds				
				1 SEL Analytes: TDS							
1406025-006D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				1 SEL Analytes: NH3N							

# WORK ORDER Summary

Work Order: **1406025** Page 4 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 6/12/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406025-006D	MW-25_06022014	6/2/2014 1055h	6/3/2014 0940h	NH3-W-PR	Aqueous	<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>				
1406025-006E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
					<i>6 SEL Analytes: CA MG K NA V ZN</i>			
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>				



**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.

1406025

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: **gpalmex@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**  
 Project Name: **2nd Quarter Groundwater 2014**  
 Project #:  
 PO #:  
 Sampler Name: **Garrin Palmer, 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 (200.7/200.8/245.1)	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)	X Include EDD: <b>LOCUS UPLOAD EXCEL</b>		Laboratory Use Only		
											X Field Filtered For: <b>Dissolved Metals</b>		Samples Were		
For Compliance With:												Known Hazards & Sample Comments			
<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:															
1	MW-03A_05302014	5/30/2014	740	7	W	x	x	x	x	x	x	x	x	x	1 Shipped or hand delivered
2	MW-03_05302014	5/30/2014	840	7	W	x	x	x	x	x	x	x	x	x	2 Ambient or Chilled
3	MW-24_5302014	5/30/2014	710	7	W	x	x	x	x	x	x	x	x	x	3 Temperature 20°C
4	MW-17_05302014	5/30/2014	1300	7	W	x	x	x	x	x	x	x	x	x	4 Received Broken/Leaking (improperly Sealed)
5	Trip Blank	5/30/2014		3	W										5 Properly Preserved
6	Temp Blank			1	W										6 Checked in bench
7	MW-25_06022014	6/2/2014	1055	7	W	x	x	x	x	x	x	x	x	x	7 Received Without Holding Times
8															
9															
10															
11															
12															

COC Tape Was:

- Present on Outer Package: Y N
- Unbroken on Outer Package: Y N
- Present on Sample: Y N
- Unbroken on Sample: Y N

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: <i>Garrin Palmer</i> Signature	Date: 6/2/14	Received by: <i>[Signature]</i> Signature	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: <i>Garrin Palmer</i>	Time: 1230	Print Name:	Time:	
Relinquished by: <i>[Signature]</i> Signature	Date:	Received by: <i>[Signature]</i> Signature	Date: 6/2/14	
Print Name:	Time:	Print Name: <i>[Signature]</i>	Time: 940	
Relinquished by: <i>[Signature]</i> Signature	Date:	Received by: <i>[Signature]</i> Signature	Date:	
Print Name:	Time:	Print Name:	Time:	

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	6													
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>	yes	yes	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	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



Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2014

Dear Garrin Palmer:

Lab Set ID: 1406109

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 12 sample(s) on 6/5/2014 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, 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=Quality Assurance Officer, email=jose@awal-labs.com, c=US Date: 2014.06.17 16:53:08 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406109  
**Date Received:** 6/5/2014 1615h

463 West 3600 South Salt Lake City, UT 84115	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
	1406109-001A	MW-05_06042014	6/4/2014 1130h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406109-001B	MW-05_06042014	6/4/2014 1130h	Aqueous	Anions, E300.0
	1406109-001B	MW-05_06042014	6/4/2014 1130h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Phone: (801) 263-8686	1406109-001C	MW-05_06042014	6/4/2014 1130h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1406109-001D	MW-05_06042014	6/4/2014 1130h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1406109-001D	MW-05_06042014	6/4/2014 1130h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1406109-001E	MW-05_06042014	6/4/2014 1130h	Aqueous	Ion Balance
	1406109-001E	MW-05_06042014	6/4/2014 1130h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1406109-001E	MW-05_06042014	6/4/2014 1130h	Aqueous	ICPMS Metals, Dissolved
	1406109-001E	MW-05_06042014	6/4/2014 1130h	Aqueous	Mercury, Drinking Water Dissolved
Kyle F. Gross	1406109-002A	MW-11_06032014	6/3/2014 1105h	Aqueous	VOA by GC/MS Method 8260C/5030C
Laboratory Director	1406109-002B	MW-11_06032014	6/3/2014 1105h	Aqueous	Anions, E300.0
	1406109-002B	MW-11_06032014	6/3/2014 1105h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Jose Rocha	1406109-002C	MW-11_06032014	6/3/2014 1105h	Aqueous	Total Dissolved Solids, A2540C
QA Officer	1406109-002D	MW-11_06032014	6/3/2014 1105h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406109-002D	MW-11_06032014	6/3/2014 1105h	Aqueous	Ammonia, Aqueous
	1406109-002E	MW-11_06032014	6/3/2014 1105h	Aqueous	Ion Balance
	1406109-002E	MW-11_06032014	6/3/2014 1105h	Aqueous	ICP Metals, Dissolved
	1406109-002E	MW-11_06032014	6/3/2014 1105h	Aqueous	ICPMS Metals, Dissolved
	1406109-002E	MW-11_06032014	6/3/2014 1105h	Aqueous	Mercury, Drinking Water Dissolved
	1406109-003A	MW-12_06042014	6/4/2014 1320h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406109-003B	MW-12_06042014	6/4/2014 1320h	Aqueous	Anions, E300.0
	1406109-003B	MW-12_06042014	6/4/2014 1320h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
	1406109-003C	MW-12_06042014	6/4/2014 1320h	Aqueous	Total Dissolved Solids, A2540C
	1406109-003D	MW-12_06042014	6/4/2014 1320h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406109-003D	MW-12_06042014	6/4/2014 1320h	Aqueous	Ammonia, Aqueous
	1406109-003E	MW-12_06042014	6/4/2014 1320h	Aqueous	Ion Balance
	1406109-003E	MW-12_06042014	6/4/2014 1320h	Aqueous	Mercury, Drinking Water Dissolved
	1406109-003E	MW-12_06042014	6/4/2014 1320h	Aqueous	ICPMS Metals, Dissolved



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Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1406109-003E	MW-12_06042014	6/4/2014 1320h	Aqueous	ICP Metals, Dissolved
463 West 3600 South Salt Lake City, UT 84115	1406109-004A	MW-14_06032014 6/3/2014 1450h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406109-004B	MW-14_06032014 6/3/2014 1450h	Aqueous	Anions, E300.0
	1406109-004B	MW-14_06032014 6/3/2014 1450h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Phone: (801) 263-8686	1406109-004C	MW-14_06032014 6/3/2014 1450h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1406109-004D	MW-14_06032014 6/3/2014 1450h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1406109-004D	MW-14_06032014 6/3/2014 1450h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1406109-004E	MW-14_06032014 6/3/2014 1450h	Aqueous	Ion Balance
	1406109-004E	MW-14_06032014 6/3/2014 1450h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1406109-004E	MW-14_06032014 6/3/2014 1450h	Aqueous	ICPMS Metals, Dissolved
	1406109-004E	MW-14_06032014 6/3/2014 1450h	Aqueous	Mercury, Drinking Water Dissolved
	1406109-005A	MW-15_06042014 6/4/2014 1000h	Aqueous	VOA by GC/MS Method 8260C/5030C
Kyle F. Gross Laboratory Director	1406109-005B	MW-15_06042014 6/4/2014 1000h	Aqueous	Anions, E300.0
	1406109-005B	MW-15_06042014 6/4/2014 1000h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Jose Rocha QA Officer	1406109-005C	MW-15_06042014 6/4/2014 1000h	Aqueous	Total Dissolved Solids, A2540C
	1406109-005D	MW-15_06042014 6/4/2014 1000h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406109-005D	MW-15_06042014 6/4/2014 1000h	Aqueous	Ammonia, Aqueous
	1406109-005E	MW-15_06042014 6/4/2014 1000h	Aqueous	Ion Balance
	1406109-005E	MW-15_06042014 6/4/2014 1000h	Aqueous	ICP Metals, Dissolved
	1406109-005E	MW-15_06042014 6/4/2014 1000h	Aqueous	ICPMS Metals, Dissolved
	1406109-005E	MW-15_06042014 6/4/2014 1000h	Aqueous	Mercury, Drinking Water Dissolved
	1406109-006A	MW-26_06052014 6/5/2014 630h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406109-006B	MW-26_06052014 6/5/2014 630h	Aqueous	Anions, E300.0
	1406109-006B	MW-26_06052014 6/5/2014 630h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
	1406109-006C	MW-26_06052014 6/5/2014 630h	Aqueous	Total Dissolved Solids, A2540C
	1406109-006D	MW-26_06052014 6/5/2014 630h	Aqueous	Ammonia, Aqueous
	1406109-006D	MW-26_06052014 6/5/2014 630h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406109-006E	MW-26_06052014 6/5/2014 630h	Aqueous	Ion Balance
	1406109-006E	MW-26_06052014 6/5/2014 630h	Aqueous	ICP Metals, Dissolved
	1406109-006E	MW-26_06052014 6/5/2014 630h	Aqueous	ICPMS Metals, Dissolved
	1406109-006E	MW-26_06052014 6/5/2014 630h	Aqueous	Mercury, Drinking Water Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406109  
**Date Received:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1406109-007A	MW-29_06032014	6/3/2014 1315h	Aqueous	VOA by GC/MS Method 8260C/5030C
1406109-007B	MW-29_06032014	6/3/2014 1315h	Aqueous	Anions, E300.0
1406109-007B	MW-29_06032014	6/3/2014 1315h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1406109-007C	MW-29_06032014	6/3/2014 1315h	Aqueous	Total Dissolved Solids, A2540C
1406109-007D	MW-29_06032014	6/3/2014 1315h	Aqueous	Nitrite/Nitrate (as N), E353.2
1406109-007D	MW-29_06032014	6/3/2014 1315h	Aqueous	Ammonia, Aqueous
1406109-007E	MW-29_06032014	6/3/2014 1315h	Aqueous	ICPMS Metals, Dissolved
1406109-007E	MW-29_06032014	6/3/2014 1315h	Aqueous	Mercury, Drinking Water Dissolved
1406109-007E	MW-29_06032014	6/3/2014 1315h	Aqueous	ICP Metals, Dissolved
1406109-007E	MW-29_06032014	6/3/2014 1315h	Aqueous	Ion Balance
1406109-008A	MW-30_06032014	6/3/2014 1020h	Aqueous	VOA by GC/MS Method 8260C/5030C
1406109-008B	MW-30_06032014	6/3/2014 1020h	Aqueous	Anions, E300.0
1406109-008B	MW-30_06032014	6/3/2014 1020h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1406109-008C	MW-30_06032014	6/3/2014 1020h	Aqueous	Total Dissolved Solids, A2540C
1406109-008D	MW-30_06032014	6/3/2014 1020h	Aqueous	Nitrite/Nitrate (as N), E353.2
1406109-008D	MW-30_06032014	6/3/2014 1020h	Aqueous	Ammonia, Aqueous
1406109-008E	MW-30_06032014	6/3/2014 1020h	Aqueous	Ion Balance
1406109-008E	MW-30_06032014	6/3/2014 1020h	Aqueous	ICP Metals, Dissolved
1406109-008E	MW-30_06032014	6/3/2014 1020h	Aqueous	ICPMS Metals, Dissolved
1406109-008E	MW-30_06032014	6/3/2014 1020h	Aqueous	Mercury, Drinking Water Dissolved
1406109-009A	MW-31_06022014	6/2/2014 1255h	Aqueous	VOA by GC/MS Method 8260C/5030C
1406109-009B	MW-31_06022014	6/2/2014 1255h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1406109-009B	MW-31_06022014	6/2/2014 1255h	Aqueous	Anions, E300.0
1406109-009C	MW-31_06022014	6/2/2014 1255h	Aqueous	Total Dissolved Solids, A2540C
1406109-009D	MW-31_06022014	6/2/2014 1255h	Aqueous	Ammonia, Aqueous
1406109-009D	MW-31_06022014	6/2/2014 1255h	Aqueous	Nitrite/Nitrate (as N), E353.2
1406109-009E	MW-31_06022014	6/2/2014 1255h	Aqueous	Ion Balance
1406109-009E	MW-31_06022014	6/2/2014 1255h	Aqueous	ICP Metals, Dissolved
1406109-009E	MW-31_06022014	6/2/2014 1255h	Aqueous	ICPMS Metals, Dissolved
1406109-009E	MW-31_06022014	6/2/2014 1255h	Aqueous	Mercury, Drinking Water Dissolved

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406109  
**Date Received:** 6/5/2014 1615h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1406109-010A	MW-35_06042014	6/4/2014 745h	Aqueous	VOA by GC/MS Method 8260C/5030C
1406109-010B	MW-35_06042014	6/4/2014 745h	Aqueous	Anions, E300.0
1406109-010B	MW-35_06042014	6/4/2014 745h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1406109-010C	MW-35_06042014	6/4/2014 745h	Aqueous	Total Dissolved Solids, A2540C
1406109-010D	MW-35_06042014	6/4/2014 745h	Aqueous	Nitrite/Nitrate (as N), E353.2
1406109-010D	MW-35_06042014	6/4/2014 745h	Aqueous	Ammonia, Aqueous
1406109-010E	MW-35_06042014	6/4/2014 745h	Aqueous	Ion Balance
1406109-010E	MW-35_06042014	6/4/2014 745h	Aqueous	Mercury, Drinking Water Dissolved
1406109-010E	MW-35_06042014	6/4/2014 745h	Aqueous	ICP Metals, Dissolved
1406109-010E	MW-35_06042014	6/4/2014 745h	Aqueous	ICPMS Metals, Dissolved
1406109-011A	MW-65_06042014	6/4/2014 745h	Aqueous	VOA by GC/MS Method 8260C/5030C
1406109-011B	MW-65_06042014	6/4/2014 745h	Aqueous	Anions, E300.0
1406109-011B	MW-65_06042014	6/4/2014 745h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1406109-011C	MW-65_06042014	6/4/2014 745h	Aqueous	Total Dissolved Solids, A2540C
1406109-011D	MW-65_06042014	6/4/2014 745h	Aqueous	Nitrite/Nitrate (as N), E353.2
1406109-011D	MW-65_06042014	6/4/2014 745h	Aqueous	Ammonia, Aqueous
1406109-011E	MW-65_06042014	6/4/2014 745h	Aqueous	Ion Balance
1406109-011E	MW-65_06042014	6/4/2014 745h	Aqueous	ICP Metals, Dissolved
1406109-011E	MW-65_06042014	6/4/2014 745h	Aqueous	ICPMS Metals, Dissolved
1406109-011E	MW-65_06042014	6/4/2014 745h	Aqueous	Mercury, Drinking Water Dissolved
1406109-012A	Trip Blank	6/2/2014	Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Inorganic Case Narrative

<b>Client:</b>	Energy Fuels Resources, Inc.
<b>Contact:</b>	Garrin Palmer
<b>Project:</b>	2nd Quarter Groundwater 2014
<b>Lab Set ID:</b>	1406109

### Sample Receipt Information:

<b>Date of Receipt:</b>	6/5/2014
<b>Date(s) of Collection:</b>	6/2-6/5/2014
<b>Sample Condition:</b>	Intact
<b>C-O-C Discrepancies:</b>	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
1406109-001E	Calcium	MS	High analyte concentration
1406109-001E	Sodium	MS	High analyte concentration
1406109-003B	Chloride	MS/RPD	Sample non-homogeneity or matrix interference
1406109-003B	Fluoride	MS/RPD	Sample non-homogeneity or matrix interference
1406109-003B	Sulfate	MS/RPD	Sample non-homogeneity or matrix interference
1406109-011E	Calcium	MS/MSD	High analyte concentration
1406109-011E	Magnesium	MS	High analyte concentration
1406109-011E	Sodium	MS	High analyte concentration

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**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



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406109

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 6/5/2014  
**Date(s) of Collection:** 6/2-6/5/2014  
**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  
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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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-32777</b>		Date Analyzed: 06/12/2014 1622h											
Test Code: 200.7-DIS		Date Prepared: 06/06/2014 1125h											
Calcium	9.43	mg/L	E200.7	0.00892	1.00	10.00	0	94.3	85 - 115				
Magnesium	9.77	mg/L	E200.7	0.0389	1.00	10.00	0	97.7	85 - 115				
Potassium	9.38	mg/L	E200.7	0.0721	1.00	10.00	0	93.8	85 - 115				
Sodium	9.45	mg/L	E200.7	0.0269	1.00	10.00	0	94.5	85 - 115				
Vanadium	0.187	mg/L	E200.7	0.000596	0.00500	0.2000	0	93.7	85 - 115				
Zinc	0.941	mg/L	E200.7	0.00448	0.0100	1.000	0	94.1	85 - 115				
<b>Lab Sample ID: LCS-32778</b>		Date Analyzed: 06/09/2014 1941h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Arsenic	0.183	mg/L	E200.8	0.000802	0.00200	0.2000	0	91.3	85 - 115				
Cadmium	0.187	mg/L	E200.8	0.0000598	0.000500	0.2000	0	93.7	85 - 115				
Chromium	0.187	mg/L	E200.8	0.000608	0.00200	0.2000	0	93.3	85 - 115				
Cobalt	0.190	mg/L	E200.8	0.000124	0.00400	0.2000	0	94.9	85 - 115				
Copper	0.194	mg/L	E200.8	0.00149	0.00200	0.2000	0	97.0	85 - 115				
Manganese	0.187	mg/L	E200.8	0.00175	0.00200	0.2000	0	93.4	85 - 115				
Molybdenum	0.193	mg/L	E200.8	0.000806	0.00200	0.2000	0	96.3	85 - 115				
Nickel	0.191	mg/L	E200.8	0.00175	0.00200	0.2000	0	95.5	85 - 115				
Selenium	0.184	mg/L	E200.8	0.000644	0.00200	0.2000	0	92.1	85 - 115				
Silver	0.187	mg/L	E200.8	0.000504	0.00200	0.2000	0	93.4	85 - 115				
<b>Lab Sample ID: LCS-32778</b>		Date Analyzed: 06/11/2014 306h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Beryllium	0.193	mg/L	E200.8	0.0000950	0.00200	0.2000	0	96.5	85 - 115				
Iron	0.887	mg/L	E200.8	0.0304	0.100	1.000	0	88.7	85 - 115				
Lead	0.184	mg/L	E200.8	0.000726	0.00200	0.2000	0	92.2	85 - 115				
Thallium	0.177	mg/L	E200.8	0.0000788	0.00200	0.2000	0	88.4	85 - 115				
Uranium	0.187	mg/L	E200.8	0.0000336	0.00200	0.2000	0	93.4	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:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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-32778	Date Analyzed:	06/11/2014	1234h										
Test Code:	200.8-DIS	Date Prepared:	06/06/2014	1125h									
Tin	0.983	mg/L	E200.8	0.000482	0.00200	1.000	0	98.3	85 - 115				
<b>Lab Sample ID:</b> LCS-32826	Date Analyzed:	06/10/2014	1114h										
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	06/09/2014	1445h									
Mercury	0.00329	mg/L	E245.1	0.00000675	0.000150	0.003330	0	98.7	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:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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-32777</b>													
Date Analyzed:		06/12/2014 1620h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Calcium	< 1.00	mg/L	E200.7	0.00892	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0389	1.00								
Potassium	< 1.00	mg/L	E200.7	0.0721	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0269	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.000596	0.00500								
Zinc	< 0.0100	mg/L	E200.7	0.00448	0.0100								
<b>Lab Sample ID: MB-32778</b>													
Date Analyzed:		06/09/2014 1935h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2014 1125h											
Arsenic	< 0.00200	mg/L	E200.8	0.000802	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000598	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000608	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000124	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.00149	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000806	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000644	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000504	0.00200								
<b>Lab Sample ID: MB-32778</b>													
Date Analyzed:		06/11/2014 301h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2014 1125h											
Beryllium	< 0.000500	mg/L	E200.8	0.0000238	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00760	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.000182	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.0000197	0.000500								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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-32778	Date Analyzed:	06/11/2014	507h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2014	1125h										
Uranium	< 0.000300	mg/L	E200.8	0.00000336	0.000300								
<b>Lab Sample ID:</b> MB-32778	Date Analyzed:	06/11/2014	1228h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/06/2014	1125h										
Tin	< 0.00200	mg/L	E200.8	0.000482	0.00200								
<b>Lab Sample ID:</b> MB-32826	Date Analyzed:	06/10/2014	1113h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/09/2014	1445h										
Mercury	< 0.000150	mg/L	E245.1	0.00000675	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001EMS</b>													
Date Analyzed:		06/12/2014 1625h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Calcium	154	mg/L	E200.7	0.446	50.0	10.00	135	192	70 - 130				±
Sodium	509	mg/L	E200.7	1.34	50.0	10.00	477	322	70 - 130				±
<b>Lab Sample ID: 1406109-011EMS</b>													
Date Analyzed:		06/12/2014 1652h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Calcium	531	mg/L	E200.7	0.446	50.0	10.00	533	-14.9	70 - 130				±
Magnesium	188	mg/L	E200.7	1.95	50.0	10.00	173	144	70 - 130				±
Sodium	398	mg/L	E200.7	1.34	50.0	10.00	396	29.2	70 - 130				±
<b>Lab Sample ID: 1406109-001EMS</b>													
Date Analyzed:		06/12/2014 1757h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Magnesium	52.9	mg/L	E200.7	0.0389	1.00	10.00	39.5	135	70 - 130				1
Vanadium	0.196	mg/L	E200.7	0.000596	0.00500	0.2000	0	98.0	70 - 130				
Zinc	1.05	mg/L	E200.7	0.00448	0.0100	1.000	0	105	70 - 130				
<b>Lab Sample ID: 1406109-011EMS</b>													
Date Analyzed:		06/12/2014 1824h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Potassium	21.6	mg/L	E200.7	0.0721	1.00	10.00	11.9	97.9	70 - 130				
Vanadium	0.190	mg/L	E200.7	0.000596	0.00500	0.2000	0	94.8	70 - 130				
Zinc	1.00	mg/L	E200.7	0.00448	0.0100	1.000	0	100	70 - 130				
<b>Lab Sample ID: 1406109-001EMS</b>													
Date Analyzed:		06/12/2014 2133h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Potassium	17.6	mg/L	E200.7	0.0721	1.00	10.00	7.07	106	70 - 130				
<b>Lab Sample ID: 1406109-001EMS</b>													
Date Analyzed:		06/09/2014 2003h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2014 1125h											
Arsenic	0.194	mg/L	E200.8	0.000802	0.00200	0.2000	0	97.1	75 - 125				
Cadmium	0.190	mg/L	E200.8	0.0000598	0.000500	0.2000	0	94.8	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001EMS</b>													
Date Analyzed:		06/09/2014 2003h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2014 1125h											
Chromium	0.188	mg/L	E200.8	0.000608	0.00200	0.2000	0	94.1	75 - 125				
Cobalt	0.191	mg/L	E200.8	0.000124	0.00400	0.2000	0	95.5	75 - 125				
Copper	0.195	mg/L	E200.8	0.00149	0.00200	0.2000	0	97.3	75 - 125				
Manganese	0.411	mg/L	E200.8	0.00175	0.00200	0.2000	0.207	102	75 - 125				
Molybdenum	0.203	mg/L	E200.8	0.000806	0.00200	0.2000	0.00186	101	75 - 125				
Nickel	0.190	mg/L	E200.8	0.00175	0.00200	0.2000	0	95.0	75 - 125				
Selenium	0.191	mg/L	E200.8	0.000644	0.00200	0.2000	0	95.6	75 - 125				
Silver	0.185	mg/L	E200.8	0.000504	0.00200	0.2000	0	92.7	75 - 125				
<b>Lab Sample ID: 1406109-011EMS</b>													
Date Analyzed:		06/09/2014 2135h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2014 1125h											
Arsenic	0.191	mg/L	E200.8	0.000802	0.00200	0.2000	0	95.3	75 - 125				
Cadmium	0.184	mg/L	E200.8	0.0000598	0.000500	0.2000	0	92.2	75 - 125				
Chromium	0.185	mg/L	E200.8	0.000608	0.00200	0.2000	0	92.6	75 - 125				
Cobalt	0.186	mg/L	E200.8	0.000124	0.00400	0.2000	0.00104	92.3	75 - 125				
Copper	0.186	mg/L	E200.8	0.00149	0.00200	0.2000	0	92.9	75 - 125				
Manganese	0.383	mg/L	E200.8	0.00175	0.00200	0.2000	0.205	89.0	75 - 125				
Molybdenum	0.201	mg/L	E200.8	0.000806	0.00200	0.2000	0	100	75 - 125				
Nickel	0.190	mg/L	E200.8	0.00175	0.00200	0.2000	0.00386	93.2	75 - 125				
Selenium	0.200	mg/L	E200.8	0.000644	0.00200	0.2000	0.0142	93.1	75 - 125				
Silver	0.178	mg/L	E200.8	0.000504	0.00200	0.2000	0	89.2	75 - 125				
<b>Lab Sample ID: 1406109-001EMS</b>													
Date Analyzed:		06/11/2014 317h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2014 1125h											
Beryllium	0.195	mg/L	E200.8	0.0000950	0.00200	0.2000	0.000075	97.5	75 - 125				
Iron	0.938	mg/L	E200.8	0.0304	0.100	1.000	0.0343	90.4	75 - 125				
Lead	0.187	mg/L	E200.8	0.000726	0.00200	0.2000	0	93.7	75 - 125				
Thallium	0.178	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000137	89.0	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001EMS</b> Date Analyzed: 06/11/2014 317h													
Test Code: 200.8-DIS      Date Prepared: 06/06/2014 1125h													
Uranium	0.197	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0023	97.4	75 - 125				
<b>Lab Sample ID: 1406109-011EMS</b> Date Analyzed: 06/11/2014 440h													
Test Code: 200.8-DIS      Date Prepared: 06/06/2014 1125h													
Beryllium	0.181	mg/L	E200.8	0.0000950	0.00200	0.2000	0	90.6	75 - 125				
Iron	0.943	mg/L	E200.8	0.0304	0.100	1.000	0.0874	85.6	75 - 125				
Lead	0.174	mg/L	E200.8	0.000726	0.00200	0.2000	0	87.1	75 - 125				
Thallium	0.166	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000425	82.7	75 - 125				
Uranium	0.200	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0211	89.7	75 - 125				
<b>Lab Sample ID: 1406109-001EMS</b> Date Analyzed: 06/11/2014 1245h													
Test Code: 200.8-DIS      Date Prepared: 06/06/2014 1125h													
Tin	1.03	mg/L	E200.8	0.000482	0.00200	1.000	0.00372	103	75 - 125				
<b>Lab Sample ID: 1406109-011EMS</b> Date Analyzed: 06/13/2014 1425h													
Test Code: 200.8-DIS      Date Prepared: 06/06/2014 1125h													
Tin	0.989	mg/L	E200.8	0.000482	0.00200	1.000	0	98.9	75 - 125				
<b>Lab Sample ID: 1406109-001EMS</b> Date Analyzed: 06/10/2014 1121h													
Test Code: Hg-DW-DIS-245.1      Date Prepared: 06/09/2014 1445h													
Mercury	0.00341	mg/L	E245.1	0.00000675	0.000150	0.003330	0	102	85 - 115				

<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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Jose Rocha  
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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001EMSD</b>													
Date Analyzed:		06/12/2014 1627h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Calcium	147	mg/L	E200.7	0.446	50.0	10.00	135	117	70 - 130	154	4.94	20	
Sodium	486	mg/L	E200.7	1.34	50.0	10.00	477	96.0	70 - 130	509	4.53	20	
<b>Lab Sample ID: 1406109-011EMSD</b>													
Date Analyzed:		06/12/2014 1654h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Calcium	539	mg/L	E200.7	0.446	50.0	10.00	533	63.1	70 - 130	531	1.46	20	3
Magnesium	182	mg/L	E200.7	1.95	50.0	10.00	173	90.4	70 - 130	188	2.88	20	
Sodium	404	mg/L	E200.7	1.34	50.0	10.00	396	87.7	70 - 130	398	1.46	20	
<b>Lab Sample ID: 1406109-001EMSD</b>													
Date Analyzed:		06/12/2014 1759h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Magnesium	49.8	mg/L	E200.7	0.0389	1.00	10.00	39.5	103	70 - 130	52.9	6.19	20	
Vanadium	0.183	mg/L	E200.7	0.000596	0.00500	0.2000	0	91.3	70 - 130	0.196	7.06	20	
Zinc	0.978	mg/L	E200.7	0.00448	0.0100	1.000	0	97.8	70 - 130	1.05	7.01	20	
<b>Lab Sample ID: 1406109-011EMSD</b>													
Date Analyzed:		06/12/2014 1825h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Potassium	21.8	mg/L	E200.7	0.0721	1.00	10.00	11.9	99.2	70 - 130	21.6	0.629	20	
Vanadium	0.206	mg/L	E200.7	0.000596	0.00500	0.2000	0	103	70 - 130	0.19	8.50	20	
Zinc	1.02	mg/L	E200.7	0.00448	0.0100	1.000	0	102	70 - 130	1	1.51	20	
<b>Lab Sample ID: 1406109-001EMSD</b>													
Date Analyzed:		06/12/2014 2135h											
Test Code:		200.7-DIS											
Date Prepared:		06/06/2014 1125h											
Potassium	16.7	mg/L	E200.7	0.0721	1.00	10.00	7.07	95.9	70 - 130	17.6	5.78	20	
<b>Lab Sample ID: 1406109-001EMSD</b>													
Date Analyzed:		06/09/2014 2015h											
Test Code:		200.8-DIS											
Date Prepared:		06/06/2014 1125h											
Arsenic	0.183	mg/L	E200.8	0.000802	0.00200	0.2000	0	91.6	75 - 125	0.194	5.83	20	
Cadmium	0.182	mg/L	E200.8	0.0000598	0.000500	0.2000	0	90.8	75 - 125	0.19	4.22	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1406109

**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001EMSD</b>		Date Analyzed: 06/09/2014 2015h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Chromium	0.181	mg/L	E200.8	0.000608	0.00200	0.2000	0	90.3	75 - 125	0.188	4.11	20	
Cobalt	0.182	mg/L	E200.8	0.000124	0.00400	0.2000	0	90.8	75 - 125	0.191	4.99	20	
Copper	0.183	mg/L	E200.8	0.00149	0.00200	0.2000	0	91.7	75 - 125	0.195	5.92	20	
Manganese	0.395	mg/L	E200.8	0.00175	0.00200	0.2000	0.207	94.0	75 - 125	0.411	4.02	20	
Molybdenum	0.193	mg/L	E200.8	0.000806	0.00200	0.2000	0.00186	95.8	75 - 125	0.203	4.81	20	
Nickel	0.184	mg/L	E200.8	0.00175	0.00200	0.2000	0	91.9	75 - 125	0.19	3.33	20	
Selenium	0.180	mg/L	E200.8	0.000644	0.00200	0.2000	0	90.1	75 - 125	0.191	5.89	20	
Silver	0.177	mg/L	E200.8	0.000504	0.00200	0.2000	0	88.4	75 - 125	0.185	4.70	20	
<b>Lab Sample ID: 1406109-011EMSD</b>		Date Analyzed: 06/09/2014 2141h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Arsenic	0.190	mg/L	E200.8	0.000802	0.00200	0.2000	0	95.0	75 - 125	0.191	0.327	20	
Cadmium	0.180	mg/L	E200.8	0.0000598	0.000500	0.2000	0	89.9	75 - 125	0.184	2.50	20	
Chromium	0.183	mg/L	E200.8	0.000608	0.00200	0.2000	0	91.5	75 - 125	0.185	1.17	20	
Cobalt	0.186	mg/L	E200.8	0.000124	0.00400	0.2000	0.00104	92.5	75 - 125	0.186	0.198	20	
Copper	0.185	mg/L	E200.8	0.00149	0.00200	0.2000	0	92.5	75 - 125	0.186	0.367	20	
Manganese	0.385	mg/L	E200.8	0.00175	0.00200	0.2000	0.205	90.4	75 - 125	0.383	0.710	20	
Molybdenum	0.195	mg/L	E200.8	0.000806	0.00200	0.2000	0	97.4	75 - 125	0.201	2.95	20	
Nickel	0.189	mg/L	E200.8	0.00175	0.00200	0.2000	0.00386	92.7	75 - 125	0.19	0.494	20	
Selenium	0.199	mg/L	E200.8	0.000644	0.00200	0.2000	0.0142	92.5	75 - 125	0.2	0.575	20	
Silver	0.175	mg/L	E200.8	0.000504	0.00200	0.2000	0	87.5	75 - 125	0.178	1.90	20	
<b>Lab Sample ID: 1406109-001EMSD</b>		Date Analyzed: 06/11/2014 323h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Beryllium	0.182	mg/L	E200.8	0.0000950	0.00200	0.2000	0.000075	91.2	75 - 125	0.195	6.74	20	
Iron	0.877	mg/L	E200.8	0.0304	0.100	1.000	0.0343	84.3	75 - 125	0.938	6.73	20	
Lead	0.173	mg/L	E200.8	0.000726	0.00200	0.2000	0	86.3	75 - 125	0.187	8.32	20	
Thallium	0.165	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000137	82.2	75 - 125	0.178	7.88	20	



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Kyle F. Gross  
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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001EMSD</b>		Date Analyzed: 06/11/2014 323h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Uranium	0.180	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0023	88.7	75 - 125	0.197	9.32	20	
<b>Lab Sample ID: 1406109-011EMSD</b>		Date Analyzed: 06/11/2014 445h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Beryllium	0.183	mg/L	E200.8	0.0000950	0.00200	0.2000	0	91.7	75 - 125	0.181	1.20	20	
Iron	0.939	mg/L	E200.8	0.0304	0.100	1.000	0.0874	85.1	75 - 125	0.943	0.492	20	
Lead	0.174	mg/L	E200.8	0.000726	0.00200	0.2000	0	86.8	75 - 125	0.174	0.340	20	
Thallium	0.166	mg/L	E200.8	0.0000788	0.00200	0.2000	0.000425	82.8	75 - 125	0.166	0.102	20	
Uranium	0.200	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0211	89.5	75 - 125	0.2	0.186	20	
<b>Lab Sample ID: 1406109-001EMSD</b>		Date Analyzed: 06/11/2014 1251h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Tin	0.984	mg/L	E200.8	0.000482	0.00200	1.000	0.00372	98.0	75 - 125	1.03	4.60	20	
<b>Lab Sample ID: 1406109-011EMSD</b>		Date Analyzed: 06/13/2014 1431h											
Test Code: 200.8-DIS		Date Prepared: 06/06/2014 1125h											
Tin	0.970	mg/L	E200.8	0.000482	0.00200	1.000	0	97.0	75 - 125	0.989	1.97	20	
<b>Lab Sample ID: 1406109-001EMSD</b>		Date Analyzed: 06/10/2014 1122h											
Test Code: Hg-DW-DIS-245.1		Date Prepared: 06/09/2014 1445h											
Mercury	0.00340	mg/L	E245.1	0.00000675	0.000150	0.003330	0	102	85 - 115	0.00341	0.323	20	

<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:** 1406109

**Project:** 2nd Quarter Groundwater 2014

**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> 1406109-001CDUP	Date Analyzed: 06/06/2014 1240h												
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	2,000	mg/L	SM2540C	4.34	20.0					1950	2.63	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: LCS-R70178</b> Date Analyzed: 06/11/2014 1156h													
Test Code: 300.0-W													
Chloride	5.31	mg/L	E300.0	0.00623	0.100	5.000	0	106	90 - 110				
Sulfate	5.38	mg/L	E300.0	0.0331	0.750	5.000	0	108	90 - 110				
<b>Lab Sample ID: LCS-R70302</b> Date Analyzed: 06/12/2014 1153h													
Test Code: 300.0-W													
Chloride	4.92	mg/L	E300.0	0.00623	0.100	5.000	0	98.5	90 - 110				
Fluoride	5.00	mg/L	E300.0	0.00510	0.100	5.000	0	100	90 - 110				
Sulfate	4.81	mg/L	E300.0	0.0331	0.750	5.000	0	96.2	90 - 110				
<b>Lab Sample ID: LCS-R70323</b> Date Analyzed: 06/13/2014 1705h													
Test Code: 300.0-W													
Fluoride	4.98	mg/L	E300.0	0.00510	0.100	5.000	0	99.5	90 - 110				
<b>Lab Sample ID: LCS-R70008</b> Date Analyzed: 06/10/2014 614h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.719	10.0	50,000	0	100	90 - 110				
<b>Lab Sample ID: LCS-32971</b> Date Analyzed: 06/16/2014 1235h													
Test Code: NH3-W-350.1      Date Prepared: 06/15/2014 1100h													
Ammonia (as N)	0.963	mg/L	E350.1	0.0214	0.0500	1.000	0	96.3	90 - 110				
<b>Lab Sample ID: LCS-R70325</b> Date Analyzed: 06/14/2014 1732h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00368	0.0100	1.000	0	101	90 - 110				
<b>Lab Sample ID: LCS-R69975</b> Date Analyzed: 06/06/2014 1240h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	202	mg/L	SM2540C	2.17	10.0	205.0	0	98.5	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1406109

**Project:** 2nd Quarter Groundwater 2014

**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-R70178</b>													
Date Analyzed: 06/11/2014 1140h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R70302</b>													
Date Analyzed: 06/12/2014 1137h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R70323</b>													
Date Analyzed: 06/13/2014 1650h													
Test Code: 300.0-W													
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
<b>Lab Sample ID: MB-R70008</b>													
Date Analyzed: 06/10/2014 614h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
<b>Lab Sample ID: MB-32971</b>													
Date Analyzed: 06/16/2014 1234h													
Test Code: NH3-W-350.1													
Date Prepared: 06/15/2014 1100h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0214	0.0500								
<b>Lab Sample ID: MB-R70325</b>													
Date Analyzed: 06/14/2014 1730h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00368	0.0100								
<b>Lab Sample ID: MB-R69975</b>													
Date Analyzed: 06/06/2014 1240h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001BMS</b> Date Analyzed: 06/11/2014 1623h													
Test Code: 300.0-W													
Chloride	4,730	mg/L	E300.0	6.23	100	5,000	0	94.5	90 - 110				
Sulfate	6,030	mg/L	E300.0	33.1	750	5,000	1210	96.4	90 - 110				
<b>Lab Sample ID: 1406109-003BMS</b> Date Analyzed: 06/12/2014 1446h													
Test Code: 300.0-W													
Chloride	21,000	mg/L	E300.0	31.2	500	25,000	136	83.4	90 - 110				'
Fluoride	20,700	mg/L	E300.0	25.5	500	25,000	37.6	82.8	90 - 110				'
Sulfate	23,000	mg/L	E300.0	166	3,750	25,000	2460	82.3	90 - 110				'
<b>Lab Sample ID: 1406109-001BMS</b> Date Analyzed: 06/10/2014 614h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	382	mg/L	SM2320B	0.719	10.0	50.00	333	98.6	80 - 120				
<b>Lab Sample ID: 1406109-011BMS</b> Date Analyzed: 06/10/2014 614h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	409	mg/L	SM2320B	0.719	10.0	50.00	360	98.4	80 - 120				
<b>Lab Sample ID: 1406109-002DMS</b> Date Analyzed: 06/16/2014 1239h													
Test Code: NH3-W-350.1      Date Prepared: 06/15/2014 1100h													
Ammonia (as N)	1.58	mg/L	E350.1	0.0214	0.0500	1.000	0.614	96.9	90 - 110				
<b>Lab Sample ID: 1406109-007DMS</b> Date Analyzed: 06/16/2014 1252h													
Test Code: NH3-W-350.1      Date Prepared: 06/15/2014 1100h													
Ammonia (as N)	1.53	mg/L	E350.1	0.0214	0.0500	1.000	0.588	94.0	90 - 110				
<b>Lab Sample ID: 1406109-003DMS</b> Date Analyzed: 06/14/2014 1737h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00368	0.0100	1.000	0.098	96.6	90 - 110				

' - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001BMSD</b> Date Analyzed: 06/11/2014 1639h													
Test Code: 300.0-W													
Chloride	5,300	mg/L	E300.0	6.23	100	5,000	0	106	90 - 110	4730	11.5	20	
Sulfate	6,580	mg/L	E300.0	33.1	750	5,000	1210	107	90 - 110	6030	8.64	20	
<b>Lab Sample ID: 1406109-003BMSD</b> Date Analyzed: 06/12/2014 1502h													
Test Code: 300.0-W													
Chloride	26,200	mg/L	E300.0	31.2	500	25,000	136	104	90 - 110	21000	22.2	20	@
Fluoride	26,500	mg/L	E300.0	25.5	500	25,000	37.6	106	90 - 110	20700	24.5	20	@
Sulfate	29,600	mg/L	E300.0	166	3,750	25,000	2460	108	90 - 110	23000	24.8	20	@
<b>Lab Sample ID: 1406109-001BMSD</b> Date Analyzed: 06/10/2014 614h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	382	mg/L	SM2320B	0.719	10.0	50.00	333	98.6	80 - 120	382	0	10	
<b>Lab Sample ID: 1406109-011BMSD</b> Date Analyzed: 06/10/2014 614h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	409	mg/L	SM2320B	0.719	10.0	50.00	360	98.4	80 - 120	409	0	10	
<b>Lab Sample ID: 1406109-002DMSD</b> Date Analyzed: 06/16/2014 1240h													
Test Code: NH3-W-350.1 Date Prepared: 06/15/2014 1100h													
Ammonia (as N)	1.55	mg/L	E350.1	0.0214	0.0500	1.000	0.614	94.0	90 - 110	1.58	1.87	10	
<b>Lab Sample ID: 1406109-007DMSD</b> Date Analyzed: 06/16/2014 1253h													
Test Code: NH3-W-350.1 Date Prepared: 06/15/2014 1100h													
Ammonia (as N)	1.56	mg/L	E350.1	0.0214	0.0500	1.000	0.588	96.9	90 - 110	1.53	1.89	10	
<b>Lab Sample ID: 1406109-003DMSD</b> Date Analyzed: 06/14/2014 1739h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00368	0.0100	1.000	0.098	96.6	90 - 110	1.06	0.0188	10	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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-C 060514B</b>													
Date Analyzed: 06/05/2014 2009h													
Test Code: 8260-W													
Benzene	20.9	µg/L	SW8260C	0.0859	2.00	20.00	0	104	62 - 127				
Chloroform	20.9	µg/L	SW8260C	0.626	2.00	20.00	0	105	67 - 132				
Methylene chloride	21.2	µg/L	SW8260C	0.321	2.00	20.00	0	106	32 - 185				
Naphthalene	18.6	µg/L	SW8260C	0.315	2.00	20.00	0	92.8	28 - 136				
Tetrahydrofuran	19.4	µg/L	SW8260C	0.214	2.00	20.00	0	96.8	43 - 146				
Toluene	20.5	µg/L	SW8260C	0.206	2.00	20.00	0	103	64 - 129				
Xylenes, Total	64.2	µg/L	SW8260C	0.333	2.00	60.00	0	107	52 - 134				
Surr: 1,2-Dichloroethane-d4	53.8	µg/L	SW8260C			50.00		108	76 - 138				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.6	77 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	49.4	µg/L	SW8260C			50.00		98.8	81 - 135				
<b>Lab Sample ID: LCS VOC-C 060614A</b>													
Date Analyzed: 06/06/2014 811h													
Test Code: 8260-W													
Chloroform	21.6	µg/L	SW8260C	0.626	2.00	20.00	0	108	67 - 132				
Surr: 1,2-Dichloroethane-d4	55.0	µg/L	SW8260C			50.00		110	76 - 138				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260C			50.00		94.8	77 - 121				
Surr: Dibromofluoromethane	51.8	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	49.0	µg/L	SW8260C			50.00		97.9	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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-C 060514B</b> Date Analyzed: 06/05/2014 2047h													
Test Code: 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.01	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.62	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.0859	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.738	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.214	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.315	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.214	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.206	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.333	1.00								
Surr: 1,2-Dichloroethane-d4	53.8	µg/L	SW8260C			50.00		108	76 - 138				
Surr: 4-Bromofluorobenzene	49.9	µg/L	SW8260C			50.00		99.8	77 - 121				
Surr: Dibromofluoromethane	50.3	µg/L	SW8260C			50.00		101	67 - 128				
Surr: Toluene-d8	51.0	µg/L	SW8260C			50.00		102	81 - 135				
<b>Lab Sample ID: MB VOC-C 060614A</b> Date Analyzed: 06/06/2014 848h													
Test Code: 8260-W													
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Surr: 1,2-Dichloroethane-d4	55.3	µg/L	SW8260C			50.00		111	76 - 138				
Surr: 4-Bromofluorobenzene	49.7	µg/L	SW8260C			50.00		99.4	77 - 121				
Surr: Dibromofluoromethane	51.1	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	50.8	µg/L	SW8260C			50.00		102	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001AMS</b>													
Date Analyzed: 06/05/2014 2353h													
Test Code: 8260-W													
Benzene	21.3	µg/L	SW8260C	0.0859	2.00	20.00	0	106	66 - 145				
Chloroform	21.5	µg/L	SW8260C	0.626	2.00	20.00	0	107	50 - 146				
Methylene chloride	22.0	µg/L	SW8260C	0.321	2.00	20.00	0	110	30 - 192				
Naphthalene	17.5	µg/L	SW8260C	0.315	2.00	20.00	0	87.5	41 - 131				
Tetrahydrofuran	33.5	µg/L	SW8260C	0.214	2.00	20.00	5.22	141	43 - 146				
Toluene	20.0	µg/L	SW8260C	0.206	2.00	20.00	0	99.8	18 - 192				
Xylenes, Total	60.7	µg/L	SW8260C	0.333	2.00	60.00	0	101	42 - 167				
Surr: 1,2-Dichloroethane-d4	56.4	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	49.0	µg/L	SW8260C			50.00		98.0	80 - 128				
Surr: Dibromofluoromethane	53.1	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	48.5	µg/L	SW8260C			50.00		97.0	77 - 129				
<b>Lab Sample ID: 1406108-001AMS</b>													
Date Analyzed: 06/06/2014 944h													
Test Code: 8260-W													
Chloroform	10,800	µg/L	SW8260C	313	1,000	10,000	0	108	50 - 146				
Surr: 1,2-Dichloroethane-d4	27,700	µg/L	SW8260C			25,000		111	72 - 151				
Surr: 4-Bromofluorobenzene	24,300	µg/L	SW8260C			25,000		97.1	80 - 128				
Surr: Dibromofluoromethane	26,000	µg/L	SW8260C			25,000		104	80 - 124				
Surr: Toluene-d8	24,200	µg/L	SW8260C			25,000		96.7	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:** 1406109  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406109-001AMSD</b>		Date Analyzed: 06/06/2014 012h											
Test Code: 8260-W													
Benzene	22.7	µg/L	SW8260C	0.0859	2.00	20.00	0	113	66 - 145	21.3	6.38	25	
Chloroform	22.5	µg/L	SW8260C	0.626	2.00	20.00	0	113	50 - 146	21.5	4.73	25	
Methylene chloride	23.0	µg/L	SW8260C	0.321	2.00	20.00	0	115	30 - 192	22	4.53	25	
Naphthalene	18.3	µg/L	SW8260C	0.315	2.00	20.00	0	91.4	41 - 131	17.5	4.42	25	
Tetrahydrofuran	32.3	µg/L	SW8260C	0.214	2.00	20.00	5.22	136	43 - 146	33.5	3.43	25	
Toluene	21.3	µg/L	SW8260C	0.206	2.00	20.00	0	107	18 - 192	20	6.59	25	
Xylenes, Total	65.1	µg/L	SW8260C	0.333	2.00	60.00	0	109	42 - 167	60.7	7.08	25	
Surr: 1,2-Dichloroethane-d4	56.6	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	48.0	µg/L	SW8260C			50.00		96.0	80 - 128				
Surr: Dibromofluoromethane	52.6	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.7	77 - 129				
<b>Lab Sample ID: 1406108-001AMSD</b>		Date Analyzed: 06/06/2014 1003h											
Test Code: 8260-W													
Chloroform	10,500	µg/L	SW8260C	313	1,000	10,000	0	105	50 - 146	10800	2.63	25	
Surr: 1,2-Dichloroethane-d4	27,900	µg/L	SW8260C			25,000		112	72 - 151				
Surr: 4-Bromofluorobenzene	23,500	µg/L	SW8260C			25,000		94.1	80 - 128				
Surr: Dibromofluoromethane	25,800	µg/L	SW8260C			25,000		103	80 - 124				
Surr: Toluene-d8	24,300	µg/L	SW8260C			25,000		97.3	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1406109** Page 1 of 8

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/16/2014

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2014

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume. 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.; Run Fe by 200.8 for necessary reporting limits.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406109-001A	MW-05_06042014	6/4/2014 1130h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1406109-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1406109-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1406109-001D				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>				
1406109-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>				
1406109-002A	MW-11_06032014	6/3/2014 1105h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1406109-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				



# WORK ORDER Summary

Work Order: **1406109** Page 3 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 6/16/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406109-003E	MW-12_06042014	6/4/2014 1320h	6/5/2014 1615h	HG-DW-DIS-PR	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1406109-004A	MW-14_06032014	6/3/2014 1450h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1406109-004B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				2 SEL Analytes: ALKB ALKC				
1406109-004C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				1 SEL Analytes: TDS				
1406109-004D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1406109-004E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				6 SEL Analytes: CA MG K NA V ZN				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1406109-005A	MW-15_06042014	6/4/2014 1000h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1406109-005B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				2 SEL Analytes: ALKB ALKC				
1406109-005C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				1 SEL Analytes: TDS				
1406109-005D				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	

# WORK ORDER Summary

Work Order: **1406109**

Page 4 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 6/16/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406109-005D	MW-15_06042014	6/4/2014 1000h	6/5/2014 1615h	NO2/NO3-W-353.2	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1406109-005E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>							
1406109-006A	MW-26_06052014	6/5/2014 0630h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1406109-006B				300.0-W		<input checked="" type="checkbox"/>	df - wc	
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1406109-006C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1406109-006D				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>							
1406109-006E	200.7-DIS		<input checked="" type="checkbox"/>	df-met				
	<i>6 SEL Analytes: CA MG K NA V ZN</i>							
	200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met				
	200.8-DIS		<input checked="" type="checkbox"/>	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		<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>							

# WORK ORDER Summary

Work Order: **1406109** Page 5 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 6/16/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage				
1406109-007A	MW-29_06032014	6/3/2014 1315h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
1406109-007B						300.0-W		<input checked="" type="checkbox"/>	df - wc	1	
							3 SEL Analytes: CL F SO4				
							ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
							2 SEL Analytes: ALKB ALKC				
1406109-007C							TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
							1 SEL Analytes: TDS				
1406109-007D							NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NH3N				
							NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NO3NO2N				
1406109-007E							200.7-DIS		<input checked="" type="checkbox"/>	df-met	
							6 SEL Analytes: CA MG K NA V ZN				
							200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
							200.8-DIS		<input checked="" type="checkbox"/>	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		<input checked="" type="checkbox"/>	df-met				
				HG-DW-DIS-245.1		<input checked="" type="checkbox"/>	df-met				
				1 SEL Analytes: HG							
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				IONBALANCE		<input checked="" type="checkbox"/>	df-met				
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc							
1406109-008A	MW-30_06032014	6/3/2014 1020h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
1406109-008B						300.0-W		<input checked="" type="checkbox"/>	df - wc	1	
							3 SEL Analytes: CL F SO4				
							ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
							2 SEL Analytes: ALKB ALKC				
1406109-008C							TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
							1 SEL Analytes: TDS				
1406109-008D							NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NH3N				
							NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
							1 SEL Analytes: NO3NO2N				
1406109-008E							200.7-DIS		<input checked="" type="checkbox"/>	df-met	
							6 SEL Analytes: CA MG K NA V ZN				

# WORK ORDER Summary

Work Order: **1406109** Page 6 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 6/16/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage				
1406109-008E	MW-30_06032014	6/3/2014 1020h	6/5/2014 1615h	200.7-DIS-PR	Aqueous	<input checked="" type="checkbox"/>	df-met	1			
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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				
1406109-009A	MW-31_06022014	6/2/2014 1255h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>							
				1406109-009B		<input checked="" type="checkbox"/>	df - wc	1			
				<i>3 SEL Analytes: CL F SO4</i>							
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc				
				<i>2 SEL Analytes: ALKB ALKC</i>							
				1406109-009C		<input checked="" type="checkbox"/>	ww - tds				
1406109-009D				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds				
				<i>1 SEL Analytes: TDS</i>							
				NH3-W-350.1		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				<i>1 SEL Analytes: NH3N</i>							
1406109-009E				NH3-W-PR		<input checked="" type="checkbox"/>	df - no2/no3 & nh3				
				<i>1 SEL Analytes: NH3N</i>							
				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>6 SEL Analytes: CA MG K NA V ZN</i>							
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met				
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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								
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>											
1406109-010A	MW-35_06042014	6/4/2014 0745h	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3			
<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>											
1406109-010B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1			
<i>3 SEL Analytes: CL F SO4</i>											



# WORK ORDER Summary

Work Order: **1406109**

Page 8 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 6/16/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
1406109-011E	MW-65_06042014	6/4/2014 0745h	6/5/2014 1615h	HG-DW-DIS-245.1	Aqueous	<input checked="" type="checkbox"/>	df-met	1	
				<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>					
1406109-012A	Trip Blank	6/2/2014	6/5/2014 1615h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3	
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>					



# 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.

1406109  
 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 2014**  
 PROJECT #: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 SAMPLER NAME: **Tanner Holliday**

QC LEVEL:		TURN AROUND TIME:		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 (200.7/200.8/245.1) 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)		UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.		LABORATORY USE ONLY SAMPLES WERE: 1 SHIPPED OR HAND DELIVERED 2 AMBIENT OR CHILLED 3 TEMPERATURE <u>3.9</u> °C 4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) Y <u>N</u> 5 PROPERLY PRESERVED Y <u>N</u> CHECKED AT BENCH Y <u>N</u> 6 RECEIVED WITHIN HOLDING TIMES Y <u>N</u>	
		X INCLUDE EDD: LOCUS UPLOAD EXCEL X FIELD FILTERED FOR: Dissolved Metals		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		COC TAPE WAS: 1 PRESENT ON OUTER PACKAGE Y <u>N</u> <u>NA</u> 2 UNBROKEN ON OUTER PACKAGE Y <u>N</u> <u>NA</u> 3 PRESENT ON SAMPLE Y <u>N</u> <u>NA</u> 4 UNBROKEN ON SAMPLE Y <u>N</u> <u>NA</u>	
		DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD Y <u>N</u>			

	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)
1	MW-05_06042014	6/4/2014	1130	7	W	X	X	X	X	X	X	X	X	X
2	MW-11_06032014	6/3/2014	1105	7	W	X	X	X	X	X	X	X	X	X
3	MW-12_06042014	6/4/2014	1320	7	W	X	X	X	X	X	X	X	X	X
4	MW-14_06032014	6/3/2014	1450	7	W	X	X	X	X	X	X	X	X	X
5	MW-15_06042014	6/4/2014	1000	7	W	X	X	X	X	X	X	X	X	X
6	MW-26_06052014	6/5/2014	630	7	W	X	X	X	X	X	X	X	X	X
7	MW-29_06032014	6/3/2014	1315	7	W	X	X	X	X	X	X	X	X	X
8	MW-30_06032014	6/3/2014	1020	7	W	X	X	X	X	X	X	X	X	X
9	MW-31_06022014	6/2/2014	1255	7	W	X	X	X	X	X	X	X	X	X
10	MW-35_06042014	6/4/2014	745	7	W	X	X	X	X	X	X	X	X	X
11	MW-65_06042014	6/4/2014	745	7	W	X	X	X	X	X	X	X	X	X
12	TRIP BLANK	6/2/2014		1	W									X

RELINQUISHED BY: SIGNATURE: <i>Tanner Holliday</i>	DATE: <u>6/5/2014</u> TIME: <u>6:15</u>	RECEIVED BY: SIGNATURE: <i>Denise Bruun</i>	DATE: <u>6/5/14</u> TIME: <u>10:15</u>	SPECIAL INSTRUCTIONS:  Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.  <u>Temp Blank Included</u> <u>6/5/2014</u>
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	

Table 1 AWAL – Quarterly Sampling Programs

Groundwater						
Analyte/ Group	Matrix	Approximate Number of Samples per Quarter*				Approximate Number of Samples Annually
		Q1	Q2	Q3	Q4	
Nitrate	Groundwater	18	37	18	37	110
Ammonia	Groundwater	11	29	11	29	80
VOCs	Groundwater	16	32	16	32	96
Fluoride	Groundwater	12	29	12	29	82
TDS	Groundwater	15	30	15	30	90
Chloride	Groundwater	14	37	14	37	102
Sulfate	Groundwater	15	31	15	31	92
Carb/Bicarb	Groundwater	11	29	11	29	80
Chloroform						
Chloride	Groundwater	32				128
Nitrate	Groundwater	32				128
VOCs	Groundwater	35				140
Nitrate						
Chloride	Groundwater	24				96
Nitrate	Groundwater	24				96

\* Sample numbers are approximate and may change slightly based on the number of wells and specific constituents in accelerated monitoring.

Table 2 AWAL – Annual Sampling Programs

Tailings		
Analyte Group	Matrix	Approximate Number of Samples Annually
Nitrate	Tailings Wastewater	8
Ammonia	Tailings Wastewater	8
VOCs	Tailings Wastewater	9
Fluoride	Tailings Wastewater	8
TDS	Tailings Wastewater	8
Chloride	Tailings Wastewater	8
Sulfate	Tailings Wastewater	8
Carb/Bicarb	Tailings Wastewater	8
SVOCs	Tailings Wastewater	8
Seeps and Springs		
Nitrate	Surface Water	4 – 6*
Ammonia	Surface Water	4 – 6*
VOCs	Surface Water	4 – 6*
Fluoride	Surface Water	4 – 6*
TDS	Surface Water	4 – 6*
Chloride	Surface Water	4 – 6*
Sulfate	Surface Water	4 – 6*
Carb/Bicarb	Surface Water	4 – 6*

\* Number of samples depends on the number of flowing surface water bodies.

Table 3 – AWAL Analyte List, Reporting Limits and Analytical Method Requirements

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
<b>Nutrients</b>					
Ammonia (as N)	A4500-NH <sub>3</sub> G or E350.1	0.05 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H <sub>2</sub> SO <sub>4</sub> to pH<2	≤ 6°C
<b>Volatile Organic Compounds – Groundwater, Seeps and Springs and Tailings Impoundment</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 or SW8260C	1.0 µg/L	14 days	HCl to pH<2	≤ 6°C
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>					
Fluoride	A4500-F C or E300.0	0.1 mg/L	28 days	None	≤ 6°C
TDS	A2540 C	10 mg/L	7 days	None	≤ 6°C





Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: 2nd Quarter Groundwater 2014

Dear Garrin Palmer:

Lab Set ID: 1406278

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 4 sample(s) on 6/13/2014 for the analyses presented in the following report.

Phone: (801) 263-8686  
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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, 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:

**Jose G.  
Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou=Quality  
Assurance Officer,  
email=jose@awal-labs.com,  
c=US  
Date: 2014.06.25 16:21:35  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406278  
**Date Received:** 6/13/2014 1010h

**Contact:** Garrin Palmer

463 West 3600 South Salt Lake City, UT 84115	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
	1406278-001A	MW-22_06112014	6/11/2014 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406278-001B	MW-22_06112014	6/11/2014 1300h	Aqueous	Anions, E300.0
	1406278-001B	MW-22_06112014	6/11/2014 1300h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Phone: (801) 263-8686	1406278-001C	MW-22_06112014	6/11/2014 1300h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1406278-001D	MW-22_06112014	6/11/2014 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1406278-001D	MW-22_06112014	6/11/2014 1300h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1406278-001E	MW-22_06112014	6/11/2014 1300h	Aqueous	Ion Balance
	1406278-001E	MW-22_06112014	6/11/2014 1300h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1406278-001E	MW-22_06112014	6/11/2014 1300h	Aqueous	ICPMS Metals, Dissolved
	1406278-001E	MW-22_06112014	6/11/2014 1300h	Aqueous	Mercury, Drinking Water Dissolved
Kyle F. Gross	1406278-002A	MW-23_06112014	6/11/2014 900h	Aqueous	VOA by GC/MS Method 8260C/5030C
Laboratory Director	1406278-002B	MW-23_06112014	6/11/2014 900h	Aqueous	Anions, E300.0
	1406278-002B	MW-23_06112014	6/11/2014 900h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Jose Rocha	1406278-002C	MW-23_06112014	6/11/2014 900h	Aqueous	Total Dissolved Solids, A2540C
QA Officer	1406278-002D	MW-23_06112014	6/11/2014 900h	Aqueous	Ammonia, Aqueous
	1406278-002D	MW-23_06112014	6/11/2014 900h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406278-002E	MW-23_06112014	6/11/2014 900h	Aqueous	Ion Balance
	1406278-002E	MW-23_06112014	6/11/2014 900h	Aqueous	ICP Metals, Dissolved
	1406278-002E	MW-23_06112014	6/11/2014 900h	Aqueous	ICPMS Metals, Dissolved
	1406278-002E	MW-23_06112014	6/11/2014 900h	Aqueous	Mercury, Drinking Water Dissolved
	1406278-003A	MW-70_06112014	6/11/2014 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406278-003B	MW-70_06112014	6/11/2014 1300h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
	1406278-003B	MW-70_06112014	6/11/2014 1300h	Aqueous	Anions, E300.0
	1406278-003C	MW-70_06112014	6/11/2014 1300h	Aqueous	Total Dissolved Solids, A2540C
	1406278-003D	MW-70_06112014	6/11/2014 1300h	Aqueous	Ammonia, Aqueous
	1406278-003D	MW-70_06112014	6/11/2014 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406278-003E	MW-70_06112014	6/11/2014 1300h	Aqueous	Ion Balance
	1406278-003E	MW-70_06112014	6/11/2014 1300h	Aqueous	ICP Metals, Dissolved
	1406278-003E	MW-70_06112014	6/11/2014 1300h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406278  
**Date Received:** 6/13/2014 1010h

**Contact:** Garrin Palmer

463 West 3600 South  
Salt Lake City, UT 84115

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1406278-003E	MW-70_06112014	6/11/2014 1300h	Aqueous	Mercury, Drinking Water Dissolved
1406278-004A	Trip Blank	6/11/2014	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 2014  
**Lab Set ID:** 1406278

463 West 3600 South  
 Salt Lake City, UT 84115

### Sample Receipt Information:

**Date of Receipt:** 6/13/2014  
**Date(s) of Collection:** 6/11/2014  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

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 Toll Free: (888) 263-8686  
 Fax: (801) 263-8687  
 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.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Kyle F. Gross  
 Laboratory Director

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD, DUP;

Jose Rocha  
 QA Officer

**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
1406278-001D	Ammonia	MS/MSD	Sample matrix interference
1406278-001E	Calcium	MS/MSD	High analyte concentration
1406278-001E	Magnesium	MS/MSD	High analyte concentration
1406278-001E	Sodium	MS/MSD	High analyte concentration
1406278-001E	Manganese	MS/MSD	High analyte concentration
1406278-002D	Nitrate-Nitrite (as N)	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 2014  
**Lab Set ID:** 1406278

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

<b>Date of Receipt:</b>	6/13/2014
<b>Date(s) of Collection:</b>	6/11/2014
<b>Sample Condition:</b>	Intact
<b>C-O-C Discrepancies:</b>	None
<b>Method:</b>	SW-846 8260C/5030C
<b>Analysis:</b>	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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Salt Lake City, UT 84115

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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-32949</b>													
Date Analyzed:		06/17/2014 1701h											
Test Code:		200.7-DIS											
Date Prepared:		06/13/2014 1210h											
Calcium	9.75	mg/L	E200.7	0.00892	1.00	10.00	0	97.5	85 - 115				
Magnesium	10.2	mg/L	E200.7	0.0389	1.00	10.00	0	102	85 - 115				
Potassium	10.1	mg/L	E200.7	0.0721	1.00	10.00	0	101	85 - 115				
Sodium	10.2	mg/L	E200.7	0.0269	1.00	10.00	0	102	85 - 115				
Vanadium	0.196	mg/L	E200.7	0.000596	0.00500	0.2000	0	98.1	85 - 115				
Zinc	1.01	mg/L	E200.7	0.00448	0.0100	1.000	0	101	85 - 115				
<b>Lab Sample ID: LCS-32951</b>													
Date Analyzed:		06/16/2014 1442h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Arsenic	0.197	mg/L	E200.8	0.000802	0.00200	0.2000	0	98.3	85 - 115				
Cadmium	0.199	mg/L	E200.8	0.0000598	0.000500	0.2000	0	99.4	85 - 115				
Chromium	0.200	mg/L	E200.8	0.000608	0.00200	0.2000	0	100	85 - 115				
Cobalt	0.203	mg/L	E200.8	0.000124	0.00400	0.2000	0	102	85 - 115				
Copper	0.204	mg/L	E200.8	0.00149	0.00200	0.2000	0	102	85 - 115				
Manganese	0.206	mg/L	E200.8	0.00175	0.00200	0.2000	0	103	85 - 115				
Molybdenum	0.197	mg/L	E200.8	0.000806	0.00200	0.2000	0	98.6	85 - 115				
Nickel	0.204	mg/L	E200.8	0.00175	0.00200	0.2000	0	102	85 - 115				
Tin	0.998	mg/L	E200.8	0.000482	0.00200	1.000	0	99.8	85 - 115				
<b>Lab Sample ID: LCS-32951</b>													
Date Analyzed:		06/17/2014 320h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Beryllium	0.209	mg/L	E200.8	0.0000950	0.00200	0.2000	0	104	85 - 115				
Iron	0.991	mg/L	E200.8	0.0304	0.100	1.000	0	99.1	85 - 115				
Lead	0.198	mg/L	E200.8	0.000726	0.00200	0.2000	0	99.2	85 - 115				
Selenium	0.196	mg/L	E200.8	0.000644	0.00200	0.2000	0	98.1	85 - 115				
Silver	0.197	mg/L	E200.8	0.000504	0.00200	0.2000	0	98.5	85 - 115				
Uranium	0.200	mg/L	E200.8	0.0000336	0.00200	0.2000	0	99.9	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:** 1406278

**Project:** 2nd Quarter Groundwater 2014

**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-32951	Date Analyzed:	06/18/2014	1425h										
Test Code:	200.8-DIS	Date Prepared:	06/13/2014	1210h									
Thallium	0.191	mg/L	E200.8	0.0000788	0.00200	0.2000	0	95.4	85 - 115				
<b>Lab Sample ID:</b> LCS-32963	Date Analyzed:	06/16/2014	1146h										
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	06/13/2014	1450h									
Mercury	0.00328	mg/L	E245.1	0.00000675	0.000150	0.003330	0	98.5	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:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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-32949</b>													
Date Analyzed: 06/17/2014 1659h													
Test Code: 200.7-DIS													
Date Prepared: 06/13/2014 1210h													
Calcium	< 1.00	mg/L	E200.7	0.00892	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0389	1.00								
Potassium	< 1.00	mg/L	E200.7	0.0721	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0269	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.000596	0.00500								
Zinc	< 0.0100	mg/L	E200.7	0.00448	0.0100								
<b>Lab Sample ID: MB-32951</b>													
Date Analyzed: 06/16/2014 1436h													
Test Code: 200.8-DIS													
Date Prepared: 06/13/2014 1210h													
Arsenic	< 0.00200	mg/L	E200.8	0.000802	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000598	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000608	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000124	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.00149	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000806	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000482	0.00200								
<b>Lab Sample ID: MB-32951</b>													
Date Analyzed: 06/17/2014 314h													
Test Code: 200.8-DIS													
Date Prepared: 06/13/2014 1210h													
Selenium	< 0.00200	mg/L	E200.8	0.000644	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000504	0.00200								
<b>Lab Sample ID: MB-32951</b>													
Date Analyzed: 06/17/2014 423h													
Test Code: 200.8-DIS													
Date Prepared: 06/13/2014 1210h													
Beryllium	< 0.000500	mg/L	E200.8	0.0000238	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00760	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.000182	0.000500								



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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-32951	Date Analyzed:	06/17/2014	503h										
Test Code:	200.8-DIS	Date Prepared:	06/13/2014	1210h									
Uranium	< 0.000200	mg/L	E200.8	0.00000336	0.000200								
<b>Lab Sample ID:</b> MB-32951	Date Analyzed:	06/18/2014	1247h										
Test Code:	200.8-DIS	Date Prepared:	06/13/2014	1210h									
Thallium	< 0.000500	mg/L	E200.8	0.0000197	0.000500								
<b>Lab Sample ID:</b> MB-32963	Date Analyzed:	06/16/2014	1144h										
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	06/13/2014	1450h									
Mercury	< 0.000150	mg/L	E245.1	0.00000675	0.000150								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406278-001EMS</b>													
Date Analyzed:		06/17/2014 1708h											
Test Code:		200.7-DIS											
Date Prepared:		06/13/2014 1210h											
Calcium	422	mg/L	E200.7	0.446	50.0	10.00	400	225	70 - 130				
Magnesium	1,180	mg/L	E200.7	1.95	50.0	10.00	1120	654	70 - 130				
Sodium	285	mg/L	E200.7	1.34	50.0	10.00	267	182	70 - 130				
<b>Lab Sample ID: 1406278-001EMS</b>													
Date Analyzed:		06/17/2014 1854h											
Test Code:		200.7-DIS											
Date Prepared:		06/13/2014 1210h											
Vanadium	0.189	mg/L	E200.7	0.000596	0.00500	0.2000	0	94.4	70 - 130				
Zinc	2.61	mg/L	E200.7	0.00448	0.0100	1.000	1.47	114	70 - 130				
<b>Lab Sample ID: 1406278-001EMS</b>													
Date Analyzed:		06/19/2014 1148h											
Test Code:		200.7-DIS											
Date Prepared:		06/13/2014 1210h											
Potassium	31.9	mg/L	E200.7	0.360	5.00	10.00	20.9	109	70 - 130				
<b>Lab Sample ID: 1406278-001EMS</b>													
Date Analyzed:		06/16/2014 1454h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Arsenic	0.188	mg/L	E200.8	0.000802	0.00200	0.2000	0.00101	93.3	75 - 125				
Cadmium	0.372	mg/L	E200.8	0.0000598	0.000500	0.2000	0.169	101	75 - 125				
Chromium	0.199	mg/L	E200.8	0.000608	0.00200	0.2000	0	99.5	75 - 125				
Cobalt	0.725	mg/L	E200.8	0.000124	0.00400	0.2000	0.513	106	75 - 125				
Copper	0.315	mg/L	E200.8	0.00149	0.00200	0.2000	0.12	97.4	75 - 125				
Molybdenum	0.395	mg/L	E200.8	0.000806	0.00200	0.2000	0.183	106	75 - 125				
Nickel	0.520	mg/L	E200.8	0.00175	0.00200	0.2000	0.316	102	75 - 125				
Tin	0.996	mg/L	E200.8	0.000482	0.00200	1.000	0.00208	99.4	75 - 125				
<b>Lab Sample ID: 1406278-001EMS</b>													
Date Analyzed:		06/16/2014 2017h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Manganese	49.5	mg/L	E200.8	0.0875	0.100	0.2000	46.5	1,500	75 - 125				



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**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406278-001EMS</b>													
Date Analyzed:		06/17/2014 343h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Beryllium	0.223	mg/L	E200.8	0.0000950	0.00200	0.2000	0.0155	104	75 - 125				
Iron	1.04	mg/L	E200.8	0.0304	0.100	1.000	0.0698	96.8	75 - 125				
Lead	0.195	mg/L	E200.8	0.000726	0.00200	0.2000	0.0068	94.2	75 - 125				
Selenium	0.224	mg/L	E200.8	0.000644	0.00200	0.2000	0.0169	103	75 - 125				
Silver	0.186	mg/L	E200.8	0.000504	0.00200	0.2000	0	92.8	75 - 125				
Uranium	0.231	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0332	98.9	75 - 125				
<b>Lab Sample ID: 1406278-001EMS</b>													
Date Analyzed:		06/18/2014 1430h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Thallium	0.187	mg/L	E200.8	0.0000788	0.00200	0.2000	0.00144	92.9	75 - 125				
<b>Lab Sample ID: 1406278-001EMS</b>													
Date Analyzed:		06/16/2014 1152h											
Test Code:		Hg-DW-DIS-245.1											
Date Prepared:		06/13/2014 1450h											
Mercury	0.00342	mg/L	E245.1	0.00000675	0.000150	0.003330	0	103	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:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406278-001EMSD</b>													
Date Analyzed:		06/17/2014 1709h											
Test Code:		200.7-DIS											
Date Prepared:		06/13/2014 1210h											
Calcium	419	mg/L	E200.7	0.446	50.0	10.00	400	190	70 - 130	422	0.827	20	2
Magnesium	1,170	mg/L	E200.7	1.95	50.0	10.00	1120	559	70 - 130	1180	0.809	20	2
Sodium	282	mg/L	E200.7	1.34	50.0	10.00	267	151	70 - 130	285	1.09	20	2
<b>Lab Sample ID: 1406278-001EMSD</b>													
Date Analyzed:		06/17/2014 1856h											
Test Code:		200.7-DIS											
Date Prepared:		06/13/2014 1210h											
Vanadium	0.187	mg/L	E200.7	0.000596	0.00500	0.2000	0	93.3	70 - 130	0.189	1.19	20	
Zinc	2.59	mg/L	E200.7	0.00448	0.0100	1.000	1.47	112	70 - 130	2.61	0.918	20	
<b>Lab Sample ID: 1406278-001EMSD</b>													
Date Analyzed:		06/19/2014 1150h											
Test Code:		200.7-DIS											
Date Prepared:		06/13/2014 1210h											
Potassium	31.9	mg/L	E200.7	0.360	5.00	10.00	20.9	109	70 - 130	31.9	0.0995	20	
<b>Lab Sample ID: 1406278-001EMSD</b>													
Date Analyzed:		06/16/2014 1500h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Arsenic	0.186	mg/L	E200.8	0.000802	0.00200	0.2000	0.00101	92.4	75 - 125	0.188	0.988	20	
Cadmium	0.366	mg/L	E200.8	0.0000598	0.000500	0.2000	0.169	98.1	75 - 125	0.372	1.80	20	
Chromium	0.197	mg/L	E200.8	0.000608	0.00200	0.2000	0	98.4	75 - 125	0.199	1.02	20	
Cobalt	0.722	mg/L	E200.8	0.000124	0.00400	0.2000	0.513	105	75 - 125	0.725	0.508	20	
Copper	0.311	mg/L	E200.8	0.00149	0.00200	0.2000	0.12	95.3	75 - 125	0.315	1.30	20	
Molybdenum	0.394	mg/L	E200.8	0.000806	0.00200	0.2000	0.183	106	75 - 125	0.395	0.438	20	
Nickel	0.515	mg/L	E200.8	0.00175	0.00200	0.2000	0.316	99.4	75 - 125	0.52	1.01	20	
Tin	0.990	mg/L	E200.8	0.000482	0.00200	1.000	0.00208	98.8	75 - 125	0.996	0.545	20	
<b>Lab Sample ID: 1406278-001EMSD</b>													
Date Analyzed:		06/16/2014 2023h											
Test Code:		200.8-DIS											
Date Prepared:		06/13/2014 1210h											
Manganese	49.9	mg/L	E200.8	0.0875	0.100	0.2000	46.5	1,690	75 - 125	49.5	0.774	20	2



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406278-001EMSD</b>													
Date Analyzed: 06/17/2014 349h													
Test Code: 200.8-DIS													
Date Prepared: 06/13/2014 1210h													
Beryllium	0.220	mg/L	E200.8	0.0000950	0.00200	0.2000	0.0155	102	75 - 125	0.223	1.37	20	
Iron	1.01	mg/L	E200.8	0.0304	0.100	1.000	0.0698	94.3	75 - 125	1.04	2.40	20	
Lead	0.192	mg/L	E200.8	0.000726	0.00200	0.2000	0.0068	92.5	75 - 125	0.195	1.84	20	
Selenium	0.219	mg/L	E200.8	0.000644	0.00200	0.2000	0.0169	101	75 - 125	0.224	2.23	20	
Silver	0.182	mg/L	E200.8	0.000504	0.00200	0.2000	0	91.0	75 - 125	0.186	1.93	20	
Uranium	0.227	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0332	97.1	75 - 125	0.231	1.56	20	
<b>Lab Sample ID: 1406278-001EMSD</b>													
Date Analyzed: 06/18/2014 1436h													
Test Code: 200.8-DIS													
Date Prepared: 06/13/2014 1210h													
Thallium	0.185	mg/L	E200.8	0.0000788	0.00200	0.2000	0.00144	91.9	75 - 125	0.187	1.11	20	
<b>Lab Sample ID: 1406278-001EMSD</b>													
Date Analyzed: 06/16/2014 1154h													
Test Code: Hg-DW-DIS-245.I													
Date Prepared: 06/13/2014 1450h													
Mercury	0.00318	mg/L	E245.1	0.00000675	0.000150	0.003330	0	95.4	85 - 115	0.00342	7.28	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:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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> 1406278-001CDUP		Date Analyzed: 06/17/2014 1200h											
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	8,680	mg/L	SM2540C	21.7	100					8560	1.39	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1406278

**Project:** 2nd Quarter Groundwater 2014

**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: LCS-R70694</b> Date Analyzed: 06/20/2014 1200h													
Test Code: 300.0-W													
Sulfate	5.41	mg/L	E300.0	0.0331	0.750	5.000	0	108	90 - 110				
<b>Lab Sample ID: LCS-R70763</b> Date Analyzed: 06/23/2014 958h													
Test Code: 300.0-W													
Chloride	4.95	mg/L	E300.0	0.00623	0.100	5.000	0	99.0	90 - 110				
Fluoride	5.13	mg/L	E300.0	0.00510	0.100	5.000	0	103	90 - 110				
<b>Lab Sample ID: LCS-R70440</b> Date Analyzed: 06/17/2014 956h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	51,000	mg/L	SM2320B	0.719	10.0	50,000	0	102	90 - 110				
<b>Lab Sample ID: LCS-R70809</b> Date Analyzed: 06/25/2014 600h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.719	10.0	50,000	0	100	90 - 110				
<b>Lab Sample ID: LCS-33143</b> Date Analyzed: 06/24/2014 1947h													
Test Code: NH3-W-350.1 Date Prepared: 06/24/2014 1700h													
Ammonia (as N)	0.978	mg/L	E350.1	0.0214	0.0500	1.000	0	97.8	90 - 110				
<b>Lab Sample ID: LCS-R70326</b> Date Analyzed: 06/14/2014 1829h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.990	mg/L	E353.2	0.00368	0.0100	1.000	0	99.0	90 - 110				
<b>Lab Sample ID: LCS-R70410</b> Date Analyzed: 06/13/2014 1900h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	200	mg/L	SM2540C	2.17	10.0	205.0	0	97.6	80 - 120				
<b>Lab Sample ID: LCS-R70515</b> Date Analyzed: 06/17/2014 1200h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	190	mg/L	SM2540C	2.17	10.0	205.0	0	92.7	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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-R70694</b> Date Analyzed: 06/20/2014 1144h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R70763</b> Date Analyzed: 06/23/2014 942h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
<b>Lab Sample ID: MB-R70440</b> Date Analyzed: 06/17/2014 956h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
<b>Lab Sample ID: MB-R70809</b> Date Analyzed: 06/25/2014 600h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
<b>Lab Sample ID: MB-33143</b> Date Analyzed: 06/24/2014 1946h													
Test Code: NH3-W-350.1      Date Prepared: 06/24/2014 1700h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0214	0.0500								
<b>Lab Sample ID: MB-R70326</b> Date Analyzed: 06/14/2014 1828h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00368	0.0100								
<b>Lab Sample ID: MB-R70410</b> Date Analyzed: 06/13/2014 1900h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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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:</b> MB-R70515		Date Analyzed: 06/17/2014 1200h											
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	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: 1406278-003BMS</b> Date Analyzed: 06/20/2014 1952h													
Test Code: 300.0-W													
Sulfate	12,300	mg/L	E300.0	33.1	750	5,000	6830	109	90 - 110				
<b>Lab Sample ID: 1406278-002BMS</b> Date Analyzed: 06/23/2014 1236h													
Test Code: 300.0-W													
Chloride	56.9	mg/L	E300.0	0.0623	1.00	50.00	7.44	98.9	90 - 110				
Fluoride	50.6	mg/L	E300.0	0.0510	1.00	50.00	0.517	100	90 - 110				
<b>Lab Sample ID: 1406278-001BMS</b> Date Analyzed: 06/17/2014 956h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	78.8	mg/L	SM2320B	0.719	10.0	50.00	30.4	96.8	80 - 120				
<b>Lab Sample ID: 1406278-003BMS</b> Date Analyzed: 06/25/2014 600h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	60.9	mg/L	SM2320B	0.719	10.0	50.00	1.8	118	80 - 120				
<b>Lab Sample ID: 1406278-001DMS</b> Date Analyzed: 06/24/2014 1949h													
Test Code: NH3-W-350.1 Date Prepared: 06/24/2014 1700h													
Ammonia (as N)	1.35	mg/L	E350.1	0.0214	0.0500	1.000	0.534	81.8	90 - 110				
<b>Lab Sample ID: 1406278-002DMS</b> Date Analyzed: 06/14/2014 1906h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.07	mg/L	E353.2	0.00368	0.0100	1.000	0.195	87.2	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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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406278-003BMSD</b> Date Analyzed: 06/20/2014 2008h													
Test Code: 300.0-W													
Sulfate	12,200	mg/L	E300.0	33.1	750	5,000	6830	108	90 - 110	12300	0.327	20	
<b>Lab Sample ID: 1406278-002BMSD</b> Date Analyzed: 06/23/2014 1252h													
Test Code: 300.0-W													
Chloride	57.0	mg/L	E300.0	0.0623	1.00	50.00	7.44	99.1	90 - 110	56.9	0.187	20	
Fluoride	50.6	mg/L	E300.0	0.0510	1.00	50.00	0.517	100	90 - 110	50.6	0.0773	20	
<b>Lab Sample ID: 1406278-001BMSD</b> Date Analyzed: 06/17/2014 956h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	80.6	mg/L	SM2320B	0.719	10.0	50.00	30.4	100	80 - 120	78.8	2.26	10	
<b>Lab Sample ID: 1406278-003BMSD</b> Date Analyzed: 06/25/2014 600h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO <sub>3</sub> )	60.0	mg/L	SM2320B	0.719	10.0	50.00	1.8	116	80 - 120	60.9	1.49	10	
<b>Lab Sample ID: 1406278-001DMSD</b> Date Analyzed: 06/24/2014 1950h													
Test Code: NH3-W-350.1 Date Prepared: 06/24/2014 1700h													
Ammonia (as N)	1.26	mg/L	E350.1	0.0214	0.0500	1.000	0.534	73.1	90 - 110	1.35	6.61	10	1
<b>Lab Sample ID: 1406278-002DMSD</b> Date Analyzed: 06/14/2014 1908h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.07	mg/L	E353.2	0.00368	0.0100	1.000	0.195	87.8	90 - 110	1.07	0.551	10	1

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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-C 061314A		<b>Date Analyzed:</b> 06/13/2014 726h											
<b>Test Code:</b> 8260-W													
Benzene	19.6	µg/L	SW8260C	0.0859	2.00	20.00	0	98.0	62 - 127				
Chloroform	19.9	µg/L	SW8260C	0.626	2.00	20.00	0	99.7	67 - 132				
Methylene chloride	20.0	µg/L	SW8260C	0.321	2.00	20.00	0	99.8	32 - 185				
Naphthalene	18.0	µg/L	SW8260C	0.315	2.00	20.00	0	89.8	28 - 136				
Tetrahydrofuran	17.1	µg/L	SW8260C	0.214	2.00	20.00	0	85.5	43 - 146				
Toluene	19.4	µg/L	SW8260C	0.206	2.00	20.00	0	97.0	64 - 129				
Xylenes, Total	60.6	µg/L	SW8260C	0.333	2.00	60.00	0	101	52 - 134				
Surr: 1,2-Dichloroethane-d4	53.4	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	48.9	µg/L	SW8260C			50.00		97.7	77 - 121				
Surr: Dibromofluoromethane	51.6	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	49.5	µg/L	SW8260C			50.00		99.0	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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-C 061314A</b>		Date Analyzed: 06/13/2014 804h											
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	1.01	10.0								
Acetone	< 10.0	µg/L	SW8260C	3.62	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.0859	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.738	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.214	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.315	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.214	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.206	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.333	1.00								
Surr: 1,2-Dichloroethane-d4	53.5	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	50.1	µg/L	SW8260C			50.00		100	77 - 121				
Surr: Dibromofluoromethane	50.0	µg/L	SW8260C			50.00		99.9	67 - 128				
Surr: Toluene-d8	50.2	µg/L	SW8260C			50.00		100	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406278-001AMS</b>		<b>Date Analyzed: 06/13/2014 1243h</b>											
<b>Test Code: 8260-W</b>													
Benzene	20.1	µg/L	SW8260C	0.0859	2.00	20.00	0	100	66 - 145				
Chloroform	20.7	µg/L	SW8260C	0.626	2.00	20.00	0	103	50 - 146				
Methylene chloride	20.6	µg/L	SW8260C	0.321	2.00	20.00	0	103	30 - 192				
Naphthalene	17.1	µg/L	SW8260C	0.315	2.00	20.00	0	85.7	41 - 131				
Tetrahydrofuran	26.1	µg/L	SW8260C	0.214	2.00	20.00	0	130	43 - 146				
Toluene	19.4	µg/L	SW8260C	0.206	2.00	20.00	0	97.3	18 - 192				
Xylenes, Total	59.2	µg/L	SW8260C	0.333	2.00	60.00	0	98.6	42 - 167				
Surr: 1,2-Dichloroethane-d4	56.9	µg/L	SW8260C			50.00		114	72 - 151				
Surr: 4-Bromofluorobenzene	48.9	µg/L	SW8260C			50.00		97.8	80 - 128				
Surr: Dibromofluoromethane	52.4	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.1	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406278  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406278-001AMSD</b>		<b>Date Analyzed: 06/13/2014 1302h</b>											
<b>Test Code: 8260-W</b>													
Benzene	20.8	µg/L	SW8260C	0.0859	2.00	20.00	0	104	66 - 145	20.1	3.28	25	
Chloroform	21.5	µg/L	SW8260C	0.626	2.00	20.00	0	107	50 - 146	20.7	3.85	25	
Methylene chloride	21.2	µg/L	SW8260C	0.321	2.00	20.00	0	106	30 - 192	20.7	2.77	25	
Naphthalene	17.9	µg/L	SW8260C	0.315	2.00	20.00	0	89.5	41 - 131	17.1	4.34	25	
Tetrahydrofuran	26.0	µg/L	SW8260C	0.214	2.00	20.00	0	130	43 - 146	26.1	0.231	25	
Toluene	20.1	µg/L	SW8260C	0.206	2.00	20.00	0	101	18 - 192	19.5	3.39	25	
Xylenes, Total	61.4	µg/L	SW8260C	0.333	2.00	60.00	0	102	42 - 167	59.2	3.68	25	
Surr: 1,2-Dichloroethane-d4	55.4	µg/L	SW8260C			50.00		111	72 - 151				
Surr: 4-Bromofluorobenzene	49.1	µg/L	SW8260C			50.00		98.2	80 - 128				
Surr: Dibromofluoromethane	53.2	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	48.9	µg/L	SW8260C			50.00		97.8	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1406278** Page 1 of 3

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/24/2014

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2014

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume. 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.; Run Fe by 200.8 for necessary reporting limits. Samples for metals have been field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406278-001A	MW-22_06112014	6/11/2014 1300h	6/13/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1406278-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1406278-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1406278-001D				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>				
1406278-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-met	
				<i>6 SEL Analytes: CA MG K NA V ZN</i>				
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS		<input checked="" type="checkbox"/>	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		<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>				
1406278-002A	MW-23_06112014	6/11/2014 0900h	6/13/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1406278-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				

6/13/14

# WORK ORDER Summary

Work Order: **1406278** Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 6/24/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406278-002C	MW-23_06112014	6/11/2014 0900h	6/13/2014 1010h	TDS-W-2540C <i>1 SEL Analytes: TDS</i>	Aqueous	<input checked="" type="checkbox"/>	ww - tds	1
1406278-002D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1406278-002E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	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>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-met	
1406278-003A	MW-70_06112014	6/11/2014 1300h	6/13/2014 1010h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
1406278-003B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc	1
				ALK-W-2320B <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc	
1406278-003C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1406278-003D				NH3-W-350.1 <i>1 SEL Analytes: NH3N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NH3-W-PR <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3	
1406278-003E				200.7-DIS <i>6 SEL Analytes: CA MG K NA V ZN</i>		<input checked="" type="checkbox"/>	df-met	
				200.7-DIS-PR		<input checked="" type="checkbox"/>	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>		<input checked="" type="checkbox"/>	df-met	
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-met	

# WORK ORDER Summary

Work Order: **1406278** Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 6/24/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406278-003E	MW-70_06112014	6/11/2014 1300h	6/13/2014 1010h	HG-DW-DIS-PR	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1406278-004A	Trip Blank	6/11/2014	6/13/2014 1010h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				



# 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.

1406278  
 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 2014**  
 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 (1500 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		
														INCLUDE EDD: LOCUS UPLOAD EXCEL FIELD FILTERED FOR: Dissolved Metals	SAMPLES WERE:	
														FOR COMPLIANCE WITH:		
														KNOWN HAZARDS & SAMPLE COMMENTS		
1	MW-22_06112014	6/11/2014	1300	7	W	X	X	X	X	X	X	X	X	X	X	1 SHIPPED OR HAND DELIVERED 2 AMBIENT OR CHILLED 3 TEMPERATURE <u>0.6</u> °C 4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) 5 PROPERLY PRESERVED 6 RECEIVED WITHIN HOLDING TIMES
2	MW-23_06112014	6/11/2014	900	7	W	X	X	X	X	X	X	X	X	X	X	1 PRESENT ON OUTER PACKAGE 2 UNBROKEN ON OUTER PACKAGE 3 PRESENT ON SAMPLE 4 UNBROKEN ON SAMPLE
3	MW-70_06112014	6/11/2014	1300	7	W	X	X	X	X	X	X	X	X	X	X	DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD?
4	TRIP BLANK	6/11/2014		3	W											
5	TEMP BLANK	6/12/2014		1	W											
6																
7																
8																
9																
10																
11																
12																

RELINQUISHED BY: SIGNATURE: <i>Tanner Holliday</i>	DATE: 6/12/2014	RECEIVED BY: SIGNATURE: <i>Selma Hay</i>	DATE: 6/13/14
PRINT NAME: Tanner Holliday	TIME: 10:30	PRINT NAME: Selma Hay	TIME: 10:00
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:

SPECIAL INSTRUCTIONS:  
 Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3														
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																	
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 2014

Dear Garrin Palmer:

Lab Set ID: 1406404

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 4 sample(s) on 6/19/2014 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.

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=Quality Assurance Officer, email=jose@awal-labs.com, c=US
	Date: 2014.06.30 12:48:45 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406404  
**Date Received:** 6/19/2014 900h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
463 West 3600 South Salt Lake City, UT 84115	1406404-001A MW-20_06182014	6/18/2014 850h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406404-001B MW-20_06182014	6/18/2014 850h	Aqueous	Anions, E300.0
	1406404-001B MW-20_06182014	6/18/2014 850h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Phone: (801) 263-8686	1406404-001C MW-20_06182014	6/18/2014 850h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1406404-001D MW-20_06182014	6/18/2014 850h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1406404-001D MW-20_06182014	6/18/2014 850h	Aqueous	Ammonia, Aqueous
e-mail: awal@awal-labs.com	1406404-001E MW-20_06182014	6/18/2014 850h	Aqueous	Ion Balance
	1406404-001E MW-20_06182014	6/18/2014 850h	Aqueous	ICP Metals, Dissolved
web: www.awal-labs.com	1406404-001E MW-20_06182014	6/18/2014 850h	Aqueous	ICPMS Metals, Dissolved
	1406404-001E MW-20_06182014	6/18/2014 850h	Aqueous	Mercury, Drinking Water Dissolved
Kyle F. Gross Laboratory Director	1406404-002A MW-37_06182014	6/18/2014 830h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406404-002B MW-37_06182014	6/18/2014 830h	Aqueous	Anions, E300.0
	1406404-002B MW-37_06182014	6/18/2014 830h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
Jose Rocha QA Officer	1406404-002C MW-37_06182014	6/18/2014 830h	Aqueous	Total Dissolved Solids, A2540C
	1406404-002D MW-37_06182014	6/18/2014 830h	Aqueous	Ammonia, Aqueous
	1406404-002D MW-37_06182014	6/18/2014 830h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406404-002E MW-37_06182014	6/18/2014 830h	Aqueous	Ion Balance
	1406404-002E MW-37_06182014	6/18/2014 830h	Aqueous	ICP Metals, Dissolved
	1406404-002E MW-37_06182014	6/18/2014 830h	Aqueous	ICPMS Metals, Dissolved
	1406404-002E MW-37_06182014	6/18/2014 830h	Aqueous	Mercury, Drinking Water Dissolved
	1406404-003A MW-28_06182014	6/18/2014 1330h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1406404-003B MW-28_06182014	6/18/2014 1330h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
	1406404-003B MW-28_06182014	6/18/2014 1330h	Aqueous	Anions, E300.0
	1406404-003C MW-28_06182014	6/18/2014 1330h	Aqueous	Total Dissolved Solids, A2540C
	1406404-003D MW-28_06182014	6/18/2014 1330h	Aqueous	Ammonia, Aqueous
	1406404-003D MW-28_06182014	6/18/2014 1330h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1406404-003E MW-28_06182014	6/18/2014 1330h	Aqueous	Ion Balance
	1406404-003E MW-28_06182014	6/18/2014 1330h	Aqueous	ICP Metals, Dissolved
	1406404-003E MW-28_06182014	6/18/2014 1330h	Aqueous	ICPMS Metals, Dissolved



**Client:** Energy Fuels Resources, Inc.  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406404  
**Date Received:** 6/19/2014 900h

**Contact:** Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1406404-003E	MW-28_06182014	6/18/2014 1330h	Aqueous	Mercury, Drinking Water Dissolved
1406404-004A	Trip Blank	6/18/2014	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 2014  
**Lab Set ID:** 1406404

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 6/19/2014  
**Date(s) of Collection:** 6/18/2014  
**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
1406403-001D	Ammonia (as N)	MS	Sample matrix interference
1406403-001E	Calcium	MSD	High analyte concentration
1406403-001E	Magnesium	MS/MSD	Sample matrix interference
1406403-001E	Sodium	MSD	High analyte concentration
1406404-001E	Arsenic	MSD	Sample matrix interference
1406404-001E	Beryllium	MSD/RPD	Sample non-homogeneity or matrix interference
1406404-001E	Cadmium	RPD	Sample non-homogeneity or matrix interference
1406404-001E	Calcium	MS/MSD	High analyte concentration
1406404-001E	Lead	RPD	Sample non-homogeneity or matrix interference



Sample ID	Analyte	QC	Explanation
1406404-001E	Molybdenum	MSD/RPD	Sample non-homogeneity or matrix interference
1406404-001E	Selenium	MSD	Sample matrix interference
1406404-001E	Silver	RPD	Sample non-homogeneity or matrix interference
1406404-001E	Sodium	MS/MSD	High analyte concentration
1406404-001E	Thallium	RPD	Sample non-homogeneity or matrix interference
1406404-001E	Uranium	MSD/RPD	Sample non-homogeneity or matrix interference

**Duplicate (DUP):** The parameters that required a duplicate analysis had RPDs within the control limits, with the following exception: On samples 1406403-001C and 1406404-001C, high RPDs were observed on Total Dissolved Solids due to suspected sample non-homogeneity of matrix interference.

**Corrective Action:** None required.

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** 2nd Quarter Groundwater 2014  
**Lab Set ID:** 1406404

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 6/19/2014  
**Date(s) of Collection:** 6/18/2014  
**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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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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-33054</b>													
Date Analyzed:		06/25/2014 957h											
Test Code:		200.7-DIS											
Date Prepared:		06/19/2014 1230h											
Calcium	9.56	mg/L	E200.7	0.00892	1.00	10.00	0	95.6	85 - 115				
Magnesium	9.82	mg/L	E200.7	0.0389	1.00	10.00	0	98.2	85 - 115				
Potassium	9.77	mg/L	E200.7	0.0721	1.00	10.00	0	97.7	85 - 115				
Sodium	9.91	mg/L	E200.7	0.0269	1.00	10.00	0	99.1	85 - 115				
Vanadium	0.199	mg/L	E200.7	0.000596	0.00500	0.2000	0	99.4	85 - 115				
Zinc	1.01	mg/L	E200.7	0.00448	0.0100	1.000	0	101	85 - 115				
<b>Lab Sample ID: LCS-33055</b>													
Date Analyzed:		06/23/2014 1713h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Arsenic	0.200	mg/L	E200.8	0.000802	0.00200	0.2000	0	100	85 - 115				
Beryllium	0.206	mg/L	E200.8	0.0000950	0.00200	0.2000	0	103	85 - 115				
Cadmium	0.195	mg/L	E200.8	0.0000598	0.000500	0.2000	0	97.7	85 - 115				
Chromium	0.192	mg/L	E200.8	0.000608	0.00200	0.2000	0	95.8	85 - 115				
Cobalt	0.190	mg/L	E200.8	0.000124	0.00400	0.2000	0	95.0	85 - 115				
Copper	0.194	mg/L	E200.8	0.00149	0.00200	0.2000	0	97.0	85 - 115				
Iron	0.997	mg/L	E200.8	0.0304	0.100	1.000	0	99.7	85 - 115				
Lead	0.197	mg/L	E200.8	0.000726	0.00200	0.2000	0	98.5	85 - 115				
Manganese	0.188	mg/L	E200.8	0.00175	0.00200	0.2000	0	94.0	85 - 115				
Molybdenum	0.206	mg/L	E200.8	0.000806	0.00200	0.2000	0	103	85 - 115				
Nickel	0.190	mg/L	E200.8	0.00175	0.00200	0.2000	0	95.0	85 - 115				
Selenium	0.192	mg/L	E200.8	0.000644	0.00200	0.2000	0	96.2	85 - 115				
Silver	0.196	mg/L	E200.8	0.000504	0.00200	0.2000	0	97.9	85 - 115				
Thallium	0.190	mg/L	E200.8	0.0000788	0.00200	0.2000	0	95.2	85 - 115				
Uranium	0.198	mg/L	E200.8	0.0000336	0.00200	0.2000	0	99.2	85 - 115				
<b>Lab Sample ID: LCS-33055</b>													
Date Analyzed:		06/23/2014 1523h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Tin	0.985	mg/L	E200.8	0.000482	0.00200	1.000	0	98.5	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:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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-33115	Date Analyzed:	06/24/2014	838h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/23/2014	1445h										
Mercury	0.00337	mg/L	E245.1	0.00000675	0.000150	0.003330	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:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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-33054	Date Analyzed:	06/25/2014	955h										
Test Code:	200.7-DIS	Date Prepared:	06/19/2014	1230h									
Calcium	< 1.00	mg/L	E200.7	0.00892	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0389	1.00								
Potassium	< 1.00	mg/L	E200.7	0.0721	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0269	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.000596	0.00500								
Zinc	< 0.0100	mg/L	E200.7	0.00448	0.0100								
<b>Lab Sample ID:</b> MB-33055	Date Analyzed:	06/20/2014	1605h										
Test Code:	200.8-DIS	Date Prepared:	06/19/2014	1230h									
Arsenic	< 0.00200	mg/L	E200.8	0.000802	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.0000598	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.000608	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.000124	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.00149	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000806	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.00175	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000644	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.000504	0.00200								
<b>Lab Sample ID:</b> MB-33055	Date Analyzed:	06/20/2014	1807h										
Test Code:	200.8-DIS	Date Prepared:	06/19/2014	1230h									
Beryllium	< 0.000500	mg/L	E200.8	0.0000238	0.000500								
Lead	< 0.000500	mg/L	E200.8	0.000182	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.0000197	0.000500								
<b>Lab Sample ID:</b> MB-33055	Date Analyzed:	06/23/2014	1747h										
Test Code:	200.8-DIS	Date Prepared:	06/19/2014	1230h									
Uranium	< 0.000200	mg/L	E200.8	0.00000336	0.000200								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.

**Lab Set ID:** 1406404

**Project:** 2nd Quarter Groundwater 2014

**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-33055	Date Analyzed:	06/23/2014	1517h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/19/2014	1230h										
Tin	< 0.00200	mg/L	E200.8	0.000482	0.00200								
<b>Lab Sample ID:</b> MB-33055	Date Analyzed:	06/25/2014	1625h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/19/2014	1230h										
Iron	< 0.0250	mg/L	E200.8	0.00760	0.0250								
<b>Lab Sample ID:</b> MB-33115	Date Analyzed:	06/24/2014	837h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/23/2014	1445h										
Mercury	< 0.000150	mg/L	E245.1	0.00000675	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:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406403-001EMS</b>													
Date Analyzed:		06/25/2014 1129h											
Test Code:		200.7-DIS											
Date Prepared:		06/19/2014 1230h											
Potassium	12.0	mg/L	E200.7	0.0721	1.00	10.00	1.56	104	70 - 130				
Vanadium	0.207	mg/L	E200.7	0.000596	0.00500	0.2000	0.00134	103	70 - 130				
Zinc	1.03	mg/L	E200.7	0.00448	0.0100	1.000	0.00524	103	70 - 130				
<b>Lab Sample ID: 1406404-001EMS</b>													
Date Analyzed:		06/25/2014 1140h											
Test Code:		200.7-DIS											
Date Prepared:		06/19/2014 1230h											
Magnesium	26.8	mg/L	E200.7	0.0389	1.00	10.00	17.3	94.3	70 - 130				
Potassium	36.2	mg/L	E200.7	0.0721	1.00	10.00	26.8	94.1	70 - 130				
Vanadium	0.212	mg/L	E200.7	0.000596	0.00500	0.2000	0.0113	100	70 - 130				
Zinc	1.08	mg/L	E200.7	0.00448	0.0100	1.000	0.00693	107	70 - 130				
<b>Lab Sample ID: 1406403-001EMS</b>													
Date Analyzed:		06/25/2014 1004h											
Test Code:		200.7-DIS											
Date Prepared:		06/19/2014 1230h											
Calcium	111	mg/L	E200.7	0.0892	10.0	10.00	103	78.8	70 - 130				
Magnesium	41.5	mg/L	E200.7	0.389	10.0	10.00	34.9	66.5	70 - 130				
Sodium	87.1	mg/L	E200.7	0.269	10.0	10.00	78.9	81.6	70 - 130				
<b>Lab Sample ID: 1406404-001EMS</b>													
Date Analyzed:		06/25/2014 1024h											
Test Code:		200.7-DIS											
Date Prepared:		06/19/2014 1230h											
Calcium	340	mg/L	E200.7	0.446	50.0	10.00	337	28.0	70 - 130				2
Sodium	1,180	mg/L	E200.7	1.34	50.0	10.00	1190	-117	70 - 130				2
<b>Lab Sample ID: 1406404-001EMS</b>													
Date Analyzed:		06/20/2014 1738h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Arsenic	0.229	mg/L	E200.8	0.000802	0.00200	0.2000	0.00366	113	75 - 125				
Beryllium	0.212	mg/L	E200.8	0.0000950	0.00200	0.2000	0	106	75 - 125				
Cadmium	0.198	mg/L	E200.8	0.0000598	0.000500	0.2000	0	98.9	75 - 125				
Chromium	0.209	mg/L	E200.8	0.000608	0.00200	0.2000	0.00665	101	75 - 125				
Cobalt	0.201	mg/L	E200.8	0.000124	0.00400	0.2000	0	100	75 - 125				
Copper	0.201	mg/L	E200.8	0.00149	0.00200	0.2000	0.00761	96.7	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:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406404-001EMS</b>													
Date Analyzed:		06/20/2014 1738h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Iron	1.05	mg/L	E200.8	0.0304	0.100	1.000	0	105	75 - 125				
Lead	0.193	mg/L	E200.8	0.000726	0.00200	0.2000	0	96.6	75 - 125				
Manganese	0.202	mg/L	E200.8	0.00175	0.00200	0.2000	0	101	75 - 125				
Molybdenum	0.237	mg/L	E200.8	0.000806	0.00200	0.2000	0.0235	107	75 - 125				
Nickel	0.203	mg/L	E200.8	0.00175	0.00200	0.2000	0	102	75 - 125				
Selenium	0.248	mg/L	E200.8	0.000644	0.00200	0.2000	0.00289	123	75 - 125				
Silver	0.187	mg/L	E200.8	0.000504	0.00200	0.2000	0	93.4	75 - 125				
Thallium	0.182	mg/L	E200.8	0.0000788	0.00200	0.2000	0	91.2	75 - 125				
Uranium	0.202	mg/L	E200.8	0.0000336	0.00200	0.2000	0.00193	100	75 - 125				
<b>Lab Sample ID: 1406403-001EMS</b>													
Date Analyzed:		06/23/2014 1719h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Arsenic	0.210	mg/L	E200.8	0.000802	0.00200	0.2000	0.000988	104	75 - 125				
Beryllium	0.210	mg/L	E200.8	0.0000950	0.00200	0.2000	0	105	75 - 125				
Cadmium	0.200	mg/L	E200.8	0.0000598	0.000500	0.2000	0	99.8	75 - 125				
Chromium	0.199	mg/L	E200.8	0.000608	0.00200	0.2000	0	99.3	75 - 125				
Cobalt	0.196	mg/L	E200.8	0.000124	0.00400	0.2000	0.000863	97.5	75 - 125				
Copper	0.202	mg/L	E200.8	0.00149	0.00200	0.2000	0	101	75 - 125				
Iron	1.06	mg/L	E200.8	0.0304	0.100	1.000	0.0372	102	75 - 125				
Lead	0.199	mg/L	E200.8	0.000726	0.00200	0.2000	0	99.6	75 - 125				
Manganese	0.211	mg/L	E200.8	0.00175	0.00200	0.2000	0.0161	97.3	75 - 125				
Molybdenum	0.219	mg/L	E200.8	0.000806	0.00200	0.2000	0.00423	107	75 - 125				
Nickel	0.194	mg/L	E200.8	0.00175	0.00200	0.2000	0	97.2	75 - 125				
Selenium	0.211	mg/L	E200.8	0.000644	0.00200	0.2000	0.0159	97.5	75 - 125				
Silver	0.199	mg/L	E200.8	0.000504	0.00200	0.2000	0	99.3	75 - 125				
Thallium	0.192	mg/L	E200.8	0.0000788	0.00200	0.2000	0	95.9	75 - 125				
Uranium	0.228	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0232	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:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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> 1406403-001EMS	Date Analyzed:	06/23/2014	1535h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/19/2014	1230h										
Tin	1.01	mg/L	E200.8	0.000482	0.00200	1.000	0.00107	101	75 - 125				
<b>Lab Sample ID:</b> 1406404-001EMS	Date Analyzed:	06/23/2014	1610h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	06/19/2014	1230h										
Tin	0.974	mg/L	E200.8	0.000482	0.00200	1.000	0	97.4	75 - 125				
<b>Lab Sample ID:</b> 1406403-001EMS	Date Analyzed:	06/24/2014	845h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/23/2014	1445h										
Mercury	0.00329	mg/L	E245.1	0.00000675	0.000150	0.003330	0	98.9	85 - 115				
<b>Lab Sample ID:</b> 1406404-001EMS	Date Analyzed:	06/24/2014	900h										
<b>Test Code:</b> Hg-DW-DIS-245.1	Date Prepared:	06/23/2014	1445h										
Mercury	0.00338	mg/L	E245.1	0.00000675	0.000150	0.003330	0	102	85 - 115				

<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:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406403-001EMSD</b>													
<b>Test Code:</b> 200.7-DIS		<b>Date Analyzed:</b> 06/25/2014 1131h											
		<b>Date Prepared:</b> 06/19/2014 1230h											
Potassium	11.7	mg/L	E200.7	0.0721	1.00	10.00	1.56	102	70 - 130	12	1.72	20	
Vanadium	0.203	mg/L	E200.7	0.000596	0.00500	0.2000	0.00134	101	70 - 130	0.207	1.77	20	
Zinc	1.02	mg/L	E200.7	0.00448	0.0100	1.000	0.00524	101	70 - 130	1.03	1.46	20	
<b>Lab Sample ID: 1406404-001EMSD</b>													
<b>Test Code:</b> 200.7-DIS		<b>Date Analyzed:</b> 06/25/2014 1141h											
		<b>Date Prepared:</b> 06/19/2014 1230h											
Magnesium	27.5	mg/L	E200.7	0.0389	1.00	10.00	17.3	101	70 - 130	26.8	2.61	20	
Potassium	37.6	mg/L	E200.7	0.0721	1.00	10.00	26.8	108	70 - 130	36.2	3.88	20	
Vanadium	0.218	mg/L	E200.7	0.000596	0.00500	0.2000	0.0113	103	70 - 130	0.212	2.54	20	
Zinc	1.11	mg/L	E200.7	0.00448	0.0100	1.000	0.00693	110	70 - 130	1.08	2.63	20	
<b>Lab Sample ID: 1406403-001EMSD</b>													
<b>Test Code:</b> 200.7-DIS		<b>Date Analyzed:</b> 06/25/2014 1006h											
		<b>Date Prepared:</b> 06/19/2014 1230h											
Calcium	104	mg/L	E200.7	0.0892	10.0	10.00	103	13.3	70 - 130	111	6.10	20	2
Magnesium	39.3	mg/L	E200.7	0.389	10.0	10.00	34.9	43.9	70 - 130	41.5	5.60	20	1
Sodium	82.4	mg/L	E200.7	0.269	10.0	10.00	78.9	34.1	70 - 130	87.1	5.60	20	2
<b>Lab Sample ID: 1406404-001EMSD</b>													
<b>Test Code:</b> 200.7-DIS		<b>Date Analyzed:</b> 06/25/2014 1026h											
		<b>Date Prepared:</b> 06/19/2014 1230h											
Calcium	355	mg/L	E200.7	0.446	50.0	10.00	337	179	70 - 130	340	4.35	20	2
Sodium	1,230	mg/L	E200.7	1.34	50.0	10.00	1190	376	70 - 130	1180	4.08	20	2
<b>Lab Sample ID: 1406404-001EMSD</b>													
<b>Test Code:</b> 200.8-DIS		<b>Date Analyzed:</b> 06/20/2014 1744h											
		<b>Date Prepared:</b> 06/19/2014 1230h											
Arsenic	0.273	mg/L	E200.8	0.000802	0.00200	0.2000	0.00366	135	75 - 125	0.229	17.6	20	1
Beryllium	0.268	mg/L	E200.8	0.0000950	0.00200	0.2000	0	134	75 - 125	0.212	23.3	20	1@
Cadmium	0.249	mg/L	E200.8	0.0000598	0.000500	0.2000	0	125	75 - 125	0.198	22.9	20	@
Chromium	0.250	mg/L	E200.8	0.000608	0.00200	0.2000	0.00665	121	75 - 125	0.209	17.5	20	
Cobalt	0.239	mg/L	E200.8	0.000124	0.00400	0.2000	0	119	75 - 125	0.201	17.5	20	
Copper	0.239	mg/L	E200.8	0.00149	0.00200	0.2000	0.00761	116	75 - 125	0.201	17.3	20	



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406404-001EMSD</b>													
Date Analyzed:		06/20/2014 1744h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Iron	1.25	mg/L	E200.8	0.0304	0.100	1.000	0	125	75 - 125	1.05	17.2	20	
Lead	0.244	mg/L	E200.8	0.000726	0.00200	0.2000	0	122	75 - 125	0.193	23.2	20	@
Manganese	0.239	mg/L	E200.8	0.00175	0.00200	0.2000	0	120	75 - 125	0.202	16.7	20	
Molybdenum	0.302	mg/L	E200.8	0.000806	0.00200	0.2000	0.0235	140	75 - 125	0.237	24.5	20	'@
Nickel	0.240	mg/L	E200.8	0.00175	0.00200	0.2000	0	120	75 - 125	0.203	16.8	20	
Selenium	0.291	mg/L	E200.8	0.000644	0.00200	0.2000	0.00289	144	75 - 125	0.248	15.8	20	'
Silver	0.234	mg/L	E200.8	0.000504	0.00200	0.2000	0	117	75 - 125	0.187	22.5	20	@
Thallium	0.227	mg/L	E200.8	0.0000788	0.00200	0.2000	0	113	75 - 125	0.182	21.7	20	@
Uranium	0.254	mg/L	E200.8	0.0000336	0.00200	0.2000	0.00193	126	75 - 125	0.202	22.6	20	'@
<b>Lab Sample ID: 1406403-001EMSD</b>													
Date Analyzed:		06/23/2014 1725h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Arsenic	0.205	mg/L	E200.8	0.000802	0.00200	0.2000	0.000988	102	75 - 125	0.21	2.32	20	
Beryllium	0.217	mg/L	E200.8	0.0000950	0.00200	0.2000	0	109	75 - 125	0.21	3.19	20	
Cadmium	0.205	mg/L	E200.8	0.0000598	0.000500	0.2000	0	103	75 - 125	0.2	2.83	20	
Chromium	0.194	mg/L	E200.8	0.000608	0.00200	0.2000	0	97.0	75 - 125	0.199	2.41	20	
Cobalt	0.192	mg/L	E200.8	0.000124	0.00400	0.2000	0.000863	95.5	75 - 125	0.196	2.04	20	
Copper	0.195	mg/L	E200.8	0.00149	0.00200	0.2000	0	97.4	75 - 125	0.202	3.41	20	
Iron	1.03	mg/L	E200.8	0.0304	0.100	1.000	0.0372	99.6	75 - 125	1.06	2.45	20	
Lead	0.205	mg/L	E200.8	0.000726	0.00200	0.2000	0	103	75 - 125	0.199	3.06	20	
Manganese	0.205	mg/L	E200.8	0.00175	0.00200	0.2000	0.0161	94.4	75 - 125	0.211	2.82	20	
Molybdenum	0.226	mg/L	E200.8	0.000806	0.00200	0.2000	0.00423	111	75 - 125	0.219	3.01	20	
Nickel	0.190	mg/L	E200.8	0.00175	0.00200	0.2000	0	95.1	75 - 125	0.194	2.18	20	
Selenium	0.210	mg/L	E200.8	0.000644	0.00200	0.2000	0.0159	97.3	75 - 125	0.211	0.200	20	
Silver	0.205	mg/L	E200.8	0.000504	0.00200	0.2000	0	103	75 - 125	0.199	3.29	20	
Thallium	0.197	mg/L	E200.8	0.0000788	0.00200	0.2000	0	98.6	75 - 125	0.192	2.73	20	
Uranium	0.232	mg/L	E200.8	0.0000336	0.00200	0.2000	0.0232	104	75 - 125	0.228	1.74	20	



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QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406403-001EMSD</b>													
Date Analyzed:		06/23/2014 1541h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Tin	1.00	mg/L	E200.8	0.000482	0.00200	1.000	0.00107	100	75 - 125	1.01	1.26	20	
<b>Lab Sample ID: 1406404-001EMSD</b>													
Date Analyzed:		06/23/2014 1638h											
Test Code:		200.8-DIS											
Date Prepared:		06/19/2014 1230h											
Tin	0.985	mg/L	E200.8	0.000482	0.00200	1.000	0	98.5	75 - 125	0.974	1.08	20	
<b>Lab Sample ID: 1406403-001EMSD</b>													
Date Analyzed:		06/24/2014 847h											
Test Code:		Hg-DW-DIS-245.1											
Date Prepared:		06/23/2014 1445h											
Mercury	0.00334	mg/L	E245.1	0.00000675	0.000150	0.003330	0	100	85 - 115	0.00329	1.48	20	
<b>Lab Sample ID: 1406404-001EMSD</b>													
Date Analyzed:		06/24/2014 900h											
Test Code:		Hg-DW-DIS-245.1											
Date Prepared:		06/23/2014 1445h											
Mercury	0.00340	mg/L	E245.1	0.00000675	0.000150	0.003330	0	102	85 - 115	0.00338	0.649	20	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

<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:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406403-001CDUP</b>		Date Analyzed: 06/20/2014 1050h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	728	mg/L	SM2540C	4.34	20.0					688	5.65	5	@
<b>Lab Sample ID: 1406404-001CDUP</b>		Date Analyzed: 06/20/2014 1050h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	4,610	mg/L	SM2540C	4.34	20.0					4980	7.59	5	@

@ - High RPD due to suspected sample non-homogeneity or matrix interference.



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: LCS-R70838</b> Date Analyzed: 06/24/2014 2206h													
Test Code: 300.0-W													
Chloride	4.87	mg/L	E300.0	0.00623	0.100	5.000	0	97.5	90 - 110				
Fluoride	5.01	mg/L	E300.0	0.00510	0.100	5.000	0	100	90 - 110				
Sulfate	5.02	mg/L	E300.0	0.0331	0.750	5.000	0	100	90 - 110				
<b>Lab Sample ID: LCS-R70641</b> Date Analyzed: 06/20/2014 705h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	51,000	mg/L	SM2320B	0.719	10.0	50,000	0	102	90 - 110				
<b>Lab Sample ID: LCS-33164</b> Date Analyzed: 06/25/2014 1951h													
Test Code: NH3-W-350.1 Date Prepared: 06/25/2014 1130h													
Ammonia (as N)	0.985	mg/L	E350.1	0.0214	0.0500	1.000	0	98.5	90 - 110				
<b>Lab Sample ID: LCS-R70616</b> Date Analyzed: 06/19/2014 1531h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00368	0.100	1.000	0	101	90 - 110				
<b>Lab Sample ID: LCS-R70736</b> Date Analyzed: 06/20/2014 1050h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	210	mg/L	SM2540C	2.17	10.0	205.0	0	102	80 - 120				



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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-R70838</b>		Date Analyzed: 06/24/2014 2150h											
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R70641</b>		Date Analyzed: 06/20/2014 705h											
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.719	1.00								
<b>Lab Sample ID: MB-33164</b>		Date Analyzed: 06/25/2014 1949h											
Test Code: NH3-W-350.1		Date Prepared: 06/25/2014 1130h											
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0214	0.0500								
<b>Lab Sample ID: MB-R70616</b>		Date Analyzed: 06/19/2014 1530h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00368	0.100								
<b>Lab Sample ID: MB-R70736</b>		Date Analyzed: 06/20/2014 1050h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406404-001BMS</b> Date Analyzed: 06/24/2014 2253h													
Test Code: 300.0-W													
Chloride	4,850	mg/L	E300.0	6.23	100	5,000	61.9	95.7	90 - 110				
Fluoride	4,980	mg/L	E300.0	5.10	100	5,000	0.376	99.5	90 - 110				
Sulfate	8,420	mg/L	E300.0	33.1	750	5,000	3410	100	90 - 110				
<b>Lab Sample ID: 1406403-001BMS</b> Date Analyzed: 06/20/2014 705h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	296	mg/L	SM2320B	0.719	10.0	50.00	247	98.4	80 - 120				
<b>Lab Sample ID: 1406404-003BMS</b> Date Analyzed: 06/20/2014 705h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	289	mg/L	SM2320B	0.719	10.0	50.00	240	98.4	80 - 120				
<b>Lab Sample ID: 1406403-001DMS</b> Date Analyzed: 06/25/2014 2009h													
Test Code: NH3-W-350.1 Date Prepared: 06/25/2014 1130h													
Ammonia (as N)	0.877	mg/L	E350.1	0.0214	0.0500	1.000	0	87.7	90 - 110				1
<b>Lab Sample ID: 1406404-001DMS</b> Date Analyzed: 06/25/2014 2017h													
Test Code: NH3-W-350.1 Date Prepared: 06/25/2014 1130h													
Ammonia (as N)	0.981	mg/L	E350.1	0.0214	0.0500	1.000	0	98.1	90 - 110				
<b>Lab Sample ID: 1406403-003DMS</b> Date Analyzed: 06/19/2014 1557h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.10	mg/L	E353.2	0.00368	0.100	1.000	0.0384	106	90 - 110				
<b>Lab Sample ID: 1406404-003DMS</b> Date Analyzed: 06/19/2014 1618h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.32	mg/L	E353.2	0.00368	0.100	1.000	0.258	106	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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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406404-001BMSD</b>		Date Analyzed: 06/24/2014 2309h											
Test Code: 300.0-W													
Chloride	4,650	mg/L	E300.0	6.23	100	5,000	61.9	91.8	90 - 110	4850	4.10	20	
Fluoride	4,880	mg/L	E300.0	5.10	100	5,000	0.376	97.6	90 - 110	4980	1.96	20	
Sulfate	8,360	mg/L	E300.0	33.1	750	5,000	3410	98.9	90 - 110	8420	0.725	20	
<b>Lab Sample ID: 1406403-001BMSD</b>		Date Analyzed: 06/20/2014 705h											
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	296	mg/L	SM2320B	0.719	10.0	50.00	247	98.4	80 - 120	296	0	10	
<b>Lab Sample ID: 1406404-003BMSD</b>		Date Analyzed: 06/20/2014 705h											
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	289	mg/L	SM2320B	0.719	10.0	50.00	240	98.4	80 - 120	289	0	10	
<b>Lab Sample ID: 1406403-001DMSD</b>		Date Analyzed: 06/25/2014 2011h											
Test Code: NH3-W-350.1		Date Prepared: 06/25/2014 1130h											
Ammonia (as N)	0.922	mg/L	E350.1	0.0214	0.0500	1.000	0	92.2	90 - 110	0.877	5.02	10	
<b>Lab Sample ID: 1406404-001DMSD</b>		Date Analyzed: 06/25/2014 2022h											
Test Code: NH3-W-350.1		Date Prepared: 06/25/2014 1130h											
Ammonia (as N)	0.952	mg/L	E350.1	0.0214	0.0500	1.000	0	95.2	90 - 110	0.981	3.03	10	
<b>Lab Sample ID: 1406403-003DMSD</b>		Date Analyzed: 06/19/2014 1559h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.11	mg/L	E353.2	0.00368	0.100	1.000	0.0384	107	90 - 110	1.1	0.780	10	
<b>Lab Sample ID: 1406404-003DMSD</b>		Date Analyzed: 06/19/2014 1619h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.28	mg/L	E353.2	0.00368	0.100	1.000	0.258	103	90 - 110	1.32	2.64	10	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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-C 061914A</b>													
Date Analyzed: 06/19/2014 726h													
Test Code: 8260-W													
Benzene	17.9	µg/L	SW8260C	0.0859	2.00	20.00	0	89.6	62 - 127				
Chloroform	19.2	µg/L	SW8260C	0.626	2.00	20.00	0	96.2	67 - 132				
Methylene chloride	18.5	µg/L	SW8260C	0.321	2.00	20.00	0	92.4	32 - 185				
Naphthalene	16.8	µg/L	SW8260C	0.315	2.00	20.00	0	84.0	28 - 136				
Tetrahydrofuran	17.1	µg/L	SW8260C	0.214	2.00	20.00	0	85.4	43 - 146				
Toluene	18.0	µg/L	SW8260C	0.206	2.00	20.00	0	90.1	64 - 129				
Xylenes, Total	56.0	µg/L	SW8260C	0.333	2.00	60.00	0	93.3	52 - 134				
Surr: 1,2-Dichloroethane-d4	53.9	µg/L	SW8260C			50.00		108	76 - 138				
Surr: 4-Bromofluorobenzene	48.6	µg/L	SW8260C			50.00		97.2	77 - 121				
Surr: Dibromofluoromethane	51.4	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	48.7	µg/L	SW8260C			50.00		97.3	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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-C 061914A	<b>Date Analyzed:</b> 06/19/2014 803h												
<b>Test Code:</b> 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.01	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.62	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.0859	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.738	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.214	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.315	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.214	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.206	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.333	1.00								
Surr: 1,2-Dichloroethane-d4	55.2	µg/L	SW8260C			50.00		110	76 - 138				
Surr: 4-Bromofluorobenzene	49.5	µg/L	SW8260C			50.00		99.0	77 - 121				
Surr: Dibromofluoromethane	51.4	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	50.1	µg/L	SW8260C			50.00		100	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406403-001AMS</b>		<b>Date Analyzed: 06/19/2014 1410h</b>											
<b>Test Code: 8260-W</b>													
Benzene	19.0	µg/L	SW8260C	0.0859	2.00	20.00	0	94.9	66 - 145				
Chloroform	20.3	µg/L	SW8260C	0.626	2.00	20.00	0	102	50 - 146				
Methylene chloride	19.8	µg/L	SW8260C	0.321	2.00	20.00	0	98.8	30 - 192				
Naphthalene	16.2	µg/L	SW8260C	0.315	2.00	20.00	0	81.0	41 - 131				
Tetrahydrofuran	20.6	µg/L	SW8260C	0.214	2.00	20.00	0	103	43 - 146				
Toluene	19.6	µg/L	SW8260C	0.206	2.00	20.00	1.32	91.4	18 - 192				
Xylenes, Total	57.7	µg/L	SW8260C	0.333	2.00	60.00	0	96.1	42 - 167				
Surr: 1,2-Dichloroethane-d4	56.5	µg/L	SW8260C			50.00		113	72 - 151				
Surr: 4-Bromofluorobenzene	47.8	µg/L	SW8260C			50.00		95.6	80 - 128				
Surr: Dibromofluoromethane	52.7	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	47.6	µg/L	SW8260C			50.00		95.1	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1406404  
**Project:** 2nd Quarter Groundwater 2014

**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: 1406403-001AMSD</b>		<b>Date Analyzed: 06/19/2014 1429h</b>											
<b>Test Code: 8260-W</b>													
Benzene	19.0	µg/L	SW8260C	0.0859	2.00	20.00	0	95.1	66 - 145	19	0.211	25	
Chloroform	20.4	µg/L	SW8260C	0.626	2.00	20.00	0	102	50 - 146	20.3	0.295	25	
Methylene chloride	19.6	µg/L	SW8260C	0.321	2.00	20.00	0	97.9	30 - 192	19.8	0.864	25	
Naphthalene	16.4	µg/L	SW8260C	0.315	2.00	20.00	0	82.0	41 - 131	16.2	1.17	25	
Tetrahydrofuran	23.1	µg/L	SW8260C	0.214	2.00	20.00	0	116	43 - 146	20.6	11.4	25	
Toluene	19.5	µg/L	SW8260C	0.206	2.00	20.00	1.32	91.0	18 - 192	19.6	0.460	25	
Xylenes, Total	57.4	µg/L	SW8260C	0.333	2.00	60.00	0	95.6	42 - 167	57.7	0.574	25	
Surr: 1,2-Dichloroethane-d4	57.3	µg/L	SW8260C			50.00		115	72 - 151				
Surr: 4-Bromofluorobenzene	48.9	µg/L	SW8260C			50.00		97.7	80 - 128				
Surr: Dibromofluoromethane	53.4	µg/L	SW8260C			50.00		107	80 - 124				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.1	77 - 129				

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1406404**

Page 1 of 3

**Client:** Energy Fuels Resources, Inc.

Due Date: 6/30/2014

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** 2nd Quarter Groundwater 2014

**QC Level:** III

**WO Type:** Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume. 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.; Run Fe by 200.8 for necessary reporting limits. Samples for metals have been field filtered.;

*eh*

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1406404-001A	MW-20_06182014	6/18/2014 0850h	6/19/2014 0900h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge 3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1406404-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1406404-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds
				<i>1 SEL Analytes: TDS</i>			
1406404-001D				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>			
1406404-001E				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>			
1406404-002A	MW-37_06182014	6/18/2014 0830h	6/19/2014 0900h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge 3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1406404-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			

*6/19/14*

# WORK ORDER Summary

Work Order: **1406404** Page 2 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 6/30/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406404-002C	MW-37_06182014	6/18/2014 0830h	6/19/2014 0900h	TDS-W-2540C	Aqueous	<input checked="" type="checkbox"/>	ww - tds	1
				<i>1 SEL Analytes: TDS</i>				
1406404-002D				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>				
1406404-002E				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>				
1406404-003A	MW-28_06182014	6/18/2014 1330h	6/19/2014 0900h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>				
1406404-003B				300.0-W		<input checked="" type="checkbox"/>	df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>				
				ALK-W-2320B		<input checked="" type="checkbox"/>	df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>				
1406404-003C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1406404-003D				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>				
1406404-003E				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>				

# WORK ORDER Summary

Work Order: **1406404** Page 3 of 3

Client: Energy Fuels Resources, Inc.

Due Date: 6/30/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1406404-003E	MW-28_06182014	6/18/2014 1330h	6/19/2014 0900h	HG-DW-DIS-PR	Aqueous	<input checked="" type="checkbox"/>	df-met	1
				IONBALANCE		<input checked="" type="checkbox"/>	df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>				
1406404-004A	Trip Blank	6/18/2014	6/19/2014 0900h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge	3
<i>Test Group: 8260-W-Custom; # 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.

1406404  
 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 2014**  
 PROJECT #: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 SAMPLER NAME: **Garrin Palmer**

QC LEVEL: **3**  
 TURN AROUND TIME: **STANDARD**  
 UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.

DUE DATE: **6/30/14**

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	# OF CONTAINERS	SAMPLE MATRIX	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F1, 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)	X INCLUDE EDD: LOCUS UPLOAD EXCEL X FIELD FILTERED FOR: Dissolved Metals	X 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
2 MW-37_06182014	6/18/2014	830	7	W	X	X	X	X	X	X	X	X	X			
3 MW-28_06182014	6/18/2014	1330	7	W	X	X	X	X	X	X	X	X	X			
4 TRIP BLANK	6/18/2014		3	W									X			
5																
6																
7																
8																
9																
10																
11																
12																

LABORATORY USE ONLY

- SAMPLES WERE:
- 1 SHIPPED OR HAND DELIVERED
  - 2 AMBIENT OR CHILLED
  - 3 TEMPERATURE **30** °C
  - 4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)  Y  N
  - 5 PROPERLY PRESERVED  Y  N
  - 6 CHECKED AT BENCH  Y  N
  - 7 RECEIVED WITHIN HOLDING TIME  Y  N

- QC 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 LABEL AND GOC RECORD?  Y  N

RELINQUISHED BY: <b>Garrin Palmer</b> SIGNATURE	DATE: <b>6/19/14</b> TIME: <b>0900</b>	RECEIVED BY: <b>Elana Hansen</b> SIGNATURE	DATE: <b>6/19/14</b> TIME: <b>900</b>
PRINT NAME: <b>Garrin Palmer</b>		PRINT NAME: <b>Elana Hansen</b>	
RELINQUISHED BY: _____ SIGNATURE	DATE: _____ TIME: _____	RECEIVED BY: _____ SIGNATURE	DATE: _____ TIME: _____
PRINT NAME: _____		PRINT NAME: _____	
RELINQUISHED BY: _____ SIGNATURE	DATE: _____ TIME: _____	RECEIVED BY: _____ SIGNATURE	DATE: _____ TIME: _____
PRINT NAME: _____		PRINT NAME: _____	
RELINQUISHED BY: _____ SIGNATURE	DATE: _____ TIME: _____	RECEIVED BY: _____ SIGNATURE	DATE: _____ TIME: _____
PRINT NAME: _____		PRINT NAME: _____	

SPECIAL INSTRUCTIONS:  
 Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.





June 23, 2014

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 349790

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, 2014. 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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Energy Fuels Resources (USA), Inc.**  
**White Mesa Mill GW**  
**SDG: 349790**

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 349790**

**June 23, 2014**

**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, 2014 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>
349790001	MW-01_05282014
349790002	MW-02_05282014
349790003	MW-18_05272014
349790004	MW-19_05272014
349790005	MW-27_05282014
349790006	MW-32_05232014
349790007	MW-36_05292014

**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.

*Heather Shaffer*

Heather Shaffer  
Project Manager

349790



# 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
4th Quarter Ground Water 2014	Tanner Holliday		
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-01_05282014	5/28/2014	935	Gross Alpha
MW-02_05282014	5/28/2014	1315	Gross Alpha
MW-18_05272014	5/27/2014	1245	Gross Alpha
MW-19_05272014	5/27/2014	1510	Gross Alpha
MW-27_05282014	5/28/2014	1100	Gross Alpha
MW-32_05232014	5/23/2014	1250	Gross Alpha
MW-36_05292014	5/29/2014	740	Gross Alpha
Comments:			
Relinquished By: (Signature) 	Date/Time 5/29/2014 1000	Received By: (Signature) 	Date/Time 5/29/2014 1000
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DPPI</u>		SDG/AR/COC/Work Order: <u>319A0</u>	
Received By: <u>H. Taylor</u>		Date Received: <u>060214</u>	
<b>Suspected Hazard Information</b>		Yes	No
		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
COC/Samples marked as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts):
Classified Radioactive II or III by RSO?			If yes, Were swipes taken of sample containers < action levels? <u>CPM</u>
COC/Samples marked containing PCBs?			
Package, COC, and/or Samples marked as beryllium or asbestos containing?			If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?			

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius <u>20</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>304102160</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	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:
7	Are Encore containers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9	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:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14	Carrier and tracking number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>8032 7121 4788</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 23-JUN-14  
 Work Order: 349790  
 Page 1 of 2

**GEL Work Order/SDG:** 349790  
**Client SDG:** 349790  
**Project Manager:** Heather Shaffer  
**Project Name:** DNMI00100 White Mesa Mill GW  
**Purchase Order:** DW16138  
**Package Level:** LEVEL3  
**EDD Format:** EIM\_DNMI

**Work Order Due Date:** 30-JUN-14  
**Package Due Date:** 27-JUN-14  
**EDD Due Date:** 30-JUN-14  
**Due Date:** 30-JUN-14  
**HXT1**

**Collector:** C  
**Prelogin #:** 20140516193  
**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
349790001	MW-01_05282014		28-MAY-14 09:35	02-JUN-14 10:00	-2	1	GROUND WATER		20		1		
349790002	MW-02_05282014		28-MAY-14 13:15	02-JUN-14 10:00	-2	1	GROUND WATER		20		1		
349790003	MW-18_05272014		27-MAY-14 12:45	02-JUN-14 10:00	-2	1	GROUND WATER		20		1		
349790004	MW-19_05272014		27-MAY-14 15:10	02-JUN-14 10:00	-2	1	GROUND WATER		20		1		
349790005	MW-27_05282014		28-MAY-14 11:00	02-JUN-14 10:00	-2	1	GROUND WATER		20		1		
349790006	MW-32_05232014		23-MAY-14 12:50	02-JUN-14 10:00	-2	1	GROUND WATER		20		1		
349790007	MW-36_05292014		29-MAY-14 07:40	02-JUN-14 10:00	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-01_05282014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-002 MW-02_05282014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-003 MW-18_05272014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-004 MW-19_05272014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-005 MW-27_05282014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-006 MW-32_05232014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-007 MW-36_05292014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20

# GEL Laboratories LLC – Login Review Report

Report Date: 23-JUN-14  
 Work Order: 349790  
 Page 2 of 2

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    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			

Requirement	Include?	Comments

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**List of current GEL Certifications as of 23 June 2014**

<b>State</b>	<b>Certification</b>
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235-14-9
Utah NELAP	SC000122014-12
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 349790**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1392631

<b>Sample ID</b>	<b>Client ID</b>
349790001	MW-01_05282014
349790002	MW-02_05282014
349790003	MW-18_05272014
349790004	MW-19_05272014
349790005	MW-27_05282014
349790006	MW-32_05232014
349790007	MW-36_05292014
1203100519	Method Blank (MB)
1203100520	349790002(MW-02_05282014) Sample Duplicate (DUP)
1203100521	349790002(MW-02_05282014) Matrix Spike (MS)
1203100522	349790002(MW-02_05282014) Matrix Spike Duplicate (MSD)
1203100523	Laboratory Control Sample (LCS)

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: 349790002 (MW-02\_05282014).

**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 batch 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, 1203100521 (MW-02\_05282014) and 1203100522 (MW-02\_05282014), 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: 349790 GEL Work Order: 349790

**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: 07 JUN 2014

Title: Analyst II

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: June 7, 2014

Page 1 of 2

Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 349790

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1392631										
QC1203100520		349790002	DUP								
Gross Radium Alpha		2.19		1.86	pCi/L	16.0		(0% - 100%)	CXP3	06/05/14	12:24
	Uncertainty	+/-0.417		+/-0.363							
QC1203100523		LCS									
Gross Radium Alpha	555			484	pCi/L		87.2	(75%-125%)		06/05/14	12:24
	Uncertainty			+/-5.90							
QC1203100519		MB									
Gross Radium Alpha			U	0.429	pCi/L					06/05/14	12:24
	Uncertainty			+/-0.323							
QC1203100521		349790002	MS								
Gross Radium Alpha	4450	2.19		4010	pCi/L		90.1	(75%-125%)		06/05/14	12:24
	Uncertainty	+/-0.417		+/-47.8							
QC1203100522		349790002	MSD								
Gross Radium Alpha	4450	2.19		4230	pCi/L	5.28	95	(0%-20%)		06/05/14	12:24
	Uncertainty	+/-0.417		+/-48.2							

**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: 349790

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.



August 01, 2014

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 350282

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 09, 2014. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This data package has been revised to report the recount results for MW-35 and MW-65.

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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Energy Fuels Resources (USA), Inc.  
White Mesa Mill GW  
SDG: 350282**

This data package has been revised to report the recount results for MW-35 and MW-65.

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 350282**

**August 01, 2014**

**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 09, 2014 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.

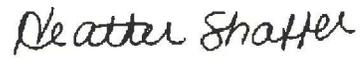
**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
350282001	MW-05_06042014
350282002	MW-11_06032014
350282003	MW-12_06042014
350282004	MW-14_06032014
350282005	MW-15_06042014
350282006	MW-26_06052014
350282007	MW-29_06032014
350282008	MW-30_06032014
350282009	MW-31_06022014
350282010	MW-35_06042014
350282011	MW-65_06042014
350282012	MW-03_05302014
350282013	MW-03A_05302014
350282014	MW-17_05302014
350282015	MW-24_05302014
350282016	MW-25_06022014

**Case Narrative:**

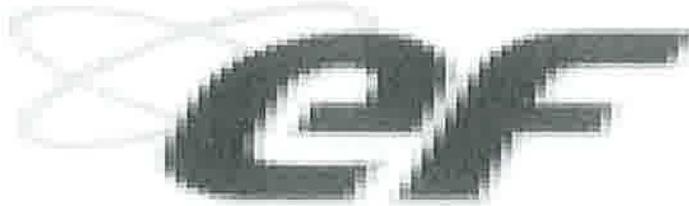
Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

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.

A handwritten signature in black ink that reads "Heather Shaffer". The script is cursive and fluid.

Heather Shaffer  
Project Manager

350282



Sheet 1 of 1

# 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 GW 2014	Garrin Palmer		
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-05_06042014	6/4/2014	1130	Gross Alpha
MW-11_06032014	6/3/2014	1105	Gross Alpha
MW-12_06042014	6/4/2014	1320	Gross Alpha
MW-14_06032014	6/3/2014	1450	Gross Alpha
MW-15_06042014	6/4/2014	1000	Gross Alpha
MW-26_06052014	6/5/2014	630	Gross Alpha
MW-29_06032014	6/3/2014	1315	Gross Alpha
MW-30_06032014	6/3/2014	1020	Gross Alpha
MW-31_06022014	6/2/2014	1255	Gross Alpha
MW-35_06042014	6/4/2014	745	Gross Alpha
MW-65_06042014	6/4/2014	745	Gross Alpha
MW-03_05302014	5/30/2014	840	Gross Alpha
MW-03A_05302014	5/30/2014	740	Gross Alpha
MW-17_05302014	5/30/2014	1300	Gross Alpha
MW-24_05302014	5/30/2014	710	Gross Alpha
MW-25_06022014	6/2/2014	1055	Gross Alpha
Comments:			

Relinquished By:(Signature) Garrin Palmer <i>Garrin Palmer</i>	Date/Time 6/5/2014 1200	Received By:(Signature) <i>[Signature]</i>	Date/Time 6/5/2014 1200
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

**SAMPLE RECEIPT & REVIEW FORM**

Client: <b>DUM</b>		SDG/AR/COC/Work Order: <b>350282</b>	
Received By: <b>H. Taylor</b>		Date Received: <b>06/09/14</b>	
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"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <b>20cpm</b>
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input checked="" type="checkbox"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input checked="" type="checkbox"/>	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: Ice bags    Blue ice    Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <b>20</b>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <b>1304629166</b> 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 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:
7 Are Encore containers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 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:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
12 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14 Carrier and tracking number.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air    FedEx Ground    UPS    Field Services    Courier    Other <b>12 187 444 02 9278 0115</b> <b>12 187 444 02 0362 1106</b>

Comments (Use Continuation Form if needed):

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# GEL Laboratories LLC – Login Review Report

Report Date: 01-AUG-14  
 Work Order: 350282  
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**GEL Work Order/SDG:** 350282      **2nd Quarter GW 2014**  
**Client SDG:** 350282  
**Project Manager:** Heather Shaffer  
**Project Name:** DNMI00100 White Mesa Mill GW  
**Purchase Order:** DW16138  
**Package Level:** LEVEL3  
**EDD Format:** EIM\_DNMI

**Work Order Due Date:** 07-JUL-14  
**Package Due Date:** 04-JUL-14  
**EDD Due Date:** 07-JUL-14  
**Due Date:** 07-JUL-14  
 HXS1

**Collector:** C  
**Prelogin #:** 20140617555  
**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
350282001	MW-05_06042014		04-JUN-14 11:30	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282002	MW-11_06032014		03-JUN-14 11:05	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282003	MW-12_06042014		04-JUN-14 13:20	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282004	MW-14_06032014		03-JUN-14 14:50	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282005	MW-15_06042014		04-JUN-14 10:00	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282006	MW-26_06052014		05-JUN-14 06:30	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282007	MW-29_06032014		03-JUN-14 13:15	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282008	MW-30_06032014		03-JUN-14 10:20	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282009	MW-31_06022014		02-JUN-14 12:55	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282010	MW-35_06042014		04-JUN-14 07:45	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282011	MW-65_06042014		04-JUN-14 07:45	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282012	MW-03_05302014		30-MAY-14 08:40	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282013	MW-03A_05302014		30-MAY-14 07:40	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282014	MW-17_05302014		30-MAY-14 13:00	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282015	MW-24_05302014		30-MAY-14 07:10	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		
350282016	MW-25_06022014		02-JUN-14 10:55	09-JUN-14 09:10	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-05_06042014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-002 MW-11_06032014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-003 MW-12_06042014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-004 MW-14_06032014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20
-005 MW-15_06042014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 20

# GEL Laboratories LLC – Login Review Report

Report Date: 01-AUG-14  
 Work Order: 350282  
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-006 MW-26_06052014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-007 MW-29_06032014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-008 MW-30_06032014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-009 MW-31_06022014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-010 MW-35_06042014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-011 MW-65_06042014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-012 MW-03_05302014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-013 MW-03A_05302014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-014 MW-17_05302014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-015 MW-24_05302014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20
-016 MW-25_06022014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	y
				Temperature (C)	20

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<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, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016				<b>Moisture Correction:</b> "As Received"
<b>Parmname Check:</b> 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

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# GEL Laboratories LLC – Login Review Report

Report Date: 01-AUG-14  
Work Order: 350282  
Page 3 of 3

Action	Product Name	Description	Samples
<b>Contingent Tests</b>			

**Login Requirements:**

Requirement	Include?	Comments
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Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**List of current GEL Certifications as of 01 August 2014**

<b>State</b>	<b>Certification</b>
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235-14-9
Utah NELAP	SC000122014-14
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 350282**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
Analytical Method: EPA 900.1 Modified  
Analytical Batch Number: 1394634

<b>Sample ID</b>	<b>Client ID</b>
350282001	MW-05_06042014
350282002	MW-11_06032014
350282003	MW-12_06042014
350282004	MW-14_06032014
350282005	MW-15_06042014
350282006	MW-26_06052014
350282007	MW-29_06032014
350282008	MW-30_06032014
350282009	MW-31_06022014
350282010	MW-35_06042014
350282011	MW-65_06042014
350282012	MW-03_05302014
350282013	MW-03A_05302014
350282014	MW-17_05302014
350282015	MW-24_05302014
350282016	MW-25_06022014
1203105755	MB for batch 1394634
1203105759	Laboratory Control Sample (LCS)
1203105756	350282001(MW-05_06042014) Sample Duplicate (DUP)
1203105757	350282001(MW-05_06042014) Matrix Spike (MS)
1203105758	350282001(MW-05_06042014) 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: 350282001 (MW-05\_06042014).

##### **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**

Samples 350282010 (MW-35\_06042014) and 350282011 (MW-65\_06042014) were recounted to verify sample results. The second counts are 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.

##### **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, 1203105757 (MW-05\_06042014) and 1203105758 (MW-05\_06042014), aliquots were reduced to conserve sample volume. Samples 350282010 (MW-35\_06042014) and 350282011 (MW-65\_06042014) were recounted per client request. Recount results meet replication criteria between the sample results. Reporting recount results as requested.

#### **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: 350282 GEL Work Order: 350282

**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: 04 AUG 2014

Title: Group Leader

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: August 4, 2014

Page 1 of 2

Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 350282

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1394634										
QC1203105756	350282001	DUP									
Gross Radium Alpha		U	0.0518	U	0.338	pCi/L	N/A		N/A	CXP3	06/26/14 11:22
		Uncertainty	+/-0.193		+/-0.271						
QC1203105759	LCS										
Gross Radium Alpha	555				512	pCi/L	92.3	(75%-125%)			06/26/14 11:22
		Uncertainty			+/-5.87						
QC1203105755	MB										
Gross Radium Alpha				U	0.288	pCi/L					06/26/14 11:25
		Uncertainty			+/-0.213						
QC1203105757	350282001	MS									
Gross Radium Alpha	2240	U	0.0518		1830	pCi/L	81.6	(75%-125%)			06/26/14 11:22
		Uncertainty	+/-0.193		+/-22.4						
QC1203105758	350282001	MSD									
Gross Radium Alpha	2240	U	0.0518		1910	pCi/L	4.54	85.4	(0%-20%)		06/26/14 11:22
		Uncertainty	+/-0.193		+/-22.7						

**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: 350282

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.



July 16, 2014

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 351093

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 20, 2014. 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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Energy Fuels Resources (USA), Inc.**  
**White Mesa Mill GW**  
**SDG: 351093**

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 351093**

**July 16, 2014**

**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 20, 2014 for analysis.

**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
351093001	MW-22_06112014
351093002	MW-23_06112014
351093003	MW-70_06112014
351093004	MW-20_06182014
351093005	MW-37_06182014
351093006	MW-28_06182014

**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.

*Heather Shaffer*

Heather Shaffer  
Project Manager



351093

## 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 Ground Water 2014	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-22 06112014	6/11/2014	1300	Gross Alpha
MW-23 06112014	6/11/2014	900	Gross Alpha
MW-70 06112014	6/11/2014	1300	Gross Alpha
MW-20 06182014	6/18/2014	850	Gross Alpha
MW-37 06182014	6/18/2014	830	Gross Alpha
MW-28 06182014	6/18/2014	1330	Gross Alpha
Comments:			
Relinquished By:(Signature) Tanner Holliday <i>Tanner Holliday</i>	Date/Time 6/19/2014 1200	Received By:(Signature) <i>Chris ...</i>	Date/Time 6-20-14 4:50
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

**SAMPLE RECEIPT & REVIEW FORM**

Client: <u>DJMI</u>		SDG/AR/COC/Work Order: <u>351092 351093</u>	
Received By: <u>C. Zurcher</u>		Date Received: <u>062014</u>	
<b>Suspected Hazard Information</b>	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):
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels? <u>0cpm</u>
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: <u>(Ice bags)</u> Blue ice Dry ice None Other (describe) <u>5</u> *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>130462966</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 VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
7 Are Encore containers present?	<input checked="" type="checkbox"/>			(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
14 Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other  <u>8032 7121 5762</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC - Login Review Report

Report Date: 16-JUL-14  
 Work Order: 351093  
 Page 1 of 2

GEL Work Order/SDG: 351093      2nd Quarter GW 2014  
 Client SDG: 351093  
 Project Manager: Heather Shaffer  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 18-JUL-14  
 Package Due Date: 15-JUL-14  
 EDD Due Date: 18-JUL-14  
 Due Date: 18-JUL-14  
 HXS1

Collector: C  
 Prelogin #: 20140618043  
 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
351093001	MW-22_06112014		11-JUN-14 13:00	20-JUN-14 08:50	-2	1	GROUND WATER		20		1		
351093002	MW-23_06112014		11-JUN-14 09:00	20-JUN-14 08:50	-2	1	GROUND WATER		20		1		
351093003	MW-70_06112014		11-JUN-14 13:00	20-JUN-14 08:50	-2	1	GROUND WATER		20		1		
351093004	MW-20_06182014		18-JUN-14 08:50	20-JUN-14 08:50	-2	1	GROUND WATER		20		1		
351093005	MW-37_06182014		18-JUN-14 08:30	20-JUN-14 08:50	-2	1	GROUND WATER		20		1		
351093006	MW-28_06182014		18-JUN-14 13:30	20-JUN-14 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-22_06112014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 5	
-002 MW-23_06112014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 5	
-003 MW-70_06112014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 5	
-004 MW-20_06182014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 5	
-005 MW-37_06182014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 5	
-006 MW-28_06182014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 5	

<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, 006				<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: 16-JUL-14  
Work Order: 351093  
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? \_\_\_\_\_

**List of current GEL Certifications as of 16 July 2014**

<b>State</b>	<b>Certification</b>
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235-14-9
Utah NELAP	SC000122014-13
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 351093**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
Analytical Method: EPA 900.1 Modified  
Analytical Batch Number: 1399658

<b>Sample ID</b>	<b>Client ID</b>
351093001	MW-22_06112014
351093002	MW-23_06112014
351093003	MW-70_06112014
351093004	MW-20_06182014
351093005	MW-37_06182014
351093006	MW-28_06182014
1203118534	Method Blank (MB)
1203118535	351092001(Entrance Seep) Sample Duplicate (DUP)
1203118536	351092001(Entrance Seep) Matrix Spike (MS)
1203118537	351092001(Entrance Seep) Matrix Spike Duplicate (MSD)
1203118538	Laboratory Control Sample (LCS)

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: 351092001 (Entrance Seep).

**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, 1203118536 (Entrance Seep) and 1203118537 (Entrance Seep), 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: 351093 GEL Work Order: 351093

**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:** 16 JUL 2014

**Title:** Analyst I

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: July 16, 2014

Page 1 of 2

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

**Contact: Ms. Kathy Weinel**

**Workorder: 351093**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1399658										
QC1203118535	351092001	DUP									
Gross Radium Alpha	U	0.659	U	0.760	pCi/L	N/A		N/A	CXP3	07/13/14	17:05
	Uncertainty	+/-0.184		+/-0.175							
QC1203118538	LCS										
Gross Radium Alpha	555			548	pCi/L		98.6	(75%-125%)		07/13/14	17:07
	Uncertainty			+/-4.62							
QC1203118534	MB										
Gross Radium Alpha			U	0.158	pCi/L					07/13/14	17:05
	Uncertainty			+/-0.122							
QC1203118536	351092001	MS									
Gross Radium Alpha	2240	U	0.659	2270	pCi/L		101	(75%-125%)		07/13/14	17:06
	Uncertainty	+/-0.184		+/-19.0							
QC1203118537	351092001	MSD									
Gross Radium Alpha	2240	U	0.659	2160	pCi/L	4.79	96.6	(0%-20%)		07/13/14	17:06
	Uncertainty	+/-0.184		+/-18.1							

**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

# GEL LABORATORIES LLC

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## QC Summary

Workorder: 351093

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
Q											
R											
U											
UI											
UJ											
UL											
X											
Y											
^											
h											

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

April 2014



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-001  
**Client Sample ID:** MW-11\_04252014  
**Collection Date:** 4/25/2014 1145h  
**Received Date:** 5/2/2014 1020h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	5/2/2014 1225h	5/7/2014 1713h	E200.8	0.00200	<b>0.136</b>	

463 West 3600 South  
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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.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1404535-001  
**Client Sample ID:** MW-14\_04232014  
**Collection Date:** 4/23/2014 1430h  
**Received Date:** 4/25/2014 1012h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date		Date		Method	Reporting	Analytical	Qual
		Prepared		Analyzed		Used	Limit	Result	
Manganese	mg/L	4/29/2014	1300h	5/3/2014	0446h	E200.8	0.00200	1.97	

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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.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-002  
**Client Sample ID:** MW-25\_04282014  
**Collection Date:** 4/28/2014 1140h  
**Received Date:** 5/2/2014 1020h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	5/2/2014	1225h	5/5/2014	0530h	E200.8	0.000500	<b>0.00151</b>	
Uranium	mg/L	5/2/2014	1225h	5/5/2014	0642h	E200.8	0.000200	<b>0.0106</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:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-002  
**Client Sample ID:** MW-25\_04282014  
**Collection Date:** 4/28/2014 1140h  
**Received Date:** 5/2/2014 1020h

### Analytical Results

463 West 3600 South  
Salt Lake City, UT 84115

<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		5/2/2014 1621h	SM4500-Cl-E	5.00	<b>31.0</b>	
Fluoride	mg/L		5/6/2014 1100h	SM4500-F-C	0.100	<b>0.409</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-003  
**Client Sample ID:** MW-26\_04302014  
**Collection Date:** 4/30/2014 1330h  
**Received Date:** 5/2/2014 1020h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date</u>		<u>Method</u>	<u>Reporting</u>	<u>Analytical</u>	<u>Qual</u>
		<u>Prepared</u>	<u>Analyzed</u>	<u>Used</u>	<u>Limit</u>	<u>Result</u>	
Uranium	mg/L	5/2/2014 1225h	5/5/2014 0647h	E200.8	0.000200	<b>0.0960</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-003  
**Client Sample ID:** MW-26\_04302014  
**Collection Date:** 4/30/2014 1330h  
**Received Date:** 5/2/2014 1020h

**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		5/2/2014 1622h	SM4500-Cl-E	5.00	<b>62.1</b>	
Nitrate/Nitrite (as N)	mg/L		5/6/2014 2012h	E353.2	0.100	<b>1.20</b>	

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Salt Lake City, UT 84115

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web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-003D  
**Client Sample ID:** MW-26\_04302014  
**Collection Date:** 4/30/2014 1330h  
**Received Date:** 5/2/2014 1020h

**Contact:** Garrin Palmer

Test Code: 8260-W

**Analytical Results**

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/2/2014 1324h

**Units:** µg/L                      **Dilution Factor:** 10                      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	1,310	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	524	500.0	105	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	510	500.0	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	503	500.0	101	80-124	
Surr: Toluene-d8	2037-26-5	491	500.0	98.2	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

**Analyzed:** 5/2/2014 1146h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	5.54	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	47.1	50.00	94.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	43.8	50.00	87.6	80-128	
Surr: Dibromofluoromethane	1868-53-7	46.4	50.00	92.9	80-124	
Surr: Toluene-d8	2037-26-5	43.6	50.00	87.2	77-129	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1404535-002  
**Client Sample ID:** MW-30\_04232014  
**Collection Date:** 4/23/2014 1520h  
**Received Date:** 4/25/2014 1012h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

463 West 3600 South  
Salt Lake City, UT 84115

<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>
Selenium	mg/L	4/29/2014	1300h	5/3/2014	0514h	E200.8	0.00200	<b>0.0328</b>	
Uranium	mg/L	4/29/2014	1300h	5/5/2014	0038h	E200.8	0.000200	<b>0.00684</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1404535-002  
**Client Sample ID:** MW-30\_04232014  
**Collection Date:** 4/23/2014 1520h  
**Received Date:** 4/25/2014 1012h

**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		4/29/2014 2214h	SM4500-Cl-E	25.0	<b>154</b>	'
Nitrate/Nitrite (as N)	mg/L		4/25/2014 1700h	E353.2	5.00	<b>18.3</b>	'

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-004  
**Client Sample ID:** MW-31\_04282014  
**Collection Date:** 4/28/2014 1400h  
**Received Date:** 5/2/2014 1020h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	5/2/2014	1225h	5/5/2014	0540h	E200.8	0.00200	<b>0.0854</b>	

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QA Officer



# INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-004  
**Client Sample ID:** MW-31\_04282014  
**Collection Date:** 4/28/2014 1400h  
**Received Date:** 5/2/2014 1020h

**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		5/2/2014 1641h	SM4500-Cl-E	50.0	<b>230</b>	
Nitrate/Nitrite (as N)	mg/L		5/6/2014 2013h	E353.2	5.00	<b>19.1</b>	
Sulfate	mg/L		5/5/2014 0632h	SM4500-SO4-E	125	<b>527</b>	
Total Dissolved Solids	mg/L		5/2/2014 1415h	SM2540C	20.0	<b>1,440</b>	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-005  
**Client Sample ID:** MW-35\_04252014  
**Collection Date:** 4/25/2014 0850h  
**Received Date:** 5/2/2014 1020h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared		Date Analyzed		Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	5/2/2014	1225h	5/7/2014	1730h	E200.8	0.00500	<b>0.194</b>	
Selenium	mg/L	5/2/2014	1225h	5/5/2014	0603h	E200.8	0.00200	<b>0.0186</b>	
Thallium	mg/L	5/2/2014	1225h	5/7/2014	1701h	E200.8	0.000500	<b>0.000582</b>	
Uranium	mg/L	5/2/2014	1225h	5/5/2014	0652h	E200.8	0.000200	<b>0.0306</b>	

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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 2, 2014

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_04252014	Project: DNMI00100
Sample ID: 348002001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 25-APR-14 08:50	
Receive Date: 05-MAY-14	
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		2.95	+/-0.588	1.25	1.00	pCi/L		CXP3	05/30/14	1638	1389559	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"			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.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-006  
**Client Sample ID:** MW-65\_04282014  
**Collection Date:** 4/28/2014 1140h  
**Received Date:** 5/2/2014 1020h

**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>
Cadmium	mg/L	5/2/2014	1225h	5/5/2014	0608h	E200.8	0.000500	<b>0.00180</b>	
Uranium	mg/L	5/2/2014	1225h	5/5/2014	0923h	E200.8	0.000200	<b>0.00791</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:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-006  
**Client Sample ID:** MW-65\_04282014  
**Collection Date:** 4/28/2014 1140h  
**Received Date:** 5/2/2014 1020h

### 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		5/2/2014 1624h	SM4500-Cl-E	5.00	<b>31.2</b>	
Fluoride	mg/L		5/6/2014 1100h	SM4500-F-C	0.100	<b>0.446</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** April Monthly Ground Water 2014  
**Lab Sample ID:** 1405043-007A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 4/30/2014  
**Received Date:** 5/2/2014 1020h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/2/2014 1205h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

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	48.9	50.00	97.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	45.6	50.00	91.1	80-128	
Surr: Dibromofluoromethane	1868-53-7	45.5	50.00	91.0	80-124	
Surr: Toluene-d8	2037-26-5	45.1	50.00	90.2	77-129	

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Jose Rocha  
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Garrin Palmer  
Energy Fuels Resources, Inc.  
6425 S. Hwy 191  
Blanding, UT 84511  
TEL: (435) 678-2221

RE: April Monthly Ground Water 2014

Dear Garrin Palmer:

Lab Set ID: 1404535

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 2 sample(s) on 4/25/2014 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, 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:

**Kyle F. Gross**  
Digitally signed by Kyle F. Gross  
DN: cn=Kyle F. Gross, o=AWAL,  
ou=AWAL-Laboratory Director,  
email=kyle@awal-labs.com, c=US  
Date: 2014.05.06 12:57:59 -06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** April Monthly Ground Water 2014  
**Lab Set ID:** 1404535  
**Date Received:** 4/25/2014 1012h

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Date Collected</u>	<u>Matrix</u>	<u>Analysis</u>
1404535-001A	MW-14_04232014	4/23/2014 1430h	Aqueous	ICPMS Metals, Dissolved
1404535-002A	MW-30_04232014	4/23/2014 1520h	Aqueous	Nitrite/Nitrate (as N), E353.2
1404535-002B	MW-30_04232014	4/23/2014 1520h	Aqueous	Chloride, Aqueous
1404535-002C	MW-30_04232014	4/23/2014 1520h	Aqueous	ICPMS Metals, Dissolved

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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:** April Monthly Ground Water 2014  
**Lab Set ID:** 1404535

---

### Sample Receipt Information:

**Date of Receipt:** 4/25/2014  
**Date of Collection:** 4/23/2014  
**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, LCSD, 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 Sample (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
1404535-002A	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1404535-002B	Chloride	MSD	Sample matrix interference
1404537-002B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference

**Duplicate (DUP):** The parameters that require 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:** 1404535  
**Project:** April Monthly Ground Water 2014

**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-31979</b>		Date Analyzed: 05/03/2014 0440h											
Test Code: 200.8-DIS		Date Prepared: 04/29/2014 1300h											
Manganese	0.182	mg/L	E200.8	0.00166	0.00200	0.2000	0	91.1	85 - 115				
Selenium	0.185	mg/L	E200.8	0.000686	0.00200	0.2000	0	92.5	85 - 115				
<b>Lab Sample ID: LCS-31979</b>		Date Analyzed: 05/04/2014 2319h											
Test Code: 200.8-DIS		Date Prepared: 04/29/2014 1300h											
Uranium	0.192	mg/L	E200.8	0.0000598	0.00200	0.2000	0	95.8	85 - 115				



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1404535  
**Project:** April Monthly Ground Water 2014

**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-31979	Date Analyzed:	05/03/2014	0434h										
Test Code:	200.8-DIS	Date Prepared:	04/29/2014	1300h									
Manganese	< 0.00200	mg/L	E200.8	0.00166	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000686	0.00200								
<b>Lab Sample ID:</b> MB-31979	Date Analyzed:	05/05/2014	0032h										
Test Code:	200.8-DIS	Date Prepared:	04/29/2014	1300h									
Uranium	< 0.000200	mg/L	E200.8	0.00000598	0.000200								



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1404535  
**Project:** April Monthly Ground Water 2014

**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> 1404535-001AMS	Date Analyzed:	05/03/2014	0503h										
Test Code:	200.8-DIS	Date Prepared:	04/29/2014	1300h									
Selenium	0.196	mg/L	E200.8	0.000686	0.00200	0.2000	0	98.0	75 - 125				
<b>Lab Sample ID:</b> 1404537-001DMS	Date Analyzed:	05/03/2014	0543h										
Test Code:	200.8-DIS	Date Prepared:	04/29/2014	1300h									
Manganese	0.181	mg/L	E200.8	0.00166	0.00200	0.2000	0	90.3	75 - 125				
Selenium	0.181	mg/L	E200.8	0.000686	0.00200	0.2000	0.000956	90.2	75 - 125				
<b>Lab Sample ID:</b> 1404535-001AMS	Date Analyzed:	05/04/2014	2331h										
Test Code:	200.8-DIS	Date Prepared:	04/29/2014	1300h									
Manganese	2.18	mg/L	E200.8	0.00416	0.00500	0.2000	1.97	104	75 - 125				
Uranium	0.253	mg/L	E200.8	0.000150	0.00500	0.2000	0.059	97.2	75 - 125				
<b>Lab Sample ID:</b> 1404537-001DMS	Date Analyzed:	05/04/2014	2347h										
Test Code:	200.8-DIS	Date Prepared:	04/29/2014	1300h									
Uranium	0.187	mg/L	E200.8	0.000150	0.00500	0.2000	0.00272	92.0	75 - 125				



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1404535  
**Project:** April Monthly Ground Water 2014

**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: 1404535-001AMSD</b>		Date Analyzed: 05/03/2014 0509h											
Test Code: 200.8-DIS		Date Prepared: 04/29/2014 1300h											
Selenium	0.179	mg/L	E200.8	0.000686	0.00200	0.2000	0	89.7	75 - 125	0.196	8.82	20	
<b>Lab Sample ID: 1404537-001DMSD</b>		Date Analyzed: 05/03/2014 0549h											
Test Code: 200.8-DIS		Date Prepared: 04/29/2014 1300h											
Manganese	0.177	mg/L	E200.8	0.00166	0.00200	0.2000	0	88.4	75 - 125	0.181	2.16	20	
Selenium	0.183	mg/L	E200.8	0.000686	0.00200	0.2000	0.000956	91.0	75 - 125	0.181	0.901	20	
<b>Lab Sample ID: 1404535-001AMSD</b>		Date Analyzed: 05/04/2014 2336h											
Test Code: 200.8-DIS		Date Prepared: 04/29/2014 1300h											
Manganese	2.17	mg/L	E200.8	0.00416	0.00500	0.2000	1.97	96.3	75 - 125	2.18	0.674	20	
Uranium	0.246	mg/L	E200.8	0.000150	0.00500	0.2000	0.059	93.6	75 - 125	0.253	2.88	20	
<b>Lab Sample ID: 1404537-001DMSD</b>		Date Analyzed: 05/05/2014 0003h											
Test Code: 200.8-DIS		Date Prepared: 04/29/2014 1300h											
Uranium	0.190	mg/L	E200.8	0.000150	0.00500	0.2000	0.00272	93.8	75 - 125	0.187	1.91	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:** 1404535  
**Project:** April Monthly Ground Water 2014

**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-R68094		Date Analyzed: 04/29/2014 2201h											
Test Code: CL-W-4500CLE													
Chloride	24.7	mg/L	SM4500-Cl-E	0.965	5.00	25.00	0	98.9	90 - 110				
<b>Lab Sample ID:</b> LCS-R67963		Date Analyzed: 04/25/2014 1642h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00368	0.100	1.000	0	104	90 - 110				



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Kyle F. Gross  
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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1404535  
**Project:** April Monthly Ground Water 2014

**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-R68094</b> Date Analyzed: 04/29/2014 2200h													
Test Code: CL-W-4500CLE													
Chloride	< 5.00	mg/L	SM4500-Cl-E	0.965	5.00								
<b>Lab Sample ID: MB-R67963</b> Date Analyzed: 04/25/2014 1641h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00368	0.100								



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1404535  
**Project:** April Monthly Ground Water 2014

**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: 1404535-002BMS</b> Date Analyzed: 04/29/2014 2215h													
Test Code: CL-W-4500CLE													
Chloride	205	mg/L	SM4500-Cl-E	4.82	25.0	50.00	154	102	90 - 110				
<b>Lab Sample ID: 1404535-002AMS</b> Date Analyzed: 04/25/2014 1701h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	81.7	mg/L	E353.2	0.184	5.00	50.00	18.3	127	90 - 110				1
<b>Lab Sample ID: 1404537-002BMS</b> Date Analyzed: 04/25/2014 1724h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.50	mg/L	E353.2	0.00368	0.100	1.000	0.384	111	90 - 110				1

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.



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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1404535  
**Project:** April Monthly Ground Water 2014

**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: 1404535-002BMSD</b> Date Analyzed: 04/29/2014 2216h													
Test Code: CL-W-4500CLE													
Chloride	196	mg/L	SM4500-CL-E	4.82	25.0	50.00	154	83.5	90 - 110	205	4.69	10	1
<b>Lab Sample ID: 1404535-002AMSD</b> Date Analyzed: 04/25/2014 1703h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	81.0	mg/L	E353.2	0.184	5.00	50.00	18.3	125	90 - 110	81.7	0.879	10	1
<b>Lab Sample ID: 1404537-002BMSD</b> Date Analyzed: 04/25/2014 1725h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.49	mg/L	E353.2	0.00368	0.100	1.000	0.384	111	90 - 110	1.5	0.542	10	1

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

# American West Analytical Laboratories

UL  
Denison

## WORK ORDER Summary

Work Order: **1404535**

Page 1 of 1

**Client:** Energy Fuels Resources, Inc.

Due Date: 5/6/2014

**Client ID:** DEN100

**Contact:** Garrin Palmer

**Project:** April Monthly Ground Water 2014

**QC Level:** III

WO Type: Project

**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume. Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group.; Samples were field filtered for the metals.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1404535-001A	MW-14_04232014	4/23/2014 1430h	4/25/2014 1012h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df / dis metals 1
				200.8-DIS-PR		<input type="checkbox"/>	df / dis metals
1404535-002A	MW-30_04232014	4/23/2014 1520h	4/25/2014 1012h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	<input checked="" type="checkbox"/>	df / no2/no3 1
1404535-002B				CL-W-4500CLE		<input type="checkbox"/>	df / wc
1404535-002C				200.8-DIS <i>2 SEL Analytes: SE U</i>		<input checked="" type="checkbox"/>	df / dis metals
				200.8-DIS-PR		<input type="checkbox"/>	df / dis metals



# AMERICAN WEST ANALYTICAL LABORATORIES

463 W. 3600 S. SALT LAKE CITY, UT 84115  
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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.

1404535

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: **April Monthly Ground Water 2014**  
 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 (953.2)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	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)	SO <sub>4</sub> (4500 or 300.0)	Fluoride (A4500-F C or 300.0)	VOCs Chloroform and Dichloromethane (8260C)	LABORATORY USE ONLY		
													INCLUDE EDD: LOCUS UPLOAD EXCEL	FIELD FILTERED FOR: Dissolved Metals	SAMPLE WERE:
													SHIPPED OR HAND DELIVERED		
													2. AMBIENT OR CHILLED		
													3. TEMPERATURE: 38 °C		
													4. RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)		
													5. PROPERLY PRESERVED		
													6. RECEIVED WITHIN HOLDING TIME		
													KNOWN HAZARDS & SAMPLE COMMENTS		
1															
2	MW-14_04232014	4/23/2014	1430	1	W		X								
3															
4															
5	MW-30_04232014	4/23/2014	1520	3	W	X	X	X	X						
6	Temp Blank	4/24/2014		1	W										
7															
8															
9															
10															
11															
12															

RELINQUISHED BY: SIGNATURE: <i>[Signature]</i>	DATE: 4/24/2014	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: Clayton Most	TIME: 1100	PRINT NAME:	TIME:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE: <i>[Signature]</i>	DATE: 4/25/14	
PRINT NAME:	TIME:	PRINT NAME: <i>[Signature]</i>	TIME: 1512	
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																
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO <sub>3</sub>	yes	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: April Monthly Ground Water 2014

Dear Garrin Palmer:

Lab Set ID: 1405043

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 7 sample(s) on 5/2/2014 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.

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=Quality  
Assurance Officer,  
email=jose@awal-labs.com,  
c=US  
Date: 2014.05.16 12:34:44  
-06'00'

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** April Monthly Ground Water 2014  
**Lab Set ID:** 1405043  
**Date Received:** 5/2/2014 1020h

463 West 3600 South Salt Lake City, UT 84115	<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Date Collected</u>	<u>Matrix</u>	<u>Analysis</u>
Phone: (801) 263-8686	1405043-001A	MW-11_04252014	4/25/2014 1145h	Aqueous	ICPMS Metals, Dissolved
Toll Free: (888) 263-8686	1405043-002A	MW-25_04282014	4/28/2014 1140h	Aqueous	ICPMS Metals, Dissolved
Fax: (801) 263-8687	1405043-002B	MW-25_04282014	4/28/2014 1140h	Aqueous	Chloride, Aqueous
e-mail: awal@awal-labs.com	1405043-002B	MW-25_04282014	4/28/2014 1140h	Aqueous	Fluoride, Aqueous
	1405043-003A	MW-26_04302014	4/30/2014 1330h	Aqueous	ICPMS Metals, Dissolved
web: www.awal-labs.com	1405043-003B	MW-26_04302014	4/30/2014 1330h	Aqueous	Chloride, Aqueous
	1405043-003C	MW-26_04302014	4/30/2014 1330h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1405043-003D	MW-26_04302014	4/30/2014 1330h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1405043-004A	MW-31_04282014	4/28/2014 1400h	Aqueous	ICPMS Metals, Dissolved
	1405043-004B	MW-31_04282014	4/28/2014 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1405043-004C	MW-31_04282014	4/28/2014 1400h	Aqueous	Total Dissolved Solids, A2540C
	1405043-004D	MW-31_04282014	4/28/2014 1400h	Aqueous	Sulfate, Aqueous
Kyle F. Gross	1405043-004D	MW-31_04282014	4/28/2014 1400h	Aqueous	Chloride, Aqueous
Laboratory Director	1405043-005A	MW-35_04252014	4/25/2014 0850h	Aqueous	ICPMS Metals, Dissolved
	1405043-006A	MW-65_04282014	4/28/2014 1140h	Aqueous	ICPMS Metals, Dissolved
Jose Rocha	1405043-006B	MW-65_04282014	4/28/2014 1140h	Aqueous	Chloride, Aqueous
QA Officer	1405043-006B	MW-65_04282014	4/28/2014 1140h	Aqueous	Fluoride, Aqueous
	1405043-007A	Trip Blank	4/30/2014	Aqueous	VOA by GC/MS Method 8260C/5030C



# Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** April Monthly Ground Water 2014  
**Lab Set ID:** 1405043

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web: www.awal-labs.com

Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer

## Sample Receipt Information:

**Date of Receipt:** 5/2/2014  
**Date(s) of Collection:** 4/25-4/30/2014  
**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, LCSD, 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 Sample / Laboratory Control Sample Duplicate (LCS/LCSD):** All LCS and LCSD 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
1404537-002A	Chloride	MSD	Sample matrix interference
1405043-004B	Nitrate/Nitrite (as N)	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:** April Monthly Ground Water 2014  
**Lab Set ID:** 1405043

---

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### **Sample Receipt Information:**

**Date of Receipt:** 5/2/2014  
**Date(s) of Collection:** 4/25-4/30/2014  
**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:** 1405043  
**Project:** April Monthly Ground Water 2014

**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-32079	Date Analyzed:	05/05/2014 0457h											
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/02/2014 1225h											
Uranium	0.229	mg/L	E200.8	0.0000598	0.00200	0.2000	0	115	85 - 115				
<b>Lab Sample ID:</b> LCS-32079	Date Analyzed:	05/07/2014 1707h											
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/02/2014 1225h											
Cadmium	0.201	mg/L	E200.8	0.0000726	0.000500	0.2000	0	101	85 - 115				
Manganese	0.193	mg/L	E200.8	0.00166	0.00200	0.2000	0	96.5	85 - 115				
Selenium	0.210	mg/L	E200.8	0.000686	0.00200	0.2000	0	105	85 - 115				
Thallium	0.199	mg/L	E200.8	0.000222	0.00200	0.2000	0	99.7	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:** 1405043  
**Project:** April Monthly Ground Water 2014

**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-32079	Date Analyzed:	05/05/2014	0452h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/02/2014	1225h										
Cadmium	< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Selenium	< 0.00200	mg/L	E200.8	0.000686	0.00200								
<b>Lab Sample ID:</b> MB-32079	Date Analyzed:	05/05/2014	0636h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/02/2014	1225h										
Uranium	< 0.000200	mg/L	E200.8	0.00000598	0.000200								
<b>Lab Sample ID:</b> MB-32079	Date Analyzed:	05/07/2014	1655h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/02/2014	1225h										
Manganese	< 0.000500	mg/L	E200.8	0.000416	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.0000555	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:** 1405043  
**Project:** April Monthly Ground Water 2014

**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: 1405043-001AMS</b>		Date Analyzed:	05/05/2014 0519h										
Test Code: 200.8-DIS		Date Prepared:	05/02/2014 1225h										
Cadmium	0.220	mg/L	E200.8	0.0000726	0.000500	0.2000	0	110	75 - 125				
Selenium	0.234	mg/L	E200.8	0.000686	0.00200	0.2000	0	117	75 - 125				
Uranium	0.216	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00093	108	75 - 125				
<b>Lab Sample ID: 1405043-001AMS</b>		Date Analyzed:	05/07/2014 1718h										
Test Code: 200.8-DIS		Date Prepared:	05/02/2014 1225h										
Manganese	0.344	mg/L	E200.8	0.00416	0.00500	0.2000	0.136	104	75 - 125				
Thallium	0.197	mg/L	E200.8	0.000555	0.00500	0.2000	0.00251	97.0	75 - 125				



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Laboratory Director

Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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> 1405043-001AMSD	Date Analyzed:	05/05/2014 0524h											
Test Code:	200.8-DIS	Date Prepared:	05/02/2014 1225h										
Cadmium	0.221	mg/L	E200.8	0.0000726	0.000500	0.2000	0	110	75 - 125	0.22	0.390	20	
Selenium	0.237	mg/L	E200.8	0.000686	0.00200	0.2000	0	119	75 - 125	0.234	1.47	20	
Uranium	0.218	mg/L	E200.8	0.0000598	0.00200	0.2000	0.00093	108	75 - 125	0.216	0.850	20	
<b>Lab Sample ID:</b> 1405043-001AMSD	Date Analyzed:	05/07/2014 1724h											
Test Code:	200.8-DIS	Date Prepared:	05/02/2014 1225h										
Manganese	0.333	mg/L	E200.8	0.00416	0.00500	0.2000	0.136	99.0	75 - 125	0.344	3.21	20	
Thallium	0.190	mg/L	E200.8	0.000555	0.00500	0.2000	0.00251	93.8	75 - 125	0.197	3.34	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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> 1405043-004CDUP		Date Analyzed: 05/02/2014 1415h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,450	mg/L	SM2540C	4.34	20.0					1440	0.830	5	



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Jose Rocha  
QA Officer

## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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: LCS-R68281</b>		Date Analyzed: 05/02/2014 1602h											
Test Code: CL-W-4500CLE													
Chloride	25.2	mg/L	SM4500-Cl-E	0.965	5.00	25.00	0	101	90 - 110				
<b>Lab Sample ID: LCS-R68415</b>		Date Analyzed: 05/06/2014 1100h											
Test Code: F-W-4500FC													
Fluoride	1.06	mg/L	SM4500-F-C	0.0125	0.100	1.000	0	106	90 - 110				
<b>Lab Sample ID: LCS-R68496</b>		Date Analyzed: 05/06/2014 2011h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.992	mg/L	E353.2	0.00368	0.100	1.000	0	99.2	90 - 110				
<b>Lab Sample ID: LCS-R68316</b>		Date Analyzed: 05/05/2014 0632h											
Test Code: SO4-W-4500SO4E													
Sulfate	1,050	mg/L	SM4500-SO4-E	2.71	5.00	1,000	0	105	90 - 110				
<b>Lab Sample ID: LCS-R68327</b>		Date Analyzed: 05/02/2014 1415h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	214	mg/L	SM2540C	2.17	10.0	205.0	0	104	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**Contact:** Garrin Palmer  
**Dept:** WC  
**QC Type:** LCSD

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> LCSD-R68281		Date Analyzed: 05/02/2014 1603h											
<b>Test Code:</b> CL-W-4500CLE													
Chloride	25.3	mg/L	SM4500-Cl-E	0.965	5.00	25.00	0	101	90 - 110	25.2	0.352	10	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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-R68281</b>		Date Analyzed: 05/02/2014 1557h											
Test Code: CL-W-4500CLE													
Chloride	< 5.00	mg/L	SM4500-Cl-E	0.965	5.00								
<b>Lab Sample ID: MB-R68415</b>		Date Analyzed: 05/06/2014 1100h											
Test Code: F-W-4500FC													
Fluoride	< 0.100	mg/L	SM4500-F-C	0.0125	0.100								
<b>Lab Sample ID: MB-R68496</b>		Date Analyzed: 05/06/2014 2009h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00368	0.100								
<b>Lab Sample ID: MB-R68316</b>		Date Analyzed: 05/05/2014 0632h											
Test Code: SO4-W-4500SO4E													
Sulfate	< 5.00	mg/L	SM4500-SO4-E	2.71	5.00								
<b>Lab Sample ID: MB-R68327</b>		Date Analyzed: 05/02/2014 1415h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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: 1404537-002AMS</b> Date Analyzed: 05/02/2014 1628h													
Test Code: CL-W-4500CLE													
Chloride	27.4	mg/L	SM4500-Cl-E	0.965	5.00	10.00	17.9	95.0	90 - 110				
<b>Lab Sample ID: 1405043-002BMS</b> Date Analyzed: 05/02/2014 1638h													
Test Code: CL-W-4500CLE													
Chloride	40.4	mg/L	SM4500-Cl-E	0.965	5.00	10.00	31	94.7	90 - 110				
<b>Lab Sample ID: 1405043-002BMS</b> Date Analyzed: 05/06/2014 1100h													
Test Code: F-W-4500FC													
Fluoride	1.42	mg/L	SM4500-F-C	0.0125	0.100	1.000	0.409	101	80 - 120				
<b>Lab Sample ID: 1405043-004BMS</b> Date Analyzed: 05/06/2014 2031h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	83.3	mg/L	E353.2	0.184	5.00	50.00	19.1	128	90 - 110				
<b>Lab Sample ID: 1405043-004DMS</b> Date Analyzed: 05/05/2014 0632h													
Test Code: SO4-W-4500SO4E													
Sulfate	1,090	mg/L	SM4500-SO4-E	67.8	125	500.0	527	113	80 - 120				

<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:** 1405043  
**Project:** April Monthly Ground Water 2014

**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: 1404537-002AMSD</b> Date Analyzed: 05/02/2014 1632h													
Test Code: CL-W-4500CLE													
Chloride	29.0	mg/L	SM4500-Cl-E	0.965	5.00	10.00	17.9	112	90 - 110	27.4	5.85	10	1
<b>Lab Sample ID: 1405043-002BMSD</b> Date Analyzed: 05/02/2014 1640h													
Test Code: CL-W-4500CLE													
Chloride	40.6	mg/L	SM4500-Cl-E	0.965	5.00	10.00	31	96.6	90 - 110	40.4	0.488	10	
<b>Lab Sample ID: 1405043-002BMSD</b> Date Analyzed: 05/06/2014 1100h													
Test Code: F-W-4500FC													
Fluoride	1.49	mg/L	SM4500-F-C	0.0125	0.100	1.000	0.409	108	80 - 120	1.42	4.81	10	
<b>Lab Sample ID: 1405043-004BMSD</b> Date Analyzed: 05/06/2014 2033h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	78.1	mg/L	E353.2	0.184	5.00	50.00	19.1	118	90 - 110	83.3	6.40	10	1
<b>Lab Sample ID: 1405043-004DMSD</b> Date Analyzed: 05/05/2014 0632h													
Test Code: SO4-W-4500SO4E													
Sulfate	1,060	mg/L	SM4500-SO4-E	67.8	125	500.0	527	106	80 - 120	1090	2.91	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:** 1405043  
**Project:** April Monthly Ground Water 2014

**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-C 050214B</b>		Date Analyzed: 05/02/2014 0825h											
Test Code: 8260-W													
Chloroform	19.7	µg/L	SW8260C	1.28	2.00	20.00	0	98.4	67 - 132				
Methylene chloride	17.8	µg/L	SW8260C	1.76	2.00	20.00	0	89.0	32 - 185				
Surr: 1,2-Dichloroethane-d4	51.3	µg/L	SW8260C			50.00		103	76 - 138				
Surr: 4-Bromofluorobenzene	48.2	µg/L	SW8260C			50.00		96.5	77 - 121				
Surr: Dibromofluoromethane	50.2	µg/L	SW8260C			50.00		100	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.8	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**Contact:** Garrin Palmer  
**Dept:** MSVOA  
**QC Type:** LCSD

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: LCSD VOC-C 050214B</b> Date Analyzed: 05/02/2014 0921h													
Test Code: 8260-W													
Chloroform	18.8	µg/L	SW8260C	1.28	2.00	20.00	0	94.1	67 - 132	19.7	4.52	25	
Methylene chloride	17.0	µg/L	SW8260C	1.76	2.00	20.00	0	85.1	32 - 185	17.8	4.48	25	
Surr: 1,2-Dichloroethane-d4	51.3	µg/L	SW8260C			50.00		103	76 - 138				
Surr: 4-Bromofluorobenzene	46.4	µg/L	SW8260C			50.00		92.9	77 - 121				
Surr: Dibromofluoromethane	49.0	µg/L	SW8260C			50.00		97.9	67 - 128				
Surr: Toluene-d8	47.1	µg/L	SW8260C			50.00		94.3	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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-C 050214B</b>		Date Analyzed: 05/02/2014 0902h											
Test Code: 8260-W													
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Surr: 1,2-Dichloroethane-d4	50.9	µg/L	SW8260C			50.00		102	76 - 138				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.5	77 - 121				
Surr: Dibromofluoromethane	47.6	µg/L	SW8260C			50.00		95.1	67 - 128				
Surr: Toluene-d8	48.0	µg/L	SW8260C			50.00		95.9	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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: 1405043-003DMS</b>		Date Analyzed: 05/02/2014 1247h											
Test Code: 8260-W													
Chloroform	1,570	µg/L	SW8260C	12.8	20.0	200.0	1310	129	50 - 146				
Methylene chloride	194	µg/L	SW8260C	17.6	20.0	200.0	0	97.2	30 - 192				
Surr: 1,2-Dichloroethane-d4	525	µg/L	SW8260C			500.0		105	72 - 151				
Surr: 4-Bromofluorobenzene	473	µg/L	SW8260C			500.0		94.6	80 - 128				
Surr: Dibromofluoromethane	509	µg/L	SW8260C			500.0		102	80 - 124				
Surr: Toluene-d8	475	µg/L	SW8260C			500.0		95.0	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405043  
**Project:** April Monthly Ground Water 2014

**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: 1405043-003DMSD</b>		Date Analyzed: 05/02/2014 1306h											
Test Code: 8260-W													
Chloroform	1,600	µg/L	SW8260C	12.8	20.0	200.0	1310	145	50 - 146	1570	2.03	25	
Methylene chloride	213	µg/L	SW8260C	17.6	20.0	200.0	0	107	30 - 192	195	9.22	25	
Surr: 1,2-Dichloroethane-d4	519	µg/L	SW8260C			500.0		104	72 - 151				
Surr: 4-Bromofluorobenzene	487	µg/L	SW8260C			500.0		97.4	80 - 128				
Surr: Dibromofluoromethane	512	µg/L	SW8260C			500.0		102	80 - 124				
Surr: Toluene-d8	481	µg/L	SW8260C			500.0		96.2	77 - 129				

**WORK ORDER Summary**

Work Order: **1405043** Page 1 of 2

**Client:** Energy Fuels Resources, Inc. **Due Date:** 5/13/2014  
**Client ID:** DEN100 **Contact:** Garrin Palmer  
**Project:** April Monthly Ground Water 2014 **QC Level:** III **WO Type:** Project  
**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. 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	
1405043-001A	MW-11_04252014	4/25/2014 1145h	5/2/2014 1020h	200.8-DIS	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				<i>1 SEL Analytes: MN</i>				
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df - dis met	
1405043-002A	MW-25_04282014	4/28/2014 1140h	5/2/2014 1020h	200.8-DIS	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				<i>2 SEL Analytes: CD U</i>				
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405043-002B				CL-W-4500CLE		<input type="checkbox"/>	df - wc	
				F-W-4500FC		<input type="checkbox"/>	df - wc	
1405043-003A	MW-26_04302014	4/30/2014 1330h	5/2/2014 1020h	200.8-DIS	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				<i>1 SEL Analytes: U</i>				
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405043-003B				CL-W-4500CLE		<input type="checkbox"/>	df - wc	
1405043-003C				NO2/NO3-W-353.2		<input type="checkbox"/>	df - no2/no3	
1405043-003D				8260-W		<input checked="" type="checkbox"/>	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4</i>				
1405043-004A	MW-31_04282014	4/28/2014 1400h	5/2/2014 1020h	200.8-DIS	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				<i>1 SEL Analytes: SE</i>				
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405043-004B				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3	
				<i>1 SEL Analytes: NO3NO2N</i>				
1405043-004C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds	
				<i>1 SEL Analytes: TDS</i>				
1405043-004D				CL-W-4500CLE		<input type="checkbox"/>	ww - wc	
				SO4-W-4500SO4E		<input type="checkbox"/>	ww - wc	
1405043-005A	MW-35_04252014	4/25/2014 0850h	5/2/2014 1020h	200.8-DIS	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				<i>4 SEL Analytes: MN SE TL U</i>				
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405043-006A	MW-65_04282014	4/28/2014 1140h	5/2/2014 1020h	200.8-DIS	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				<i>2 SEL Analytes: CD U</i>				
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405043-006B				CL-W-4500CLE		<input type="checkbox"/>	df - wc	

# WORK ORDER Summary

Work Order: **1405043** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 5/13/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1405043-006B	MW-65_04282014	4/28/2014 1140h	5/2/2014 1020h	F-W-4500FC	Aqueous	<input type="checkbox"/>	df - wc
1405043-007A	Trip Blank	4/30/2014	5/2/2014 1020h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge

*Test Group: 8260-W-Custom; # 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.

1405043  
 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: **April Monthly Ground Water 2014**  
 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)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	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)	SO <sub>4</sub> (4500 or 300.0)	Fluoride (A4500-F C or 300.0)	VOCs Chloroform and Dichloromethane (8260C)	KNOWN HAZARDS & SAMPLE COMMENTS
1 MW-11_04252014	4/25/2014	1145	1	W		X										X INCLUDE EDD: LOCUS UPLOAD EXCEL X FIELD FILTERED FOR: Dissolved Metals
2 MW-25_04282014	4/28/2014	1140	2	W			X		X	X				X		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:
3 MW-26_04302014	4/30/2014	1330	6	W	X		X		X						X	KNOWN HAZARDS & SAMPLE COMMENTS
4 MW-31_04282014	4/28/2014	1400	4	W	X		X	X			X		X			
5 MW-35_04252014	4/25/2014	850	1	W		X			X		X	X				
6 MW-65_04282014	4/28/2014	1140	2	W			X		X	X				X		
7 TRIP BLANK	4/30/2014		3	W											X	
8 TEMP BLANK	5/1/2014		1	W												

LABORATORY USE ONLY

SAMPLES WERE:

1 SHIPPED OR HAND DELIVERED  Fed Ex

2 AMBIENT OR CHILLED  CHILLED

3 TEMPERATURE 1.3 °C

4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)  Y  N

5 PROPERLY PRESERVED  Y  N

CHECKED AT BENCH  Y  N

8 RECEIVED WITHIN HOLDING TIMES  Y  N

CGC 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 CGC RECORD  Y  N

RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE: <u>5/1/2014</u>	RECEIVED BY: <u>1</u> SIGNATURE	DATE:
PRINT NAME: <u>Tanner Holliday</u>	TIME: <u>1100</u>	PRINT NAME:	TIME:
RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE:	RECEIVED BY: <i>Denise Braun</i> SIGNATURE	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:
RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE:	RECEIVED BY: <i>Denise Braun</i> SIGNATURE	DATE: <u>5/2/14</u>
PRINT NAME:	TIME:	PRINT NAME:	TIME: <u>10:20</u>

SPECIAL INSTRUCTIONS:

Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.

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DB 5/2/14

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006											
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>			<del>yes</del>	<del>yes</del>													
COD	pH <2 H <sub>2</sub> SO <sub>4</sub>			DB 5/6														
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO <sub>3</sub>	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													
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 30, 2014

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 348002

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, 2014. 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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Energy Fuels Resources (USA), Inc.**  
**White Mesa Mill GW**  
**SDG: 348002**

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 348002**

**May 30, 2014**

**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 May 05, 2014 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>
348002001	MW-35_04252014

**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.

*Heather Shaffer*

Heather Shaffer  
Project Manager





SAMPLE RECEIPT & REVIEW FORM

Client: <u>DUM</u>		SDG/AR/COC/Work Order: <u>348002</u>	
Received By: <u>H. Taylor</u>		Date Received: <u>050514</u>	
Suspected Hazard Information		Yes	No
COC/Samples marked as radioactive?			<input checked="" type="checkbox"/>
Classified Radioactive II or III by RSO?			<input checked="" type="checkbox"/>
COC/Samples marked containing PCBs?			<input checked="" type="checkbox"/>
Package, COC, and/or Samples marked as beryllium or asbestos containing?			<input checked="" type="checkbox"/>
Shipped as a DOT Hazardous?			<input checked="" type="checkbox"/>
Samples identified as Foreign Soil?			<input checked="" type="checkbox"/>

\*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

Maximum Net Counts Observed\* (Observed Counts - Area Background Counts): 0cpm

If yes, Were swipes taken of sample containers < action levels?

If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.

Hazard Class Shipped: UN#:

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>19</u>
2a	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>130462961</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	VOA vials free of headspace (defined as < 6mm bubble)?			<input checked="" type="checkbox"/>	Sample ID's and containers affected:
7	Are Encore containers present?			<input checked="" type="checkbox"/>	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			
14	Carrier and tracking number.				Circle Applicable: FedEx Air    FedEx Ground    UPS    Field Services    Courier    Other  <u>8032 7121 4652</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 30-MAY-14  
 Work Order: 348002  
 Page 1 of 2

GEL Work Order/SDG: 348002      April Monthly GW 2014  
 Client SDG: 348002  
 Project Manager: Heather Shaffer  
 Project Name: DNMI00100 White Mesa Mill GW  
 Purchase Order: DW16138  
 Package Level: LEVEL3  
 EDD Format: EIM\_DNMI

Work Order Due Date: 02-JUN-14  
 Package Due Date: 30-MAY-14  
 EDD Due Date: 02-JUN-14  
 Due Date: 02-JUN-14  
 HXS1

Collector: C  
 Prelogin #: 20140516193  
 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
348002001	MW-35_04252014		25-APR-14 08:50	05-MAY-14 10:10	-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_04252014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	y 19

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: 30-MAY-14

Work Order: 348002

Page 2 of 2

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**List of current GEL Certifications as of 30 May 2014**

<b>State</b>	<b>Certification</b>
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235-14-9
Utah NELAP	SC000122013-11
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 348002**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
Analytical Method: EPA 900.1 Modified  
Analytical Batch Number: 1389559

<b>Sample ID</b>	<b>Client ID</b>
348002001	MW-35_04252014
1203092577	Method Blank (MB)
1203092578	348002001(MW-35_04252014) Sample Duplicate (DUP)
1203092579	348002001(MW-35_04252014) Matrix Spike (MS)
1203092580	348002001(MW-35_04252014) Matrix Spike Duplicate (MSD)
1203092581	Laboratory Control Sample (LCS)

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: 348002001 (MW-35\_04252014).

**QC Information**

All of the QC samples meet the required acceptance limits with the following exceptions: The sample and the

duplicate, 1203092578 (MW-35\_04252014) and 348002001 (MW-35\_04252014), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with value of 1.53.

**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 batch 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**

Additional comments were not required for this sample set.

**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: 348002 GEL Work Order: 348002

**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 2014

Title: Group Leader

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: June 2, 2014

Page 1 of 2

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

**Contact: Ms. Kathy Weinel**

**Workorder: 348002**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1389559										
QC1203092578	348002001	DUP									
Gross Radium Alpha		2.95		4.41	pCi/L	39.7*		(0%-20%)	CXP3	05/31/14	13:06
	Uncertainty	+/-0.588		+/-0.586							
QC1203092581	LCS										
Gross Radium Alpha	555			528	pCi/L		95	(75%-125%)		05/31/14	13:06
	Uncertainty			+/-6.13							
QC1203092577	MB										
Gross Radium Alpha			U	0.586	pCi/L					05/30/14	16:44
	Uncertainty			+/-0.304							
QC1203092579	348002001	MS									
Gross Radium Alpha	565	2.95		524	pCi/L		92.3	(75%-125%)		05/31/14	13:06
	Uncertainty	+/-0.588		+/-5.99							
QC1203092580	348002001	MSD									
Gross Radium Alpha	565	2.95		508	pCi/L	3.10	89.4	(0%-20%)		05/31/14	13:06
	Uncertainty	+/-0.588		+/-5.94							

**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: 348002

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

May 2014



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-001  
**Client Sample ID:** MW-11\_05142014  
**Collection Date:** 5/14/2014 1155h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	5/16/2014 1600h	5/19/2014 2313h	E200.8	0.00200	0.128	

463 West 3600 South  
Salt Lake City, UT 84115

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



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-002  
**Client Sample ID:** MW-14\_05132014  
**Collection Date:** 5/13/2014 1455h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date		Date		Method	Reporting	Analytical	Qual
		Prepared	Analyzed			Used	Limit	Result	
Manganese	mg/L	5/16/2014 1600h	5/19/2014 2330h			E200.8	0.00500	<b>2.06</b>	

463 West 3600 South  
Salt Lake City, UT 84115

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



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.

**Contact:** Garrin Palmer

**Project:** May Monthly Ground Water

**Lab Sample ID:** 1405337-003

**Client Sample ID:** MW-25\_05132014

**Collection Date:** 5/13/2014 1200h

**Received Date:** 5/16/2014 920h

### **Analytical Results**

### **DISSOLVED METALS**

<b>Compound</b>	<b>Units</b>	<b>Date</b>		<b>Date</b>		<b>Method</b>	<b>Reporting</b>	<b>Analytical</b>	<b>Qual</b>
		<b>Prepared</b>		<b>Analyzed</b>		<b>Used</b>	<b>Limit</b>	<b>Result</b>	
Cadmium	mg/L	5/16/2014	1600h	5/17/2014	849h	E200.8	0.000500	<b>0.00134</b>	
Uranium	mg/L	5/16/2014	1600h	5/20/2014	124h	E200.8	0.000200	<b>0.00743</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.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-003  
**Client Sample ID:** MW-25\_05132014  
**Collection Date:** 5/13/2014 1200h  
**Received Date:** 5/16/2014 920h

**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		5/16/2014 1746h	E300.0	10.0	<b>26.4</b>	
Fluoride	mg/L		5/16/2014 2127h	E300.0	0.100	<b>0.321</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 Monthly Ground Water

**Lab Sample ID:** 1405337-004

**Client Sample ID:** MW-26\_05142014

**Collection Date:** 5/14/2014 1400h

**Received Date:** 5/16/2014 920h

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	5/16/2014 1600h	5/20/2014 129h	E200.8	0.000200	<b>0.0906</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 Monthly Ground Water

**Lab Sample ID:** 1405337-004

**Client Sample ID:** MW-26\_05142014

**Collection Date:** 5/14/2014 1400h

**Received Date:** 5/16/2014 920h

### **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		5/16/2014 1802h	E300.0	10.0	<b>61.0</b>	
Nitrate/Nitrite (as N)	mg/L		5/16/2014 1812h	E353.2	0.500	<b>1.64</b>	

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Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-004D  
**Client Sample ID:** MW-26\_05142014  
**Collection Date:** 5/14/2014 1400h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/16/2014 1151h

**Units:** µg/L                      **Dilution Factor:** 20                      **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	1,580	~

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	992	1,000	99.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	991	1,000	99.1	80-128	
Surr: Dibromofluoromethane	1868-53-7	965	1,000	96.5	80-124	
Surr: Toluene-d8	2037-26-5	966	1,000	96.6	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

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**Analyzed:** 5/16/2014 1113h

**Units:** µg/L                      **Dilution Factor:** 1                      **Method:** SW8260C

Kyle F. Gross  
Laboratory Director

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	10.2	

Jose Rocha  
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.2	50.00	98.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.7	50.00	99.4	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.2	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.6	77-129	



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-005  
**Client Sample ID:** MW-30\_05142014  
**Collection Date:** 5/14/2014 1050h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	5/16/2014 1600h	5/17/2014 855h	E200.8	0.00200	<b>0.0370</b>	
Uranium	mg/L	5/16/2014 1600h	5/20/2014 135h	E200.8	0.000200	<b>0.00982</b>	

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Kyle F. Gross  
 Laboratory Director

Jose Rocha  
 QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-005  
**Client Sample ID:** MW-30\_05142014  
**Collection Date:** 5/14/2014 1050h  
**Received Date:** 5/16/2014 920h

**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		5/16/2014 1818h	E300.0	50.0	<b>128</b>	
Nitrate/Nitrite (as N)	mg/L		5/16/2014 1755h	E353.2	1.00	<b>17.9</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-006  
**Client Sample ID:** MW-31\_05132014  
**Collection Date:** 5/13/2014 1400h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

<u>Compound</u>	<u>Units</u>	<u>Date</u>		<u>Method</u>	<u>Reporting</u>	<u>Analytical</u>	<u>Qual</u>
		<u>Prepared</u>	<u>Analyzed</u>	<u>Used</u>	<u>Limit</u>	<u>Result</u>	
Selenium	mg/L	5/16/2014 1600h	5/17/2014 918h	E200.8	0.00200	<b>0.0745</b>	

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-006  
**Client Sample ID:** MW-31\_05132014  
**Collection Date:** 5/13/2014 1400h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		5/16/2014 1833h	E300.0	50.0	<b>200</b>	1
Nitrate/Nitrite (as N)	mg/L		5/16/2014 1757h	E353.2	2.00	<b>23.3</b>	
Sulfate	mg/L		5/16/2014 1833h	E300.0	50.0	<b>639</b>	1
Total Dissolved Solids	mg/L		5/16/2014 1145h	SM2540C	20.0	<b>1,510</b>	

<sup>1</sup> - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-007  
**Client Sample ID:** MW-35\_05142014  
**Collection Date:** 5/14/2014 1220h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	5/16/2014 1600h	5/19/2014 2335h	E200.8	0.00200	<b>0.249</b>	
Selenium	mg/L	5/16/2014 1600h	5/17/2014 924h	E200.8	0.00200	<b>0.0170</b>	
Thallium	mg/L	5/16/2014 1600h	5/20/2014 158h	E200.8	0.000500	<b>0.000521</b>	
Uranium	mg/L	5/16/2014 1600h	5/20/2014 141h	E200.8	0.000200	<b>0.0269</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 3, 2014

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_05142014	Project: DNMI00100
Sample ID: 348856001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 14-MAY-14 12:20	
Receive Date: 16-MAY-14	
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		3.67	+/-0.601	0.757	1.00	pCi/L		CXP3	05/30/14	1639	1389559	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"			98.5	(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:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-008  
**Client Sample ID:** MW-65\_05142014  
**Collection Date:** 5/14/2014 1220h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

### Analytical Results

### DISSOLVED METALS

Compound	Units	Date		Method	Reporting	Analytical	Qual
		Prepared	Analyzed	Used	Limit	Result	
Manganese	mg/L	5/16/2014 1600h	5/19/2014 2341h	E200.8	0.00200	<b>0.226</b>	
Selenium	mg/L	5/16/2014 1600h	5/17/2014 930h	E200.8	0.00200	<b>0.0155</b>	
Thallium	mg/L	5/16/2014 1600h	5/20/2014 204h	E200.8	0.000500	<b>0.000672</b>	
Uranium	mg/L	5/16/2014 1600h	5/20/2014 147h	E200.8	0.000200	<b>0.0278</b>	

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web: www.awal-labs.com

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 3, 2014

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_05142014	Project: DNMI00100
Sample ID: 348856002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 14-MAY-14 12:20	
Receive Date: 16-MAY-14	
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		5.38	+/-0.700	0.837	1.00	pCi/L		CXP3	05/30/14	1643	1389559	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"			98.9	(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.



## ORGANIC ANALYTICAL REPORT

**Client:** Energy Fuels Resources, Inc.  
**Project:** May Monthly Ground Water  
**Lab Sample ID:** 1405337-009A  
**Client Sample ID:** Trip Blank  
**Collection Date:** 5/14/2014 1400h  
**Received Date:** 5/16/2014 920h

**Contact:** Garrin Palmer

Test Code: 8260-W

### Analytical Results

VOAs by GC/MS Method 8260C/5030C

**Analyzed:** 5/16/2014 1132h

**Units:** µg/L

**Dilution Factor:** 1

**Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Carbon tetrachloride	56-23-5	1.00	< 1.00	
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	49.4	50.00	98.8	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.8	50.00	99.6	80-128	
Surr: Dibromofluoromethane	1868-53-7	47.5	50.00	94.9	80-124	
Surr: Toluene-d8	2037-26-5	48.6	50.00	97.3	77-129	

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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 Monthly Ground Water

Dear Garrin Palmer:

Lab Set ID: 1405337

463 West 3600 South  
Salt Lake City, UT 84115

American West Analytical Laboratories received 9 sample(s) on 5/16/2014 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, 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:

Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=Quality Assurance Officer, email=jose@awal-labs.com, c=US  
Date: 2014.05.21 15:48:26 -06'00'

**Jose G. Rocha**

Laboratory Director or designee



## SAMPLE SUMMARY

**Client:** Energy Fuels Resources, Inc. **Contact:** Garrin Palmer  
**Project:** May Monthly Ground Water  
**Lab Set ID:** 1405337  
**Date Received:** 5/16/2014 920h

463 West 3600 South Salt Lake City, UT 84115	<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date Collected</b>	<b>Matrix</b>	<b>Analysis</b>
	1405337-001A	MW-11_05142014	5/14/2014 1155h	Aqueous	ICPMS Metals, Dissolved
	1405337-002A	MW-14_05132014	5/13/2014 1455h	Aqueous	ICPMS Metals, Dissolved
	1405337-003A	MW-25_05132014	5/13/2014 1200h	Aqueous	ICPMS Metals, Dissolved
	1405337-003B	MW-25_05132014	5/13/2014 1200h	Aqueous	Anions, E300.0
Phone: (801) 263-8686	1405337-004A	MW-26_05142014	5/14/2014 1400h	Aqueous	ICPMS Metals, Dissolved
Toll Free: (888) 263-8686	1405337-004B	MW-26_05142014	5/14/2014 1400h	Aqueous	Anions, E300.0
Fax: (801) 263-8687	1405337-004C	MW-26_05142014	5/14/2014 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
e-mail: awal@awal-labs.com	1405337-004D	MW-26_05142014	5/14/2014 1400h	Aqueous	VOA by GC/MS Method 8260C/5030C
web: www.awal-labs.com	1405337-005A	MW-30_05142014	5/14/2014 1050h	Aqueous	ICPMS Metals, Dissolved
	1405337-005B	MW-30_05142014	5/14/2014 1050h	Aqueous	Anions, E300.0
	1405337-005C	MW-30_05142014	5/14/2014 1050h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1405337-006A	MW-31_05132014	5/13/2014 1400h	Aqueous	ICPMS Metals, Dissolved
Kyle F. Gross	1405337-006B	MW-31_05132014	5/13/2014 1400h	Aqueous	Anions, E300.0
Laboratory Director	1405337-006C	MW-31_05132014	5/13/2014 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1405337-006D	MW-31_05132014	5/13/2014 1400h	Aqueous	Total Dissolved Solids, A2540C
Jose Rocha	1405337-007A	MW-35_05142014	5/14/2014 1220h	Aqueous	ICPMS Metals, Dissolved
QA Officer	1405337-008A	MW-65_05142014	5/14/2014 1220h	Aqueous	ICPMS Metals, Dissolved
	1405337-009A	Trip Blank	5/14/2014 1400h	Aqueous	VOA by GC/MS Method 8260C/5030C



## Inorganic Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** May Monthly Ground Water  
**Lab Set ID:** 1405337

463 West 3600 South  
Salt Lake City, UT 84115

### Sample Receipt Information:

**Date of Receipt:** 5/16/2014  
**Date(s) of Collection:** 5/13 & 5/14/2014  
**Sample Condition:** Intact  
**C-O-C Discrepancies:** None

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e-mail: awal@awal-labs.com

**Holding Time and Preservation Requirements:** The analysis and preparation of all samples were performed within the method holding times. All 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.

**Analytical QC Requirements:** All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Kyle F. Gross  
Laboratory Director

**Batch QC Requirements:** MB, LCS, MS, MSD, RPD:

Jose Rocha  
QA Officer

**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
1405337-006B	Chloride	MS	Sample matrix interference
1405337-006B	Fluoride	MS	Sample matrix interference
1405337-006B	Sulfate	MS/MSD	Sample matrix interference

**Duplicate (DUP):** The parameters that require a duplicate analysis had RPDs inside the control limits.

**Corrective Action:** None required.



## Volatile Case Narrative

**Client:** Energy Fuels Resources, Inc.  
**Contact:** Garrin Palmer  
**Project:** May Monthly Ground Water  
**Lab Set ID:** 1405337

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Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

### Sample Receipt Information:

**Date of Receipt:** 5/16/2014  
**Date(s) of Collection:** 5/13 & 5/14/2014  
**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 on sample 1405337-004D.

**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:** 1405337  
**Project:** May Monthly Ground Water

**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-32379</b>		Date Analyzed:	05/17/2014 809h										
Test Code: 200.8-DIS		Date Prepared:	05/16/2014 1600h										
Cadmium	0.182	mg/L	E200.8	0.0000726	0.000500	0.2000	0	91.1	85 - 115				
Selenium	0.187	mg/L	E200.8	0.000686	0.00200	0.2000	0	93.7	85 - 115				
<b>Lab Sample ID: LCS-32379</b>		Date Analyzed:	05/19/2014 2307h										
Test Code: 200.8-DIS		Date Prepared:	05/16/2014 1600h										
Manganese	0.187	mg/L	E200.8	0.00166	0.00200	0.2000	0	93.6	85 - 115				
Selenium	0.186	mg/L	E200.8	0.000686	0.00200	0.2000	0	93.0	85 - 115				
Thallium	0.182	mg/L	E200.8	0.000222	0.00200	0.2000	0	91.0	85 - 115				
Uranium	0.197	mg/L	E200.8	0.0000598	0.00200	0.2000	0	98.7	85 - 115				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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-32379	Date Analyzed:	05/17/2014	804h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/16/2014	1600h										
Cadmium	< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Selenium	< 0.00200	mg/L	E200.8	0.000686	0.00200								
<b>Lab Sample ID:</b> MB-32379	Date Analyzed:	05/19/2014	2301h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/16/2014	1600h										
Manganese	< 0.00200	mg/L	E200.8	0.00166	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.000686	0.00200								
<b>Lab Sample ID:</b> MB-32379	Date Analyzed:	05/20/2014	118h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/16/2014	1600h										
Uranium	< 0.000200	mg/L	E200.8	0.00000598	0.000200								
<b>Lab Sample ID:</b> MB-32379	Date Analyzed:	05/20/2014	153h										
<b>Test Code:</b> 200.8-DIS	Date Prepared:	05/16/2014	1600h										
Thallium	< 0.000500	mg/L	E200.8	0.0000555	0.000500								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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: 1405337-001AMS</b>		Date Analyzed: 05/17/2014 832h											
Test Code: 200.8-DIS		Date Prepared: 05/16/2014 1600h											
Cadmium	0.217	mg/L	E200.8	0.0000726	0.000500	0.2000	0	109	75 - 125				
Selenium	0.214	mg/L	E200.8	0.000686	0.00200	0.2000	0	107	75 - 125				
<b>Lab Sample ID: 1405337-001AMS</b>		Date Analyzed: 05/19/2014 2318h											
Test Code: 200.8-DIS		Date Prepared: 05/16/2014 1600h											
Manganese	0.367	mg/L	E200.8	0.00166	0.00200	0.2000	0.128	119	75 - 125				
Selenium	0.212	mg/L	E200.8	0.000686	0.00200	0.2000	0	106	75 - 125				
Thallium	0.194	mg/L	E200.8	0.000222	0.00200	0.2000	0.000225	96.9	75 - 125				
Uranium	0.220	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000711	110	75 - 125				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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: 1405337-001AMSD</b>		Date Analyzed:	05/17/2014 838h										
Test Code: 200.8-DIS		Date Prepared:	05/16/2014 1600h										
Cadmium	0.205	mg/L	E200.8	0.0000726	0.000500	0.2000	0	102	75 - 125	0.217	6.05	20	
Selenium	0.208	mg/L	E200.8	0.000686	0.00200	0.2000	0	104	75 - 125	0.214	2.95	20	
<b>Lab Sample ID: 1405337-001AMSD</b>		Date Analyzed:	05/19/2014 2324h										
Test Code: 200.8-DIS		Date Prepared:	05/16/2014 1600h										
Manganese	0.362	mg/L	E200.8	0.00166	0.00200	0.2000	0.128	117	75 - 125	0.367	1.30	20	
Selenium	0.207	mg/L	E200.8	0.000686	0.00200	0.2000	0	103	75 - 125	0.212	2.78	20	
Thallium	0.212	mg/L	E200.8	0.000222	0.00200	0.2000	0.000225	106	75 - 125	0.194	8.95	20	
Uranium	0.237	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000711	118	75 - 125	0.22	7.58	20	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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> 1405337-006DDUP		Date Analyzed: 05/16/2014 1145h											
<b>Test Code:</b> TDS-W-2540C													
Total Dissolved Solids	1,540	mg/L	SM2540C	4.34	20.0					1510	1.83	5	



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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: LCS-R69027</b> Date Analyzed: 05/16/2014 1350h													
Test Code: 300.0-W													
Chloride	5.21	mg/L	E300.0	0.00623	0.100	5.000	0	104	90 - 110				
Fluoride	5.02	mg/L	E300.0	0.00510	0.100	5.000	0	100	90 - 110				
Sulfate	5.25	mg/L	E300.0	0.0331	0.750	5.000	0	105	90 - 110				
<b>Lab Sample ID: LCS-R69011</b> Date Analyzed: 05/16/2014 1731h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.01	mg/L	E353.2	0.00368	0.100	1.000	0	101	90 - 110				
<b>Lab Sample ID: LCS-R69054</b> Date Analyzed: 05/16/2014 1145h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	204	mg/L	SM2540C	2.17	10.0	205.0	0	99.5	80 - 120				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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-R69027</b> Date Analyzed: 05/16/2014 1334h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00623	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00510	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0331	0.750								
<b>Lab Sample ID: MB-R69011</b> Date Analyzed: 05/16/2014 1729h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00368	0.100								
<b>Lab Sample ID: MB-R69054</b> Date Analyzed: 05/16/2014 1145h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								
<b>Lab Sample ID: MB-SPLP-32325</b> Date Analyzed: 05/16/2014 1145h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	2.17	10.0								



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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: 1405196-008AMS</b> Date Analyzed: 05/16/2014 1659h													
Test Code: 300.0-W													
Chloride	4.85	mg/L	E300.0	0.00623	0.100	5.000	0	96.9	90 - 110				
Fluoride	4.77	mg/L	E300.0	0.00510	0.100	5.000	0	95.3	90 - 110				
Sulfate	5.06	mg/L	E300.0	0.0331	0.750	5.000	0.0394	100	90 - 110				
<b>Lab Sample ID: 1405337-006BMS</b> Date Analyzed: 05/16/2014 1849h													
Test Code: 300.0-W													
Chloride	2,400	mg/L	E300.0	3.12	50.0	2,500	200	88.1	90 - 110				U
Fluoride	2,190	mg/L	E300.0	2.55	50.0	2,500	4.26	87.6	90 - 110				U
Sulfate	2,870	mg/L	E300.0	16.6	375	2,500	639	89.2	90 - 110				U
<b>Lab Sample ID: 1405337-004CMS</b> Date Analyzed: 05/16/2014 1816h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	6.71	mg/L	E353.2	0.0184	0.500	5.000	1.64	101	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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Jose Rocha  
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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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: 1405196-008AMSD</b>		Date Analyzed: 05/16/2014 1715h											
Test Code: 300.0-W													
Chloride	5.18	mg/L	E300.0	0.00623	0.100	5.000	0	104	90 - 110	4.85	6.64	20	
Fluoride	5.17	mg/L	E300.0	0.00510	0.100	5.000	0	103	90 - 110	4.77	8.05	20	
Sulfate	5.40	mg/L	E300.0	0.0331	0.750	5.000	0.0394	107	90 - 110	5.06	6.48	20	
<b>Lab Sample ID: 1405337-006BMSD</b>		Date Analyzed: 05/16/2014 1905h											
Test Code: 300.0-W													
Chloride	2,870	mg/L	E300.0	3.12	50.0	2,500	200	107	90 - 110	2400	17.6	20	
Fluoride	2,620	mg/L	E300.0	2.55	50.0	2,500	4.26	105	90 - 110	2190	17.9	20	
Sulfate	3,410	mg/L	E300.0	16.6	375	2,500	639	111	90 - 110	2870	17.2	20	
<b>Lab Sample ID: 1405337-004CMSD</b>		Date Analyzed: 05/16/2014 1817h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	7.10	mg/L	E353.2	0.0184	0.500	5.000	1.64	109	90 - 110	6.71	5.66	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:** 1405337  
**Project:** May Monthly Ground Water

**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-C 051614A</b>		<b>Date Analyzed: 05/16/2014 731h</b>											
<b>Test Code: 8260-W</b>													
Chloroform	18.9	µg/L	SW8260C	0.626	2.00	20.00	0	94.7	67 - 132				
Methylene chloride	17.6	µg/L	SW8260C	0.321	2.00	20.00	0	88.2	32 - 185				
Surr: 1,2-Dichloroethane-d4	48.9	µg/L	SW8260C			50.00		97.8	76 - 138				
Surr: 4-Bromofluorobenzene	48.5	µg/L	SW8260C			50.00		97.1	77 - 121				
Surr: Dibromofluoromethane	49.5	µg/L	SW8260C			50.00		99.1	67 - 128				
Surr: Toluene-d8	48.5	µg/L	SW8260C			50.00		97.0	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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-C 051614A</b>		<b>Date Analyzed: 05/16/2014 808h</b>											
<b>Test Code: 8260-W</b>													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.738	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.626	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.321	1.00								
Surr: 1,2-Dichloroethane-d4	48.8	µg/L	SW8260C			50.00		97.7	76 - 138				
Surr: 4-Bromofluorobenzene	48.6	µg/L	SW8260C			50.00		97.2	77 - 121				
Surr: Dibromofluoromethane	47.0	µg/L	SW8260C			50.00		94.1	67 - 128				
Surr: Toluene-d8	48.5	µg/L	SW8260C			50.00		97.0	81 - 135				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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> 1405337-004DMS		Date Analyzed: 05/16/2014 1209h											
<b>Test Code:</b> 8260-W													
Chloroform	1,950	µg/L	SW8260C	12.5	40.0	400.0	1580	91.6	50 - 146				
Methylene chloride	382	µg/L	SW8260C	6.42	40.0	400.0	0	95.4	30 - 192				
Surr: 1,2-Dichloroethane-d4	993	µg/L	SW8260C			1,000		99.3	72 - 151				
Surr: 4-Bromofluorobenzene	953	µg/L	SW8260C			1,000		95.3	80 - 128				
Surr: Dibromofluoromethane	988	µg/L	SW8260C			1,000		98.8	80 - 124				
Surr: Toluene-d8	941	µg/L	SW8260C			1,000		94.1	77 - 129				



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## QC SUMMARY REPORT

**Client:** Energy Fuels Resources, Inc.  
**Lab Set ID:** 1405337  
**Project:** May Monthly Ground Water

**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> 1405337-004DMSD		<b>Date Analyzed:</b> 05/16/2014 1228h											
<b>Test Code:</b> 8260-W													
Chloroform	2,070	µg/L	SW8260C	12.5	40.0	400.0	1580	123	50 - 146	1950	6.20	25	
Methylene chloride	404	µg/L	SW8260C	6.42	40.0	400.0	0	101	30 - 192	382	5.65	25	
Surr: 1,2-Dichloroethane-d4	1,020	µg/L	SW8260C			1,000		102	72 - 151				
Surr: 4-Bromofluorobenzene	952	µg/L	SW8260C			1,000		95.2	80 - 128				
Surr: Dibromofluoromethane	991	µg/L	SW8260C			1,000		99.1	80 - 124				
Surr: Toluene-d8	954	µg/L	SW8260C			1,000		95.4	77 - 129				

Carbon Tetrachloride added to VOCs per Kathy. MC

**WORK ORDER Summary**

Work Order: **1405337** Page 1 of 2

**Client:** Energy Fuels Resources, Inc. **Due Date:** 5/28/2014  
**Client ID:** DEN100 **Contact:** Garrin Palmer  
**Project:** May Monthly Ground Water **QC Level:** III **WO Type:** Project  
**Comments:** PA Rush. QC 3 (Summary/No chromatograms). Groundwater project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus.  
 Email Group. Sample for dissolved metals were field filtered;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1405337-001A	MW-11_05142014	5/14/2014 1155h	5/16/2014 0920h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-002A	MW-14_05132014	5/13/2014 1455h	5/16/2014 0920h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-003A	MW-25_05132014	5/13/2014 1200h	5/16/2014 0920h	200.8-DIS <i>2 SEL Analytes: CD U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-003B				300.0-W <i>2 SEL Analytes: CL F</i>		<input checked="" type="checkbox"/>	df - wc	
1405337-004A	MW-26_05142014	5/14/2014 1400h	5/16/2014 0920h	200.8-DIS <i>1 SEL Analytes: U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-004B				300.0-W <i>1 SEL Analytes: CL</i>		<input checked="" type="checkbox"/>	df - cl	
1405337-004C				NO2/NO3-W-353.2		<input type="checkbox"/>	df - no2/no3	
1405337-004D				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>		<input checked="" type="checkbox"/>	VOCFridge	3
1405337-005A	MW-30_05142014	5/14/2014 1050h	5/16/2014 0920h	200.8-DIS <i>2 SEL Analytes: SE U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-005B				300.0-W <i>1 SEL Analytes: CL</i>		<input checked="" type="checkbox"/>	df - cl	
1405337-005C				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3	
1405337-006A	MW-31_05132014	5/13/2014 1400h	5/16/2014 0920h	200.8-DIS <i>1 SEL Analytes: SE</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-006B				300.0-W <i>2 SEL Analytes: CL SO4</i>		<input checked="" type="checkbox"/>	df - wc	

# WORK ORDER Summary

Work Order: **1405337** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 5/28/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1405337-006C	MW-31_05132014	5/13/2014 1400h	5/16/2014 0920h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	<input checked="" type="checkbox"/>	df - no2/no3	1
1405337-006D				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds	
1405337-007A	MW-35_05142014	5/14/2014 1220h	5/16/2014 0920h	200.8-DIS <i>4 SEL Analytes: MN SE TL U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-008A	MW-65_05142014	5/14/2014 1220h	5/16/2014 0920h	200.8-DIS <i>4 SEL Analytes: MN SE TL U</i>	Aqueous	<input checked="" type="checkbox"/>	df - dis met	1
				200.8-DIS-PR		<input type="checkbox"/>	df - dis met	
1405337-009A	Trip Blank	5/14/2014 1400h	5/16/2014 0920h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	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**

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.

1405337  
 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;**  
 EMAIL: **dturk@energyfuels.com**  
 PROJECT NAME: **May Monthly Ground Water**  
 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)	Dissolved Manganese (200.7/200.8)	Cl (4500 or 300.0)	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)	SO <sub>4</sub> (4500 or 300.0)	Fluoride (A4500-F C or 300.0)	VOCs Chloroform and Dichloromethane (8260C) Carbon tetrachloride	LABORATORY USE ONLY		
																INCLUDE EDD: LOCUS UPLOAD EXCEL	FIELD FILTERED FOR: Dissolved Metals	SAMPLES WERE:
1 MW-11_05142014	5/14/2014	1155	1	W		X											2. AMBIENT OR CHILLED	21 °C
2 MW-14_05132014	5/13/2014	1455	1	W		X											3. RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)	N
3 MW-25_05132014	5/13/2014	1200	2	W			X	X	X					X			4. PROPERLY PRESERVED	N
4 MW-26_05142014	5/14/2014	1400	6	W	X		X	X									5. CHECKED BY BENCH	N
5 MW-30_05142014	5/14/2014	1050	3	W	X		X	X	X								6. RECEIVED WITHIN HOLDING TIMES	N
6 MW-31_05132014	5/13/2014	1400	4	W	X		X	X					X					
7 MW-35_05142014	5/14/2014	1220	1	W		X			X	X	X							
8 MW-65_05142014	5/14/2014	1220	1	W		X			X	X	X							
9 TRIP BLANK	5/14/2014	1400	1	W											X			
10 TEMP BLANK	5/15/2014	1030	1	W														
11																		
12																		

RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE: 5/15/14	RECEIVED BY: <i>Denise Brown</i> SIGNATURE	DATE: 5/16/14	SPECIAL INSTRUCTIONS:  Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.  * Carbon Tetrachloride added to VOCs per phone conversation with Kathy Weinel. MC 5/19/14
PRINT NAME: Tanner Holliday	TIME: 1030	PRINT NAME:	TIME:	
RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE:	RECEIVED BY: <i>Denise Brown</i> SIGNATURE	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	
RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE:	RECEIVED BY: <i>Denise Brown</i> SIGNATURE	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	
RELINQUISHED BY: <i>Tanner Holliday</i> SIGNATURE	DATE:	RECEIVED BY: <i>Denise Brown</i> SIGNATURE	DATE: 5/16/14	
PRINT NAME:	TIME:	PRINT NAME:	TIME: 9:20	

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006	-007	-008										
Ammonia	pH <2 H <sub>2</sub> SO <sub>4</sub>																		
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	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 12, 2014

Ms. Kathy Weinel  
Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado 80228

Re: White Mesa Mill GW  
Work Order: 348856

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 16, 2014. 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. 4505.

Sincerely,

Heather Shaffer  
Project Manager

Purchase Order: DW16138  
Enclosures



**Energy Fuels Resources (USA), Inc.**  
**White Mesa Mill GW**  
**SDG: 348856**

**Receipt Narrative  
for  
Energy Fuels Resources (USA), Inc.  
SDG: 348856**

**June 12, 2014**

**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 16, 2014 for analysis.

**Sample Identification:** The laboratory received the following samples:

<b><u>Laboratory ID</u></b>	<b><u>Client ID</u></b>
348856001	MW-35_05142014
348856002	MW-65_05142014

**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.

*Heather Shaffer*

Heather Shaffer  
Project Manager





SAMPLE RECEIPT & REVIEW FORM

Client: <u>DNMI</u>		SDG/AR/COC/Work Order: <u>348851e</u>	
Received By: <u>H. Taylor</u>		Date Received: <u>05/16/14</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>0cpm</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"/>	<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>99</u>
2a	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Temperature Device Serial #: <u>132162961</u> Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<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"/>	<input checked="" type="checkbox"/>		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sample ID's and containers affected:
7	Are Encore containers present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sample ID's affected:
11	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
14	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>8032 7121 4593-19</u>

Comments (Use Continuation Form if needed):

# GEL Laboratories LLC – Login Review Report

Report Date: 12-JUN-14  
 Work Order: 348856  
 Page 1 of 2

**GEL Work Order/SDG:** 348856      **May monthly ground water**  
**Client SDG:** 348856  
**Project Manager:** Heather Shaffer  
**Project Name:** DNMI00100 White Mesa Mill GW  
**Purchase Order:** DW16138  
**Package Level:** LEVEL3  
**EDD Format:** EIM\_DNMI

**Work Order Due Date:** 13-JUN-14  
**Package Due Date:** 10-JUN-14  
**EDD Due Date:** 13-JUN-14  
**Due Date:** 13-JUN-14  
 HXS1

**Collector:** C  
**Prelogin #:** 20140516699  
**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
348856001	MW-35_05142014		14-MAY-14 12:20	16-MAY-14 09:00	-2	1	GROUND WATER		20		1		
348856002	MW-65_05142014		14-MAY-14 12:20	16-MAY-14 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_05142014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C)	19
-002 MW-65_05142014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

**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
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# GEL Laboratories LLC – Login Review Report

Report Date: 12-JUN-14  
Work Order: 348856  
Page 2 of 2

Peer Review by: \_\_\_\_\_ Work Order (SDG#), PO# Checked? \_\_\_\_\_ C of C signed in receiver location? \_\_\_\_\_

**List of current GEL Certifications as of 12 June 2014**

<b>State</b>	<b>Certification</b>
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California NELAP	01151CA
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC000122013-10
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-12-00283, P330-12-00284
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC000122013-10
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA130005
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC000122013-10
Nebraska	NE-OS-26-13
Nevada	SC000122014-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
Oklahoma	9904
Pennsylvania NELAP	68-00485
Plant Material Permit	PDEP-12-00260
South Carolina Chemistry	10120001
South Carolina GVL	23611001
South Carolina Radiochemi	10120002
Tennessee	TN 02934
Texas NELAP	T104704235-14-9
Utah NELAP	SC000122014-12
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative  
Energy Fuels Resources (DNMI)  
SDG 348856**

**Method/Analysis Information**

**Product:** GFPC, Total Alpha Radium, Liquid  
**Analytical Method:** EPA 900.1 Modified  
**Analytical Batch Number:** 1389559

<b>Sample ID</b>	<b>Client ID</b>
348856001	MW-35_05142014
348856002	MW-65_05142014
1203092577	Method Blank (MB)
1203092578	348002001(MW-35_04252014) Sample Duplicate (DUP)
1203092579	348002001(MW-35_04252014) Matrix Spike (MS)
1203092580	348002001(MW-35_04252014) Matrix Spike Duplicate (MSD)
1203092581	Laboratory Control Sample (LCS)

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: 348002001 (MW-35\_04252014).

**QC Information**

All of the QC samples meet the required acceptance limits with the following exceptions: The sample and the duplicate, 1203092578 (MW-35\_04252014), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with value of 1.53.

**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 batch 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**

Additional comments were not required for this sample set.

**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: 348856 GEL Work Order: 348856

**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: 03 JUN 2014

Title: Group Leader

# GEL LABORATORIES LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

## QC Summary

Report Date: June 3, 2014

Page 1 of 2

Energy Fuels Resources (USA), Inc.  
225 Union Boulevard  
Suite 600  
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 348856

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
<b>Rad Gas Flow</b>											
Batch	1389559										
QC1203092578	348002001	DUP									
Gross Radium Alpha			2.95	4.41	pCi/L	39.7*		(0%-20%)	CXP3	05/31/14	13:06
	Uncertainty		+/-0.588	+/-0.586							
QC1203092581	LCS										
Gross Radium Alpha	555			528	pCi/L		95	(75%-125%)		05/31/14	13:06
	Uncertainty			+/-6.13							
QC1203092577	MB										
Gross Radium Alpha			U	0.586	pCi/L					05/30/14	16:44
	Uncertainty			+/-0.304							
QC1203092579	348002001	MS									
Gross Radium Alpha	565	2.95		524	pCi/L		92.3	(75%-125%)		05/31/14	13:06
	Uncertainty		+/-0.588	+/-5.99							
QC1203092580	348002001	MSD									
Gross Radium Alpha	565	2.95		508	pCi/L	3.10	89.4	(0%-20%)		05/31/14	13:06
	Uncertainty		+/-0.588	+/-5.94							

**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: 348856

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ											
Q											
R											
U											
UI											
UJ											
UL											
X											
Y											
^											
h											

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	5/28/2014	182.65	190	Y	1995	1999	0.20	7.06	7.11	0.71	16.02	16.01	0.06	250	243	2.84	4	3.9	N	2.53
MW-02	5/28/2014	114.29	120	Y	3884	3888	0.10	8.11	8.08	0.37	17.00	16.92	0.47	199	195	2.03	8.7	8.8	Y	1.14
MW-03	5/30/2014	47.89	50	Y	5980	5969	0.18	6.56	6.56	0.00	16.10	16.13	0.19	342	342	0.00	0	0	N	0.00
MW-03A	5/30/2014	64.04	65	Pumped dry	6183	6158	0.41	6.61	6.60	0.15	15.05	15.19	0.93	NM	NC	NC	NM	NM	N	NC
MW-05	6/4/2014	193.79	200	Y	3047	3050	0.10	7.55	7.58	0.40	15.53	15.52	0.06	319	315	1.26	0	0	N	0.00
MW-11	6/3/2014	262.10	270	Y	3075	3076	0.03	7.34	7.33	0.14	15.34	15.33	0.07	250	246	1.61	0	0	N	0.00
MW-12	6/4/2014	181.51	185	Y	4347	4359	0.28	7.08	7.10	0.28	16.64	16.66	0.12	317	318	0.31	5.1	5.2	Y	1.94
MW-14	6/3/2014	152.86	160	Y	4105	4094	0.27	7.69	7.63	0.78	15.79	15.80	0.06	283	282	0.35	0	0	N	0.00
MW-15	6/4/2014	185.42	200	Y	4488	4484	0.09	6.89	6.91	0.29	15.20	15.28	0.52	349	349	0.00	1.5	1.5	N	0.00
MW-17	5/30/2014	237.12	240	Y	4075	4070	0.12	7.14	7.12	0.28	16.19	16.10	0.56	333	333	0.00	2	2	N	0.00
MW-18	5/27/2014	378.49	390	Y	3623	3616	0.19	7.01	7.04	0.43	14.95	14.98	0.20	252	251	0.40	7.5	7.4	Y	1.34
MW-19	5/27/2014	541.77	550	Y	1650	1655	0.30	7.40	7.38	0.27	16.10	16.08	0.12	276	275	0.36	0	0	N	0.00
MW-20	6/18/2014	N/A	N/A	Bailed dry	6120	6080	0.66	7.08	7.10	0.28	16.88	16.95	0.41	NM	NC	NC	NM	NM	N	NC
MW-22	6/11/2014	284.97	300	Y	7999	7998	0.01	4.53	4.55	0.44	15.43	15.40	0.19	381	379	0.53	0	0	N	0.00
MW-23	6/11/2014	112.57	120	Pumped dry	3957	3974	0.43	6.70	6.67	0.45	17.92	17.79	0.73	NM	NC	NC	NM	NM	N	NC
MW-24	5/30/2014	42.51	75	Pumped dry	4610	4616	0.13	6.05	6.07	0.33	15.98	16.04	0.37	NM	NC	NC	NM	NM	N	NC
MW-25	6/2/2014	245.85	250	Y	3287	3294	0.21	6.76	6.74	0.30	15.26	15.24	0.13	329	329	0.00	16	16	Y	0.00
MW-26	6/5/2014	NA	NA	NA	3562		NC	6.78		NC	16.21		NC	235		NC	0		N	NC
MW-27	5/28/2014	251.63	260	Y	1580	1571	0.57	7.80	7.80	0.00	16.00	15.87	0.82	270	269	0.37	0	0	N	0.00
MW-28	6/18/2014	177.84	180	Y	4261	4274	0.30	6.78	6.78	0.00	15.31	15.28	0.20	240	241	0.42	0	0	N	0.00
MW-29	6/3/2014	154.85	160	Y	4866	4889	0.47	8.05	7.98	0.87	15.39	15.38	0.06	193	191	1.04	0	0	N	0.00
MW-30	6/3/2014	210.04	215	Y	2073	2056	0.82	6.89	6.89	0.00	15.02	14.94	0.53	346	343	0.87	2.5	2.6	N	3.92
MW-31	6/2/2014	374.04	380	Y	2182	2189	0.32	8.38	8.23	1.81	15.83	15.80	0.19	302	301	0.33	0	0	N	0.00
MW-32	5/23/2014	345.75	355	Y	3994	3996	0.05	6.63	6.64	0.15	14.59	14.63	0.27	190	185	2.67	16	17	Y	6.06
MW-35	6/4/2014	73.66	75	Y	4367	4367	0.00	6.81	6.83	0.29	14.55	14.59	0.27	340	336	1.18	0	0	N	0.00
MW-36	5/29/2014	67.10	70	Y	5120	5129	0.18	6.95	6.95	0.00	14.90	14.89	0.07	352	352	0.00	0	0	N	0.00
MW-37	6/18/2014	N/A	N/A	Bailed dry	4575	4591	0.35	6.66	6.65	0.15	15.27	15.31	0.26	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 April Monthly</b>																				
MW-11	4/25/2014	260.82	265	Y	2880	2875	0.17	7.71	7.71	0.00	15.03	15.00	0.20	311	305	1.95	4.0	4.0	Y	0.00
MW-14	4/23/2014	153.71	155	Y	3890	3891	0.03	6.88	6.84	0.58	14.51	14.49	0.14	408	407	0.25	0	0	Y	0.00
MW-25	4/28/2014	247.59	250	Y	3173	3180	0.22	7.20	7.18	0.28	14.57	14.55	0.14	294	294	0.00	113	110	N	2.69
MW-26	4/30/2014		NA		3328		NC	7.19		NC	15.12		NC	319		NC	0.0		Y	NC
MW-30	4/23/2014	210.94	215	Y	2131	2076	2.61	7.07	7.06	0.14	14.67	14.65	0.14	314	313	0.32	0	0	Y	0.00
MW-31	4/28/2014	375.24	380	Y	2088	2086	0.10	7.41	7.45	0.54	14.39	14.37	0.14	299	296	1.01	0	0	Y	0.00
MW-35	4/25/2014	72.88	75	Y	4153	4152	0.02	6.78	6.79	0.15	14.40	14.41	0.07	358	354	1.12	0	0	Y	0.00
<b>Accelerated May Monthly</b>																				
MW-11	5/14/2014	259.09	270	Y	2930	2932	0.07	7.40	7.45	0.67	15.21	15.15	0.40	262	255	2.71	0	0	Y	0.00
MW-14	5/13/2014	150.46	155	Y	3991	3990	0.03	6.54	6.60	0.91	14.99	14.98	0.07	260	260	0.00	0	0	Y	0.00
MW-25	5/13/2014	244.64	255	Y	3061	3078	0.55	6.78	6.80	0.29	17.95	17.94	0.06	250	249	0.40	37	38	N	2.67
MW-26	5/14/2014		NA		3500		NC	7.13		NC	15.45		NC	276		NC	2.5		Y	NC
MW-30	5/14/2014	207.03	210	Y	2109	2112	0.14	6.87	6.88	0.15	15.05	15.04	0.07	214	213	0.47	0	0	Y	0.00
MW-31	5/13/2014	372.54	380	Y	2133	2127	0.28	6.82	6.83	0.15	14.70	14.68	0.14	271	269	0.74	0	0	Y	0.00
MW-35	5/14/2014	70.65	75	Y	4262	4268	0.14	7.07	7.10	0.42	14.93	14.90	0.20	251	247	1.61	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: 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	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Acetone	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Benzene	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Carbon tetrachloride	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Chloroform	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Chloromethane	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Methylene chloride	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Naphthalene	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Tetrahydrofuran	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Toluene	5/23/2014	5/28/2014	5	14	OK
Trip Blank	Xylenes, Total	5/23/2014	5/28/2014	5	14	OK
Trip Blank	2-Butanone	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Acetone	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Benzene	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Carbon tetrachloride	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Chloroform	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Chloromethane	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Methylene chloride	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Naphthalene	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Tetrahydrofuran	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Toluene	5/27/2014	5/30/2014	3	14	OK
Trip Blank	Xylenes, Total	5/27/2014	5/30/2014	3	14	OK
Trip Blank	2-Butanone	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Acetone	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Benzene	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Carbon tetrachloride	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Chloroform	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Chloromethane	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Methylene chloride	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Naphthalene	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Tetrahydrofuran	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Toluene	5/30/2014	6/3/2014	4	14	OK
Trip Blank	Xylenes, Total	5/30/2014	6/3/2014	4	14	OK
Trip Blank	2-Butanone	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Acetone	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Benzene	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Carbon tetrachloride	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Chloroform	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Chloromethane	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Methylene chloride	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Naphthalene	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Tetrahydrofuran	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Toluene	6/2/2014	6/6/2014	4	14	OK
Trip Blank	Xylenes, Total	6/2/2014	6/6/2014	4	14	OK
Trip Blank	2-Butanone	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Acetone	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Benzene	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Carbon tetrachloride	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Chloroform	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Chloromethane	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Methylene chloride	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Naphthalene	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Tetrahydrofuran	6/11/2014	6/13/2014	2	14	OK
Trip Blank	Toluene	6/11/2014	6/13/2014	2	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Xylenes, Total	6/11/2014	6/13/2014	2	14	OK
Trip Blank	2-Butanone	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Acetone	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Benzene	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Carbon tetrachloride	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Chloroform	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Chloromethane	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Methylene chloride	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Naphthalene	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Tetrahydrofuran	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Toluene	6/18/2014	6/19/2014	1	14	OK
Trip Blank	Xylenes, Total	6/18/2014	6/19/2014	1	14	OK
MW-01	2-Butanone	5/28/2014	5/30/2014	2	14	OK
MW-01	Acetone	5/28/2014	5/30/2014	2	14	OK
MW-01	Ammonia (as N)	5/28/2014	6/4/2014	7	28	OK
MW-01	Arsenic	5/28/2014	6/3/2014	6	180	OK
MW-01	Benzene	5/28/2014	5/30/2014	2	14	OK
MW-01	Beryllium	5/28/2014	6/3/2014	6	180	OK
MW-01	Bicarbonate (as CaCO3)	5/28/2014	6/3/2014	6	14	OK
MW-01	Cadmium	5/28/2014	6/3/2014	6	180	OK
MW-01	Calcium	5/28/2014	6/4/2014	7	180	OK
MW-01	Carbon tetrachloride	5/28/2014	5/30/2014	2	14	OK
MW-01	Carbonate (as CaCO3)	5/28/2014	6/3/2014	6	14	OK
MW-01	Chloride	5/28/2014	6/6/2014	9	28	OK
MW-01	Chloroform	5/28/2014	5/30/2014	2	14	OK
MW-01	Chloromethane	5/28/2014	5/30/2014	2	14	OK
MW-01	Chromium	5/28/2014	6/3/2014	6	180	OK
MW-01	Cobalt	5/28/2014	6/3/2014	6	180	OK
MW-01	Copper	5/28/2014	6/3/2014	6	180	OK
MW-01	Fluoride	5/28/2014	6/10/2014	13	27	OK
MW-01	Gross Radium Alpha	5/28/2014	6/5/2014	8	180	OK
MW-01	Iron	5/28/2014	6/4/2014	7	180	OK
MW-01	Lead	5/28/2014	6/3/2014	6	180	OK
MW-01	Magnesium	5/28/2014	6/4/2014	7	180	OK
MW-01	Manganese	5/28/2014	6/3/2014	6	180	OK
MW-01	Mercury	5/28/2014	6/3/2014	6	180	OK
MW-01	Methylene chloride	5/28/2014	5/30/2014	2	14	OK
MW-01	Molybdenum	5/28/2014	6/3/2014	6	180	OK
MW-01	Naphthalene	5/28/2014	5/30/2014	2	14	OK
MW-01	Nickel	5/28/2014	6/3/2014	6	180	OK
MW-01	Nitrate/Nitrite (as N)	5/28/2014	6/5/2014	8	28	OK
MW-01	Potassium	5/28/2014	6/4/2014	7	180	OK
MW-01	Selenium	5/28/2014	6/3/2014	6	180	OK
MW-01	Silver	5/28/2014	6/3/2014	6	180	OK
MW-01	Sodium	5/28/2014	6/4/2014	7	180	OK
MW-01	Sulfate	5/28/2014	6/6/2014	9	28	OK
MW-01	Tetrahydrofuran	5/28/2014	5/30/2014	2	14	OK
MW-01	Thallium	5/28/2014	6/4/2014	7	180	OK
MW-01	Tin	5/28/2014	6/4/2014	7	180	OK
MW-01	Toluene	5/28/2014	5/30/2014	2	14	OK
MW-01	Total Dissolved Solids	5/28/2014	5/30/2014	2	7	OK
MW-01	Uranium	5/28/2014	6/4/2014	7	180	OK
MW-01	Vanadium	5/28/2014	6/4/2014	7	180	OK
MW-01	Xylenes, Total	5/28/2014	5/30/2014	2	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-01	Zinc	5/28/2014	6/4/2014	7	180	OK
MW-02	2-Butanone	5/28/2014	5/30/2014	2	14	OK
MW-02	Acetone	5/28/2014	5/30/2014	2	14	OK
MW-02	Ammonia (as N)	5/28/2014	6/4/2014	7	28	OK
MW-02	Arsenic	5/28/2014	6/3/2014	6	180	OK
MW-02	Benzene	5/28/2014	5/30/2014	2	14	OK
MW-02	Beryllium	5/28/2014	6/3/2014	6	180	OK
MW-02	Bicarbonate (as CaCO3)	5/28/2014	6/3/2014	6	14	OK
MW-02	Cadmium	5/28/2014	6/3/2014	6	180	OK
MW-02	Calcium	5/28/2014	6/4/2014	7	180	OK
MW-02	Carbon tetrachloride	5/28/2014	5/30/2014	2	14	OK
MW-02	Carbonate (as CaCO3)	5/28/2014	6/3/2014	6	14	OK
MW-02	Chloride	5/28/2014	6/10/2014	13	28	OK
MW-02	Chloroform	5/28/2014	5/30/2014	2	14	OK
MW-02	Chloromethane	5/28/2014	5/30/2014	2	14	OK
MW-02	Chromium	5/28/2014	6/3/2014	6	180	OK
MW-02	Cobalt	5/28/2014	6/3/2014	6	180	OK
MW-02	Copper	5/28/2014	6/3/2014	6	180	OK
MW-02	Fluoride	5/28/2014	6/10/2014	13	27	OK
MW-02	Gross Radium Alpha	5/28/2014	6/5/2014	8	180	OK
MW-02	Iron	5/28/2014	6/4/2014	7	180	OK
MW-02	Lead	5/28/2014	6/3/2014	6	180	OK
MW-02	Magnesium	5/28/2014	6/4/2014	7	180	OK
MW-02	Manganese	5/28/2014	6/3/2014	6	180	OK
MW-02	Mercury	5/28/2014	6/3/2014	6	180	OK
MW-02	Methylene chloride	5/28/2014	5/30/2014	2	14	OK
MW-02	Molybdenum	5/28/2014	6/3/2014	6	180	OK
MW-02	Naphthalene	5/28/2014	5/30/2014	2	14	OK
MW-02	Nickel	5/28/2014	6/3/2014	6	180	OK
MW-02	Nitrate/Nitrite (as N)	5/28/2014	6/5/2014	8	28	OK
MW-02	Potassium	5/28/2014	6/4/2014	7	180	OK
MW-02	Selenium	5/28/2014	6/3/2014	6	180	OK
MW-02	Silver	5/28/2014	6/3/2014	6	180	OK
MW-02	Sodium	5/28/2014	6/4/2014	7	180	OK
MW-02	Sulfate	5/28/2014	6/6/2014	9	28	OK
MW-02	Tetrahydrofuran	5/28/2014	5/30/2014	2	14	OK
MW-02	Thallium	5/28/2014	6/4/2014	7	180	OK
MW-02	Tin	5/28/2014	6/4/2014	7	180	OK
MW-02	Toluene	5/28/2014	5/30/2014	2	14	OK
MW-02	Total Dissolved Solids	5/28/2014	5/30/2014	2	7	OK
MW-02	Uranium	5/28/2014	6/4/2014	7	180	OK
MW-02	Vanadium	5/28/2014	6/4/2014	7	180	OK
MW-02	Xylenes, Total	5/28/2014	5/30/2014	2	14	OK
MW-02	Zinc	5/28/2014	6/4/2014	7	180	OK
MW-03	2-Butanone	5/30/2014	6/3/2014	4	14	OK
MW-03	Acetone	5/30/2014	6/3/2014	4	14	OK
MW-03	Ammonia (as N)	5/30/2014	6/9/2014	10	28	OK
MW-03	Arsenic	5/30/2014	6/9/2014	10	180	OK
MW-03	Benzene	5/30/2014	6/3/2014	4	14	OK
MW-03	Beryllium	5/30/2014	6/10/2014	11	180	OK
MW-03	Bicarbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-03	Cadmium	5/30/2014	6/9/2014	10	180	OK
MW-03	Calcium	5/30/2014	6/11/2014	12	180	OK
MW-03	Carbon tetrachloride	5/30/2014	6/3/2014	4	14	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-03	Carbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-03	Chloride	5/30/2014	6/10/2014	11	28	OK
MW-03	Chloroform	5/30/2014	6/3/2014	4	14	OK
MW-03	Chloromethane	5/30/2014	6/3/2014	4	14	OK
MW-03	Chromium	5/30/2014	6/9/2014	10	180	OK
MW-03	Cobalt	5/30/2014	6/9/2014	10	180	OK
MW-03	Copper	5/30/2014	6/9/2014	10	180	OK
MW-03	Fluoride	5/30/2014	6/10/2014	11	27	OK
MW-03	Gross Radium Alpha	5/30/2014	6/26/2014	27	180	OK
MW-03	Iron	5/30/2014	6/10/2014	11	180	OK
MW-03	Lead	5/30/2014	6/10/2014	11	180	OK
MW-03	Magnesium	5/30/2014	6/11/2014	12	180	OK
MW-03	Manganese	5/30/2014	6/9/2014	10	180	OK
MW-03	Mercury	5/30/2014	6/5/2014	6	180	OK
MW-03	Methylene chloride	5/30/2014	6/3/2014	4	14	OK
MW-03	Molybdenum	5/30/2014	6/9/2014	10	180	OK
MW-03	Naphthalene	5/30/2014	6/3/2014	4	14	OK
MW-03	Nickel	5/30/2014	6/9/2014	10	180	OK
MW-03	Nitrate/Nitrite (as N)	5/30/2014	6/5/2014	6	28	OK
MW-03	Potassium	5/30/2014	6/12/2014	13	180	OK
MW-03	Selenium	5/30/2014	6/9/2014	10	180	OK
MW-03	Silver	5/30/2014	6/9/2014	10	180	OK
MW-03	Sodium	5/30/2014	6/12/2014	13	180	OK
MW-03	Sulfate	5/30/2014	6/10/2014	11	28	OK
MW-03	Tetrahydrofuran	5/30/2014	6/3/2014	4	14	OK
MW-03	Thallium	5/30/2014	6/10/2014	11	180	OK
MW-03	Tin	5/30/2014	6/10/2014	11	180	OK
MW-03	Toluene	5/30/2014	6/3/2014	4	14	OK
MW-03	Total Dissolved Solids	5/30/2014	6/4/2014	5	7	OK
MW-03	Uranium	5/30/2014	6/11/2014	12	180	OK
MW-03	Vanadium	5/30/2014	6/12/2014	13	180	OK
MW-03	Xylenes, Total	5/30/2014	6/3/2014	4	14	OK
MW-03	Zinc	5/30/2014	6/12/2014	13	180	OK
MW-03a	2-Butanone	5/30/2014	6/3/2014	4	14	OK
MW-03a	Acetone	5/30/2014	6/3/2014	4	14	OK
MW-03a	Ammonia (as N)	5/30/2014	6/9/2014	10	28	OK
MW-03a	Arsenic	5/30/2014	6/9/2014	10	180	OK
MW-03a	Benzene	5/30/2014	6/3/2014	4	14	OK
MW-03a	Beryllium	5/30/2014	6/10/2014	11	180	OK
MW-03a	Bicarbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-03a	Cadmium	5/30/2014	6/9/2014	10	180	OK
MW-03a	Calcium	5/30/2014	6/11/2014	12	180	OK
MW-03a	Carbon tetrachloride	5/30/2014	6/3/2014	4	14	OK
MW-03a	Carbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-03a	Chloride	5/30/2014	6/10/2014	11	28	OK
MW-03a	Chloroform	5/30/2014	6/3/2014	4	14	OK
MW-03a	Chloromethane	5/30/2014	6/3/2014	4	14	OK
MW-03a	Chromium	5/30/2014	6/9/2014	10	180	OK
MW-03a	Cobalt	5/30/2014	6/9/2014	10	180	OK
MW-03a	Copper	5/30/2014	6/9/2014	10	180	OK
MW-03a	Fluoride	5/30/2014	6/10/2014	11	27	OK
MW-03a	Gross Radium Alpha	5/30/2014	6/26/2014	27	180	OK
MW-03a	Iron	5/30/2014	6/10/2014	11	180	OK
MW-03a	Lead	5/30/2014	6/10/2014	11	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-03a	Magnesium	5/30/2014	6/11/2014	12	180	OK
MW-03a	Manganese	5/30/2014	6/9/2014	10	180	OK
MW-03a	Mercury	5/30/2014	6/5/2014	6	180	OK
MW-03a	Methylene chloride	5/30/2014	6/3/2014	4	14	OK
MW-03a	Molybdenum	5/30/2014	6/9/2014	10	180	OK
MW-03a	Naphthalene	5/30/2014	6/3/2014	4	14	OK
MW-03a	Nickel	5/30/2014	6/9/2014	10	180	OK
MW-03a	Nitrate/Nitrite (as N)	5/30/2014	6/5/2014	6	28	OK
MW-03a	Potassium	5/30/2014	6/12/2014	13	180	OK
MW-03a	Selenium	5/30/2014	6/9/2014	10	180	OK
MW-03a	Silver	5/30/2014	6/9/2014	10	180	OK
MW-03a	Sodium	5/30/2014	6/12/2014	13	180	OK
MW-03a	Sulfate	5/30/2014	6/10/2014	11	28	OK
MW-03a	Tetrahydrofuran	5/30/2014	6/3/2014	4	14	OK
MW-03a	Thallium	5/30/2014	6/10/2014	11	180	OK
MW-03a	Tin	5/30/2014	6/10/2014	11	180	OK
MW-03a	Toluene	5/30/2014	6/3/2014	4	14	OK
MW-03a	Total Dissolved Solids	5/30/2014	6/4/2014	5	7	OK
MW-03a	Uranium	5/30/2014	6/10/2014	11	180	OK
MW-03a	Vanadium	5/30/2014	6/12/2014	13	180	OK
MW-03a	Xylenes, Total	5/30/2014	6/3/2014	4	14	OK
MW-03a	Zinc	5/30/2014	6/12/2014	13	180	OK
MW-05	2-Butanone	6/4/2014	6/5/2014	1	14	OK
MW-05	Acetone	6/4/2014	6/5/2014	1	14	OK
MW-05	Ammonia (as N)	6/4/2014	6/16/2014	12	28	OK
MW-05	Arsenic	6/4/2014	6/9/2014	5	180	OK
MW-05	Benzene	6/4/2014	6/5/2014	1	14	OK
MW-05	Beryllium	6/4/2014	6/11/2014	7	180	OK
MW-05	Bicarbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-05	Cadmium	6/4/2014	6/9/2014	5	180	OK
MW-05	Calcium	6/4/2014	6/12/2014	8	180	OK
MW-05	Carbon tetrachloride	6/4/2014	6/5/2014	1	14	OK
MW-05	Carbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-05	Chloride	6/4/2014	6/11/2014	7	28	OK
MW-05	Chloroform	6/4/2014	6/5/2014	1	14	OK
MW-05	Chloromethane	6/4/2014	6/5/2014	1	14	OK
MW-05	Chromium	6/4/2014	6/9/2014	5	180	OK
MW-05	Cobalt	6/4/2014	6/9/2014	5	180	OK
MW-05	Copper	6/4/2014	6/9/2014	5	180	OK
MW-05	Fluoride	6/4/2014	6/12/2014	8	27	OK
MW-05	Gross Radium Alpha	6/4/2014	6/26/2014	22	180	OK
MW-05	Iron	6/4/2014	6/11/2014	7	180	OK
MW-05	Lead	6/4/2014	6/11/2014	7	180	OK
MW-05	Magnesium	6/4/2014	6/12/2014	8	180	OK
MW-05	Manganese	6/4/2014	6/9/2014	5	180	OK
MW-05	Mercury	6/4/2014	6/10/2014	6	180	OK
MW-05	Methylene chloride	6/4/2014	6/5/2014	1	14	OK
MW-05	Molybdenum	6/4/2014	6/9/2014	5	180	OK
MW-05	Naphthalene	6/4/2014	6/5/2014	1	14	OK
MW-05	Nickel	6/4/2014	6/9/2014	5	180	OK
MW-05	Nitrate/Nitrite (as N)	6/4/2014	6/14/2014	10	28	OK
MW-05	Potassium	6/4/2014	6/12/2014	8	180	OK
MW-05	Selenium	6/4/2014	6/9/2014	5	180	OK
MW-05	Silver	6/4/2014	6/9/2014	5	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-05	Sodium	6/4/2014	6/12/2014	8	180	OK
MW-05	Sulfate	6/4/2014	6/11/2014	7	28	OK
MW-05	Tetrahydrofuran	6/4/2014	6/5/2014	1	14	OK
MW-05	Thallium	6/4/2014	6/11/2014	7	180	OK
MW-05	Tin	6/4/2014	6/11/2014	7	180	OK
MW-05	Toluene	6/4/2014	6/5/2014	1	14	OK
MW-05	Total Dissolved Solids	6/4/2014	6/6/2014	2	7	OK
MW-05	Uranium	6/4/2014	6/11/2014	7	180	OK
MW-05	Vanadium	6/4/2014	6/12/2014	8	180	OK
MW-05	Xylenes, Total	6/4/2014	6/5/2014	1	14	OK
MW-05	Zinc	6/4/2014	6/12/2014	8	180	OK
MW-11	2-Butanone	6/3/2014	6/6/2014	3	14	OK
MW-11	Acetone	6/3/2014	6/6/2014	3	14	OK
MW-11	Ammonia (as N)	6/3/2014	6/16/2014	13	28	OK
MW-11	Arsenic	6/3/2014	6/9/2014	6	180	OK
MW-11	Benzene	6/3/2014	6/6/2014	3	14	OK
MW-11	Beryllium	6/3/2014	6/11/2014	8	180	OK
MW-11	Bicarbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK
MW-11	Cadmium	6/3/2014	6/9/2014	6	180	OK
MW-11	Calcium	6/3/2014	6/12/2014	9	180	OK
MW-11	Carbon tetrachloride	6/3/2014	6/6/2014	3	14	OK
MW-11	Carbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK
MW-11	Chloride	6/3/2014	6/11/2014	8	28	OK
MW-11	Chloroform	6/3/2014	6/6/2014	3	14	OK
MW-11	Chloromethane	6/3/2014	6/6/2014	3	14	OK
MW-11	Chromium	6/3/2014	6/9/2014	6	180	OK
MW-11	Cobalt	6/3/2014	6/9/2014	6	180	OK
MW-11	Copper	6/3/2014	6/9/2014	6	180	OK
MW-11	Fluoride	6/3/2014	6/12/2014	9	27	OK
MW-11	Gross Radium Alpha	6/3/2014	6/26/2014	23	180	OK
MW-11	Iron	6/3/2014	6/11/2014	8	180	OK
MW-11	Lead	6/3/2014	6/11/2014	8	180	OK
MW-11	Magnesium	6/3/2014	6/12/2014	9	180	OK
MW-11	Manganese	6/3/2014	6/9/2014	6	180	OK
MW-11	Mercury	6/3/2014	6/10/2014	7	180	OK
MW-11	Methylene chloride	6/3/2014	6/6/2014	3	14	OK
MW-11	Molybdenum	6/3/2014	6/9/2014	6	180	OK
MW-11	Naphthalene	6/3/2014	6/6/2014	3	14	OK
MW-11	Nickel	6/3/2014	6/9/2014	6	180	OK
MW-11	Nitrate/Nitrite (as N)	6/3/2014	6/14/2014	11	28	OK
MW-11	Potassium	6/3/2014	6/12/2014	9	180	OK
MW-11	Selenium	6/3/2014	6/9/2014	6	180	OK
MW-11	Silver	6/3/2014	6/9/2014	6	180	OK
MW-11	Sodium	6/3/2014	6/12/2014	9	180	OK
MW-11	Sulfate	6/3/2014	6/11/2014	8	28	OK
MW-11	Tetrahydrofuran	6/3/2014	6/6/2014	3	14	OK
MW-11	Thallium	6/3/2014	6/11/2014	8	180	OK
MW-11	Tin	6/3/2014	6/11/2014	8	180	OK
MW-11	Toluene	6/3/2014	6/6/2014	3	14	OK
MW-11	Total Dissolved Solids	6/3/2014	6/6/2014	3	7	OK
MW-11	Uranium	6/3/2014	6/11/2014	8	180	OK
MW-11	Vanadium	6/3/2014	6/12/2014	9	180	OK
MW-11	Xylenes, Total	6/3/2014	6/6/2014	3	14	OK
MW-11	Zinc	6/3/2014	6/12/2014	9	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-12	2-Butanone	6/4/2014	6/6/2014	2	14	OK
MW-12	Acetone	6/4/2014	6/6/2014	2	14	OK
MW-12	Ammonia (as N)	6/4/2014	6/16/2014	12	28	OK
MW-12	Arsenic	6/4/2014	6/9/2014	5	180	OK
MW-12	Benzene	6/4/2014	6/6/2014	2	14	OK
MW-12	Beryllium	6/4/2014	6/11/2014	7	180	OK
MW-12	Bicarbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-12	Cadmium	6/4/2014	6/9/2014	5	180	OK
MW-12	Calcium	6/4/2014	6/12/2014	8	180	OK
MW-12	Carbon tetrachloride	6/4/2014	6/6/2014	2	14	OK
MW-12	Carbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-12	Chloride	6/4/2014	6/12/2014	8	28	OK
MW-12	Chloroform	6/4/2014	6/6/2014	2	14	OK
MW-12	Chloromethane	6/4/2014	6/6/2014	2	14	OK
MW-12	Chromium	6/4/2014	6/9/2014	5	180	OK
MW-12	Cobalt	6/4/2014	6/9/2014	5	180	OK
MW-12	Copper	6/4/2014	6/9/2014	5	180	OK
MW-12	Fluoride	6/4/2014	6/12/2014	8	27	OK
MW-12	Gross Radium Alpha	6/4/2014	6/26/2014	22	180	OK
MW-12	Iron	6/4/2014	6/11/2014	7	180	OK
MW-12	Lead	6/4/2014	6/11/2014	7	180	OK
MW-12	Magnesium	6/4/2014	6/12/2014	8	180	OK
MW-12	Manganese	6/4/2014	6/9/2014	5	180	OK
MW-12	Mercury	6/4/2014	6/10/2014	6	180	OK
MW-12	Methylene chloride	6/4/2014	6/6/2014	2	14	OK
MW-12	Molybdenum	6/4/2014	6/9/2014	5	180	OK
MW-12	Naphthalene	6/4/2014	6/6/2014	2	14	OK
MW-12	Nickel	6/4/2014	6/9/2014	5	180	OK
MW-12	Nitrate/Nitrite (as N)	6/4/2014	6/14/2014	10	28	OK
MW-12	Potassium	6/4/2014	6/12/2014	8	180	OK
MW-12	Selenium	6/4/2014	6/9/2014	5	180	OK
MW-12	Silver	6/4/2014	6/9/2014	5	180	OK
MW-12	Sodium	6/4/2014	6/12/2014	8	180	OK
MW-12	Sulfate	6/4/2014	6/12/2014	8	28	OK
MW-12	Tetrahydrofuran	6/4/2014	6/6/2014	2	14	OK
MW-12	Thallium	6/4/2014	6/11/2014	7	180	OK
MW-12	Tin	6/4/2014	6/11/2014	7	180	OK
MW-12	Toluene	6/4/2014	6/6/2014	2	14	OK
MW-12	Total Dissolved Solids	6/4/2014	6/6/2014	2	7	OK
MW-12	Uranium	6/4/2014	6/11/2014	7	180	OK
MW-12	Vanadium	6/4/2014	6/12/2014	8	180	OK
MW-12	Xylenes, Total	6/4/2014	6/6/2014	2	14	OK
MW-12	Zinc	6/4/2014	6/12/2014	8	180	OK
MW-14	2-Butanone	6/3/2014	6/6/2014	3	14	OK
MW-14	Acetone	6/3/2014	6/6/2014	3	14	OK
MW-14	Ammonia (as N)	6/3/2014	6/16/2014	13	28	OK
MW-14	Arsenic	6/3/2014	6/9/2014	6	180	OK
MW-14	Benzene	6/3/2014	6/6/2014	3	14	OK
MW-14	Beryllium	6/3/2014	6/11/2014	8	180	OK
MW-14	Bicarbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK
MW-14	Cadmium	6/3/2014	6/9/2014	6	180	OK
MW-14	Calcium	6/3/2014	6/12/2014	9	180	OK
MW-14	Carbon tetrachloride	6/3/2014	6/6/2014	3	14	OK
MW-14	Carbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-14	Chloride	6/3/2014	6/12/2014	9	28	OK
MW-14	Chloroform	6/3/2014	6/6/2014	3	14	OK
MW-14	Chloromethane	6/3/2014	6/6/2014	3	14	OK
MW-14	Chromium	6/3/2014	6/9/2014	6	180	OK
MW-14	Cobalt	6/3/2014	6/9/2014	6	180	OK
MW-14	Copper	6/3/2014	6/9/2014	6	180	OK
MW-14	Fluoride	6/3/2014	6/12/2014	9	27	OK
MW-14	Gross Radium Alpha	6/3/2014	6/26/2014	23	180	OK
MW-14	Iron	6/3/2014	6/11/2014	8	180	OK
MW-14	Lead	6/3/2014	6/11/2014	8	180	OK
MW-14	Magnesium	6/3/2014	6/12/2014	9	180	OK
MW-14	Manganese	6/3/2014	6/9/2014	6	180	OK
MW-14	Mercury	6/3/2014	6/10/2014	7	180	OK
MW-14	Methylene chloride	6/3/2014	6/6/2014	3	14	OK
MW-14	Molybdenum	6/3/2014	6/9/2014	6	180	OK
MW-14	Naphthalene	6/3/2014	6/6/2014	3	14	OK
MW-14	Nickel	6/3/2014	6/9/2014	6	180	OK
MW-14	Nitrate/Nitrite (as N)	6/3/2014	6/14/2014	11	28	OK
MW-14	Potassium	6/3/2014	6/12/2014	9	180	OK
MW-14	Selenium	6/3/2014	6/9/2014	6	180	OK
MW-14	Silver	6/3/2014	6/9/2014	6	180	OK
MW-14	Sodium	6/3/2014	6/12/2014	9	180	OK
MW-14	Sulfate	6/3/2014	6/12/2014	9	28	OK
MW-14	Tetrahydrofuran	6/3/2014	6/6/2014	3	14	OK
MW-14	Thallium	6/3/2014	6/11/2014	8	180	OK
MW-14	Tin	6/3/2014	6/11/2014	8	180	OK
MW-14	Toluene	6/3/2014	6/6/2014	3	14	OK
MW-14	Total Dissolved Solids	6/3/2014	6/6/2014	3	7	OK
MW-14	Uranium	6/3/2014	6/11/2014	8	180	OK
MW-14	Vanadium	6/3/2014	6/12/2014	9	180	OK
MW-14	Xylenes, Total	6/3/2014	6/6/2014	3	14	OK
MW-14	Zinc	6/3/2014	6/12/2014	9	180	OK
MW-15	2-Butanone	6/4/2014	6/6/2014	2	14	OK
MW-15	Acetone	6/4/2014	6/6/2014	2	14	OK
MW-15	Ammonia (as N)	6/4/2014	6/16/2014	12	28	OK
MW-15	Arsenic	6/4/2014	6/9/2014	5	180	OK
MW-15	Benzene	6/4/2014	6/6/2014	2	14	OK
MW-15	Beryllium	6/4/2014	6/11/2014	7	180	OK
MW-15	Bicarbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-15	Cadmium	6/4/2014	6/9/2014	5	180	OK
MW-15	Calcium	6/4/2014	6/12/2014	8	180	OK
MW-15	Carbon tetrachloride	6/4/2014	6/6/2014	2	14	OK
MW-15	Carbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-15	Chloride	6/4/2014	6/12/2014	8	28	OK
MW-15	Chloroform	6/4/2014	6/6/2014	2	14	OK
MW-15	Chloromethane	6/4/2014	6/6/2014	2	14	OK
MW-15	Chromium	6/4/2014	6/9/2014	5	180	OK
MW-15	Cobalt	6/4/2014	6/9/2014	5	180	OK
MW-15	Copper	6/4/2014	6/9/2014	5	180	OK
MW-15	Fluoride	6/4/2014	6/12/2014	8	27	OK
MW-15	Gross Radium Alpha	6/4/2014	6/26/2014	22	180	OK
MW-15	Iron	6/4/2014	6/11/2014	7	180	OK
MW-15	Lead	6/4/2014	6/11/2014	7	180	OK
MW-15	Magnesium	6/4/2014	6/12/2014	8	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-15	Manganese	6/4/2014	6/9/2014	5	180	OK
MW-15	Mercury	6/4/2014	6/10/2014	6	180	OK
MW-15	Methylene chloride	6/4/2014	6/6/2014	2	14	OK
MW-15	Molybdenum	6/4/2014	6/9/2014	5	180	OK
MW-15	Naphthalene	6/4/2014	6/6/2014	2	14	OK
MW-15	Nickel	6/4/2014	6/9/2014	5	180	OK
MW-15	Nitrate/Nitrite (as N)	6/4/2014	6/14/2014	10	28	OK
MW-15	Potassium	6/4/2014	6/12/2014	8	180	OK
MW-15	Selenium	6/4/2014	6/9/2014	5	180	OK
MW-15	Silver	6/4/2014	6/9/2014	5	180	OK
MW-15	Sodium	6/4/2014	6/12/2014	8	180	OK
MW-15	Sulfate	6/4/2014	6/12/2014	8	28	OK
MW-15	Tetrahydrofuran	6/4/2014	6/6/2014	2	14	OK
MW-15	Thallium	6/4/2014	6/11/2014	7	180	OK
MW-15	Tin	6/4/2014	6/11/2014	7	180	OK
MW-15	Toluene	6/4/2014	6/6/2014	2	14	OK
MW-15	Total Dissolved Solids	6/4/2014	6/6/2014	2	7	OK
MW-15	Uranium	6/4/2014	6/11/2014	7	180	OK
MW-15	Vanadium	6/4/2014	6/12/2014	8	180	OK
MW-15	Xylenes, Total	6/4/2014	6/6/2014	2	14	OK
MW-15	Zinc	6/4/2014	6/12/2014	8	180	OK
MW-17	2-Butanone	5/30/2014	6/3/2014	4	14	OK
MW-17	Acetone	5/30/2014	6/3/2014	4	14	OK
MW-17	Ammonia (as N)	5/30/2014	6/9/2014	10	28	OK
MW-17	Arsenic	5/30/2014	6/9/2014	10	180	OK
MW-17	Benzene	5/30/2014	6/3/2014	4	14	OK
MW-17	Beryllium	5/30/2014	6/10/2014	11	180	OK
MW-17	Bicarbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-17	Cadmium	5/30/2014	6/9/2014	10	180	OK
MW-17	Calcium	5/30/2014	6/11/2014	12	180	OK
MW-17	Carbon tetrachloride	5/30/2014	6/3/2014	4	14	OK
MW-17	Carbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-17	Chloride	5/30/2014	6/10/2014	11	28	OK
MW-17	Chloroform	5/30/2014	6/3/2014	4	14	OK
MW-17	Chloromethane	5/30/2014	6/3/2014	4	14	OK
MW-17	Chromium	5/30/2014	6/9/2014	10	180	OK
MW-17	Cobalt	5/30/2014	6/9/2014	10	180	OK
MW-17	Copper	5/30/2014	6/9/2014	10	180	OK
MW-17	Fluoride	5/30/2014	6/10/2014	11	27	OK
MW-17	Gross Radium Alpha	5/30/2014	6/26/2014	27	180	OK
MW-17	Iron	5/30/2014	6/10/2014	11	180	OK
MW-17	Lead	5/30/2014	6/10/2014	11	180	OK
MW-17	Magnesium	5/30/2014	6/11/2014	12	180	OK
MW-17	Manganese	5/30/2014	6/9/2014	10	180	OK
MW-17	Mercury	5/30/2014	6/5/2014	6	180	OK
MW-17	Methylene chloride	5/30/2014	6/3/2014	4	14	OK
MW-17	Molybdenum	5/30/2014	6/9/2014	10	180	OK
MW-17	Naphthalene	5/30/2014	6/3/2014	4	14	OK
MW-17	Nickel	5/30/2014	6/9/2014	10	180	OK
MW-17	Nitrate/Nitrite (as N)	5/30/2014	6/5/2014	6	28	OK
MW-17	Potassium	5/30/2014	6/12/2014	13	180	OK
MW-17	Selenium	5/30/2014	6/9/2014	10	180	OK
MW-17	Silver	5/30/2014	6/9/2014	10	180	OK
MW-17	Sodium	5/30/2014	6/12/2014	13	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-17	Sulfate	5/30/2014	6/10/2014	11	28	OK
MW-17	Tetrahydrofuran	5/30/2014	6/3/2014	4	14	OK
MW-17	Thallium	5/30/2014	6/10/2014	11	180	OK
MW-17	Tin	5/30/2014	6/10/2014	11	180	OK
MW-17	Toluene	5/30/2014	6/3/2014	4	14	OK
MW-17	Total Dissolved Solids	5/30/2014	6/4/2014	5	7	OK
MW-17	Uranium	5/30/2014	6/11/2014	12	180	OK
MW-17	Vanadium	5/30/2014	6/12/2014	13	180	OK
MW-17	Xylenes, Total	5/30/2014	6/3/2014	4	14	OK
MW-17	Zinc	5/30/2014	6/12/2014	13	180	OK
MW-18	2-Butanone	5/27/2014	5/30/2014	3	14	OK
MW-18	Acetone	5/27/2014	5/30/2014	3	14	OK
MW-18	Ammonia (as N)	5/27/2014	6/4/2014	8	28	OK
MW-18	Arsenic	5/27/2014	6/3/2014	7	180	OK
MW-18	Benzene	5/27/2014	5/30/2014	3	14	OK
MW-18	Beryllium	5/27/2014	6/3/2014	7	180	OK
MW-18	Bicarbonate (as CaCO3)	5/27/2014	6/3/2014	7	14	OK
MW-18	Cadmium	5/27/2014	6/3/2014	7	180	OK
MW-18	Calcium	5/27/2014	6/4/2014	8	180	OK
MW-18	Carbon tetrachloride	5/27/2014	5/30/2014	3	14	OK
MW-18	Carbonate (as CaCO3)	5/27/2014	6/3/2014	7	14	OK
MW-18	Chloride	5/27/2014	6/6/2014	10	28	OK
MW-18	Chloroform	5/27/2014	5/30/2014	3	14	OK
MW-18	Chloromethane	5/27/2014	5/30/2014	3	14	OK
MW-18	Chromium	5/27/2014	6/3/2014	7	180	OK
MW-18	Cobalt	5/27/2014	6/3/2014	7	180	OK
MW-18	Copper	5/27/2014	6/3/2014	7	180	OK
MW-18	Fluoride	5/27/2014	6/10/2014	14	27	OK
MW-18	Gross Radium Alpha	5/27/2014	6/5/2014	9	180	OK
MW-18	Iron	5/27/2014	6/4/2014	8	180	OK
MW-18	Lead	5/27/2014	6/3/2014	7	180	OK
MW-18	Magnesium	5/27/2014	6/4/2014	8	180	OK
MW-18	Manganese	5/27/2014	6/3/2014	7	180	OK
MW-18	Mercury	5/27/2014	6/3/2014	7	180	OK
MW-18	Methylene chloride	5/27/2014	5/30/2014	3	14	OK
MW-18	Molybdenum	5/27/2014	6/3/2014	7	180	OK
MW-18	Naphthalene	5/27/2014	5/30/2014	3	14	OK
MW-18	Nickel	5/27/2014	6/3/2014	7	180	OK
MW-18	Nitrate/Nitrite (as N)	5/27/2014	6/5/2014	9	28	OK
MW-18	Potassium	5/27/2014	6/4/2014	8	180	OK
MW-18	Selenium	5/27/2014	6/3/2014	7	180	OK
MW-18	Silver	5/27/2014	6/3/2014	7	180	OK
MW-18	Sodium	5/27/2014	6/4/2014	8	180	OK
MW-18	Sulfate	5/27/2014	6/6/2014	10	28	OK
MW-18	Tetrahydrofuran	5/27/2014	5/30/2014	3	14	OK
MW-18	Thallium	5/27/2014	6/4/2014	8	180	OK
MW-18	Tin	5/27/2014	6/4/2014	8	180	OK
MW-18	Toluene	5/27/2014	5/30/2014	3	14	OK
MW-18	Total Dissolved Solids	5/27/2014	5/30/2014	3	7	OK
MW-18	Uranium	5/27/2014	6/4/2014	8	180	OK
MW-18	Vanadium	5/27/2014	6/4/2014	8	180	OK
MW-18	Xylenes, Total	5/27/2014	5/30/2014	3	14	OK
MW-18	Zinc	5/27/2014	6/4/2014	8	180	OK
MW-19	2-Butanone	5/27/2014	5/30/2014	3	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-19	Acetone	5/27/2014	5/30/2014	3	14	OK
MW-19	Ammonia (as N)	5/27/2014	6/4/2014	8	28	OK
MW-19	Arsenic	5/27/2014	6/3/2014	7	180	OK
MW-19	Benzene	5/27/2014	5/30/2014	3	14	OK
MW-19	Beryllium	5/27/2014	6/3/2014	7	180	OK
MW-19	Bicarbonate (as CaCO3)	5/27/2014	6/3/2014	7	14	OK
MW-19	Cadmium	5/27/2014	6/3/2014	7	180	OK
MW-19	Calcium	5/27/2014	6/4/2014	8	180	OK
MW-19	Carbon tetrachloride	5/27/2014	5/30/2014	3	14	OK
MW-19	Carbonate (as CaCO3)	5/27/2014	6/3/2014	7	14	OK
MW-19	Chloride	5/27/2014	6/6/2014	10	28	OK
MW-19	Chloroform	5/27/2014	5/30/2014	3	14	OK
MW-19	Chloromethane	5/27/2014	5/30/2014	3	14	OK
MW-19	Chromium	5/27/2014	6/3/2014	7	180	OK
MW-19	Cobalt	5/27/2014	6/3/2014	7	180	OK
MW-19	Copper	5/27/2014	6/3/2014	7	180	OK
MW-19	Fluoride	5/27/2014	6/10/2014	14	27	OK
MW-19	Gross Radium Alpha	5/27/2014	6/5/2014	9	180	OK
MW-19	Iron	5/27/2014	6/4/2014	8	180	OK
MW-19	Lead	5/27/2014	6/3/2014	7	180	OK
MW-19	Magnesium	5/27/2014	6/4/2014	8	180	OK
MW-19	Manganese	5/27/2014	6/3/2014	7	180	OK
MW-19	Mercury	5/27/2014	6/3/2014	7	180	OK
MW-19	Methylene chloride	5/27/2014	5/30/2014	3	14	OK
MW-19	Molybdenum	5/27/2014	6/3/2014	7	180	OK
MW-19	Naphthalene	5/27/2014	5/30/2014	3	14	OK
MW-19	Nickel	5/27/2014	6/3/2014	7	180	OK
MW-19	Nitrate/Nitrite (as N)	5/27/2014	6/5/2014	9	28	OK
MW-19	Potassium	5/27/2014	6/4/2014	8	180	OK
MW-19	Selenium	5/27/2014	6/3/2014	7	180	OK
MW-19	Silver	5/27/2014	6/3/2014	7	180	OK
MW-19	Sodium	5/27/2014	6/4/2014	8	180	OK
MW-19	Sulfate	5/27/2014	6/6/2014	10	28	OK
MW-19	Tetrahydrofuran	5/27/2014	5/30/2014	3	14	OK
MW-19	Thallium	5/27/2014	6/4/2014	8	180	OK
MW-19	Tin	5/27/2014	6/4/2014	8	180	OK
MW-19	Toluene	5/27/2014	5/30/2014	3	14	OK
MW-19	Total Dissolved Solids	5/27/2014	5/30/2014	3	7	OK
MW-19	Uranium	5/27/2014	6/4/2014	8	180	OK
MW-19	Vanadium	5/27/2014	6/4/2014	8	180	OK
MW-19	Xylenes, Total	5/27/2014	5/30/2014	3	14	OK
MW-19	Zinc	5/27/2014	6/4/2014	8	180	OK
MW-20	2-Butanone	6/18/2014	6/19/2014	1	14	OK
MW-20	Acetone	6/18/2014	6/19/2014	1	14	OK
MW-20	Ammonia (as N)	6/18/2014	6/25/2014	7	28	OK
MW-20	Arsenic	6/18/2014	6/20/2014	2	180	OK
MW-20	Benzene	6/18/2014	6/19/2014	1	14	OK
MW-20	Beryllium	6/18/2014	6/20/2014	2	180	OK
MW-20	Bicarbonate (as CaCO3)	6/18/2014	6/20/2014	2	14	OK
MW-20	Cadmium	6/18/2014	6/20/2014	2	180	OK
MW-20	Calcium	6/18/2014	6/25/2014	7	180	OK
MW-20	Carbon tetrachloride	6/18/2014	6/19/2014	1	14	OK
MW-20	Carbonate (as CaCO3)	6/18/2014	6/20/2014	2	14	OK
MW-20	Chloride	6/18/2014	6/24/2014	6	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-20	Chloroform	6/18/2014	6/19/2014	1	14	OK
MW-20	Chloromethane	6/18/2014	6/19/2014	1	14	OK
MW-20	Chromium	6/18/2014	6/20/2014	2	180	OK
MW-20	Cobalt	6/18/2014	6/20/2014	2	180	OK
MW-20	Copper	6/18/2014	6/20/2014	2	180	OK
MW-20	Fluoride	6/18/2014	6/24/2014	6	27	OK
MW-20	Gross Radium Alpha	6/18/2014	7/12/2014	24	180	OK
MW-20	Iron	6/18/2014	6/25/2014	7	180	OK
MW-20	Lead	6/18/2014	6/20/2014	2	180	OK
MW-20	Magnesium	6/18/2014	6/25/2014	7	180	OK
MW-20	Manganese	6/18/2014	6/20/2014	2	180	OK
MW-20	Mercury	6/18/2014	6/24/2014	6	180	OK
MW-20	Methylene chloride	6/18/2014	6/19/2014	1	14	OK
MW-20	Molybdenum	6/18/2014	6/20/2014	2	180	OK
MW-20	Naphthalene	6/18/2014	6/19/2014	1	14	OK
MW-20	Nickel	6/18/2014	6/20/2014	2	180	OK
MW-20	Nitrate/Nitrite (as N)	6/18/2014	6/19/2014	1	28	OK
MW-20	Potassium	6/18/2014	6/25/2014	7	180	OK
MW-20	Selenium	6/18/2014	6/20/2014	2	180	OK
MW-20	Silver	6/18/2014	6/20/2014	2	180	OK
MW-20	Sodium	6/18/2014	6/25/2014	7	180	OK
MW-20	Sulfate	6/18/2014	6/24/2014	6	28	OK
MW-20	Tetrahydrofuran	6/18/2014	6/19/2014	1	14	OK
MW-20	Thallium	6/18/2014	6/20/2014	2	180	OK
MW-20	Tin	6/18/2014	6/23/2014	5	180	OK
MW-20	Toluene	6/18/2014	6/19/2014	1	14	OK
MW-20	Total Dissolved Solids	6/18/2014	6/20/2014	2	7	OK
MW-20	Uranium	6/18/2014	6/23/2014	5	180	OK
MW-20	Vanadium	6/18/2014	6/25/2014	7	180	OK
MW-20	Xylenes, Total	6/18/2014	6/19/2014	1	14	OK
MW-20	Zinc	6/18/2014	6/25/2014	7	180	OK
MW-22	2-Butanone	6/11/2014	6/13/2014	2	14	OK
MW-22	Acetone	6/11/2014	6/13/2014	2	14	OK
MW-22	Ammonia (as N)	6/11/2014	6/24/2014	13	28	OK
MW-22	Arsenic	6/11/2014	6/16/2014	5	180	OK
MW-22	Benzene	6/11/2014	6/13/2014	2	14	OK
MW-22	Beryllium	6/11/2014	6/17/2014	6	180	OK
MW-22	Bicarbonate (as CaCO3)	6/11/2014	6/25/2014	14	14	OK
MW-22	Cadmium	6/11/2014	6/16/2014	5	180	OK
MW-22	Calcium	6/11/2014	6/17/2014	6	180	OK
MW-22	Carbon tetrachloride	6/11/2014	6/13/2014	2	14	OK
MW-22	Carbonate (as CaCO3)	6/11/2014	6/25/2014	14	14	OK
MW-22	Chloride	6/11/2014	6/23/2014	12	28	OK
MW-22	Chloroform	6/11/2014	6/13/2014	2	14	OK
MW-22	Chloromethane	6/11/2014	6/13/2014	2	14	OK
MW-22	Chromium	6/11/2014	6/16/2014	5	180	OK
MW-22	Cobalt	6/11/2014	6/16/2014	5	180	OK
MW-22	Copper	6/11/2014	6/16/2014	5	180	OK
MW-22	Fluoride	6/11/2014	6/23/2014	12	27	OK
MW-22	Gross Radium Alpha	6/11/2014	7/12/2014	31	180	OK
MW-22	Iron	6/11/2014	6/17/2014	6	180	OK
MW-22	Lead	6/11/2014	6/17/2014	6	180	OK
MW-22	Magnesium	6/11/2014	6/17/2014	6	180	OK
MW-22	Manganese	6/11/2014	6/16/2014	5	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-22	Mercury	6/11/2014	6/16/2014	5	180	OK
MW-22	Methylene chloride	6/11/2014	6/13/2014	2	14	OK
MW-22	Molybdenum	6/11/2014	6/16/2014	5	180	OK
MW-22	Naphthalene	6/11/2014	6/13/2014	2	14	OK
MW-22	Nickel	6/11/2014	6/16/2014	5	180	OK
MW-22	Nitrate/Nitrite (as N)	6/11/2014	6/14/2014	3	28	OK
MW-22	Potassium	6/11/2014	6/19/2014	8	180	OK
MW-22	Selenium	6/11/2014	6/17/2014	6	180	OK
MW-22	Silver	6/11/2014	6/17/2014	6	180	OK
MW-22	Sodium	6/11/2014	6/17/2014	6	180	OK
MW-22	Sulfate	6/11/2014	6/20/2014	9	28	OK
MW-22	Tetrahydrofuran	6/11/2014	6/13/2014	2	14	OK
MW-22	Thallium	6/11/2014	6/18/2014	7	180	OK
MW-22	Tin	6/11/2014	6/16/2014	5	180	OK
MW-22	Toluene	6/11/2014	6/13/2014	2	14	OK
MW-22	Total Dissolved Solids	6/11/2014	6/17/2014	6	7	OK
MW-22	Uranium	6/11/2014	6/17/2014	6	180	OK
MW-22	Vanadium	6/11/2014	6/17/2014	6	180	OK
MW-22	Xylenes, Total	6/11/2014	6/13/2014	2	14	OK
MW-22	Zinc	6/11/2014	6/17/2014	6	180	OK
MW-23	2-Butanone	6/11/2014	6/13/2014	2	14	OK
MW-23	Acetone	6/11/2014	6/13/2014	2	14	OK
MW-23	Ammonia (as N)	6/11/2014	6/24/2014	13	28	OK
MW-23	Arsenic	6/11/2014	6/16/2014	5	180	OK
MW-23	Benzene	6/11/2014	6/13/2014	2	14	OK
MW-23	Beryllium	6/11/2014	6/17/2014	6	180	OK
MW-23	Bicarbonate (as CaCO3)	6/11/2014	6/17/2014	6	14	OK
MW-23	Cadmium	6/11/2014	6/16/2014	5	180	OK
MW-23	Calcium	6/11/2014	6/17/2014	6	180	OK
MW-23	Carbon tetrachloride	6/11/2014	6/13/2014	2	14	OK
MW-23	Carbonate (as CaCO3)	6/11/2014	6/17/2014	6	14	OK
MW-23	Chloride	6/11/2014	6/23/2014	12	28	OK
MW-23	Chloroform	6/11/2014	6/13/2014	2	14	OK
MW-23	Chloromethane	6/11/2014	6/13/2014	2	14	OK
MW-23	Chromium	6/11/2014	6/16/2014	5	180	OK
MW-23	Cobalt	6/11/2014	6/16/2014	5	180	OK
MW-23	Copper	6/11/2014	6/16/2014	5	180	OK
MW-23	Fluoride	6/11/2014	6/23/2014	12	27	OK
MW-23	Gross Radium Alpha	6/11/2014	7/12/2014	31	180	OK
MW-23	Iron	6/11/2014	6/17/2014	6	180	OK
MW-23	Lead	6/11/2014	6/17/2014	6	180	OK
MW-23	Magnesium	6/11/2014	6/17/2014	6	180	OK
MW-23	Manganese	6/11/2014	6/16/2014	5	180	OK
MW-23	Mercury	6/11/2014	6/16/2014	5	180	OK
MW-23	Methylene chloride	6/11/2014	6/13/2014	2	14	OK
MW-23	Molybdenum	6/11/2014	6/16/2014	5	180	OK
MW-23	Naphthalene	6/11/2014	6/13/2014	2	14	OK
MW-23	Nickel	6/11/2014	6/16/2014	5	180	OK
MW-23	Nitrate/Nitrite (as N)	6/11/2014	6/14/2014	3	28	OK
MW-23	Potassium	6/11/2014	6/19/2014	8	180	OK
MW-23	Selenium	6/11/2014	6/17/2014	6	180	OK
MW-23	Silver	6/11/2014	6/17/2014	6	180	OK
MW-23	Sodium	6/11/2014	6/17/2014	6	180	OK
MW-23	Sulfate	6/11/2014	6/20/2014	9	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-23	Tetrahydrofuran	6/11/2014	6/13/2014	2	14	OK
MW-23	Thallium	6/11/2014	6/18/2014	7	180	OK
MW-23	Tin	6/11/2014	6/16/2014	5	180	OK
MW-23	Toluene	6/11/2014	6/13/2014	2	14	OK
MW-23	Total Dissolved Solids	6/11/2014	6/13/2014	2	7	OK
MW-23	Uranium	6/11/2014	6/17/2014	6	180	OK
MW-23	Vanadium	6/11/2014	6/17/2014	6	180	OK
MW-23	Xylenes, Total	6/11/2014	6/13/2014	2	14	OK
MW-23	Zinc	6/11/2014	6/17/2014	6	180	OK
MW-24	2-Butanone	5/30/2014	6/3/2014	4	14	OK
MW-24	Acetone	5/30/2014	6/3/2014	4	14	OK
MW-24	Ammonia (as N)	5/30/2014	6/9/2014	10	28	OK
MW-24	Arsenic	5/30/2014	6/9/2014	10	180	OK
MW-24	Benzene	5/30/2014	6/3/2014	4	14	OK
MW-24	Beryllium	5/30/2014	6/10/2014	11	180	OK
MW-24	Bicarbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-24	Cadmium	5/30/2014	6/9/2014	10	180	OK
MW-24	Calcium	5/30/2014	6/11/2014	12	180	OK
MW-24	Carbon tetrachloride	5/30/2014	6/3/2014	4	14	OK
MW-24	Carbonate (as CaCO3)	5/30/2014	6/4/2014	5	14	OK
MW-24	Chloride	5/30/2014	6/10/2014	11	28	OK
MW-24	Chloroform	5/30/2014	6/3/2014	4	14	OK
MW-24	Chloromethane	5/30/2014	6/3/2014	4	14	OK
MW-24	Chromium	5/30/2014	6/9/2014	10	180	OK
MW-24	Cobalt	5/30/2014	6/9/2014	10	180	OK
MW-24	Copper	5/30/2014	6/9/2014	10	180	OK
MW-24	Fluoride	5/30/2014	6/10/2014	11	27	OK
MW-24	Gross Radium Alpha	5/30/2014	6/26/2014	27	180	OK
MW-24	Iron	5/30/2014	6/10/2014	11	180	OK
MW-24	Lead	5/30/2014	6/10/2014	11	180	OK
MW-24	Magnesium	5/30/2014	6/11/2014	12	180	OK
MW-24	Manganese	5/30/2014	6/10/2014	11	180	OK
MW-24	Mercury	5/30/2014	6/5/2014	6	180	OK
MW-24	Methylene chloride	5/30/2014	6/3/2014	4	14	OK
MW-24	Molybdenum	5/30/2014	6/9/2014	10	180	OK
MW-24	Naphthalene	5/30/2014	6/3/2014	4	14	OK
MW-24	Nickel	5/30/2014	6/9/2014	10	180	OK
MW-24	Nitrate/Nitrite (as N)	5/30/2014	6/5/2014	6	28	OK
MW-24	Potassium	5/30/2014	6/12/2014	13	180	OK
MW-24	Selenium	5/30/2014	6/9/2014	10	180	OK
MW-24	Silver	5/30/2014	6/9/2014	10	180	OK
MW-24	Sodium	5/30/2014	6/12/2014	13	180	OK
MW-24	Sulfate	5/30/2014	6/10/2014	11	28	OK
MW-24	Tetrahydrofuran	5/30/2014	6/3/2014	4	14	OK
MW-24	Thallium	5/30/2014	6/10/2014	11	180	OK
MW-24	Tin	5/30/2014	6/10/2014	11	180	OK
MW-24	Toluene	5/30/2014	6/3/2014	4	14	OK
MW-24	Total Dissolved Solids	5/30/2014	6/4/2014	5	7	OK
MW-24	Uranium	5/30/2014	6/10/2014	11	180	OK
MW-24	Vanadium	5/30/2014	6/12/2014	13	180	OK
MW-24	Xylenes, Total	5/30/2014	6/3/2014	4	14	OK
MW-24	Zinc	5/30/2014	6/12/2014	13	180	OK
MW-25	2-Butanone	6/2/2014	6/3/2014	1	14	OK
MW-25	Acetone	6/2/2014	6/3/2014	1	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-25	Ammonia (as N)	6/2/2014	6/9/2014	7	28	OK
MW-25	Arsenic	6/2/2014	6/9/2014	7	180	OK
MW-25	Benzene	6/2/2014	6/3/2014	1	14	OK
MW-25	Beryllium	6/2/2014	6/10/2014	8	180	OK
MW-25	Bicarbonate (as CaCO3)	6/2/2014	6/4/2014	2	14	OK
MW-25	Cadmium	6/2/2014	6/9/2014	7	180	OK
MW-25	Calcium	6/2/2014	6/11/2014	9	180	OK
MW-25	Carbon tetrachloride	6/2/2014	6/3/2014	1	14	OK
MW-25	Carbonate (as CaCO3)	6/2/2014	6/4/2014	2	14	OK
MW-25	Chloride	6/2/2014	6/10/2014	8	28	OK
MW-25	Chloroform	6/2/2014	6/3/2014	1	14	OK
MW-25	Chloromethane	6/2/2014	6/3/2014	1	14	OK
MW-25	Chromium	6/2/2014	6/9/2014	7	180	OK
MW-25	Cobalt	6/2/2014	6/9/2014	7	180	OK
MW-25	Copper	6/2/2014	6/9/2014	7	180	OK
MW-25	Fluoride	6/2/2014	6/10/2014	8	27	OK
MW-25	Gross Radium Alpha	6/2/2014	6/26/2014	24	180	OK
MW-25	Iron	6/2/2014	6/10/2014	8	180	OK
MW-25	Lead	6/2/2014	6/10/2014	8	180	OK
MW-25	Magnesium	6/2/2014	6/11/2014	9	180	OK
MW-25	Manganese	6/2/2014	6/9/2014	7	180	OK
MW-25	Mercury	6/2/2014	6/5/2014	3	180	OK
MW-25	Methylene chloride	6/2/2014	6/3/2014	1	14	OK
MW-25	Molybdenum	6/2/2014	6/9/2014	7	180	OK
MW-25	Naphthalene	6/2/2014	6/3/2014	1	14	OK
MW-25	Nickel	6/2/2014	6/9/2014	7	180	OK
MW-25	Nitrate/Nitrite (as N)	6/2/2014	6/5/2014	3	28	OK
MW-25	Potassium	6/2/2014	6/12/2014	10	180	OK
MW-25	Selenium	6/2/2014	6/9/2014	7	180	OK
MW-25	Silver	6/2/2014	6/9/2014	7	180	OK
MW-25	Sodium	6/2/2014	6/12/2014	10	180	OK
MW-25	Sulfate	6/2/2014	6/10/2014	8	28	OK
MW-25	Tetrahydrofuran	6/2/2014	6/3/2014	1	14	OK
MW-25	Thallium	6/2/2014	6/10/2014	8	180	OK
MW-25	Tin	6/2/2014	6/10/2014	8	180	OK
MW-25	Toluene	6/2/2014	6/3/2014	1	14	OK
MW-25	Total Dissolved Solids	6/2/2014	6/4/2014	2	7	OK
MW-25	Uranium	6/2/2014	6/10/2014	8	180	OK
MW-25	Vanadium	6/2/2014	6/12/2014	10	180	OK
MW-25	Xylenes, Total	6/2/2014	6/3/2014	1	14	OK
MW-25	Zinc	6/2/2014	6/12/2014	10	180	OK
MW-26	2-Butanone	6/5/2014	6/6/2014	1	14	OK
MW-26	Acetone	6/5/2014	6/6/2014	1	14	OK
MW-26	Ammonia (as N)	6/5/2014	6/16/2014	11	28	OK
MW-26	Arsenic	6/5/2014	6/9/2014	4	180	OK
MW-26	Benzene	6/5/2014	6/6/2014	1	14	OK
MW-26	Beryllium	6/5/2014	6/11/2014	6	180	OK
MW-26	Bicarbonate (as CaCO3)	6/5/2014	6/10/2014	5	14	OK
MW-26	Cadmium	6/5/2014	6/9/2014	4	180	OK
MW-26	Calcium	6/5/2014	6/12/2014	7	180	OK
MW-26	Carbon tetrachloride	6/5/2014	6/6/2014	1	14	OK
MW-26	Carbonate (as CaCO3)	6/5/2014	6/10/2014	5	14	OK
MW-26	Chloride	6/5/2014	6/12/2014	7	28	OK
MW-26	Chloroform	6/5/2014	6/6/2014	1	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-26	Chloromethane	6/5/2014	6/6/2014	1	14	OK
MW-26	Chromium	6/5/2014	6/9/2014	4	180	OK
MW-26	Cobalt	6/5/2014	6/9/2014	4	180	OK
MW-26	Copper	6/5/2014	6/9/2014	4	180	OK
MW-26	Fluoride	6/5/2014	6/12/2014	7	27	OK
MW-26	Gross Radium Alpha	6/5/2014	6/26/2014	21	180	OK
MW-26	Iron	6/5/2014	6/11/2014	6	180	OK
MW-26	Lead	6/5/2014	6/11/2014	6	180	OK
MW-26	Magnesium	6/5/2014	6/12/2014	7	180	OK
MW-26	Manganese	6/5/2014	6/9/2014	4	180	OK
MW-26	Mercury	6/5/2014	6/10/2014	5	180	OK
MW-26	Methylene chloride	6/5/2014	6/6/2014	1	14	OK
MW-26	Molybdenum	6/5/2014	6/9/2014	4	180	OK
MW-26	Naphthalene	6/5/2014	6/6/2014	1	14	OK
MW-26	Nickel	6/5/2014	6/9/2014	4	180	OK
MW-26	Nitrate/Nitrite (as N)	6/5/2014	6/14/2014	9	28	OK
MW-26	Potassium	6/5/2014	6/12/2014	7	180	OK
MW-26	Selenium	6/5/2014	6/9/2014	4	180	OK
MW-26	Silver	6/5/2014	6/9/2014	4	180	OK
MW-26	Sodium	6/5/2014	6/12/2014	7	180	OK
MW-26	Sulfate	6/5/2014	6/12/2014	7	28	OK
MW-26	Tetrahydrofuran	6/5/2014	6/6/2014	1	14	OK
MW-26	Thallium	6/5/2014	6/11/2014	6	180	OK
MW-26	Tin	6/5/2014	6/11/2014	6	180	OK
MW-26	Toluene	6/5/2014	6/6/2014	1	14	OK
MW-26	Total Dissolved Solids	6/5/2014	6/6/2014	1	7	OK
MW-26	Uranium	6/5/2014	6/11/2014	6	180	OK
MW-26	Vanadium	6/5/2014	6/12/2014	7	180	OK
MW-26	Xylenes, Total	6/5/2014	6/6/2014	1	14	OK
MW-26	Zinc	6/5/2014	6/12/2014	7	180	OK
MW-27	2-Butanone	5/28/2014	5/30/2014	2	14	OK
MW-27	Acetone	5/28/2014	5/30/2014	2	14	OK
MW-27	Ammonia (as N)	5/28/2014	6/4/2014	7	28	OK
MW-27	Arsenic	5/28/2014	6/3/2014	6	180	OK
MW-27	Benzene	5/28/2014	5/30/2014	2	14	OK
MW-27	Beryllium	5/28/2014	6/3/2014	6	180	OK
MW-27	Bicarbonate (as CaCO3)	5/28/2014	6/3/2014	6	14	OK
MW-27	Cadmium	5/28/2014	6/3/2014	6	180	OK
MW-27	Calcium	5/28/2014	6/4/2014	7	180	OK
MW-27	Carbon tetrachloride	5/28/2014	5/30/2014	2	14	OK
MW-27	Carbonate (as CaCO3)	5/28/2014	6/3/2014	6	14	OK
MW-27	Chloride	5/28/2014	6/6/2014	9	28	OK
MW-27	Chloroform	5/28/2014	5/30/2014	2	14	OK
MW-27	Chloromethane	5/28/2014	5/30/2014	2	14	OK
MW-27	Chromium	5/28/2014	6/3/2014	6	180	OK
MW-27	Cobalt	5/28/2014	6/3/2014	6	180	OK
MW-27	Copper	5/28/2014	6/3/2014	6	180	OK
MW-27	Fluoride	5/28/2014	6/10/2014	13	27	OK
MW-27	Gross Radium Alpha	5/28/2014	6/5/2014	8	180	OK
MW-27	Iron	5/28/2014	6/4/2014	7	180	OK
MW-27	Lead	5/28/2014	6/3/2014	6	180	OK
MW-27	Magnesium	5/28/2014	6/4/2014	7	180	OK
MW-27	Manganese	5/28/2014	6/3/2014	6	180	OK
MW-27	Mercury	5/28/2014	6/3/2014	6	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-27	Methylene chloride	5/28/2014	5/30/2014	2	14	OK
MW-27	Molybdenum	5/28/2014	6/3/2014	6	180	OK
MW-27	Naphthalene	5/28/2014	5/30/2014	2	14	OK
MW-27	Nickel	5/28/2014	6/3/2014	6	180	OK
MW-27	Nitrate/Nitrite (as N)	5/28/2014	6/5/2014	8	28	OK
MW-27	Potassium	5/28/2014	6/4/2014	7	180	OK
MW-27	Selenium	5/28/2014	6/3/2014	6	180	OK
MW-27	Silver	5/28/2014	6/3/2014	6	180	OK
MW-27	Sodium	5/28/2014	6/4/2014	7	180	OK
MW-27	Sulfate	5/28/2014	6/6/2014	9	28	OK
MW-27	Tetrahydrofuran	5/28/2014	5/30/2014	2	14	OK
MW-27	Thallium	5/28/2014	6/4/2014	7	180	OK
MW-27	Tin	5/28/2014	6/4/2014	7	180	OK
MW-27	Toluene	5/28/2014	5/30/2014	2	14	OK
MW-27	Total Dissolved Solids	5/28/2014	5/30/2014	2	7	OK
MW-27	Uranium	5/28/2014	6/4/2014	7	180	OK
MW-27	Vanadium	5/28/2014	6/4/2014	7	180	OK
MW-27	Xylenes, Total	5/28/2014	5/30/2014	2	14	OK
MW-27	Zinc	5/28/2014	6/4/2014	7	180	OK
MW-28	2-Butanone	6/18/2014	6/19/2014	1	14	OK
MW-28	Acetone	6/18/2014	6/19/2014	1	14	OK
MW-28	Ammonia (as N)	6/18/2014	6/25/2014	7	28	OK
MW-28	Arsenic	6/18/2014	6/20/2014	2	180	OK
MW-28	Benzene	6/18/2014	6/19/2014	1	14	OK
MW-28	Beryllium	6/18/2014	6/20/2014	2	180	OK
MW-28	Bicarbonate (as CaCO3)	6/18/2014	6/20/2014	2	14	OK
MW-28	Cadmium	6/18/2014	6/20/2014	2	180	OK
MW-28	Calcium	6/18/2014	6/25/2014	7	180	OK
MW-28	Carbon tetrachloride	6/18/2014	6/19/2014	1	14	OK
MW-28	Carbonate (as CaCO3)	6/18/2014	6/20/2014	2	14	OK
MW-28	Chloride	6/18/2014	6/24/2014	6	28	OK
MW-28	Chloroform	6/18/2014	6/19/2014	1	14	OK
MW-28	Chloromethane	6/18/2014	6/19/2014	1	14	OK
MW-28	Chromium	6/18/2014	6/20/2014	2	180	OK
MW-28	Cobalt	6/18/2014	6/20/2014	2	180	OK
MW-28	Copper	6/18/2014	6/20/2014	2	180	OK
MW-28	Fluoride	6/18/2014	6/24/2014	6	27	OK
MW-28	Gross Radium Alpha	6/18/2014	7/12/2014	24	180	OK
MW-28	Iron	6/18/2014	6/25/2014	7	180	OK
MW-28	Lead	6/18/2014	6/20/2014	2	180	OK
MW-28	Magnesium	6/18/2014	6/25/2014	7	180	OK
MW-28	Manganese	6/18/2014	6/20/2014	2	180	OK
MW-28	Mercury	6/18/2014	6/24/2014	6	180	OK
MW-28	Methylene chloride	6/18/2014	6/19/2014	1	14	OK
MW-28	Molybdenum	6/18/2014	6/20/2014	2	180	OK
MW-28	Naphthalene	6/18/2014	6/19/2014	1	14	OK
MW-28	Nickel	6/18/2014	6/20/2014	2	180	OK
MW-28	Nitrate/Nitrite (as N)	6/18/2014	6/19/2014	1	28	OK
MW-28	Potassium	6/18/2014	6/25/2014	7	180	OK
MW-28	Selenium	6/18/2014	6/20/2014	2	180	OK
MW-28	Silver	6/18/2014	6/20/2014	2	180	OK
MW-28	Sodium	6/18/2014	6/25/2014	7	180	OK
MW-28	Sulfate	6/18/2014	6/25/2014	7	28	OK
MW-28	Tetrahydrofuran	6/18/2014	6/19/2014	1	14	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-28	Thallium	6/18/2014	6/20/2014	2	180	OK
MW-28	Tin	6/18/2014	6/23/2014	5	180	OK
MW-28	Toluene	6/18/2014	6/19/2014	1	14	OK
MW-28	Total Dissolved Solids	6/18/2014	6/20/2014	2	7	OK
MW-28	Uranium	6/18/2014	6/24/2014	6	180	OK
MW-28	Vanadium	6/18/2014	6/25/2014	7	180	OK
MW-28	Xylenes, Total	6/18/2014	6/19/2014	1	14	OK
MW-28	Zinc	6/18/2014	6/25/2014	7	180	OK
MW-29	2-Butanone	6/3/2014	6/6/2014	3	14	OK
MW-29	Acetone	6/3/2014	6/6/2014	3	14	OK
MW-29	Ammonia (as N)	6/3/2014	6/16/2014	13	28	OK
MW-29	Arsenic	6/3/2014	6/9/2014	6	180	OK
MW-29	Benzene	6/3/2014	6/6/2014	3	14	OK
MW-29	Beryllium	6/3/2014	6/11/2014	8	180	OK
MW-29	Bicarbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK
MW-29	Cadmium	6/3/2014	6/9/2014	6	180	OK
MW-29	Calcium	6/3/2014	6/12/2014	9	180	OK
MW-29	Carbon tetrachloride	6/3/2014	6/6/2014	3	14	OK
MW-29	Carbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK
MW-29	Chloride	6/3/2014	6/12/2014	9	28	OK
MW-29	Chloroform	6/3/2014	6/6/2014	3	14	OK
MW-29	Chloromethane	6/3/2014	6/6/2014	3	14	OK
MW-29	Chromium	6/3/2014	6/9/2014	6	180	OK
MW-29	Cobalt	6/3/2014	6/9/2014	6	180	OK
MW-29	Copper	6/3/2014	6/9/2014	6	180	OK
MW-29	Fluoride	6/3/2014	6/12/2014	9	27	OK
MW-29	Gross Radium Alpha	6/3/2014	6/26/2014	23	180	OK
MW-29	Iron	6/3/2014	6/9/2014	6	180	OK
MW-29	Lead	6/3/2014	6/11/2014	8	180	OK
MW-29	Magnesium	6/3/2014	6/12/2014	9	180	OK
MW-29	Manganese	6/3/2014	6/11/2014	8	180	OK
MW-29	Mercury	6/3/2014	6/10/2014	7	180	OK
MW-29	Methylene chloride	6/3/2014	6/6/2014	3	14	OK
MW-29	Molybdenum	6/3/2014	6/9/2014	6	180	OK
MW-29	Naphthalene	6/3/2014	6/6/2014	3	14	OK
MW-29	Nickel	6/3/2014	6/9/2014	6	180	OK
MW-29	Nitrate/Nitrite (as N)	6/3/2014	6/14/2014	11	28	OK
MW-29	Potassium	6/3/2014	6/12/2014	9	180	OK
MW-29	Selenium	6/3/2014	6/9/2014	6	180	OK
MW-29	Silver	6/3/2014	6/9/2014	6	180	OK
MW-29	Sodium	6/3/2014	6/12/2014	9	180	OK
MW-29	Sulfate	6/3/2014	6/12/2014	9	28	OK
MW-29	Tetrahydrofuran	6/3/2014	6/6/2014	3	14	OK
MW-29	Thallium	6/3/2014	6/11/2014	8	180	OK
MW-29	Tin	6/3/2014	6/13/2014	10	180	OK
MW-29	Toluene	6/3/2014	6/6/2014	3	14	OK
MW-29	Total Dissolved Solids	6/3/2014	6/6/2014	3	7	OK
MW-29	Uranium	6/3/2014	6/11/2014	8	180	OK
MW-29	Vanadium	6/3/2014	6/12/2014	9	180	OK
MW-29	Xylenes, Total	6/3/2014	6/6/2014	3	14	OK
MW-29	Zinc	6/3/2014	6/12/2014	9	180	OK
MW-30	2-Butanone	6/3/2014	6/6/2014	3	14	OK
MW-30	Acetone	6/3/2014	6/6/2014	3	14	OK
MW-30	Ammonia (as N)	6/3/2014	6/16/2014	13	28	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-30	Arsenic	6/3/2014	6/9/2014	6	180	OK
MW-30	Benzene	6/3/2014	6/6/2014	3	14	OK
MW-30	Beryllium	6/3/2014	6/11/2014	8	180	OK
MW-30	Bicarbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK
MW-30	Cadmium	6/3/2014	6/9/2014	6	180	OK
MW-30	Calcium	6/3/2014	6/12/2014	9	180	OK
MW-30	Carbon tetrachloride	6/3/2014	6/6/2014	3	14	OK
MW-30	Carbonate (as CaCO3)	6/3/2014	6/10/2014	7	14	OK
MW-30	Chloride	6/3/2014	6/12/2014	9	28	OK
MW-30	Chloroform	6/3/2014	6/6/2014	3	14	OK
MW-30	Chloromethane	6/3/2014	6/6/2014	3	14	OK
MW-30	Chromium	6/3/2014	6/9/2014	6	180	OK
MW-30	Cobalt	6/3/2014	6/9/2014	6	180	OK
MW-30	Copper	6/3/2014	6/9/2014	6	180	OK
MW-30	Fluoride	6/3/2014	6/12/2014	9	27	OK
MW-30	Gross Radium Alpha	6/3/2014	6/26/2014	23	180	OK
MW-30	Iron	6/3/2014	6/11/2014	8	180	OK
MW-30	Lead	6/3/2014	6/11/2014	8	180	OK
MW-30	Magnesium	6/3/2014	6/12/2014	9	180	OK
MW-30	Manganese	6/3/2014	6/9/2014	6	180	OK
MW-30	Mercury	6/3/2014	6/10/2014	7	180	OK
MW-30	Methylene chloride	6/3/2014	6/6/2014	3	14	OK
MW-30	Molybdenum	6/3/2014	6/9/2014	6	180	OK
MW-30	Naphthalene	6/3/2014	6/6/2014	3	14	OK
MW-30	Nickel	6/3/2014	6/9/2014	6	180	OK
MW-30	Nitrate/Nitrite (as N)	6/3/2014	6/14/2014	11	28	OK
MW-30	Potassium	6/3/2014	6/12/2014	9	180	OK
MW-30	Selenium	6/3/2014	6/9/2014	6	180	OK
MW-30	Silver	6/3/2014	6/9/2014	6	180	OK
MW-30	Sodium	6/3/2014	6/12/2014	9	180	OK
MW-30	Sulfate	6/3/2014	6/12/2014	9	28	OK
MW-30	Tetrahydrofuran	6/3/2014	6/6/2014	3	14	OK
MW-30	Thallium	6/3/2014	6/11/2014	8	180	OK
MW-30	Tin	6/3/2014	6/13/2014	10	180	OK
MW-30	Toluene	6/3/2014	6/6/2014	3	14	OK
MW-30	Total Dissolved Solids	6/3/2014	6/6/2014	3	7	OK
MW-30	Uranium	6/3/2014	6/11/2014	8	180	OK
MW-30	Vanadium	6/3/2014	6/12/2014	9	180	OK
MW-30	Xylenes, Total	6/3/2014	6/6/2014	3	14	OK
MW-30	Zinc	6/3/2014	6/12/2014	9	180	OK
MW-31	2-Butanone	6/2/2014	6/6/2014	4	14	OK
MW-31	Acetone	6/2/2014	6/6/2014	4	14	OK
MW-31	Ammonia (as N)	6/2/2014	6/16/2014	14	28	OK
MW-31	Arsenic	6/2/2014	6/9/2014	7	180	OK
MW-31	Benzene	6/2/2014	6/6/2014	4	14	OK
MW-31	Beryllium	6/2/2014	6/11/2014	9	180	OK
MW-31	Bicarbonate (as CaCO3)	6/2/2014	6/10/2014	8	14	OK
MW-31	Cadmium	6/2/2014	6/9/2014	7	180	OK
MW-31	Calcium	6/2/2014	6/12/2014	10	180	OK
MW-31	Carbon tetrachloride	6/2/2014	6/6/2014	4	14	OK
MW-31	Carbonate (as CaCO3)	6/2/2014	6/10/2014	8	14	OK
MW-31	Chloride	6/2/2014	6/12/2014	10	28	OK
MW-31	Chloroform	6/2/2014	6/6/2014	4	14	OK
MW-31	Chloromethane	6/2/2014	6/6/2014	4	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-31	Chromium	6/2/2014	6/9/2014	7	180	OK
MW-31	Cobalt	6/2/2014	6/9/2014	7	180	OK
MW-31	Copper	6/2/2014	6/9/2014	7	180	OK
MW-31	Fluoride	6/2/2014	6/12/2014	10	27	OK
MW-31	Gross Radium Alpha	6/2/2014	6/26/2014	24	180	OK
MW-31	Iron	6/2/2014	6/11/2014	9	180	OK
MW-31	Lead	6/2/2014	6/11/2014	9	180	OK
MW-31	Magnesium	6/2/2014	6/12/2014	10	180	OK
MW-31	Manganese	6/2/2014	6/9/2014	7	180	OK
MW-31	Mercury	6/2/2014	6/10/2014	8	180	OK
MW-31	Methylene chloride	6/2/2014	6/6/2014	4	14	OK
MW-31	Molybdenum	6/2/2014	6/9/2014	7	180	OK
MW-31	Naphthalene	6/2/2014	6/6/2014	4	14	OK
MW-31	Nickel	6/2/2014	6/9/2014	7	180	OK
MW-31	Nitrate/Nitrite (as N)	6/2/2014	6/14/2014	12	28	OK
MW-31	Potassium	6/2/2014	6/12/2014	10	180	OK
MW-31	Selenium	6/2/2014	6/9/2014	7	180	OK
MW-31	Silver	6/2/2014	6/9/2014	7	180	OK
MW-31	Sodium	6/2/2014	6/12/2014	10	180	OK
MW-31	Sulfate	6/2/2014	6/12/2014	10	28	OK
MW-31	Tetrahydrofuran	6/2/2014	6/6/2014	4	14	OK
MW-31	Thallium	6/2/2014	6/11/2014	9	180	OK
MW-31	Tin	6/2/2014	6/13/2014	11	180	OK
MW-31	Toluene	6/2/2014	6/6/2014	4	14	OK
MW-31	Total Dissolved Solids	6/2/2014	6/6/2014	4	7	OK
MW-31	Uranium	6/2/2014	6/11/2014	9	180	OK
MW-31	Vanadium	6/2/2014	6/12/2014	10	180	OK
MW-31	Xylenes, Total	6/2/2014	6/6/2014	4	14	OK
MW-31	Zinc	6/2/2014	6/12/2014	10	180	OK
MW-32	2-Butanone	5/23/2014	5/28/2014	5	14	OK
MW-32	Acetone	5/23/2014	5/28/2014	5	14	OK
MW-32	Ammonia (as N)	5/23/2014	6/2/2014	10	28	OK
MW-32	Arsenic	5/23/2014	5/30/2014	7	180	OK
MW-32	Benzene	5/23/2014	5/28/2014	5	14	OK
MW-32	Beryllium	5/23/2014	5/31/2014	8	180	OK
MW-32	Bicarbonate (as CaCO3)	5/23/2014	5/29/2014	6	14	OK
MW-32	Cadmium	5/23/2014	5/30/2014	7	180	OK
MW-32	Calcium	5/23/2014	6/2/2014	10	180	OK
MW-32	Carbon tetrachloride	5/23/2014	5/28/2014	5	14	OK
MW-32	Carbonate (as CaCO3)	5/23/2014	5/29/2014	6	14	OK
MW-32	Chloride	5/23/2014	6/4/2014	12	28	OK
MW-32	Chloroform	5/23/2014	5/28/2014	5	14	OK
MW-32	Chloromethane	5/23/2014	5/28/2014	5	14	OK
MW-32	Chromium	5/23/2014	5/30/2014	7	180	OK
MW-32	Cobalt	5/23/2014	5/30/2014	7	180	OK
MW-32	Copper	5/23/2014	6/3/2014	11	180	OK
MW-32	Fluoride	5/23/2014	6/5/2014	13	27	OK
MW-32	Gross Radium Alpha	5/23/2014	6/5/2014	13	180	OK
MW-32	Iron	5/23/2014	6/3/2014	11	180	OK
MW-32	Lead	5/23/2014	5/31/2014	8	180	OK
MW-32	Magnesium	5/23/2014	6/2/2014	10	180	OK
MW-32	Manganese	5/23/2014	6/3/2014	11	180	OK
MW-32	Mercury	5/23/2014	6/3/2014	11	180	OK
MW-32	Methylene chloride	5/23/2014	5/28/2014	5	14	OK

## G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-32	Molybdenum	5/23/2014	5/30/2014	7	180	OK
MW-32	Naphthalene	5/23/2014	5/28/2014	5	14	OK
MW-32	Nickel	5/23/2014	5/30/2014	7	180	OK
MW-32	Nitrate/Nitrite (as N)	5/23/2014	6/3/2014	11	28	OK
MW-32	Potassium	5/23/2014	6/3/2014	11	180	OK
MW-32	Selenium	5/23/2014	5/30/2014	7	180	OK
MW-32	Silver	5/23/2014	5/30/2014	7	180	OK
MW-32	Sodium	5/23/2014	6/2/2014	10	180	OK
MW-32	Sulfate	5/23/2014	6/4/2014	12	28	OK
MW-32	Tetrahydrofuran	5/23/2014	5/28/2014	5	14	OK
MW-32	Thallium	5/23/2014	5/31/2014	8	180	OK
MW-32	Tin	5/23/2014	6/3/2014	11	180	OK
MW-32	Toluene	5/23/2014	5/28/2014	5	14	OK
MW-32	Total Dissolved Solids	5/23/2014	5/28/2014	5	7	OK
MW-32	Uranium	5/23/2014	5/31/2014	8	180	OK
MW-32	Vanadium	5/23/2014	6/2/2014	10	180	OK
MW-32	Xylenes, Total	5/23/2014	5/28/2014	5	14	OK
MW-32	Zinc	5/23/2014	6/3/2014	11	180	OK
MW-35	2-Butanone	6/4/2014	6/6/2014	2	14	OK
MW-35	Acetone	6/4/2014	6/6/2014	2	14	OK
MW-35	Ammonia (as N)	6/4/2014	6/16/2014	12	28	OK
MW-35	Arsenic	6/4/2014	6/9/2014	5	180	OK
MW-35	Benzene	6/4/2014	6/6/2014	2	14	OK
MW-35	Beryllium	6/4/2014	6/11/2014	7	180	OK
MW-35	Bicarbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-35	Cadmium	6/4/2014	6/9/2014	5	180	OK
MW-35	Calcium	6/4/2014	6/12/2014	8	180	OK
MW-35	Carbon tetrachloride	6/4/2014	6/6/2014	2	14	OK
MW-35	Carbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-35	Chloride	6/4/2014	6/12/2014	8	28	OK
MW-35	Chloroform	6/4/2014	6/6/2014	2	14	OK
MW-35	Chloromethane	6/4/2014	6/6/2014	2	14	OK
MW-35	Chromium	6/4/2014	6/9/2014	5	180	OK
MW-35	Cobalt	6/4/2014	6/9/2014	5	180	OK
MW-35	Copper	6/4/2014	6/9/2014	5	180	OK
MW-35	Fluoride	6/4/2014	6/12/2014	8	27	OK
MW-35	Gross Radium Alpha	6/4/2014	7/29/2014	55	180	OK
MW-35	Iron	6/4/2014	6/11/2014	7	180	OK
MW-35	Lead	6/4/2014	6/11/2014	7	180	OK
MW-35	Magnesium	6/4/2014	6/12/2014	8	180	OK
MW-35	Manganese	6/4/2014	6/9/2014	5	180	OK
MW-35	Mercury	6/4/2014	6/10/2014	6	180	OK
MW-35	Methylene chloride	6/4/2014	6/6/2014	2	14	OK
MW-35	Molybdenum	6/4/2014	6/9/2014	5	180	OK
MW-35	Naphthalene	6/4/2014	6/6/2014	2	14	OK
MW-35	Nickel	6/4/2014	6/9/2014	5	180	OK
MW-35	Nitrate/Nitrite (as N)	6/4/2014	6/14/2014	10	28	OK
MW-35	Potassium	6/4/2014	6/12/2014	8	180	OK
MW-35	Selenium	6/4/2014	6/9/2014	5	180	OK
MW-35	Silver	6/4/2014	6/9/2014	5	180	OK
MW-35	Sodium	6/4/2014	6/12/2014	8	180	OK
MW-35	Sulfate	6/4/2014	6/12/2014	8	28	OK
MW-35	Tetrahydrofuran	6/4/2014	6/6/2014	2	14	OK
MW-35	Thallium	6/4/2014	6/11/2014	7	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-35	Tin	6/4/2014	6/13/2014	9	180	OK
MW-35	Toluene	6/4/2014	6/6/2014	2	14	OK
MW-35	Total Dissolved Solids	6/4/2014	6/6/2014	2	7	OK
MW-35	Uranium	6/4/2014	6/11/2014	7	180	OK
MW-35	Vanadium	6/4/2014	6/12/2014	8	180	OK
MW-35	Xylenes, Total	6/4/2014	6/6/2014	2	14	OK
MW-35	Zinc	6/4/2014	6/12/2014	8	180	OK
MW-36	2-Butanone	5/29/2014	5/30/2014	1	14	OK
MW-36	Acetone	5/29/2014	5/30/2014	1	14	OK
MW-36	Ammonia (as N)	5/29/2014	6/4/2014	6	28	OK
MW-36	Arsenic	5/29/2014	6/3/2014	5	180	OK
MW-36	Benzene	5/29/2014	5/30/2014	1	14	OK
MW-36	Beryllium	5/29/2014	6/3/2014	5	180	OK
MW-36	Bicarbonate (as CaCO3)	5/29/2014	6/3/2014	5	14	OK
MW-36	Cadmium	5/29/2014	6/3/2014	5	180	OK
MW-36	Calcium	5/29/2014	6/4/2014	6	180	OK
MW-36	Carbon tetrachloride	5/29/2014	5/30/2014	1	14	OK
MW-36	Carbonate (as CaCO3)	5/29/2014	6/3/2014	5	14	OK
MW-36	Chloride	5/29/2014	6/9/2014	11	28	OK
MW-36	Chloroform	5/29/2014	5/30/2014	1	14	OK
MW-36	Chloromethane	5/29/2014	5/30/2014	1	14	OK
MW-36	Chromium	5/29/2014	6/3/2014	5	180	OK
MW-36	Cobalt	5/29/2014	6/3/2014	5	180	OK
MW-36	Copper	5/29/2014	6/3/2014	5	180	OK
MW-36	Fluoride	5/29/2014	6/10/2014	12	27	OK
MW-36	Gross Radium Alpha	5/29/2014	6/5/2014	7	180	OK
MW-36	Iron	5/29/2014	6/4/2014	6	180	OK
MW-36	Lead	5/29/2014	6/3/2014	5	180	OK
MW-36	Magnesium	5/29/2014	6/4/2014	6	180	OK
MW-36	Manganese	5/29/2014	6/3/2014	5	180	OK
MW-36	Mercury	5/29/2014	6/3/2014	5	180	OK
MW-36	Methylene chloride	5/29/2014	5/30/2014	1	14	OK
MW-36	Molybdenum	5/29/2014	6/3/2014	5	180	OK
MW-36	Naphthalene	5/29/2014	5/30/2014	1	14	OK
MW-36	Nickel	5/29/2014	6/3/2014	5	180	OK
MW-36	Nitrate/Nitrite (as N)	5/29/2014	6/5/2014	7	28	OK
MW-36	Potassium	5/29/2014	6/4/2014	6	180	OK
MW-36	Selenium	5/29/2014	6/3/2014	5	180	OK
MW-36	Silver	5/29/2014	6/3/2014	5	180	OK
MW-36	Sodium	5/29/2014	6/4/2014	6	180	OK
MW-36	Sulfate	5/29/2014	6/9/2014	11	28	OK
MW-36	Tetrahydrofuran	5/29/2014	5/30/2014	1	14	OK
MW-36	Thallium	5/29/2014	6/4/2014	6	180	OK
MW-36	Tin	5/29/2014	6/4/2014	6	180	OK
MW-36	Toluene	5/29/2014	5/30/2014	1	14	OK
MW-36	Total Dissolved Solids	5/29/2014	5/30/2014	1	7	OK
MW-36	Uranium	5/29/2014	6/4/2014	6	180	OK
MW-36	Vanadium	5/29/2014	6/4/2014	6	180	OK
MW-36	Xylenes, Total	5/29/2014	5/30/2014	1	14	OK
MW-36	Zinc	5/29/2014	6/4/2014	6	180	OK
MW-37	2-Butanone	6/18/2014	6/19/2014	1	14	OK
MW-37	Acetone	6/18/2014	6/19/2014	1	14	OK
MW-37	Ammonia (as N)	6/18/2014	6/25/2014	7	28	OK
MW-37	Arsenic	6/18/2014	6/20/2014	2	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-37	Benzene	6/18/2014	6/19/2014	1	14	OK
MW-37	Beryllium	6/18/2014	6/20/2014	2	180	OK
MW-37	Bicarbonate (as CaCO3)	6/18/2014	6/20/2014	2	14	OK
MW-37	Cadmium	6/18/2014	6/20/2014	2	180	OK
MW-37	Calcium	6/18/2014	6/25/2014	7	180	OK
MW-37	Carbon tetrachloride	6/18/2014	6/19/2014	1	14	OK
MW-37	Carbonate (as CaCO3)	6/18/2014	6/20/2014	2	14	OK
MW-37	Chloride	6/18/2014	6/24/2014	6	28	OK
MW-37	Chloroform	6/18/2014	6/19/2014	1	14	OK
MW-37	Chloromethane	6/18/2014	6/19/2014	1	14	OK
MW-37	Chromium	6/18/2014	6/20/2014	2	180	OK
MW-37	Cobalt	6/18/2014	6/20/2014	2	180	OK
MW-37	Copper	6/18/2014	6/20/2014	2	180	OK
MW-37	Fluoride	6/18/2014	6/24/2014	6	27	OK
MW-37	Gross Radium Alpha	6/18/2014	7/12/2014	24	180	OK
MW-37	Iron	6/18/2014	6/25/2014	7	180	OK
MW-37	Lead	6/18/2014	6/20/2014	2	180	OK
MW-37	Magnesium	6/18/2014	6/25/2014	7	180	OK
MW-37	Manganese	6/18/2014	6/20/2014	2	180	OK
MW-37	Mercury	6/18/2014	6/24/2014	6	180	OK
MW-37	Methylene chloride	6/18/2014	6/19/2014	1	14	OK
MW-37	Molybdenum	6/18/2014	6/20/2014	2	180	OK
MW-37	Naphthalene	6/18/2014	6/19/2014	1	14	OK
MW-37	Nickel	6/18/2014	6/20/2014	2	180	OK
MW-37	Nitrate/Nitrite (as N)	6/18/2014	6/19/2014	1	28	OK
MW-37	Potassium	6/18/2014	6/25/2014	7	180	OK
MW-37	Selenium	6/18/2014	6/20/2014	2	180	OK
MW-37	Silver	6/18/2014	6/20/2014	2	180	OK
MW-37	Sodium	6/18/2014	6/25/2014	7	180	OK
MW-37	Sulfate	6/18/2014	6/24/2014	6	28	OK
MW-37	Tetrahydrofuran	6/18/2014	6/19/2014	1	14	OK
MW-37	Thallium	6/18/2014	6/20/2014	2	180	OK
MW-37	Tin	6/18/2014	6/23/2014	5	180	OK
MW-37	Toluene	6/18/2014	6/19/2014	1	14	OK
MW-37	Total Dissolved Solids	6/18/2014	6/20/2014	2	7	OK
MW-37	Uranium	6/18/2014	6/23/2014	5	180	OK
MW-37	Vanadium	6/18/2014	6/25/2014	7	180	OK
MW-37	Xylenes, Total	6/18/2014	6/19/2014	1	14	OK
MW-37	Zinc	6/18/2014	6/25/2014	7	180	OK
MW-65	2-Butanone	6/4/2014	6/6/2014	2	14	OK
MW-65	Acetone	6/4/2014	6/6/2014	2	14	OK
MW-65	Ammonia (as N)	6/4/2014	6/16/2014	12	28	OK
MW-65	Arsenic	6/4/2014	6/9/2014	5	180	OK
MW-65	Benzene	6/4/2014	6/6/2014	2	14	OK
MW-65	Beryllium	6/4/2014	6/11/2014	7	180	OK
MW-65	Bicarbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-65	Cadmium	6/4/2014	6/9/2014	5	180	OK
MW-65	Calcium	6/4/2014	6/12/2014	8	180	OK
MW-65	Carbon tetrachloride	6/4/2014	6/6/2014	2	14	OK
MW-65	Carbonate (as CaCO3)	6/4/2014	6/10/2014	6	14	OK
MW-65	Chloride	6/4/2014	6/12/2014	8	28	OK
MW-65	Chloroform	6/4/2014	6/6/2014	2	14	OK
MW-65	Chloromethane	6/4/2014	6/6/2014	2	14	OK
MW-65	Chromium	6/4/2014	6/9/2014	5	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Cobalt	6/4/2014	6/9/2014	5	180	OK
MW-65	Copper	6/4/2014	6/9/2014	5	180	OK
MW-65	Fluoride	6/4/2014	6/13/2014	9	27	OK
MW-65	Gross Radium Alpha	6/4/2014	7/29/2014	55	180	OK
MW-65	Iron	6/4/2014	6/11/2014	7	180	OK
MW-65	Lead	6/4/2014	6/11/2014	7	180	OK
MW-65	Magnesium	6/4/2014	6/12/2014	8	180	OK
MW-65	Manganese	6/4/2014	6/9/2014	5	180	OK
MW-65	Mercury	6/4/2014	6/10/2014	6	180	OK
MW-65	Methylene chloride	6/4/2014	6/6/2014	2	14	OK
MW-65	Molybdenum	6/4/2014	6/9/2014	5	180	OK
MW-65	Naphthalene	6/4/2014	6/6/2014	2	14	OK
MW-65	Nickel	6/4/2014	6/9/2014	5	180	OK
MW-65	Nitrate/Nitrite (as N)	6/4/2014	6/14/2014	10	28	OK
MW-65	Potassium	6/4/2014	6/12/2014	8	180	OK
MW-65	Selenium	6/4/2014	6/9/2014	5	180	OK
MW-65	Silver	6/4/2014	6/9/2014	5	180	OK
MW-65	Sodium	6/4/2014	6/12/2014	8	180	OK
MW-65	Sulfate	6/4/2014	6/12/2014	8	28	OK
MW-65	Tetrahydrofuran	6/4/2014	6/6/2014	2	14	OK
MW-65	Thallium	6/4/2014	6/11/2014	7	180	OK
MW-65	Tin	6/4/2014	6/13/2014	9	180	OK
MW-65	Toluene	6/4/2014	6/6/2014	2	14	OK
MW-65	Total Dissolved Solids	6/4/2014	6/6/2014	2	7	OK
MW-65	Uranium	6/4/2014	6/11/2014	7	180	OK
MW-65	Vanadium	6/4/2014	6/12/2014	8	180	OK
MW-65	Xylenes, Total	6/4/2014	6/6/2014	2	14	OK
MW-65	Zinc	6/4/2014	6/12/2014	8	180	OK
MW-70	2-Butanone	6/11/2014	6/13/2014	2	14	OK
MW-70	Acetone	6/11/2014	6/13/2014	2	14	OK
MW-70	Ammonia (as N)	6/11/2014	6/24/2014	13	28	OK
MW-70	Arsenic	6/11/2014	6/16/2014	5	180	OK
MW-70	Benzene	6/11/2014	6/13/2014	2	14	OK
MW-70	Beryllium	6/11/2014	6/17/2014	6	180	OK
MW-70	Bicarbonate (as CaCO3)	6/11/2014	6/25/2014	14	14	OK
MW-70	Cadmium	6/11/2014	6/16/2014	5	180	OK
MW-70	Calcium	6/11/2014	6/17/2014	6	180	OK
MW-70	Carbon tetrachloride	6/11/2014	6/13/2014	2	14	OK
MW-70	Carbonate (as CaCO3)	6/11/2014	6/25/2014	14	14	OK
MW-70	Chloride	6/11/2014	6/23/2014	12	28	OK
MW-70	Chloroform	6/11/2014	6/13/2014	2	14	OK
MW-70	Chloromethane	6/11/2014	6/13/2014	2	14	OK
MW-70	Chromium	6/11/2014	6/16/2014	5	180	OK
MW-70	Cobalt	6/11/2014	6/16/2014	5	180	OK
MW-70	Copper	6/11/2014	6/16/2014	5	180	OK
MW-70	Fluoride	6/11/2014	6/23/2014	12	27	OK
MW-70	Gross Radium Alpha	6/11/2014	7/12/2014	31	180	OK
MW-70	Iron	6/11/2014	6/17/2014	6	180	OK
MW-70	Lead	6/11/2014	6/17/2014	6	180	OK
MW-70	Magnesium	6/11/2014	6/17/2014	6	180	OK
MW-70	Manganese	6/11/2014	6/16/2014	5	180	OK
MW-70	Mercury	6/11/2014	6/16/2014	5	180	OK
MW-70	Methylene chloride	6/11/2014	6/13/2014	2	14	OK
MW-70	Molybdenum	6/11/2014	6/16/2014	5	180	OK

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Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-70	Naphthalene	6/11/2014	6/13/2014	2	14	OK
MW-70	Nickel	6/11/2014	6/16/2014	5	180	OK
MW-70	Nitrate/Nitrite (as N)	6/11/2014	6/14/2014	3	28	OK
MW-70	Potassium	6/11/2014	6/19/2014	8	180	OK
MW-70	Selenium	6/11/2014	6/17/2014	6	180	OK
MW-70	Silver	6/11/2014	6/17/2014	6	180	OK
MW-70	Sodium	6/11/2014	6/17/2014	6	180	OK
MW-70	Sulfate	6/11/2014	6/20/2014	9	28	OK
MW-70	Tetrahydrofuran	6/11/2014	6/13/2014	2	14	OK
MW-70	Thallium	6/11/2014	6/18/2014	7	180	OK
MW-70	Tin	6/11/2014	6/16/2014	5	180	OK
MW-70	Toluene	6/11/2014	6/13/2014	2	14	OK
MW-70	Total Dissolved Solids	6/11/2014	6/17/2014	6	7	OK
MW-70	Uranium	6/11/2014	6/17/2014	6	180	OK
MW-70	Vanadium	6/11/2014	6/17/2014	6	180	OK
MW-70	Xylenes, Total	6/11/2014	6/13/2014	2	14	OK
MW-70	Zinc	6/11/2014	6/17/2014	6	180	OK

## G-2B: Holding Time Evaluation - Accelerated Samples

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Chloroform	4/30/2014	5/2/2014	2	14	OK
Trip Blank	Methylene chloride	4/30/2014	5/2/2014	2	14	OK
Trip Blank	Carbon tetrachloride	5/14/2014	5/16/2014	2	14	OK
Trip Blank	Chloroform	5/14/2014	5/16/2014	2	14	OK
Trip Blank	Methylene chloride	5/14/2014	5/16/2014	2	14	OK
MW-11	Manganese	4/25/2014	5/7/2014	12	180	OK
MW-11	Manganese	5/14/2014	5/19/2014	5	180	OK
MW-14	Manganese	4/23/2014	5/3/2014	10	180	OK
MW-14	Manganese	5/13/2014	5/19/2014	6	180	OK
MW-25	Chloride	4/28/2014	5/2/2014	4	28	OK
MW-25	Fluoride	4/28/2014	5/6/2014	8	27	OK
MW-25	Cadmium	4/28/2014	5/5/2014	7	180	OK
MW-25	Uranium	4/28/2014	5/5/2014	7	180	OK
MW-25	Chloride	5/13/2014	5/16/2014	3	28	OK
MW-25	Fluoride	5/13/2014	5/16/2014	3	27	OK
MW-25	Cadmium	5/13/2014	5/17/2014	4	180	OK
MW-25	Uranium	5/13/2014	5/20/2014	7	180	OK
MW-26	Chloride	4/30/2014	5/2/2014	2	28	OK
MW-26	Chloroform	4/30/2014	5/2/2014	2	14	OK
MW-26	Uranium	4/30/2014	5/5/2014	5	180	OK
MW-26	Methylene chloride	4/30/2014	5/2/2014	2	14	OK
MW-26	Nitrate/Nitrite (as N)	4/30/2014	5/6/2014	6	28	OK
MW-26	Chloride	5/14/2014	5/16/2014	2	28	OK
MW-26	Carbon tetrachloride	5/14/2014	5/16/2014	2	14	OK
MW-26	Chloroform	5/14/2014	5/16/2014	2	14	OK
MW-26	Uranium	5/14/2014	5/20/2014	6	180	OK
MW-26	Methylene chloride	5/14/2014	5/16/2014	2	14	OK
MW-26	Nitrate/Nitrite (as N)	5/14/2014	5/16/2014	2	28	OK
MW-30	Chloride	4/23/2014	4/29/2014	6	28	OK
MW-30	Uranium	4/23/2014	5/5/2014	12	180	OK
MW-30	Selenium	4/23/2014	5/3/2014	10	180	OK
MW-30	Nitrate/Nitrite (as N)	4/23/2014	4/25/2014	2	28	OK
MW-30	Chloride	5/14/2014	5/16/2014	2	28	OK
MW-30	Uranium	5/14/2014	5/20/2014	6	180	OK
MW-30	Selenium	5/14/2014	5/17/2014	3	180	OK
MW-30	Nitrate/Nitrite (as N)	5/14/2014	5/16/2014	2	28	OK
MW-31	Sulfate	4/28/2014	5/5/2014	7	28	OK
MW-31	Chloride	4/28/2014	5/2/2014	4	28	OK
MW-31	Selenium	4/28/2014	5/5/2014	7	180	OK
MW-31	Nitrate/Nitrite (as N)	4/28/2014	5/6/2014	8	28	OK
MW-31	Total Dissolved Solids	4/28/2014	5/2/2014	4	7	OK
MW-31	Sulfate	5/13/2014	5/16/2014	3	28	OK
MW-31	Chloride	5/13/2014	5/16/2014	3	28	OK
MW-31	Selenium	5/13/2014	5/17/2014	4	180	OK
MW-31	Nitrate/Nitrite (as N)	5/13/2014	5/16/2014	3	28	OK
MW-31	Total Dissolved Solids	5/13/2014	5/16/2014	3	7	OK
MW-35	Manganese	4/25/2014	5/7/2014	12	180	OK
MW-35	Thallium	4/25/2014	5/7/2014	12	180	OK
MW-35	Uranium	4/25/2014	5/5/2014	10	180	OK
MW-35	Selenium	4/25/2014	5/5/2014	10	180	OK
MW-35	Gross Radium Alpha	4/25/2014	5/30/2014	35	180	OK
MW-35	Manganese	5/14/2014	5/19/2014	5	180	OK
MW-35	Thallium	5/14/2014	5/20/2014	6	180	OK
MW-35	Uranium	5/14/2014	5/20/2014	6	180	OK

G-2B: Holding Time Evaluation - Accelerated Samples

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-35	Selenium	5/14/2014	5/17/2014	3	180	OK
MW-35	Gross Radium Alpha	5/14/2014	5/30/2014	16	180	OK
MW-25	Chloride	4/28/2014	5/2/2014	4	28	OK
MW-25	Fluoride	4/28/2014	5/6/2014	8	27	OK
MW-25	Cadmium	4/28/2014	5/5/2014	7	180	OK
MW-25	Uranium	4/28/2014	5/5/2014	7	180	OK
MW-35	Manganese	5/14/2014	5/19/2014	5	180	OK
MW-35	Thallium	5/14/2014	5/20/2014	6	180	OK
MW-35	Uranium	5/14/2014	5/20/2014	6	180	OK
MW-35	Selenium	5/14/2014	5/17/2014	3	180	OK
MW-35	Gross Radium Alpha	5/14/2014	5/30/2014	16	180	OK

G-3A: Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
AWAL 1405563	MW-32, Trip Blank	3.6 °C
AWAL 1405608	MW-01, MW-02, MW-18, MW-19, MW-27, MW-36, Trip Blank	1.6 °C
AWAL 1406025	MW-03A, MW-03, MW-24, MW-17, MW-25, Trip Blank	2.6 °C
AWAL 1406109	MW-05, MW-11, MW-12, MW-14, MW-15, MW-26, MW-29, MW-30, MW-31, MW-35, MW-65, Trip Blank	3.9 °C
AWAL 1406278	MW-22, MW-23, MW-70, Trip Blank	0.6 °C
AWAL 1406404	MW-20, MW-28, MW-37, Trip Blank	3.0 °C
GEL 349790	MW-01, MW-02, MW-18, MW-19, MW-27, MW-32, MW-36	N/A
GEL 350282	MW-03, MW-03A, MW-05, MW-11, MW-12, MW-14, MW-15, MW-17, MW-24, MW-25, MW-26, MW-29, MW-30, MW-31, MW-35, MW-65	N/A
GEL 351093	MW-20, MW-22, MW-23, MW-28, MW-37, MW-70	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-3B: Laboratory Receipt Temperature Check - Accelerated Samples

Sample Batch	Wells in Batch	Temperature
AWAL 1404535	MW-14, MW-30	3.8°C
AWAL 1405043	MW-11, MW-25, MW-26, MW-31, MW-35, MW-65, Trip Blank	1.3°C
GEL 348002	MW-35	NA
AWAL 1405337	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65, Trip Blank	2.1 °C
GEL 348856	MW-35, MW-65	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
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
Fluoride	A4500-F C or E300.0	A4500-F C and E300.0

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-01	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-01	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-01	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-01	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-01	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-01	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-01	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-01	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-01	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-01	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-01	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-01	Chloride	5	mg/L		1	mg/l	OK	5
MW-01	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-01	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-01	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-01	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-01	Copper	10	ug/L	U	10	ug/L	OK	20
MW-01	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-01	Gross Radium Alpha	0.76	pCi/L		1	pCi/L	OK	1
MW-01	Iron	30	ug/L		30	ug/L	OK	5
MW-01	Lead	1	ug/L	U	1	ug/L	OK	5
MW-01	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-01	Manganese	10	ug/L		10	ug/L	OK	20
MW-01	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-01	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-01	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-01	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-01	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-01	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-01	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-01	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-01	Silver	10	ug/L	U	10	ug/L	OK	20
MW-01	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-01	Sulfate	100	mg/L		1	mg/l	OK	100
MW-01	Tetrahydrofuran	1	ug/L		1	ug/L	OK	1
MW-01	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-01	Tin	100	ug/L	U	100	ug/L	OK	20
MW-01	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-01	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-01	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-01	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-01	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-01	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-02	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-02	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-02	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-02	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-02	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-02	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-02	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-02	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-02	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-02	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-02	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-02	Chloride	1	mg/L		1	mg/l	OK	1
MW-02	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-02	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-02	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-02	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-02	Copper	10	ug/L	U	10	ug/L	OK	20
MW-02	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-02	Gross Radium Alpha	0.742	pCi/L		1	pCi/L	OK	1
MW-02	Iron	30	ug/L	U	30	ug/L	OK	5
MW-02	Lead	1	ug/L	U	1	ug/L	OK	5
MW-02	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-02	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-02	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-02	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-02	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-02	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-02	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-02	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-02	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-02	Selenium	5	ug/L		5	ug/L	OK	20
MW-02	Silver	10	ug/L	U	10	ug/L	OK	20
MW-02	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-02	Sulfate	500	mg/L		1	mg/l	OK	500
MW-02	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-02	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-02	Tin	100	ug/L	U	100	ug/L	OK	20
MW-02	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-02	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-02	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-02	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-02	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-02	Zinc	10	ug/L		10	ug/L	OK	1
MW-03	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-03	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-03	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-03	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-03	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-03	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-03	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-03	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-03	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-03	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-03	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-03	Chloride	10	mg/L		1	mg/l	OK	10
MW-03	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-03	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-03	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-03	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-03	Copper	10	ug/L	U	10	ug/L	OK	20
MW-03	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-03	Gross Radium Alpha	0.701	pCi/L	U	1	pCi/L	OK	1
MW-03	Iron	30	ug/L	U	30	ug/L	OK	5
MW-03	Lead	1	ug/L	U	1	ug/L	OK	5
MW-03	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-03	Manganese	10	ug/L		10	ug/L	OK	20
MW-03	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-03	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-03	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-03	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-03	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-03	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-03	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-03	Selenium	5	ug/L		5	ug/L	OK	20
MW-03	Silver	10	ug/L	U	10	ug/L	OK	20
MW-03	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-03	Sulfate	500	mg/L		1	mg/l	OK	500
MW-03	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-03	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-03	Tin	100	ug/L	U	100	ug/L	OK	20
MW-03	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-03	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-03	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-03	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-03	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-03	Zinc	10	ug/L		10	ug/L	OK	1
MW-03a	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-03a	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-03a	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-03a	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-03a	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-03a	Beryllium	0.5	ug/L		0.5	ug/L	OK	5
MW-03a	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-03a	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-03a	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-03a	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-03a	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-03a	Chloride	10	mg/L		1	mg/l	OK	10
MW-03a	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-03a	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-03a	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-03a	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-03a	Copper	10	ug/L	U	10	ug/L	OK	20
MW-03a	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-03a	Gross Radium Alpha	0.638	pCi/L	U	1	pCi/L	OK	1
MW-03a	Iron	30	ug/L	U	30	ug/L	OK	5
MW-03a	Lead	1	ug/L	U	1	ug/L	OK	5

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-03a	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-03a	Manganese	10	ug/L		10	ug/L	OK	20
MW-03a	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-03a	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-03a	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-03a	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-03a	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-03a	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-03a	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-03a	Selenium	5	ug/L		5	ug/L	OK	20
MW-03a	Silver	10	ug/L	U	10	ug/L	OK	20
MW-03a	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-03a	Sulfate	500	mg/L		1	mg/l	OK	500
MW-03a	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-03a	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-03a	Tin	100	ug/L	U	100	ug/L	OK	20
MW-03a	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-03a	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-03a	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-03a	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-03a	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-03a	Zinc	10	ug/L		10	ug/L	OK	1
MW-05	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-05	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-05	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-05	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-05	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-05	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-05	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-05	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-05	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-05	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-05	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-05	Chloride	10	mg/L		1	mg/l	OK	10
MW-05	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-05	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-05	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-05	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-05	Copper	10	ug/L	U	10	ug/L	OK	20
MW-05	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-05	Gross Radium Alpha	0.795	pCi/L	U	1	pCi/L	OK	1
MW-05	Iron	30	ug/L		30	ug/L	OK	5
MW-05	Lead	1	ug/L	U	1	ug/L	OK	5
MW-05	Magnesium	1	mg/L		0.5	mg/l	OK	1
MW-05	Manganese	10	ug/L		10	ug/L	OK	20
MW-05	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-05	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-05	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-05	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-05	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-05	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-05	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-05	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-05	Silver	10	ug/L	U	10	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-05	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-05	Sulfate	100	mg/L		1	mg/l	OK	100
MW-05	Tetrahydrofuran	1	ug/L		1	ug/L	OK	1
MW-05	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-05	Tin	100	ug/L	U	100	ug/L	OK	20
MW-05	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-05	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-05	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-05	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-05	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-05	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-11	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-11	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-11	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-11	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-11	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-11	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-11	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-11	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-11	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-11	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-11	Chloride	5	mg/L		1	mg/l	OK	5
MW-11	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-11	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-11	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-11	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-11	Copper	10	ug/L	U	10	ug/L	OK	20
MW-11	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-11	Gross Radium Alpha	0.675	pCi/L	U	1	pCi/L	OK	1
MW-11	Iron	30	ug/L		30	ug/L	OK	5
MW-11	Lead	1	ug/L	U	1	ug/L	OK	5
MW-11	Magnesium	1	mg/L		0.5	mg/l	OK	1
MW-11	Manganese	10	ug/L		10	ug/L	OK	20
MW-11	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-11	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-11	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-11	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-11	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-11	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-11	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-11	Silver	10	ug/L	U	10	ug/L	OK	20
MW-11	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-11	Sulfate	500	mg/L		1	mg/l	OK	500
MW-11	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-11	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-11	Tin	100	ug/L	U	100	ug/L	OK	20
MW-11	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-11	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-11	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-11	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-11	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-11	Zinc	10	ug/L	U	10	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-12	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-12	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-12	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-12	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-12	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-12	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-12	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-12	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-12	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-12	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-12	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-12	Chloride	10	mg/L		1	mg/l	OK	10
MW-12	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-12	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-12	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-12	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-12	Copper	10	ug/L	U	10	ug/L	OK	20
MW-12	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-12	Gross Radium Alpha	0.646	pCi/L	U	1	pCi/L	OK	1
MW-12	Iron	30	ug/L		30	ug/L	OK	5
MW-12	Lead	1	ug/L	U	1	ug/L	OK	5
MW-12	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-12	Manganese	10	ug/L		10	ug/L	OK	20
MW-12	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-12	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-12	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-12	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-12	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-12	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-12	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-12	Selenium	5	ug/L		5	ug/L	OK	20
MW-12	Silver	10	ug/L	U	10	ug/L	OK	20
MW-12	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-12	Sulfate	500	mg/L		1	mg/l	OK	500
MW-12	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-12	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-12	Tin	100	ug/L	U	100	ug/L	OK	20
MW-12	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-12	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-12	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-12	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-12	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-12	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-14	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-14	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-14	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-14	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-14	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-14	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-14	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-14	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-14	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-14	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-14	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-14	Chloride	5	mg/L		1	mg/l	OK	5
MW-14	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-14	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-14	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-14	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-14	Copper	10	ug/L	U	10	ug/L	OK	20
MW-14	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-14	Gross Radium Alpha	0.567	pCi/L	U	1	pCi/L	OK	1
MW-14	Iron	30	ug/L	U	30	ug/L	OK	5
MW-14	Lead	1	ug/L	U	1	ug/L	OK	5
MW-14	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-14	Manganese	10	ug/L		10	ug/L	OK	20
MW-14	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-14	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-14	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-14	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-14	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-14	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-14	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-14	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-14	Silver	10	ug/L	U	10	ug/L	OK	20
MW-14	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-14	Sulfate	500	mg/L		1	mg/l	OK	500
MW-14	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-14	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-14	Tin	100	ug/L	U	100	ug/L	OK	20
MW-14	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-14	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-14	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-14	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-14	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-14	Zinc	10	ug/L		10	ug/L	OK	1
MW-15	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-15	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-15	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-15	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-15	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-15	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-15	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-15	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-15	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-15	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-15	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-15	Chloride	5	mg/L		1	mg/l	OK	5
MW-15	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-15	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-15	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-15	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-15	Copper	10	ug/L	U	10	ug/L	OK	20
MW-15	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-15	Gross Radium Alpha	0.813	pCi/L	U	1	pCi/L	OK	1
MW-15	Iron	30	ug/L	U	30	ug/L	OK	5
MW-15	Lead	1	ug/L	U	1	ug/L	OK	5
MW-15	Magnesium	50	mg/L		0.5	mg/l	OK	50

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-15	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-15	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-15	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-15	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-15	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-15	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-15	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-15	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-15	Selenium	5	ug/L		5	ug/L	OK	20
MW-15	Silver	10	ug/L	U	10	ug/L	OK	20
MW-15	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-15	Sulfate	500	mg/L		1	mg/l	OK	500
MW-15	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-15	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-15	Tin	100	ug/L	U	100	ug/L	OK	20
MW-15	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-15	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-15	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-15	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-15	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-15	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-17	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-17	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-17	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-17	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-17	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-17	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-17	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-17	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-17	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-17	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-17	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-17	Chloride	5	mg/L		1	mg/l	OK	5
MW-17	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-17	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-17	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-17	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-17	Copper	10	ug/L	U	10	ug/L	OK	20
MW-17	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-17	Gross Radium Alpha	0.758	pCi/L	U	1	pCi/L	OK	1
MW-17	Iron	30	ug/L	U	30	ug/L	OK	5
MW-17	Lead	1	ug/L	U	1	ug/L	OK	5
MW-17	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-17	Manganese	10	ug/L		10	ug/L	OK	20
MW-17	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-17	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-17	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-17	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-17	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-17	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-17	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-17	Selenium	5	ug/L		5	ug/L	OK	20
MW-17	Silver	10	ug/L	U	10	ug/L	OK	20
MW-17	Sodium	50	mg/L		0.5	mg/l	OK	50

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-17	Sulfate	500	mg/L		1	mg/l	OK	500
MW-17	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-17	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-17	Tin	100	ug/L	U	100	ug/L	OK	20
MW-17	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-17	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-17	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-17	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-17	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-17	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-18	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-18	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-18	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-18	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-18	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-18	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-18	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-18	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-18	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-18	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-18	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-18	Chloride	10	mg/L		1	mg/l	OK	10
MW-18	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-18	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-18	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-18	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-18	Copper	10	ug/L	U	10	ug/L	OK	20
MW-18	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-18	Gross Radium Alpha	0.778	pCi/L		1	pCi/L	OK	1
MW-18	Iron	30	ug/L		30	ug/L	OK	5
MW-18	Lead	1	ug/L	U	1	ug/L	OK	5
MW-18	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-18	Manganese	10	ug/L		10	ug/L	OK	20
MW-18	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-18	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-18	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-18	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-18	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-18	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-18	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-18	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-18	Silver	10	ug/L	U	10	ug/L	OK	20
MW-18	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-18	Sulfate	500	mg/L		1	mg/l	OK	500
MW-18	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-18	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-18	Tin	100	ug/L	U	100	ug/L	OK	20
MW-18	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-18	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-18	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-18	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-18	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-18	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-19	2-Butanone	20	ug/L	U	20	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-19	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-19	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-19	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-19	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-19	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-19	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-19	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-19	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-19	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-19	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-19	Chloride	5	mg/L		1	mg/l	OK	5
MW-19	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-19	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-19	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-19	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-19	Copper	10	ug/L	U	10	ug/L	OK	20
MW-19	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-19	Gross Radium Alpha	0.771	pCi/L		1	pCi/L	OK	1
MW-19	Iron	30	ug/L	U	30	ug/L	OK	5
MW-19	Lead	1	ug/L	U	1	ug/L	OK	5
MW-19	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-19	Manganese	10	ug/L		10	ug/L	OK	20
MW-19	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-19	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-19	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-19	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-19	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-19	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-19	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-19	Selenium	5	ug/L		5	ug/L	OK	20
MW-19	Silver	10	ug/L	U	10	ug/L	OK	20
MW-19	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-19	Sulfate	100	mg/L		1	mg/l	OK	100
MW-19	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-19	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-19	Tin	100	ug/L	U	100	ug/L	OK	20
MW-19	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-19	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-19	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-19	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-19	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-19	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-20	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-20	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-20	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-20	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-20	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-20	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-20	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-20	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-20	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-20	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-20	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-20	Chloride	1	mg/L		1	mg/l	OK	10

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-20	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-20	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-20	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-20	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-20	Copper	10	ug/L	U	10	ug/L	OK	20
MW-20	Fluoride	1	mg/L	U	0.1	mg/l	OK	10
MW-20	Gross Radium Alpha	0.309	pCi/L	U	1	pCi/L	OK	1
MW-20	Iron	30	ug/L	U	30	ug/L	OK	5
MW-20	Lead	1	ug/L	U	1	ug/L	OK	5
MW-20	Magnesium	1	mg/L		0.5	mg/l	OK	1
MW-20	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-20	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-20	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-20	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-20	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-20	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-20	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-20	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-20	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-20	Silver	10	ug/L	U	10	ug/L	OK	20
MW-20	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-20	Sulfate	1000	mg/L		1	mg/l	OK	1000
MW-20	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-20	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-20	Tin	100	ug/L	U	100	ug/L	OK	20
MW-20	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-20	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-20	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-20	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-20	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-20	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-22	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-22	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-22	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-22	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-22	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-22	Beryllium	0.5	ug/L		0.5	ug/L	OK	5
MW-22	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-22	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-22	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-22	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-22	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-22	Chloride	1	mg/L		1	mg/l	OK	10
MW-22	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-22	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-22	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-22	Cobalt	10	ug/L		10	ug/L	OK	20
MW-22	Copper	10	ug/L		10	ug/L	OK	20
MW-22	Fluoride	1	mg/L		0.1	mg/l	OK	10
MW-22	Gross Radium Alpha	0.565	pCi/L		1	pCi/L	OK	1
MW-22	Iron	30	ug/L		30	ug/L	OK	5
MW-22	Lead	1	ug/L		1	ug/L	OK	5
MW-22	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-22	Manganese	500	ug/L		10	ug/L	OK	1000

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-22	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-22	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-22	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-22	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-22	Nickel	20	ug/L		20	ug/L	OK	20
MW-22	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-22	Potassium	5	mg/L		0.5	mg/l	OK	5
MW-22	Selenium	5	ug/L		5	ug/L	OK	20
MW-22	Silver	10	ug/L	U	10	ug/L	OK	20
MW-22	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-22	Sulfate	1000	mg/L		1	mg/l	OK	1000
MW-22	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-22	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-22	Tin	100	ug/L	U	100	ug/L	OK	20
MW-22	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-22	Total Dissolved Solids	100	MG/L		10	mg/l	OK	10
MW-22	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-22	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-22	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-22	Zinc	10	ug/L		10	ug/L	OK	1
MW-23	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-23	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-23	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-23	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-23	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-23	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-23	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-23	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-23	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-23	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-23	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-23	Chloride	1	mg/L		1	mg/l	OK	10
MW-23	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-23	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-23	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-23	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-23	Copper	10	ug/L		10	ug/L	OK	20
MW-23	Fluoride	1	mg/L	U	0.1	mg/l	OK	10
MW-23	Gross Radium Alpha	0.317	pCi/L		1	pCi/L	OK	1
MW-23	Iron	30	ug/L	U	30	ug/L	OK	5
MW-23	Lead	1	ug/L	U	1	ug/L	OK	5
MW-23	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-23	Manganese	10	ug/L		10	ug/L	OK	20
MW-23	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-23	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-23	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-23	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-23	Nickel	20	ug/L		20	ug/L	OK	20
MW-23	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-23	Potassium	5	mg/L		0.5	mg/l	OK	5
MW-23	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-23	Silver	10	ug/L	U	10	ug/L	OK	20
MW-23	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-23	Sulfate	1000	mg/L		1	mg/l	OK	1000

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-23	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-23	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-23	Tin	100	ug/L	U	100	ug/L	OK	20
MW-23	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-23	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-23	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-23	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-23	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-23	Zinc	10	ug/L		10	ug/L	OK	1
MW-24	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-24	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-24	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-24	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-24	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-24	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-24	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-24	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-24	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-24	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-24	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-24	Chloride	10	mg/L		1	mg/l	OK	10
MW-24	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-24	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-24	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-24	Cobalt	10	ug/L		10	ug/L	OK	20
MW-24	Copper	10	ug/L	U	10	ug/L	OK	20
MW-24	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-24	Gross Radium Alpha	0.917	pCi/L	U	1	pCi/L	OK	1
MW-24	Iron	30	ug/L		30	ug/L	OK	5
MW-24	Lead	1	ug/L	U	1	ug/L	OK	5
MW-24	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-24	Manganese	25	ug/L		10	ug/L	OK	50
MW-24	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-24	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-24	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-24	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-24	Nickel	20	ug/L		20	ug/L	OK	20
MW-24	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-24	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-24	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-24	Silver	10	ug/L	U	10	ug/L	OK	20
MW-24	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-24	Sulfate	500	mg/L		1	mg/l	OK	500
MW-24	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-24	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-24	Tin	100	ug/L	U	100	ug/L	OK	20
MW-24	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-24	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-24	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-24	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-24	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-24	Zinc	10	ug/L		10	ug/L	OK	1
MW-25	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-25	Acetone	20	ug/L	U	20	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-25	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-25	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-25	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-25	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-25	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-25	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-25	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-25	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-25	Chloride	5	mg/L		1	mg/l	OK	5
MW-25	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-25	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-25	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-25	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-25	Copper	10	ug/L	U	10	ug/L	OK	20
MW-25	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-25	Gross Radium Alpha	0.81	pCi/L	U	1	pCi/L	OK	1
MW-25	Iron	30	ug/L	U	30	ug/L	OK	5
MW-25	Lead	1	ug/L	U	1	ug/L	OK	5
MW-25	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-25	Manganese	10	ug/L		10	ug/L	OK	20
MW-25	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-25	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-25	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-25	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-25	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-25	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-25	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-25	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-25	Silver	10	ug/L	U	10	ug/L	OK	20
MW-25	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-25	Sulfate	500	mg/L		1	mg/l	OK	500
MW-25	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-25	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-25	Tin	100	ug/L	U	100	ug/L	OK	20
MW-25	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-25	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-25	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-25	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-25	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-25	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-26	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-26	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-26	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-26	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-26	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-26	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-26	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-26	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-26	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-26	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-26	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-26	Chloride	10	mg/L		1	mg/l	OK	10
MW-26	Chloroform	20	ug/L		1	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-26	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-26	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-26	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-26	Copper	10	ug/L	U	10	ug/L	OK	20
MW-26	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-26	Gross Radium Alpha	0.807	pCi/L		1	pCi/L	OK	1
MW-26	Iron	30	ug/L		30	ug/L	OK	5
MW-26	Lead	1	ug/L	U	1	ug/L	OK	5
MW-26	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-26	Manganese	10	ug/L		10	ug/L	OK	20
MW-26	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK	1
MW-26	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-26	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-26	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-26	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-26	Selenium	5	ug/L		5	ug/L	OK	20
MW-26	Silver	10	ug/L	U	10	ug/L	OK	20
MW-26	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-26	Sulfate	500	mg/L		1	mg/l	OK	500
MW-26	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-26	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-26	Tin	100	ug/L	U	100	ug/L	OK	20
MW-26	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-26	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-26	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-26	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-26	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-26	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-27	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-27	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-27	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-27	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-27	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-27	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-27	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-27	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-27	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-27	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-27	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-27	Chloride	10	mg/L		1	mg/l	OK	10
MW-27	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-27	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-27	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-27	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-27	Copper	10	ug/L	U	10	ug/L	OK	20
MW-27	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-27	Gross Radium Alpha	0.614	pCi/L		1	pCi/L	OK	1
MW-27	Iron	30	ug/L	U	30	ug/L	OK	5
MW-27	Lead	1	ug/L	U	1	ug/L	OK	5
MW-27	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-27	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-27	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-27	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-27	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-27	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-27	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-27	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-27	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-27	Selenium	5	ug/L		5	ug/L	OK	20
MW-27	Silver	10	ug/L	U	10	ug/L	OK	20
MW-27	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-27	Sulfate	50	mg/L		1	mg/l	OK	50
MW-27	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-27	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-27	Tin	100	ug/L	U	100	ug/L	OK	20
MW-27	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-27	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-27	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-27	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-27	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-27	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-28	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-28	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-28	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-28	Arsenic	5	ug/L		5	ug/L	OK	20
MW-28	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-28	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-28	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-28	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-28	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-28	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-28	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-28	Chloride	1	mg/L		1	mg/l	OK	10
MW-28	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-28	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-28	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-28	Cobalt	10	ug/L		10	ug/L	OK	20
MW-28	Copper	10	ug/L		10	ug/L	OK	20
MW-28	Fluoride	1	mg/L	U	0.1	mg/l	OK	10
MW-28	Gross Radium Alpha	0.312	pCi/L		1	pCi/L	OK	1
MW-28	Iron	30	ug/L	U	30	ug/L	OK	5
MW-28	Lead	1	ug/L	U	1	ug/L	OK	5
MW-28	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-28	Manganese	10	ug/L		10	ug/L	OK	20
MW-28	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-28	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-28	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-28	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-28	Nickel	20	ug/L		20	ug/L	OK	20
MW-28	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-28	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-28	Selenium	5	ug/L		5	ug/L	OK	20
MW-28	Silver	10	ug/L	U	10	ug/L	OK	20
MW-28	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-28	Sulfate	100	mg/L		1	mg/l	OK	100
MW-28	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-28	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-28	Tin	100	ug/L	U	100	ug/L	OK	20
MW-28	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-28	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-28	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-28	Vanadium	15	ug/L		15	ug/L	OK	1
MW-28	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-28	Zinc	10	ug/L		10	ug/L	OK	1
MW-29	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-29	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-29	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-29	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-29	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-29	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-29	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-29	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-29	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-29	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-29	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-29	Chloride	5	mg/L		1	mg/l	OK	5
MW-29	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-29	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-29	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-29	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-29	Copper	10	ug/L	U	10	ug/L	OK	20
MW-29	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-29	Gross Radium Alpha	0.943	pCi/L	U	1	pCi/L	OK	1
MW-29	Iron	120	ug/L		30	ug/L	OK	20
MW-29	Lead	1	ug/L	U	1	ug/L	OK	5
MW-29	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-29	Manganese	50	ug/L		10	ug/L	OK	100
MW-29	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-29	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-29	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-29	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-29	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-29	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-29	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-29	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-29	Silver	10	ug/L	U	10	ug/L	OK	20
MW-29	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-29	Sulfate	500	mg/L		1	mg/l	OK	500
MW-29	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-29	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-29	Tin	100	ug/L	U	100	ug/L	OK	20
MW-29	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-29	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-29	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-29	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-29	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-29	Zinc	10	ug/L		10	ug/L	OK	1
MW-30	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-30	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-30	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-30	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-30	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-30	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-30	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-30	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-30	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-30	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-30	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-30	Chloride	50	mg/L		1	mg/l	OK	50
MW-30	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-30	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-30	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-30	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-30	Copper	10	ug/L	U	10	ug/L	OK	20
MW-30	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-30	Gross Radium Alpha	0.762	pCi/L	U	1	pCi/L	OK	1
MW-30	Iron	30	ug/L	U	30	ug/L	OK	5
MW-30	Lead	1	ug/L	U	1	ug/L	OK	5
MW-30	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-30	Manganese	10	ug/L		10	ug/L	OK	20
MW-30	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-30	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-30	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-30	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-30	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-30	Nitrate/Nitrite (as N)	2	mg/L		0.1	ug/L	OK	20
MW-30	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-30	Selenium	5	ug/L		5	ug/L	OK	20
MW-30	Silver	10	ug/L	U	10	ug/L	OK	20
MW-30	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-30	Sulfate	50	mg/L		1	mg/l	OK	50
MW-30	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-30	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-30	Tin	100	ug/L	U	100	ug/L	OK	20
MW-30	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-30	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-30	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-30	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-30	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-30	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-31	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-31	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-31	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-31	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-31	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-31	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-31	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-31	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-31	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-31	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-31	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-31	Chloride	50	mg/L		1	mg/l	OK	50
MW-31	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-31	Chloromethane	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-31	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-31	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-31	Copper	10	ug/L	U	10	ug/L	OK	20
MW-31	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-31	Gross Radium Alpha	0.844	pCi/L	U	1	pCi/L	OK	1
MW-31	Iron	30	ug/L	U	30	ug/L	OK	5
MW-31	Lead	1	ug/L	U	1	ug/L	OK	5
MW-31	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-31	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-31	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-31	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-31	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-31	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-31	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-31	Nitrate/Nitrite (as N)	2	mg/L		0.1	ug/L	OK	20
MW-31	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-31	Selenium	5	ug/L		5	ug/L	OK	20
MW-31	Silver	10	ug/L	U	10	ug/L	OK	20
MW-31	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-31	Sulfate	50	mg/L		1	mg/l	OK	50
MW-31	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-31	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-31	Tin	100	ug/L	U	100	ug/L	OK	20
MW-31	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-31	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-31	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-31	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-31	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-31	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-32	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-32	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-32	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-32	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-32	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-32	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-32	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-32	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-32	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-32	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-32	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-32	Chloride	10	mg/L		1	mg/l	OK	10
MW-32	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-32	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-32	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-32	Cobalt	10	ug/L		10	ug/L	OK	20
MW-32	Copper	10	ug/L		10	ug/L	OK	20
MW-32	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-32	Gross Radium Alpha	0.662	pCi/L		1	pCi/L	OK	1
MW-32	Iron	600	ug/L		30	ug/L	OK	100
MW-32	Lead	1	ug/L	U	1	ug/L	OK	5
MW-32	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-32	Manganese	50	ug/L		10	ug/L	OK	100
MW-32	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-32	Methylene chloride	1	ug/L	U	1	ug/L	OK	1

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-32	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-32	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-32	Nickel	20	ug/L		20	ug/L	OK	20
MW-32	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-32	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-32	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-32	Silver	10	ug/L	U	10	ug/L	OK	20
MW-32	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-32	Sulfate	500	mg/L		1	mg/l	OK	500
MW-32	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-32	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-32	Tin	100	ug/L	U	100	ug/L	OK	20
MW-32	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-32	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-32	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-32	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-32	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-32	Zinc	10	ug/L		10	ug/L	OK	1
MW-35	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-35	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-35	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-35	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-35	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-35	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-35	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-35	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-35	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-35	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-35	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-35	Chloride	10	mg/L		1	mg/l	OK	10
MW-35	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-35	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-35	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-35	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-35	Copper	10	ug/L	U	10	ug/L	OK	20
MW-35	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-35	Gross Radium Alpha	0.333	pCi/L		1	pCi/L	OK	1
MW-35	Iron	30	ug/L		30	ug/L	OK	5
MW-35	Lead	1	ug/L	U	1	ug/L	OK	5
MW-35	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-35	Manganese	10	ug/L		10	ug/L	OK	20
MW-35	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-35	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-35	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-35	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-35	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-35	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-35	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-35	Selenium	5	ug/L		5	ug/L	OK	20
MW-35	Silver	10	ug/L	U	10	ug/L	OK	20
MW-35	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-35	Sulfate	500	mg/L		1	mg/l	OK	500
MW-35	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-35	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-35	Tin	100	ug/L	U	100	ug/L	OK	20
MW-35	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-35	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-35	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-35	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-35	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-35	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-36	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-36	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-36	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-36	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-36	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-36	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-36	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-36	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-36	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-36	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-36	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-36	Chloride	10	mg/L		1	mg/l	OK	10
MW-36	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-36	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-36	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-36	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-36	Copper	10	ug/L	U	10	ug/L	OK	20
MW-36	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-36	Gross Radium Alpha	1.03	pCi/L		1	pCi/L	OK	1
MW-36	Iron	30	ug/L	U	30	ug/L	OK	5
MW-36	Lead	1	ug/L	U	1	ug/L	OK	5
MW-36	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-36	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-36	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-36	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-36	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-36	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-36	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-36	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-36	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-36	Selenium	5	ug/L		5	ug/L	OK	20
MW-36	Silver	10	ug/L	U	10	ug/L	OK	20
MW-36	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-36	Sulfate	500	mg/L		1	mg/l	OK	500
MW-36	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-36	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-36	Tin	100	ug/L	U	100	ug/L	OK	20
MW-36	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-36	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-36	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-36	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-36	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-36	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-37	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-37	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-37	Ammonia (as N)	0.05	mg/L	U	0.05	ug/L	OK	1
MW-37	Arsenic	5	ug/L	U	5	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-37	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-37	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-37	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-37	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-37	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-37	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-37	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-37	Chloride	1	mg/L		1	mg/l	OK	10
MW-37	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-37	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-37	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-37	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-37	Copper	10	ug/L	U	10	ug/L	OK	20
MW-37	Fluoride	1	mg/L	U	0.1	mg/l	OK	10
MW-37	Gross Radium Alpha	0.382	pCi/L	U	1	pCi/L	OK	1
MW-37	Iron	30	ug/L	U	30	ug/L	OK	5
MW-37	Lead	1	ug/L	U	1	ug/L	OK	5
MW-37	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-37	Manganese	10	ug/L		10	ug/L	OK	20
MW-37	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-37	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-37	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-37	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-37	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-37	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-37	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-37	Selenium	5	ug/L		5	ug/L	OK	20
MW-37	Silver	10	ug/L	U	10	ug/L	OK	20
MW-37	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-37	Sulfate	100	mg/L		1	mg/l	OK	100
MW-37	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-37	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-37	Tin	100	ug/L	U	100	ug/L	OK	20
MW-37	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-37	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-37	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-37	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-37	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-37	Zinc	10	ug/L		10	ug/L	OK	1
MW-65	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-65	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-65	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-65	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-65	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-65	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-65	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-65	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-65	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-65	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-65	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-65	Chloride	10	mg/L		1	mg/l	OK	10
MW-65	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-65	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-65	Chromium	25	ug/L	U	25	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-65	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-65	Copper	10	ug/L	U	10	ug/L	OK	20
MW-65	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-65	Gross Radium Alpha	0.336	pCi/L		1	pCi/L	OK	1
MW-65	Iron	30	ug/L		30	ug/L	OK	5
MW-65	Lead	1	ug/L	U	1	ug/L	OK	5
MW-65	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-65	Manganese	10	ug/L		10	ug/L	OK	20
MW-65	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-65	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-65	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-65	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-65	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-65	Nitrate/Nitrite (as N)	0.1	mg/L	U	0.1	ug/L	OK	1
MW-65	Potassium	1	mg/L		0.5	mg/l	OK	1
MW-65	Selenium	5	ug/L		5	ug/L	OK	20
MW-65	Silver	10	ug/L	U	10	ug/L	OK	20
MW-65	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-65	Sulfate	500	mg/L		1	mg/l	OK	500
MW-65	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-65	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-65	Tin	100	ug/L	U	100	ug/L	OK	20
MW-65	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-65	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-65	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-65	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-65	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-65	Zinc	10	ug/L	U	10	ug/L	OK	1
MW-70	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-70	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-70	Ammonia (as N)	0.05	mg/L		0.05	ug/L	OK	1
MW-70	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-70	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-70	Beryllium	0.5	ug/L		0.5	ug/L	OK	5
MW-70	Bicarbonate (as CaCO3)	1	mg/L		1	mg/l	OK	1
MW-70	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-70	Calcium	50	mg/L		0.5	mg/l	OK	50
MW-70	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-70	Carbonate (as CaCO3)	1	mg/L	U	1	mg/l	OK	1
MW-70	Chloride	1	mg/L		1	mg/l	OK	10
MW-70	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-70	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-70	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-70	Cobalt	10	ug/L		10	ug/L	OK	20
MW-70	Copper	10	ug/L		10	ug/L	OK	20
MW-70	Fluoride	1	mg/L		0.1	mg/l	OK	10
MW-70	Gross Radium Alpha	0.411	pCi/L		1	pCi/L	OK	1
MW-70	Iron	30	ug/L		30	ug/L	OK	5
MW-70	Lead	1	ug/L		1	ug/L	OK	5
MW-70	Magnesium	50	mg/L		0.5	mg/l	OK	50
MW-70	Manganese	500	ug/L		10	ug/L	OK	1000
MW-70	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-70	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-70	Molybdenum	10	ug/L		10	ug/L	OK	20

## G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-70	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-70	Nickel	20	ug/L		20	ug/L	OK	20
MW-70	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-70	Potassium	5	mg/L		0.5	mg/l	OK	5
MW-70	Selenium	5	ug/L		5	ug/L	OK	20
MW-70	Silver	10	ug/L	U	10	ug/L	OK	20
MW-70	Sodium	50	mg/L		0.5	mg/l	OK	50
MW-70	Sulfate	1000	mg/L		1	mg/l	OK	1000
MW-70	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-70	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-70	Tin	100	ug/L	U	100	ug/L	OK	20
MW-70	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-70	Total Dissolved Solids	100	MG/L		10	mg/l	OK	10
MW-70	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-70	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-70	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-70	Zinc	10	ug/L		10	ug/L	OK	1

U = Analyte not detected.

## G-5B Reporting Limit Check - Accelerated Samples

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Manganese	2	ug/L		10	ug/L	OK	20
MW-11	Manganese	2	ug/L		10	ug/L	OK	20
MW-14	Manganese	2	ug/L		10	ug/L	OK	20
MW-14	Manganese	5	ug/L		10	ug/L	OK	50
MW-25	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Chloride	5	mg/L		1	mg/l	OK	1
MW-25	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-25	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-25	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Chloride	10	mg/L		1	mg/l	OK	10
MW-25	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-25	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-26	Chloride	5	mg/L		1	mg/l	OK	1
MW-26	Chloroform	10	ug/L		1	ug/L	OK	10
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK	1
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		0.1	ug/L	OK	1
MW-26	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-26	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-26	Chloride	10	mg/L		1	mg/l	OK	10
MW-26	Chloroform	20	ug/L		1	ug/L	OK	20
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK	1
MW-26	Nitrate/Nitrite (as N)	0.5	mg/L		0.1	ug/L	OK	5
MW-26	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-30	Chloride	25	mg/L		1	mg/l	OK	5
MW-30	Nitrate/Nitrite (as N)	5	mg/L		0.1	ug/L	OK	50
MW-30	Selenium	2	ug/L		5	ug/L	OK	20
MW-30	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-30	Chloride	50	mg/L		1	mg/l	OK	50
MW-30	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-30	Selenium	2	ug/L		5	ug/L	OK	20
MW-30	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-31	Chloride	50	mg/L		1	mg/l	OK	10
MW-31	Nitrate/Nitrite (as N)	5	mg/L		0.1	ug/L	OK	50
MW-31	Selenium	2	ug/L		5	ug/L	OK	20
MW-31	Sulfate	125	mg/L		1	mg/l	OK	25
MW-31	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-31	Chloride	50	mg/L		1	mg/l	OK	50
MW-31	Nitrate/Nitrite (as N)	2	mg/L		0.1	ug/L	OK	20
MW-31	Selenium	2	ug/L		5	ug/L	OK	20
MW-31	Sulfate	50	mg/L		1	mg/l	OK	50
MW-31	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-35	Gross Radium Alpha	1.25	pCi/L		1	pCi/L	OK	1
MW-35	Manganese	5	ug/L		10	ug/L	OK	50
MW-35	Selenium	2	ug/L		5	ug/L	OK	20
MW-35	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-35	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-35	Gross Radium Alpha	0.757	pCi/L		1	pCi/L	OK	1
MW-35	Manganese	2	ug/L		10	ug/L	OK	20
MW-35	Selenium	2	ug/L		5	ug/L	OK	20

G-5B Reporting Limit Check - Accelerated Samples

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-35	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-35	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-65	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-65	Chloride	5	mg/L		1	mg/l	OK	1
MW-65	Fluoride	0.1	mg/L		0.1	mg/l	OK	1
MW-65	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-65	Gross Radium Alpha	0.837	pCi/L		1	pCi/L	OK	1
MW-65	Manganese	2	ug/L		10	ug/L	OK	20
MW-65	Selenium	2	ug/L		5	ug/L	OK	20
MW-65	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-65	Uranium	0.2	ug/L		0.3	ug/L	OK	2

U = Value was reported as nondetected.

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 1405563	5/27/2014	American West Analytical Laboratories
AWAL 1405608	5/27/2014	American West Analytical Laboratories
AWAL 1406025	5/30/2014	American West Analytical Laboratories
AWAL 1406109	6/2/2014	American West Analytical Laboratories
AWAL 1406278	6/11/2014	American West Analytical Laboratories
AWAL 1406404	6/18/2014	American West Analytical Laboratories

G-6B: Trip Blank Evaluation

All trip blanks for the Accelerated samples were non detect.

Blank	Sample Date	Laboratory
AWAL 1405043	4/30/2014	American West Analytical Laboratories
AWAL 1405337	5/14/2014	American West Analytical Laboratories

G-7A: QA/QC Evaluation for Routine Sample Duplicates

Constituent	MW-35 6/4/2014	MW-65 6/4/2014	%RPD
Ammonia (as N)	0.0778	0.0831	6.59
Bicarbonate as HCO <sub>3</sub>	340	360	5.71
Calcium (mg/L)	518	533	2.85
Chloride (mg/L)	62.6	59.4	5.25
Fluoride (mg/L)	0.350	0.347	0.86
Iron (mg/L)	0.0813	0.0874	7.23
Magnesium (mg/L)	173	173	0.00
Manganese	0.202	0.205	1.47
Potassium (mg/L)	11.6	11.9	2.55
Selenium (mg/L)	0.0139	0.0142	2.14
Sodium (mg/L)	386	396	2.56
Sulfate (mg/L)	2040	1960	4.00
TDS (mg/L)	3720	3880	4.21
Uranium (mg/L)	0.0219	0.0224	2.26
Radiologic Duplicate Tests			
Gross Alpha minus Rn & U*	3.36	4.17	1.620
Gross Alpha minus Rn & U Precision (±)	0.334	0.372	

\* 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-22 6/11/2014	MW-70 6/11/2014	%RPD
Ammonia (as N)	0.534	0.652	19.90
Beryllium	0.0152	0.0158	3.87
Bicarbonate as HCO <sub>3</sub>	12.5	14.3	13.43
Cadmium (mg/L)	0.169	0.17	0.59
Calcium	400	416	3.92
Chloride (mg/L)	54.9	54.8	0.18
Cobalt	0.513	0.525	2.31
Copper	0.12	0.121	0.83
Fluoride (mg/L)	14.5	14.4	0.69
Iron (mg/L)	0.0694	0.0783	12.05
Lead (mg/L)	0.00629	0.00654	3.90
Magnesium (mg/L)	1120	1180	5.22
Manganese (mg/L)	46.5	50.4	8.05
Molybdenum	0.183	0.187	2.16
Nickel	0.316	0.321	1.57
Nitrate + Nitrite (as N)	2.97	2.96	0.34
Potassium	20.9	21.5	2.83
Selenium	0.0169	0.018	6.30
Sodium	267	274	2.59
Sulfate (mg/L)	6950	6830	1.74
TDS (mg/L)	8560	8480	0.94
Thallium	0.00144	0.00146	1.38
Uranium	0.0319	0.0319	0.00
Zinc	1.47	1.53	4.00
Radiologic Duplicate Tests			
Gross Alpha minus Rn & U MDC	3.57	3.39	0.32
Gross Alpha minus Rn & U*	0.414	0.374	

\* 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.

G-7B: QA/QC Evaluation for Accelerated Sample Duplicates

Constituent	MW-25 04/28/2014	MW-65 04/28/2014	%RPD*
Cadmium	0.00151	0.0018	17.52
Chloride (mg/L)	31.0	31.2	0.64
Fluoride	0.409	0.446	8.65
Uranium	0.0106	0.00791	29.07
Constituent	MW-35 5/14/2014	MW-65 5/14/2014	%RPD
Manganese (mg/L)	0.249	0.226	9.68
Selenium	0.017	0.0155	9.23
Thallium	0.000521	0.000672	25.31
Uranium (mg/L)	0.0269	0.0278	3.29
Radiologic RPD Tests			
Gross Alpha minus Rn & U	3.67	5.38	1.85
Gross Alpha minus Rn & U Precision (±)	0.601	0.700	

\* 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.

G-8A: Radiologies 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	5/28/2014	1.08	0.323	N	3.75	Y
MW-02	5/28/2014	2.19	0.417	Y	3.2	Y
MW-03	5/30/2014	1.00 U	0.240	NC	1	NC
MW-03A	5/30/2014	1.00 U	0.242	NC	7.5	NC
MW-05	6/4/2014	1.00 U	0.193	NC	3.75	NC
MW-11	6/3/2014	1.00 U	0.253	NC	3.75	NC
MW-12	6/4/2014	1.00 U	0.232	NC	7.5	NC
MW-14	6/3/2014	1.00 U	0.260	NC	7.5	NC
MW-15	6/4/2014	1.00 U	0.226	NC	7.5	NC
MW-17	5/30/2014	1.00 U	0.271	NC	2.8	NC
MW-18	5/27/2014	1.93	0.403	N	7.5	Y
MW-19	5/27/2014	2.24	0.424	Y	2.36	N/A
MW-20	6/18/2014	1.00 U	0.154	NC	-	-
MW-22	6/11/2014	3.57	0.414	Y	-	-
MW-23	6/11/2014	1.22	0.223	Y	2.86	Y
MW-24	5/30/2014	1.00 U	0.280	NC	7.5	NC
MW-25	6/2/2014	1.00 U	0.289	NC	7.5	NC
MW-26	6/5/2014	2.47	0.462	Y	4.69	Y
MW-27	5/28/2014	2.33	0.407	Y	2	N/A
MW-28	6/18/2014	1.11	0.218	Y	2.42	Y
MW-29	6/3/2014	1.00 U	0.341	NC	2	NC
MW-30	6/3/2014	1.00 U	0.254	NC	3.75	NC
MW-31	6/2/2014	1.00 U	0.290	NC	7.5	NC
MW-32	5/23/2014	4.35	0.543	Y	3.33	N/A
MW-35	6/4/2014	3.36	0.334	Y	3.75	Y
MW-36	5/29/2014	4.48	0.596	Y	-	-
MW-37	6/18/2014	1.00 U	0.185	NC	-	-
MW-65	6/4/2014	4.17	0.372	Y	3.75	N/A
MW-70	6/4/2014	3.39	0.374	Y	-	-

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**

<b>Well</b>	<b>Sample Date</b>	<b>Gross Alpha minus Rn &amp; U</b>	<b>Gross Alpha minus Rn and U Precision (+/-)</b>	<b>Counting Error ≤ 20%</b>	<b>GWCL</b>	<b>Within GWCL?</b>
MW-35	4/25/2014	2.95	0.588	Y	3.75	NC
MW-35	5/14/2014	3.67	0.601	Y	3.75	N/A
MW-65	5/14/2014	5.38	0.700	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
1405563	MW-32	Calcium*	NC	NC	70-130	NC	20
1405563	MW-32	Sodium *	NC	NC	70-130	NC	20
1405563	MW-32	Manganese*	NC	NC	75-125	NC	20
1405563	MW-32	Ammonia (as N)	78.7	93.8	90-110	11	10
1405563	N/A	Nitrate/Nitrite (as N)	79.4	84.2	90-110	5.81	10
1405563	MW-32	Nitrate/Nitrite (as N)	81.7	83.9	90-110	2.63	10
1406109	MW-05	Calcium*	NC	NC	70-130	NC	20
1406109	MW-05	Sodium *	NC	NC	70-130	NC	20
1406109	MW-65 (Dup of MW-35)	Calcium*	NC	NC	70-130	NC	20
1406109	MW-65 (Dup of MW-35)	Magnesium *	NC	NC	70-130	NC	20
1406109	MW-65 (Dup of MW-35)	Sodium *	NC	NC	70-130	NC	20
1406109	MW-05	Magnesium	135	103	70-130	6.19	20
1406109	MW-12	Chloride	83.4	104	90-110	22.2	10
1406109	MW-12	Fluoride	82.8	106	90-110	24.5	10
1406109	MW-12	Sulfate	82.3	108	90-110	24.8	10
1406278	MW-22	Calcium*	NC	NC	70-130	NC	20
1406278	MW-22	Magnesium *	NC	NC	70-130	NC	20
1406278	MW-22	Sodium *	NC	NC	70-130	NC	20
1406278	MW-22	Manganese*	NC	NC	75-125	NC	20
1406278	MW-22	Ammonia (as N)	81.8	73.1	90-110	6.61	10
1406278	MW-23	Nitrate/Nitrite (as N)	87.2	87.8	90-110	0.551	10
1406404	N/A	Magnesium	66.5	43.9	70-130	5.6	20
1406404	N/A	Calcium*	NC	NC	70-130	NC	20
1406404	N/A	Sodium *	NC	NC	70-130	NC	20
1406404	MW-20	Calcium*	NC	NC	70-130	NC	20
1406404	MW-20	Sodium *	NC	NC	70-130	NC	20
1406404	MW-20	Arsenic	113	135	75-125	17.6	20
1406404	MW-20	Beryllium	106	134	75-125	23.3	20
1406404	MW-20	Cadmium	98.9	125	75-125	22.9	20
1406404	MW-20	Lead	96.6	122	75-125	23.2	20
1406404	MW-20	Molybdenum	107	140	75-125	24.5	20
1406404	MW-20	Selenium	123	144	75-125	15.8	20
1406404	MW-20	Silver	93.4	117	75-125	22.5	20
1406404	MW-20	Thallium	91.2	113	75-125	21.7	20
1406404	MW-20	Uranium	100	126	75-125	22.6	20
1406404	N/A	Ammonia (as N)	87.7	92.2	90-110	5.02	10
1405608	MW-01	Calcium*	NC	NC	70-130	NC	20
1405608	MW-01	Sodium *	NC	NC	70-130	NC	20
1405608	MW-01	Sulfate	96.5	121	90-110	20.4	20
1406025	MW-03A	Calcium*	NC	NC	70-130	NC	20
1406025	MW-03A	Sodium *	NC	NC	70-130	NC	20
1406025	MW-03A	Magnesium*	NC	NC	70-130	NC	20
1406025	MW-03A	Molybdenum	111	126	75 - 125	12.3	20

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

G-9A: Laboratory Matrix QC

Laboratory Duplicate % Recovery Comparison

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
1406404	N/A	Total Dissolved Solids	728	688	5.65	5
1406404	MW-20	Total Dissolved Solids	4610	4980	7.59	5

Method Blank Detections

Lab Report	Well/Sample	Analyte	Reported Concentration	QAP Required RL
1405563	N/A	Tetrahydrofuran	4.99 ug/l	1.0 ug/l
1405608	N/A	Sodium	3.70 mg/l	0.5 mg/l

G-9B: Accelerated Laboratory Matrix QC

**Matrix Spike % Recovery Comparison**

Lab Report	Well	Analyte	MS % REC	MSD % REC	REC Range	RPD %	RPD Range %
1405043 - April Accelerated	N/A	Chloride	95	112	90-110	5.85	10
1405043 - April Accelerated	MW-31	Nitrate	128	118.0	90-110	6.40	10
1405535 - April Accelerated	MW-30	Nitrate	127	125.0	90-110	0.88	10
1405535 - April Accelerated	N/A	Nitrate	111	111.0	90-110	0.54	10
1405535 - April Accelerated	MW-30	Chloride	102	83.5	90-110	4.69	10
1405337 - May Accelerated	MW-31	Choride	88.1	107	90-110	17.6	10
1405337 - May Accelerated	MW-31	Fluoride	87.6	105	90-110	17.9	10
1405337 - May Accelerated	MW-31	Sulfate	89.2	111	90-110	17.2	10

\* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

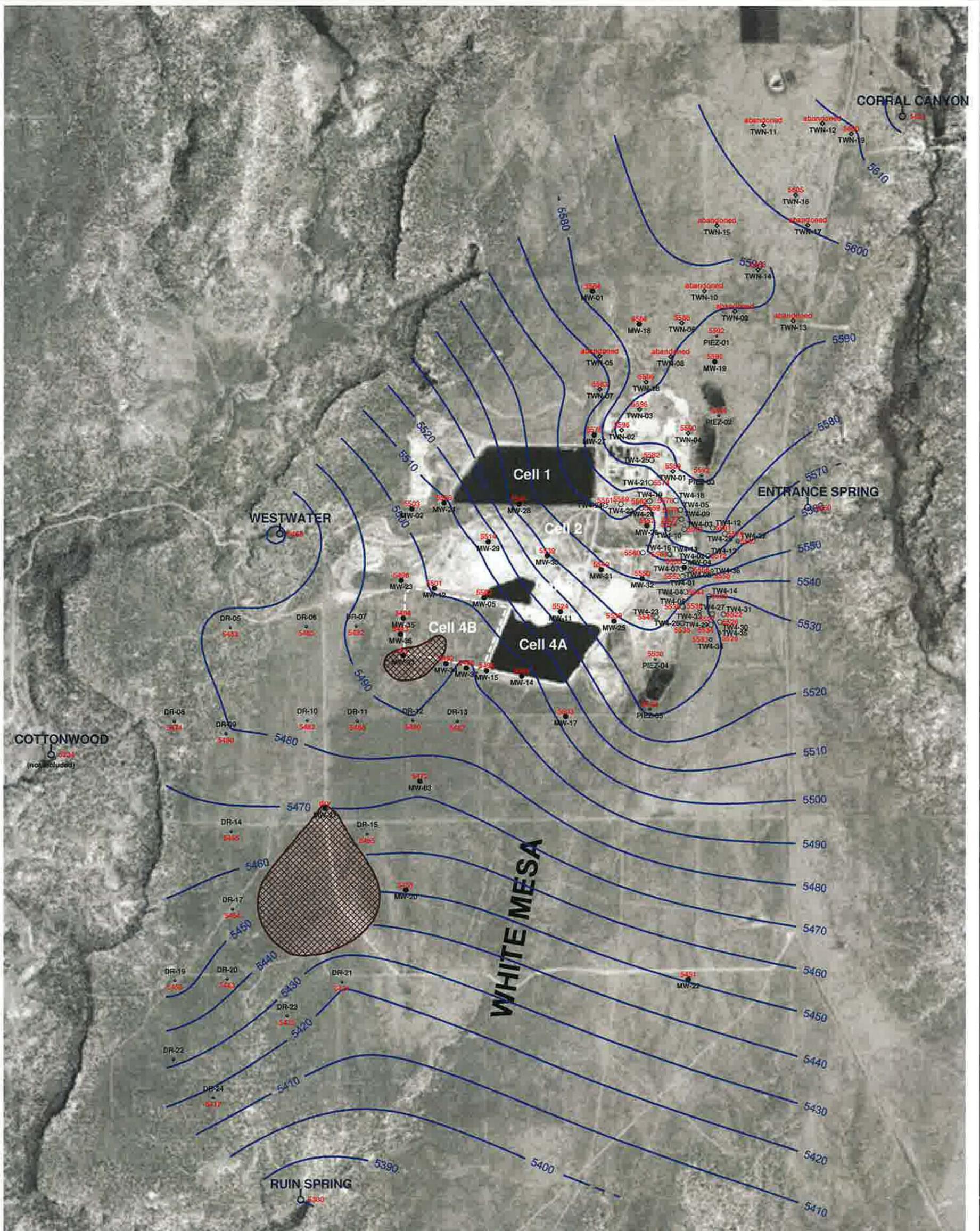
N/A = QC was not performed on an EFRI sample.

**Laboratory Duplicate % Recovery Comparison**

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
348002 - April Accelerated	MW-35	Gross Radium Alpha	2.95	4.41	39.7	0-20
348856 - May Accelerated	MW-35	Gross Radium Alpha	2.95	4.41	39.7	0-20

Tab H

Kriged Current Quarterly Groundwater Contour Map



**EXPLANATION**

-  estimated dry area
- TW4-35**  
 5526 temporary perched monitoring well installed May, 2014 showing elevation in feet amsl
- MW-5**  
 5502 perched monitoring well showing elevation in feet amsl
- TW4-12**  
 5581 temporary perched monitoring well showing elevation in feet amsl
- TWN-7**  
 5563 temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**  
 5592 perched piezometer showing elevation in feet amsl
- TW4-32**  
 5562 temporary perched monitoring well installed September, 2013 showing elevation in feet amsl
- RUIN SPRING**  
 5380 seep or spring showing elevation in feet amsl

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are chloroform pumping wells; TW4-22, TW4-24, TW4-25, and TWN-2 are nitrate pumping wells



**HYDRO  
GEO  
CHEM, INC.**

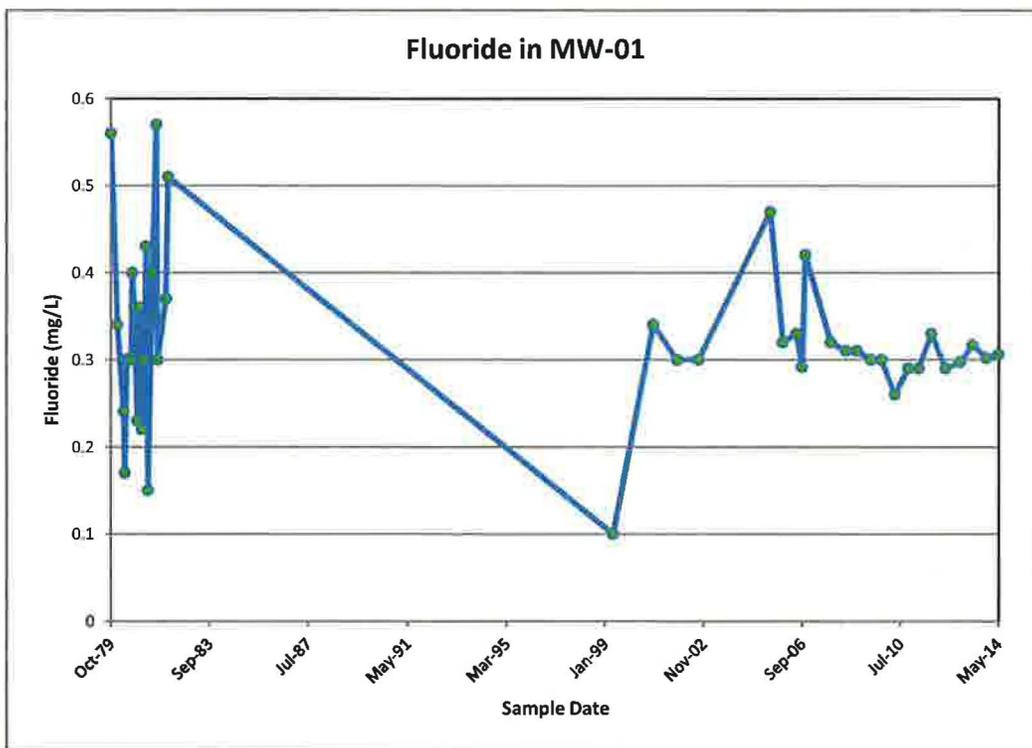
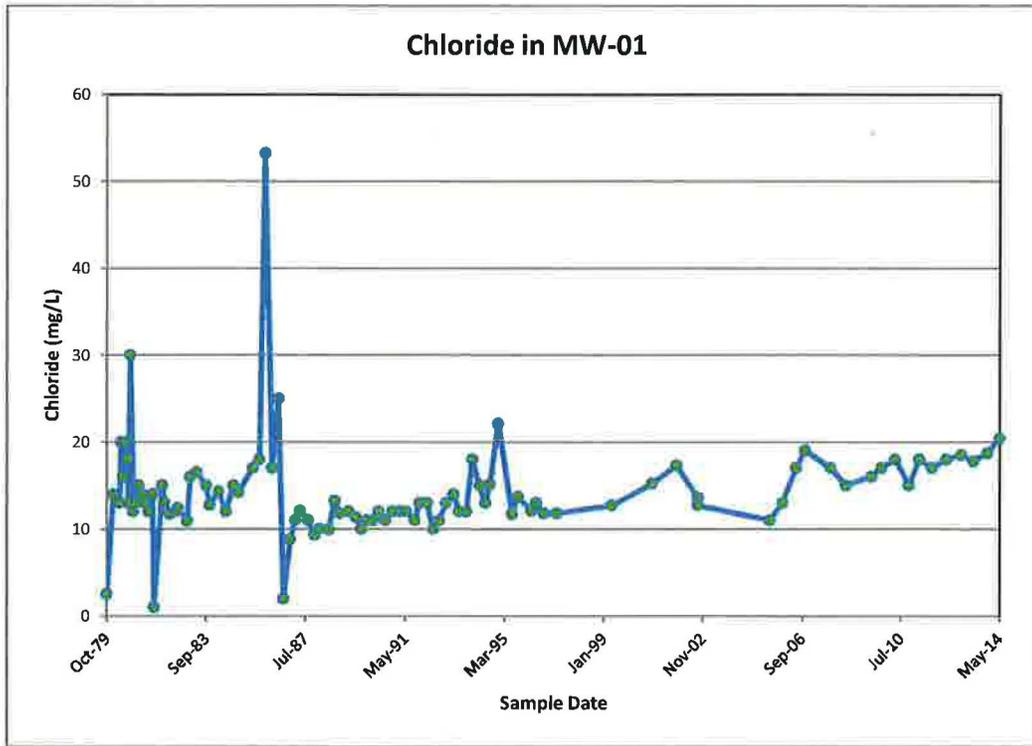
**KRIGED 2nd QUARTER, 2014 WATER LEVELS  
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/aug14/Uwl0614.srf	H - 1

Tab I

Groundwater Time Concentration Plots

### Time concentration plots for MW-01

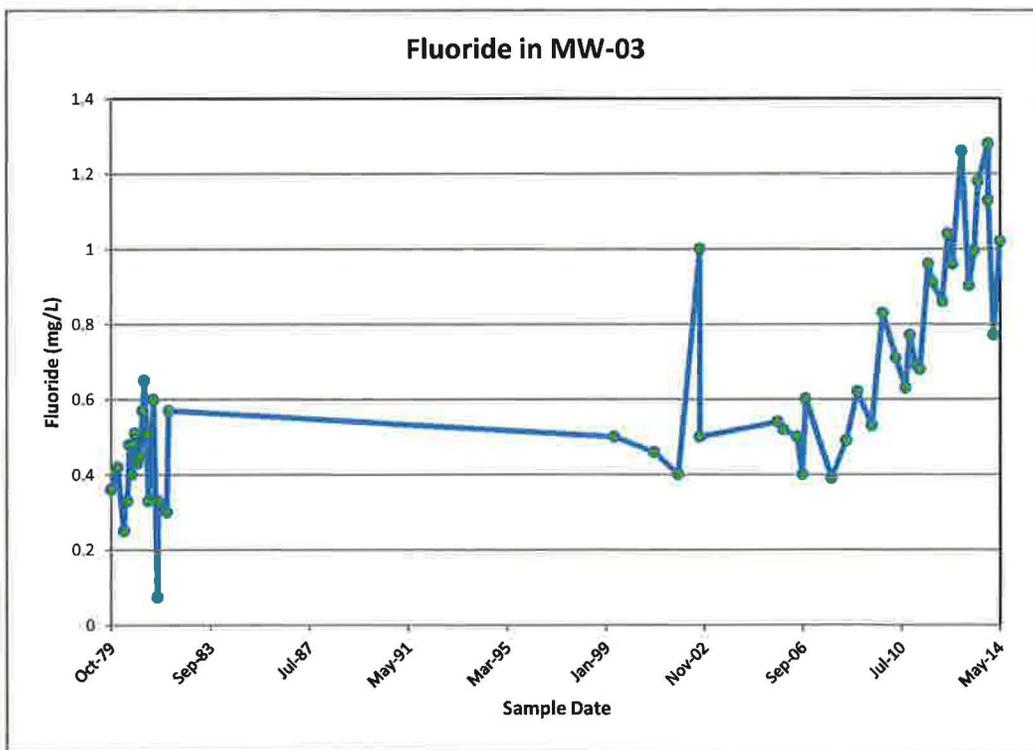
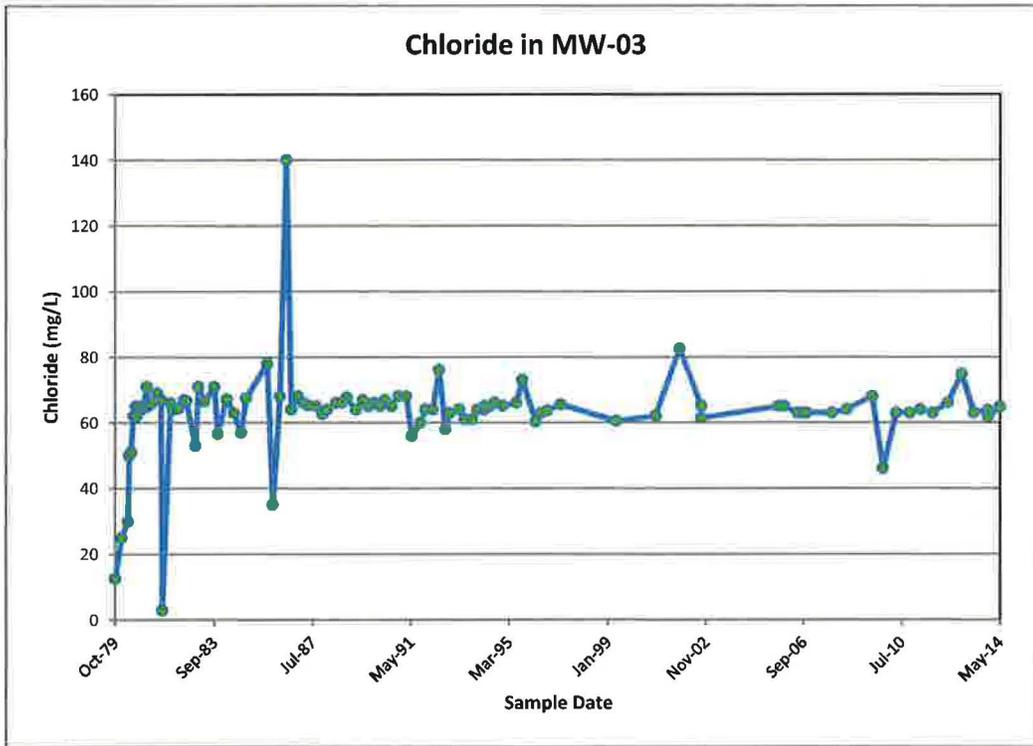






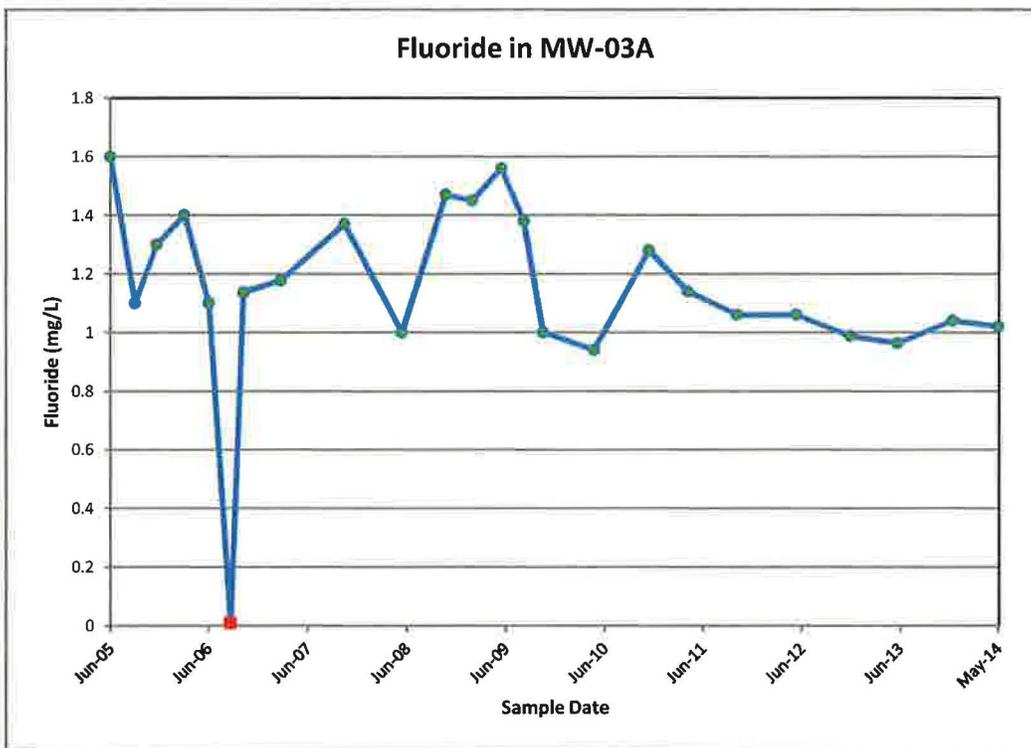
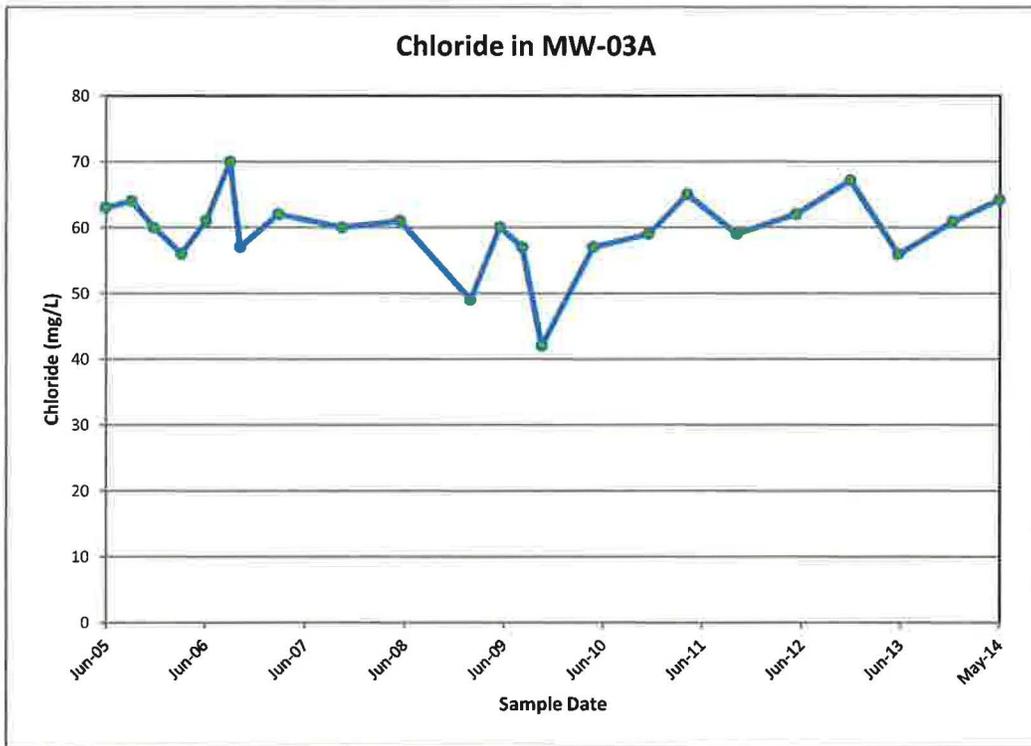


### Time concentration plots for MW-03



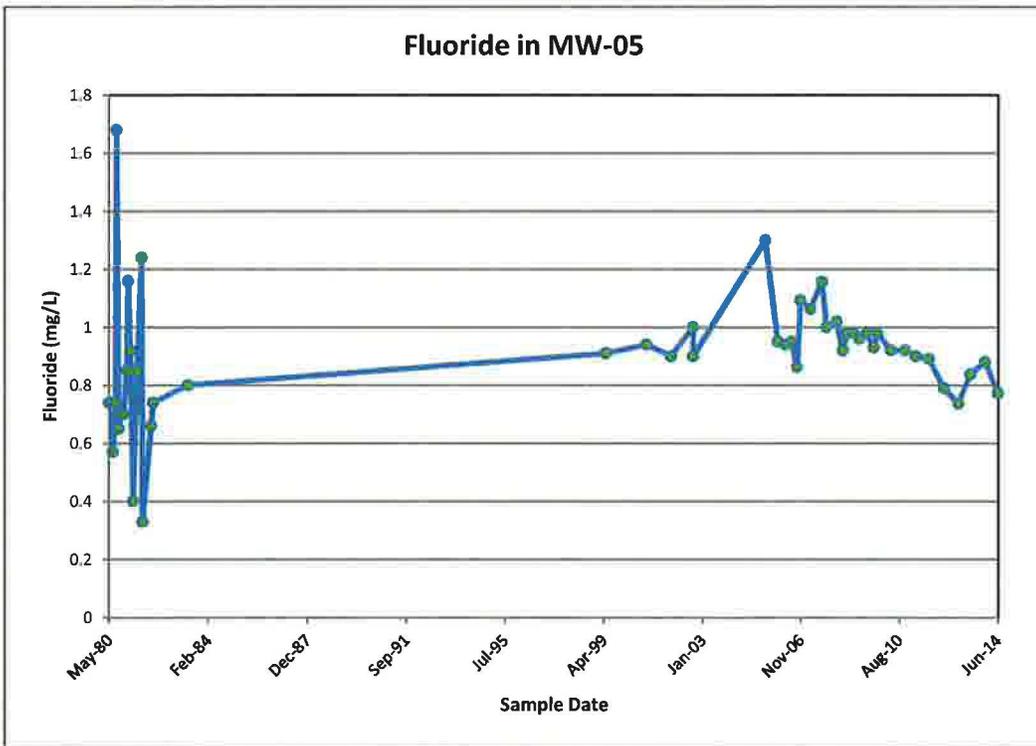
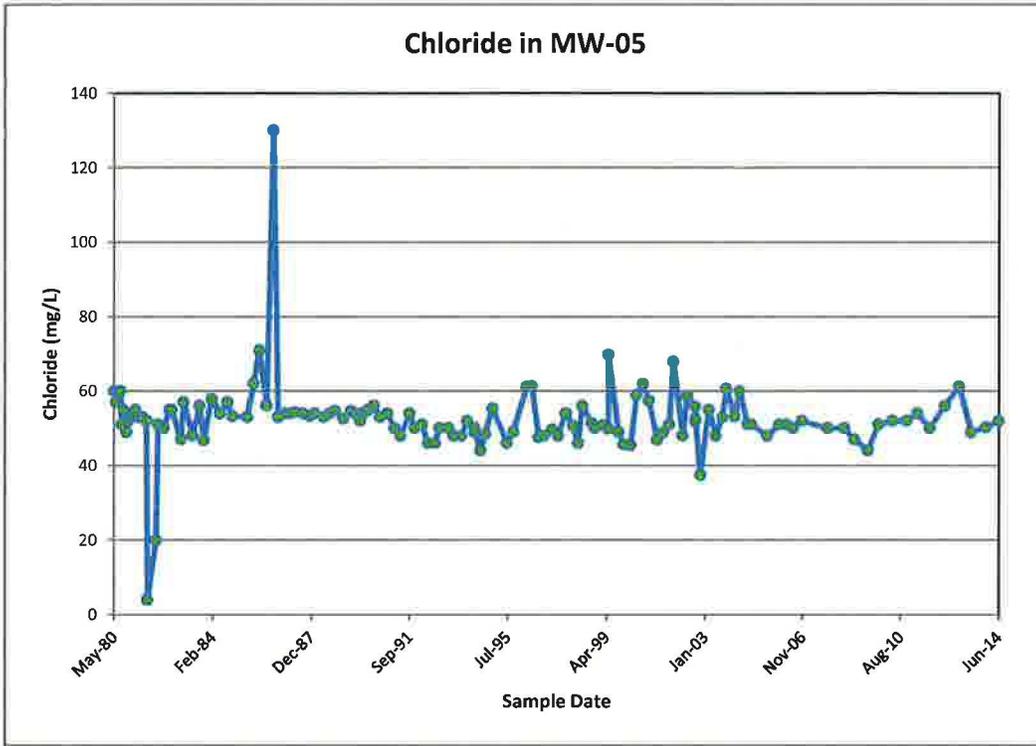


### Time concentration plots for MW-03A

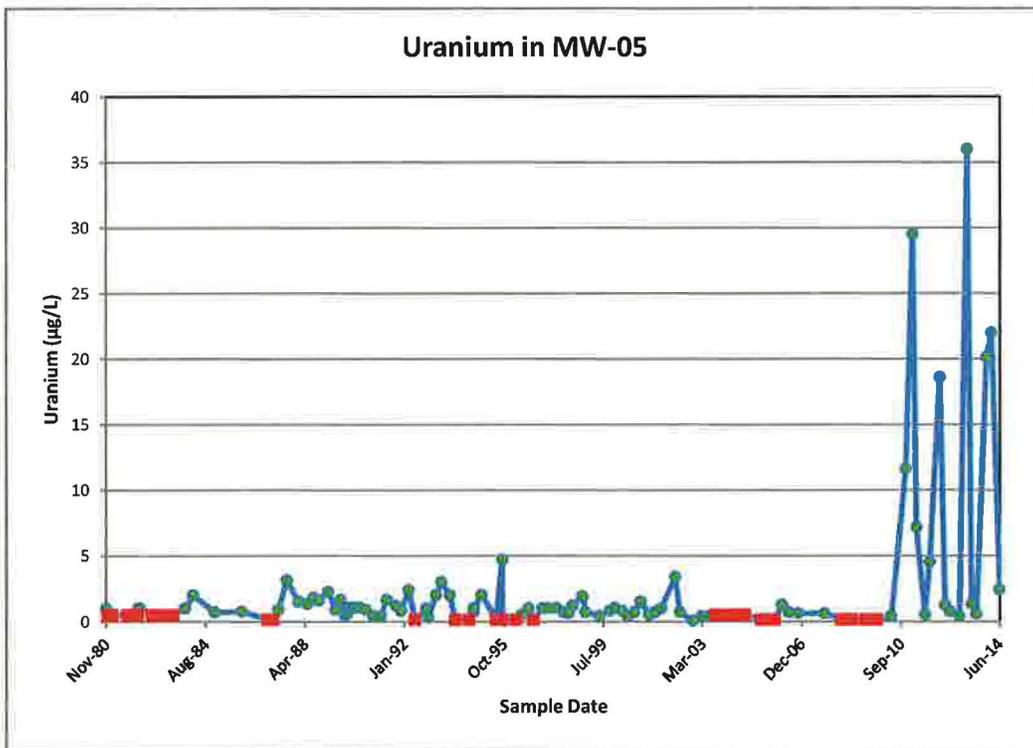
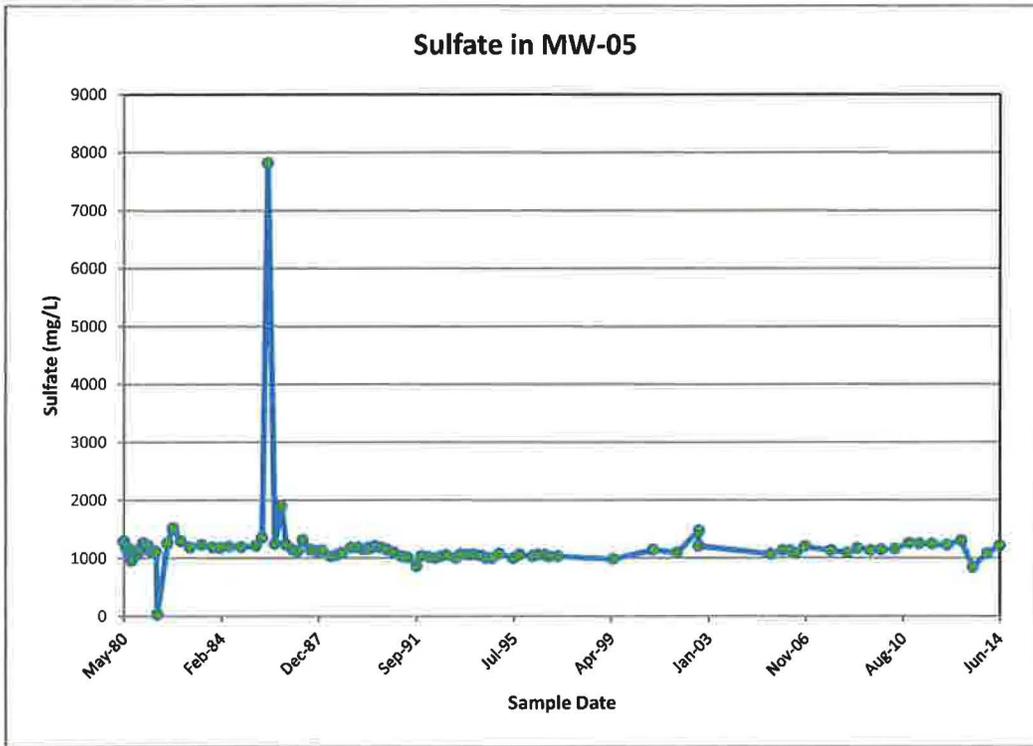




### Time concentration plots for MW-05



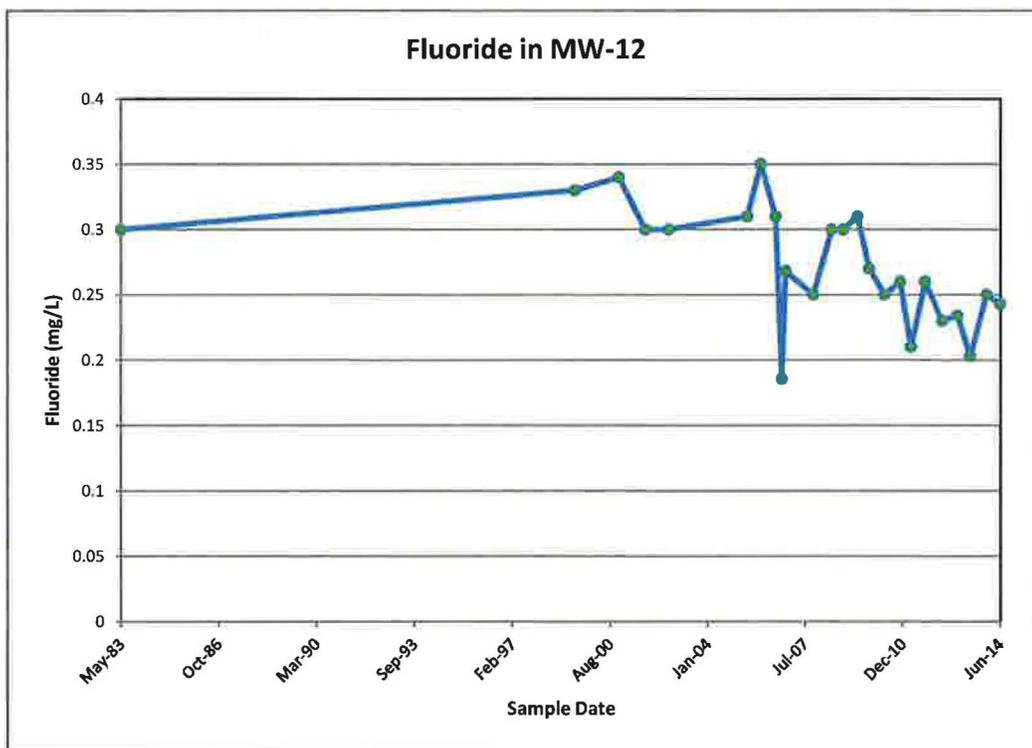
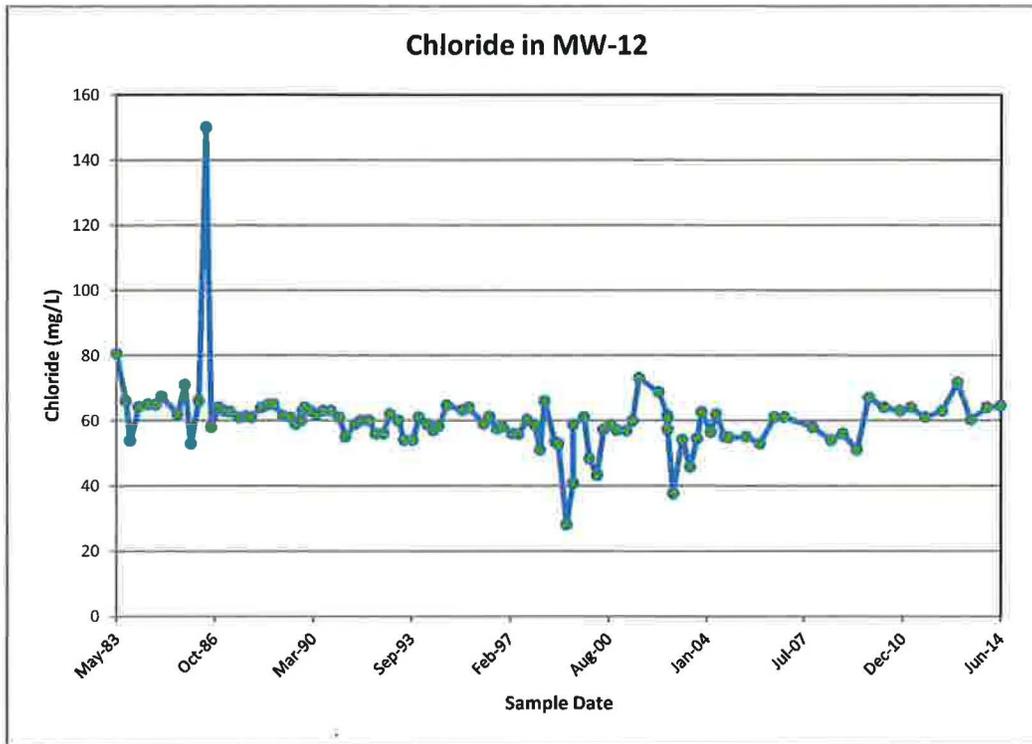
### Time concentration plots for MW-05



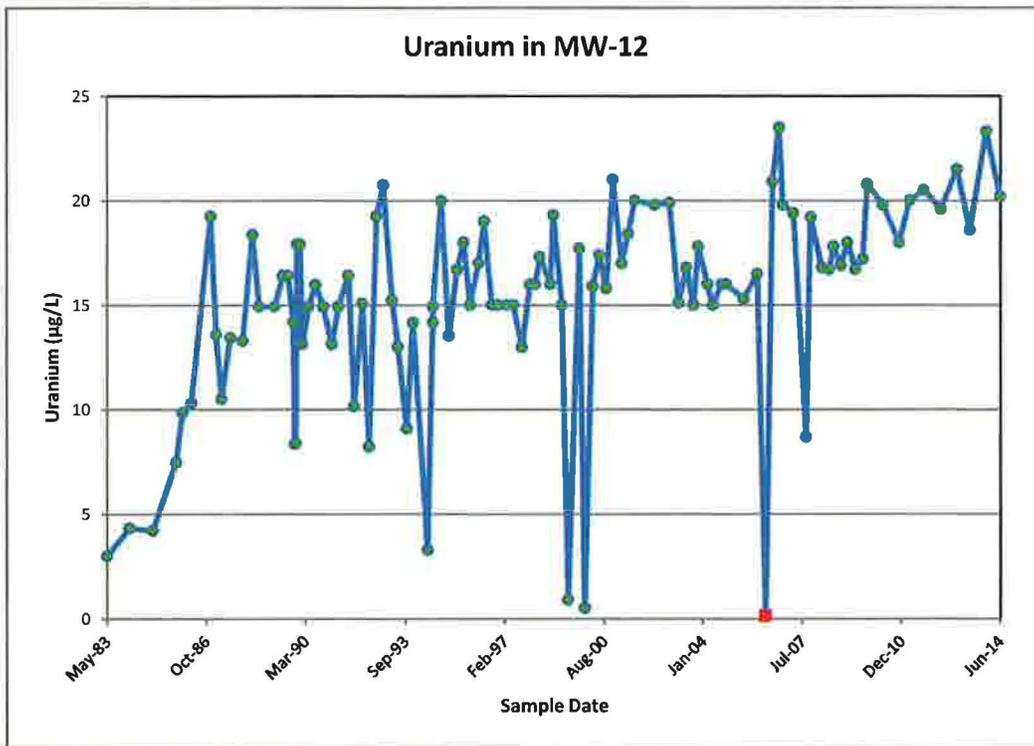
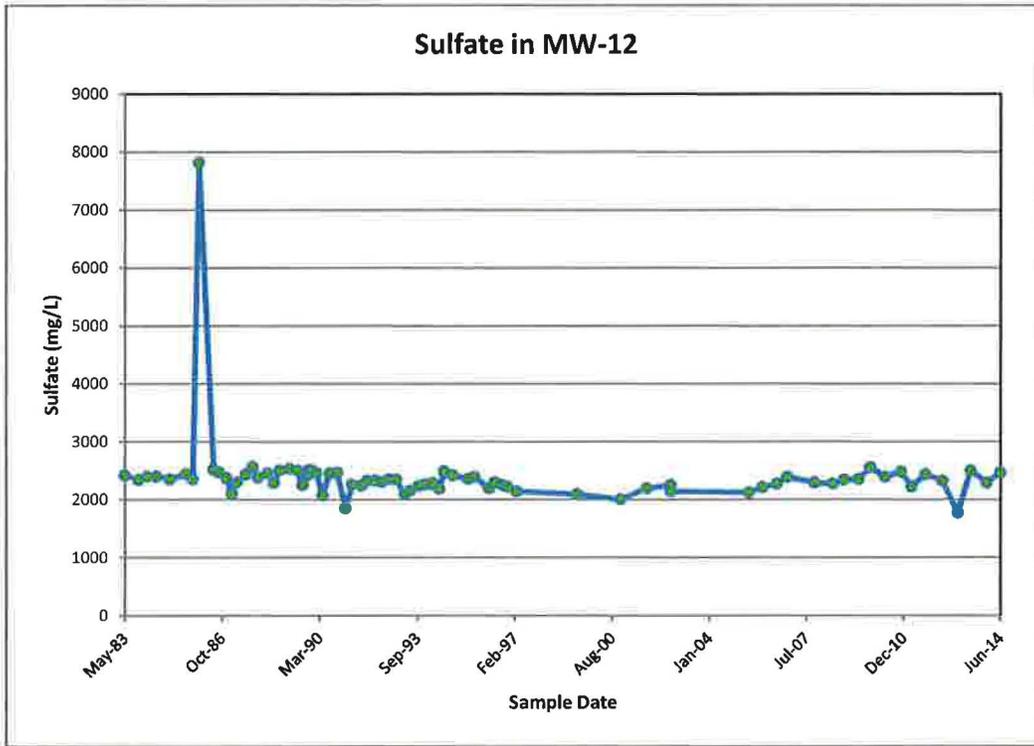




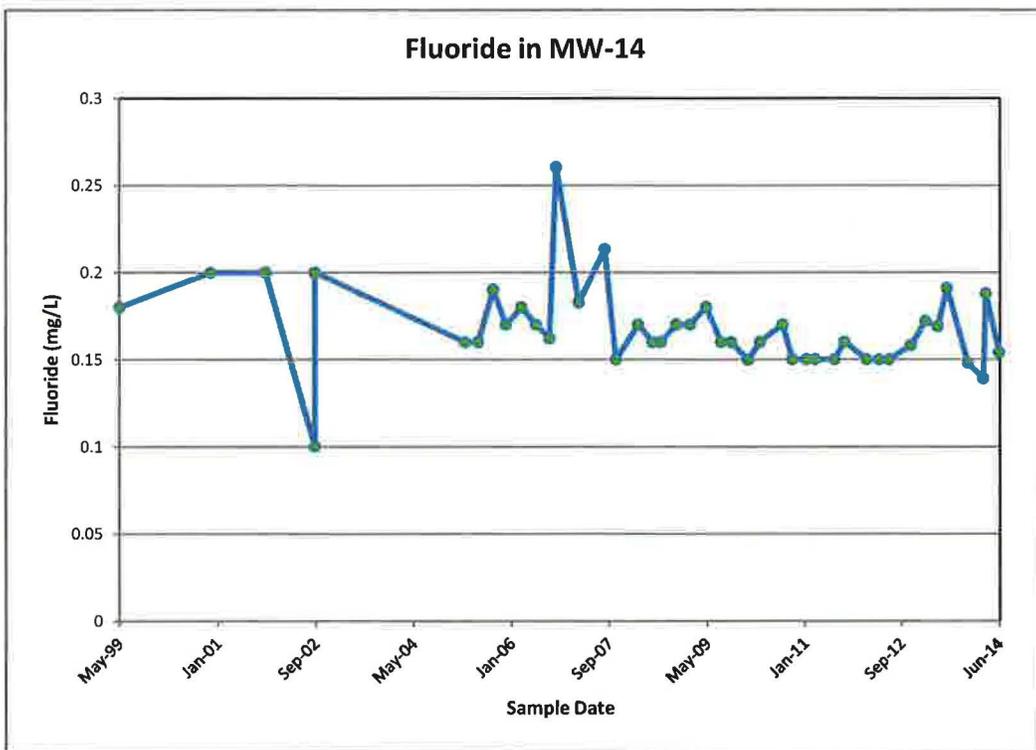
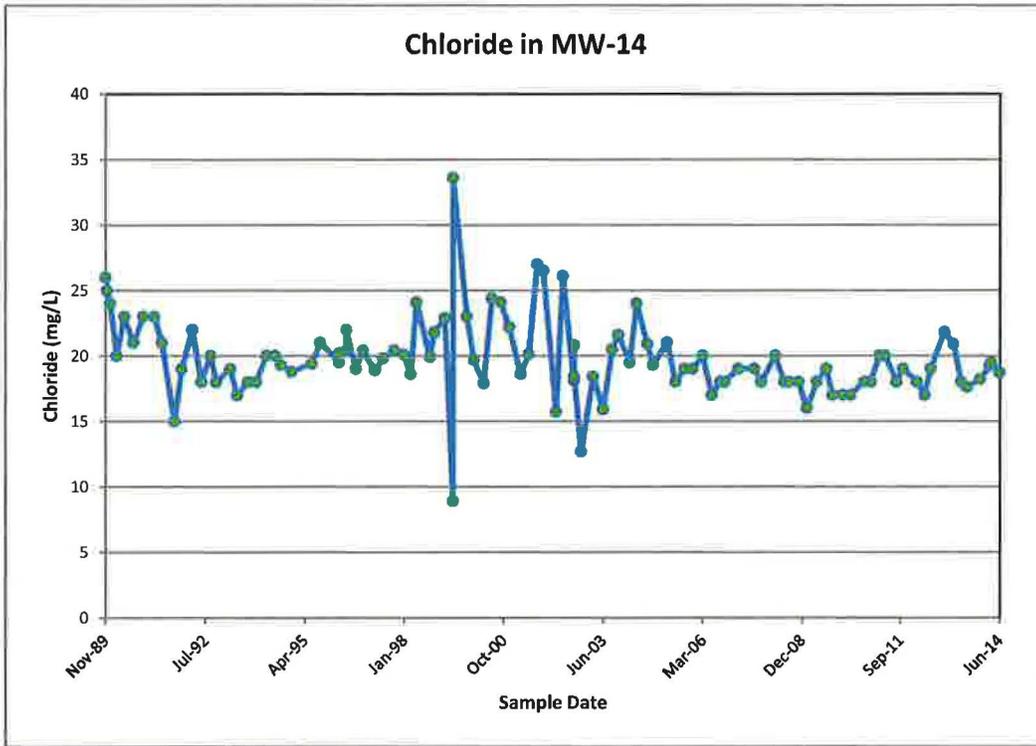
### Time concentration plots for MW-12



### Time concentration plots for MW-12

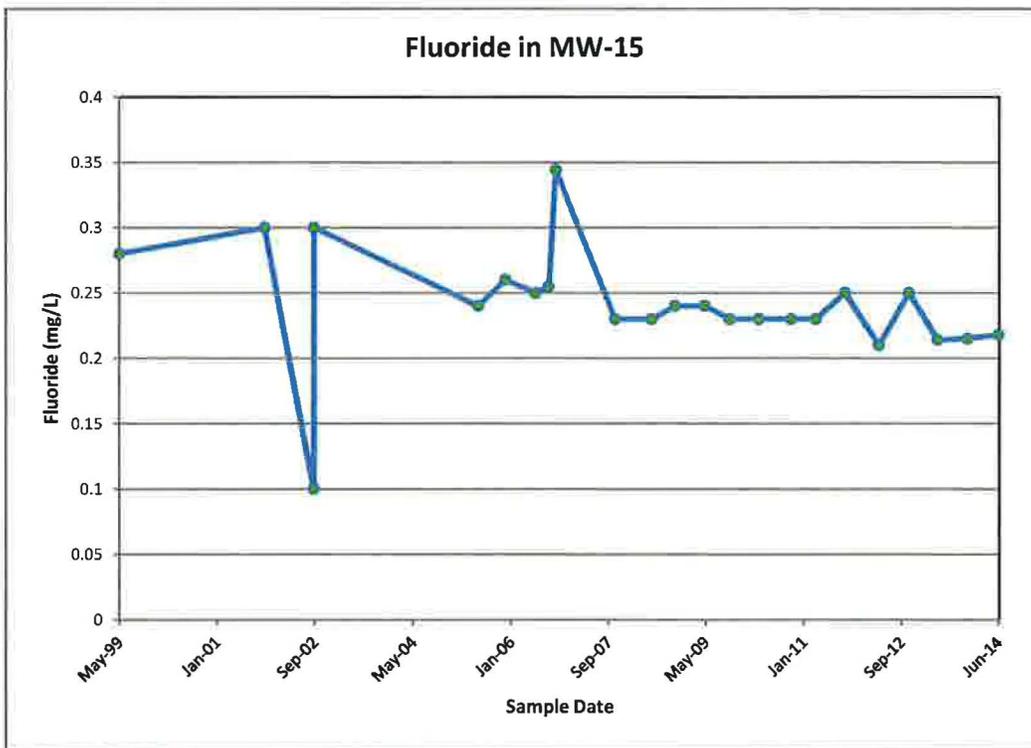
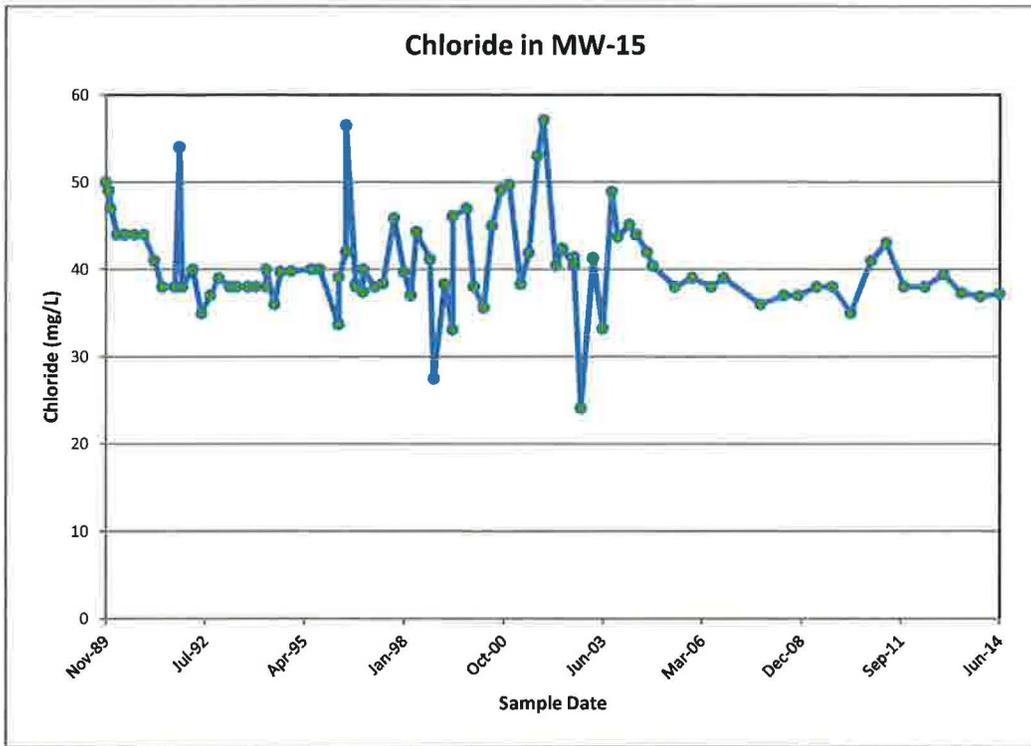


### Time concentration plots for MW-14



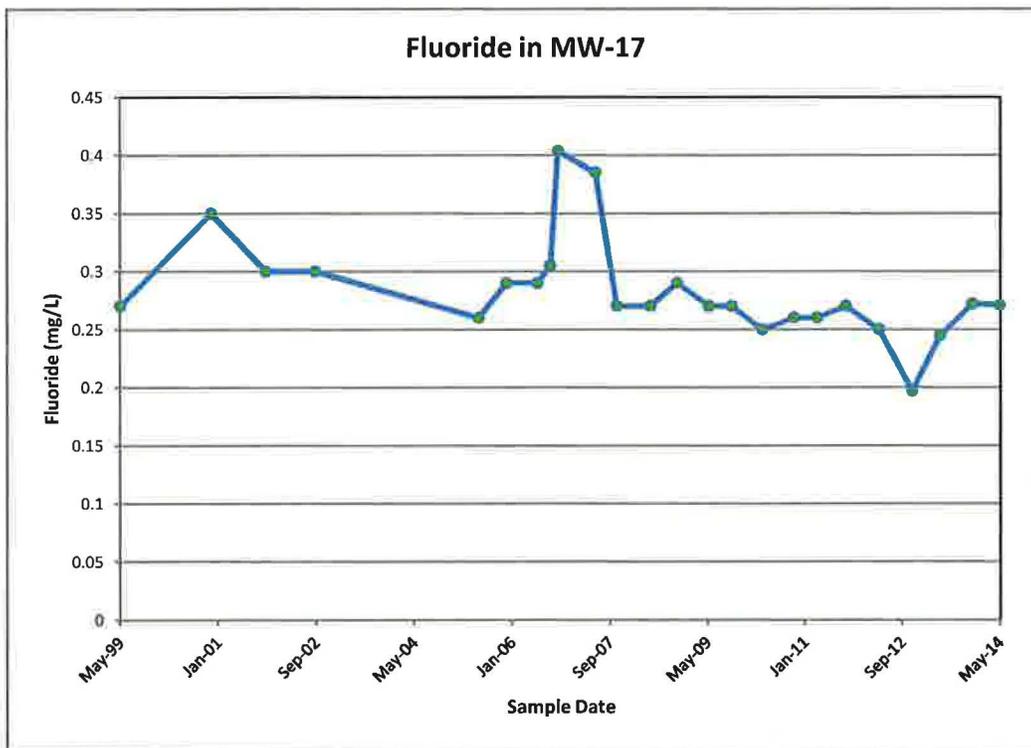
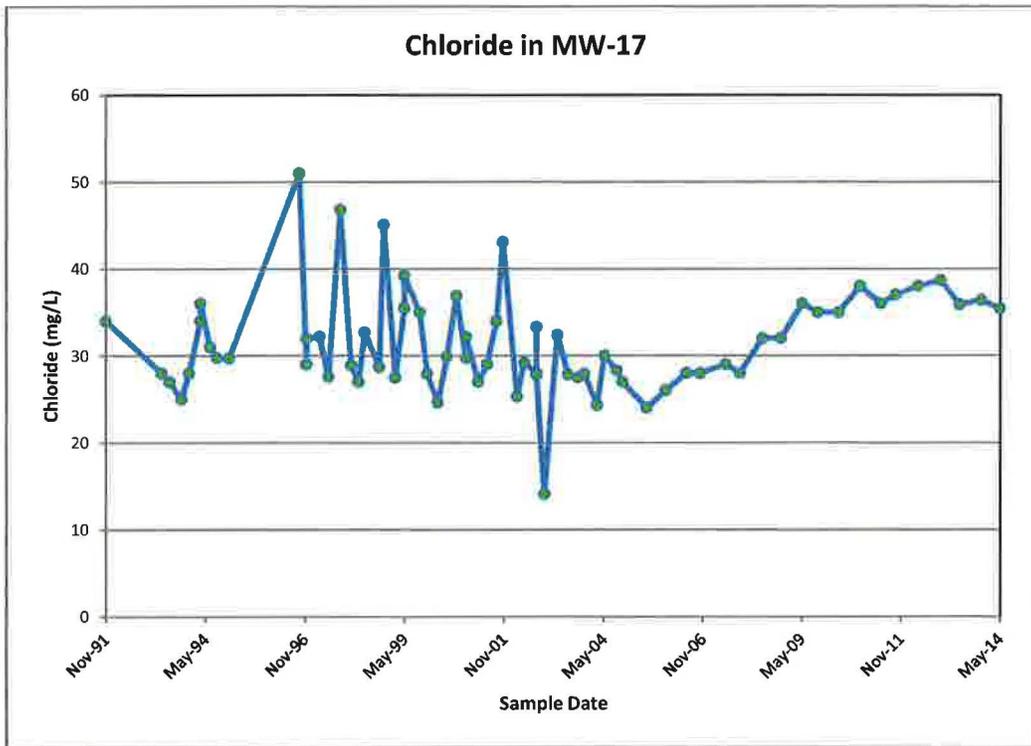


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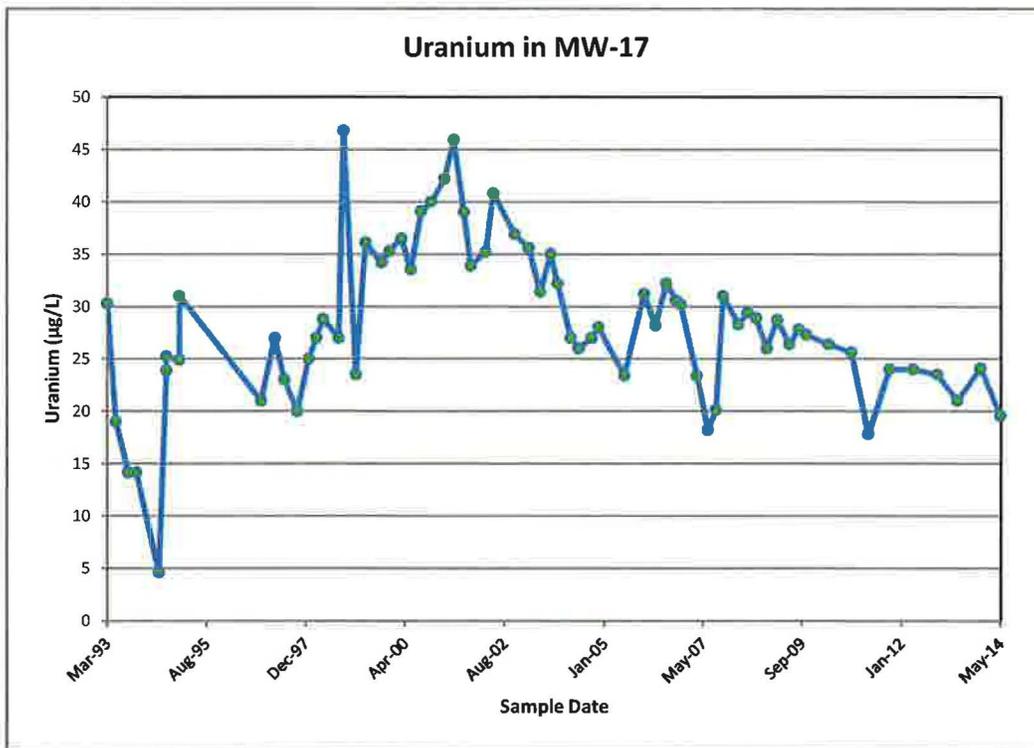
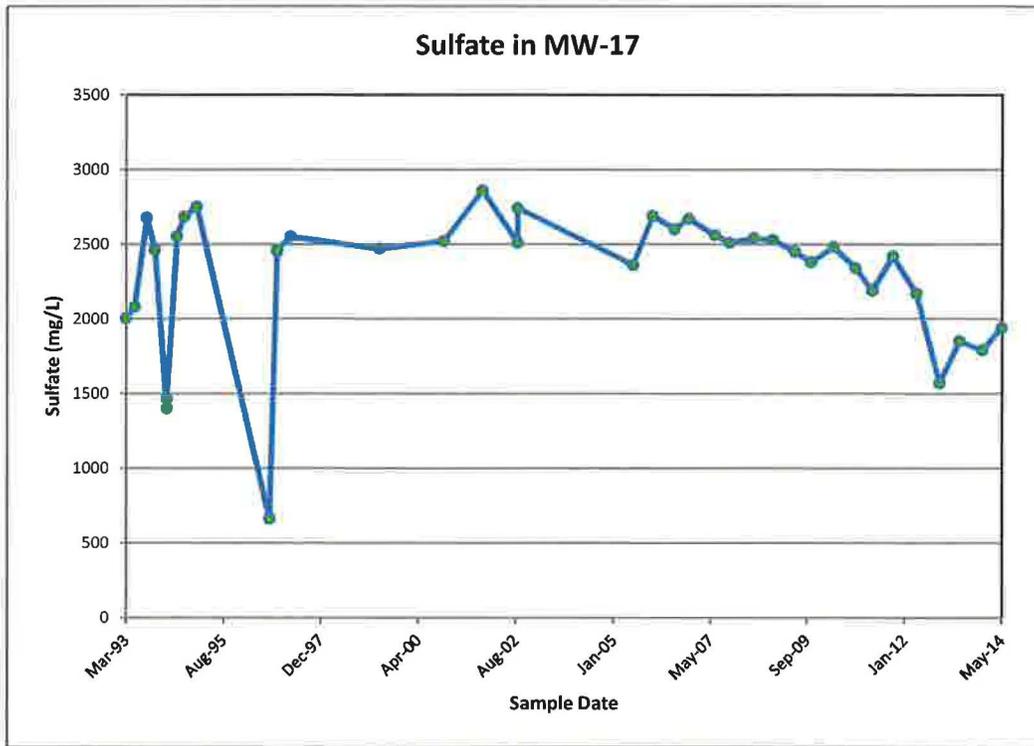




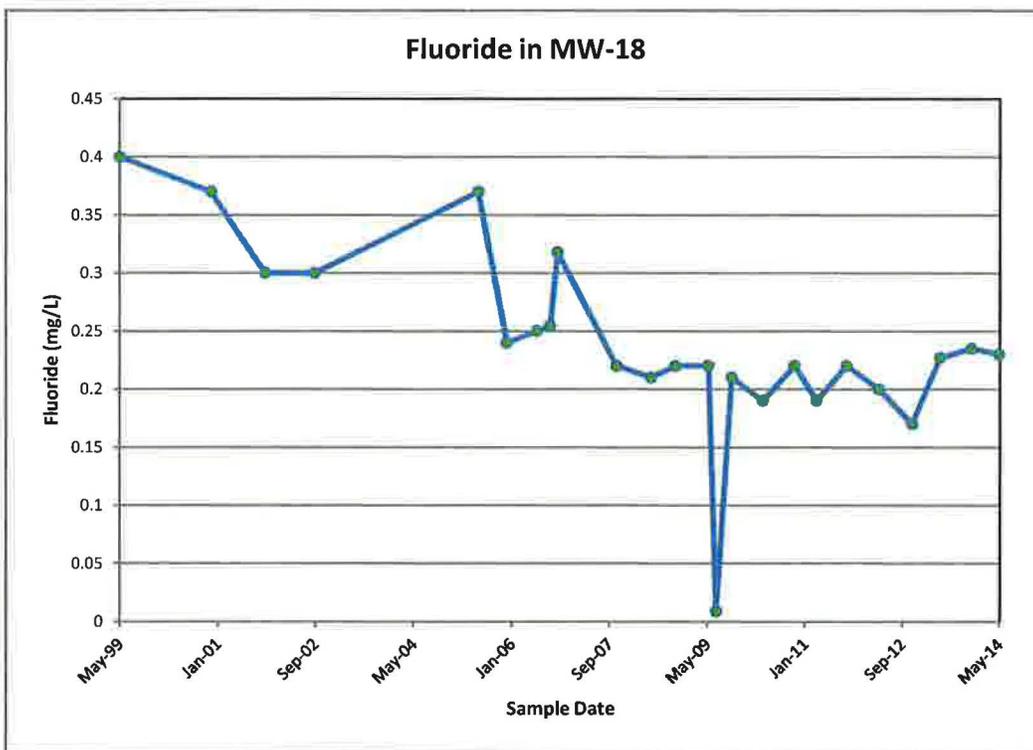
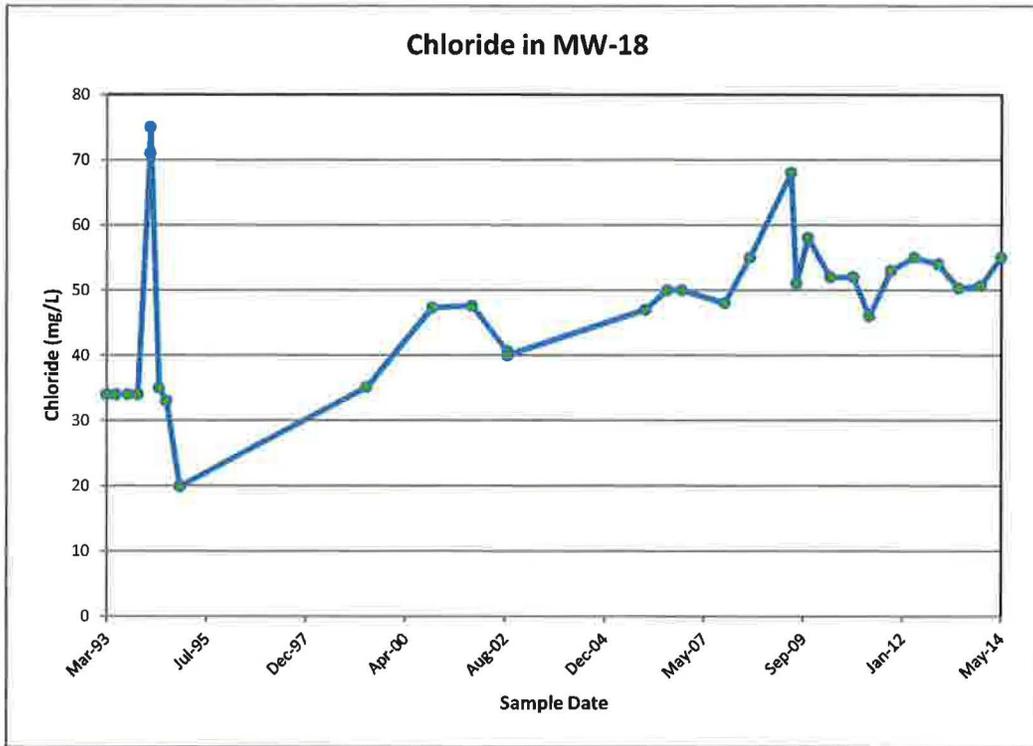
### Time concentration plots for MW-17



### Time concentration plots for MW-17



### Time concentration plots for MW-18

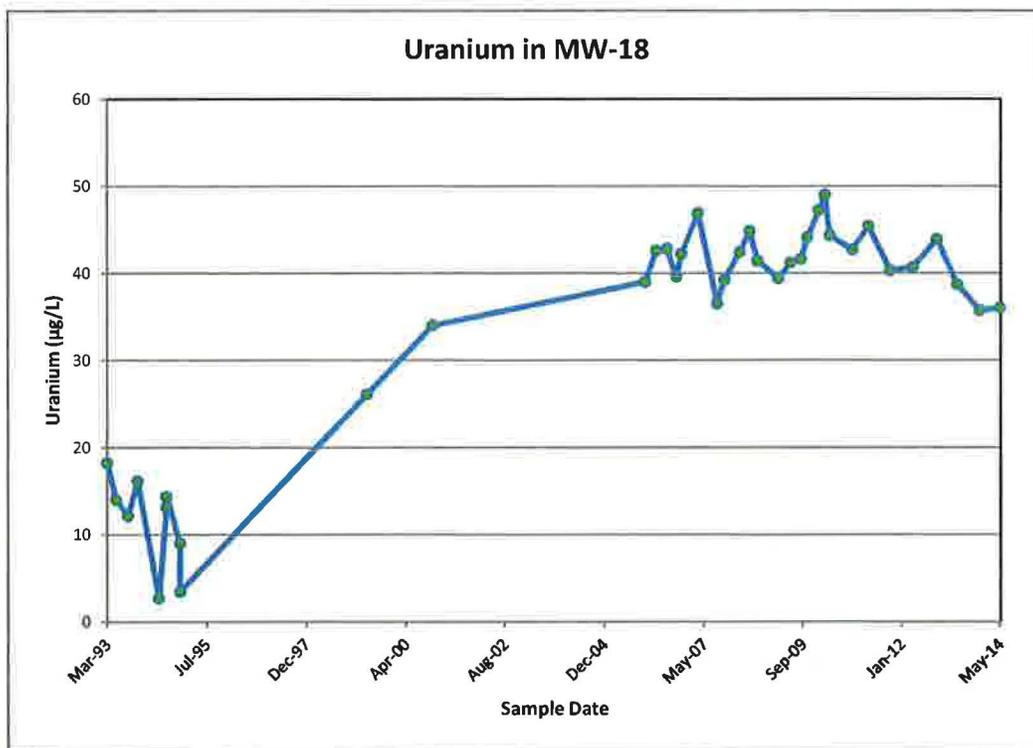
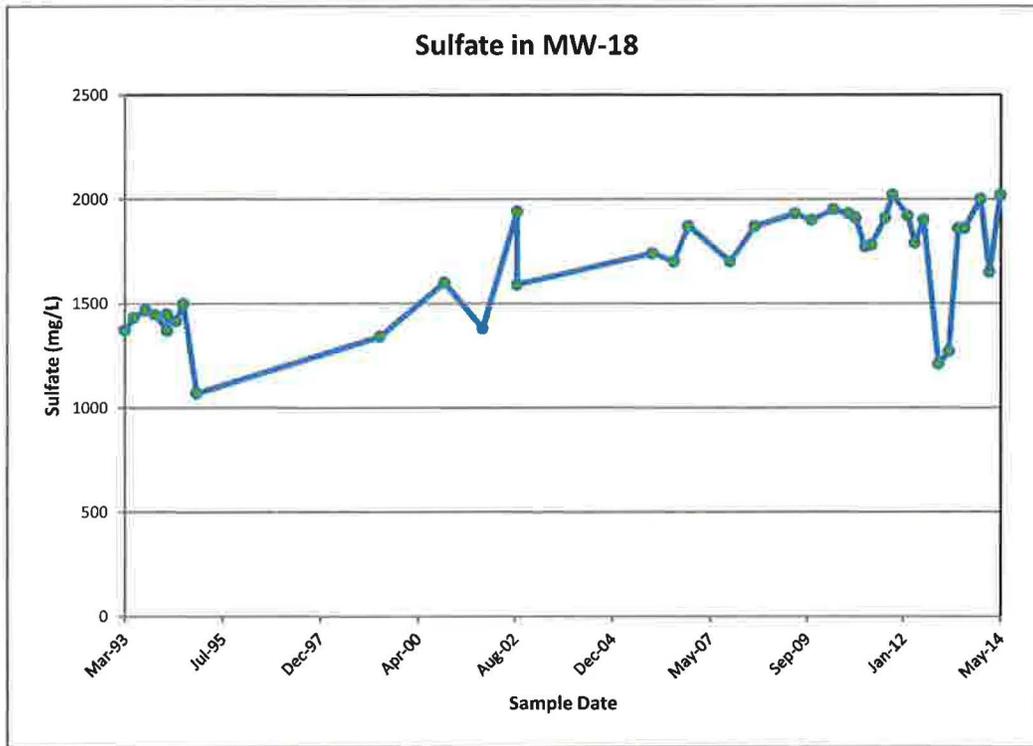


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● Detected Values  
 ■ Non-Detected Values



### Time concentration plots for MW-18

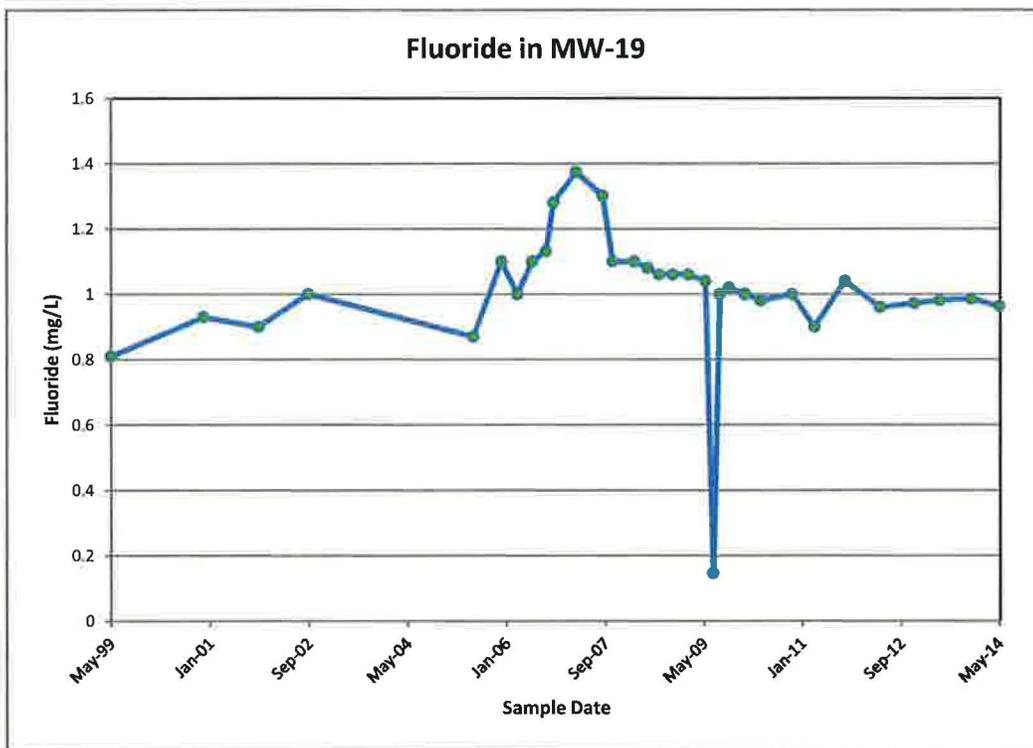
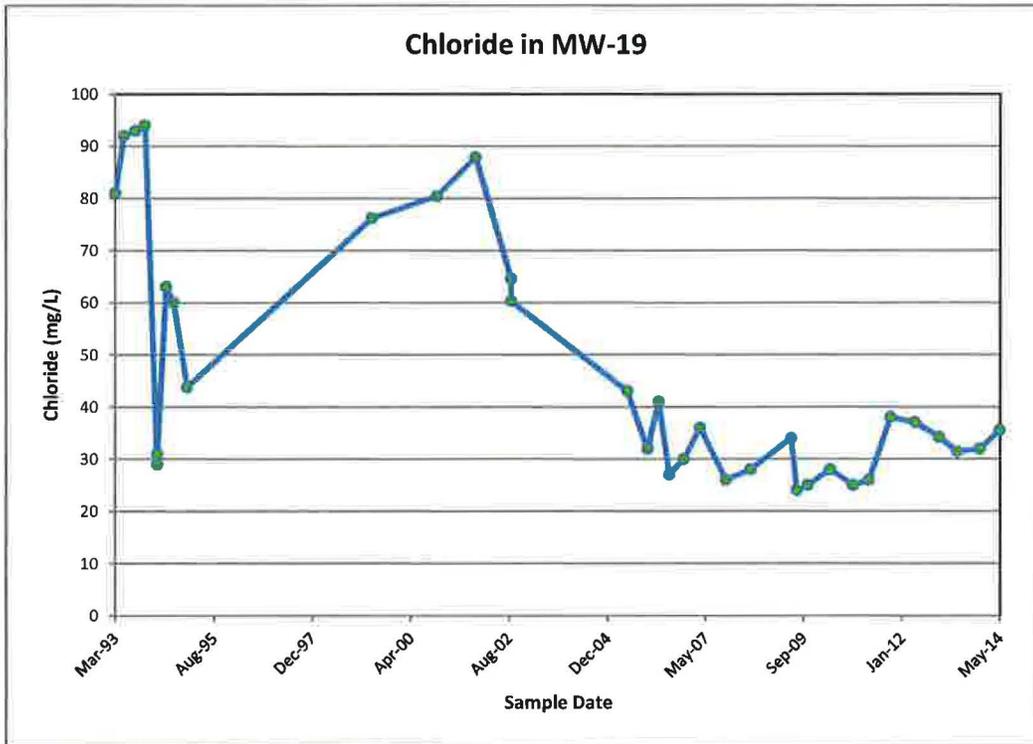


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- Detected Values
- Non-Detected Values



### Time concentration plots for MW-19

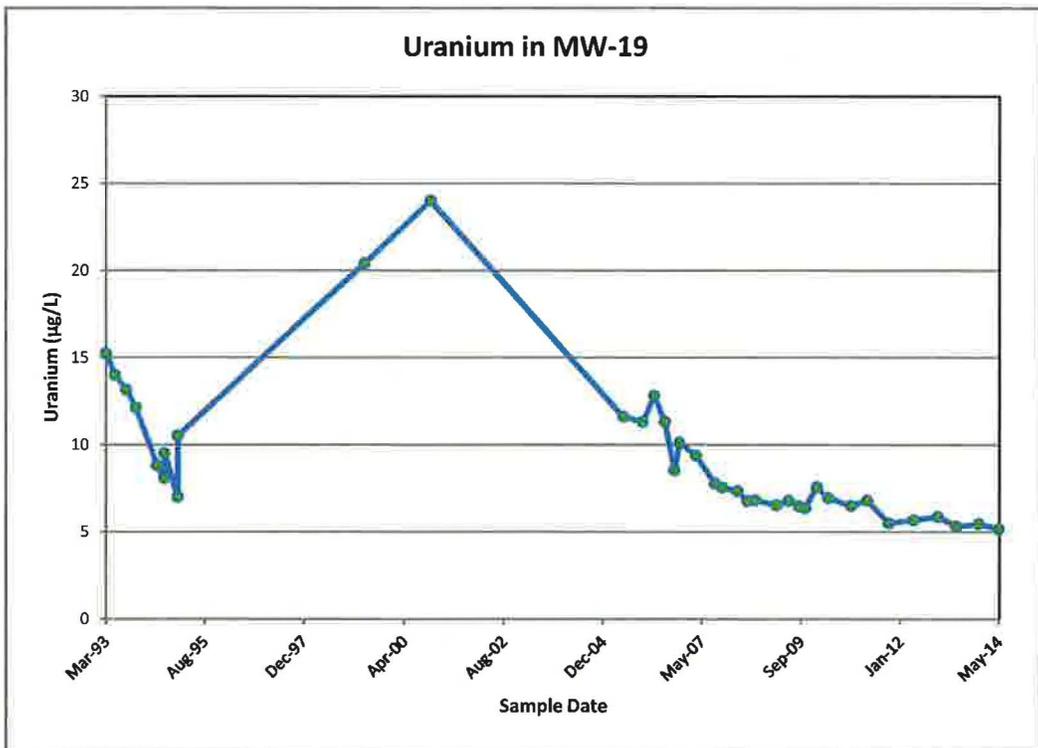
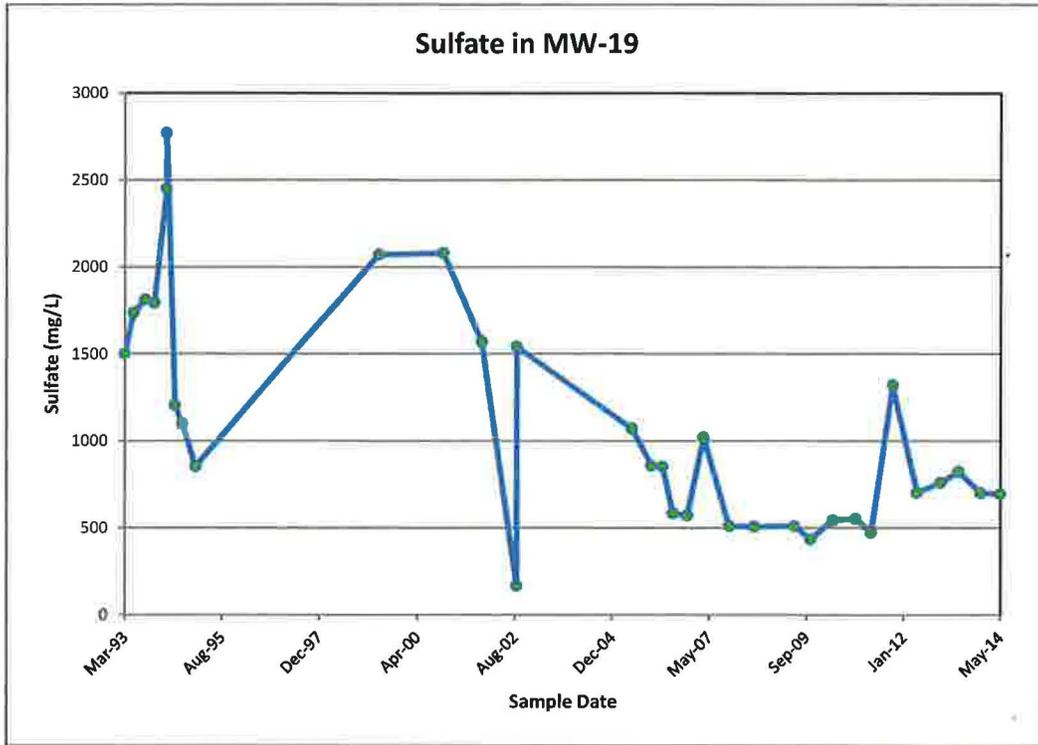


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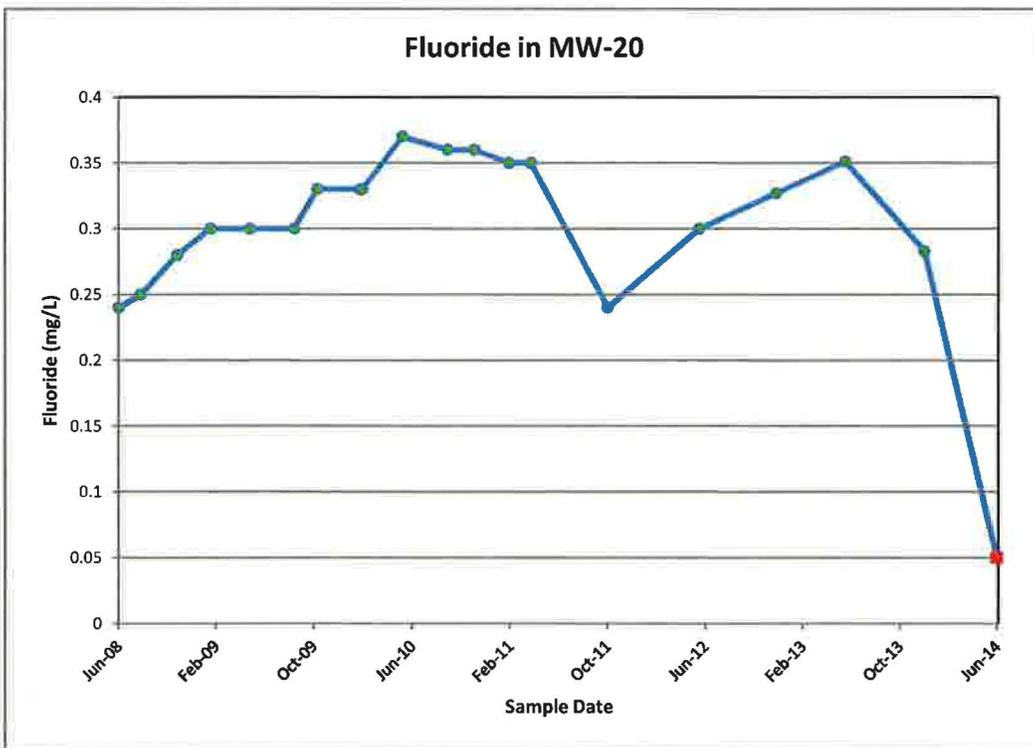
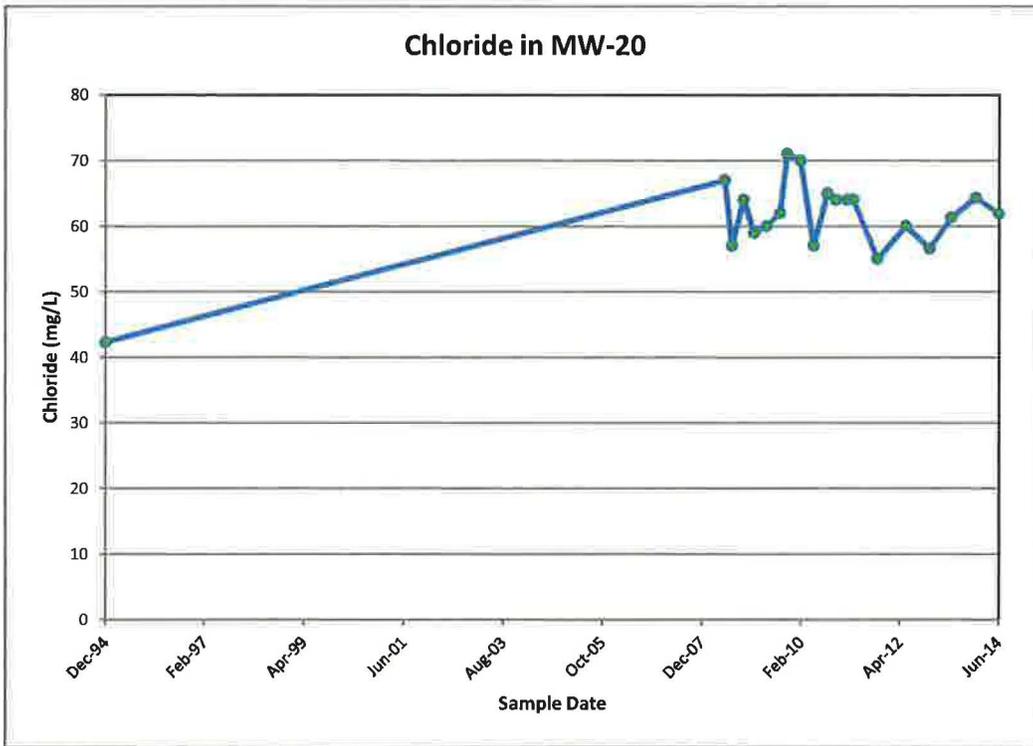
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### Time concentration plots for MW-19



### Time concentration plots for MW-20

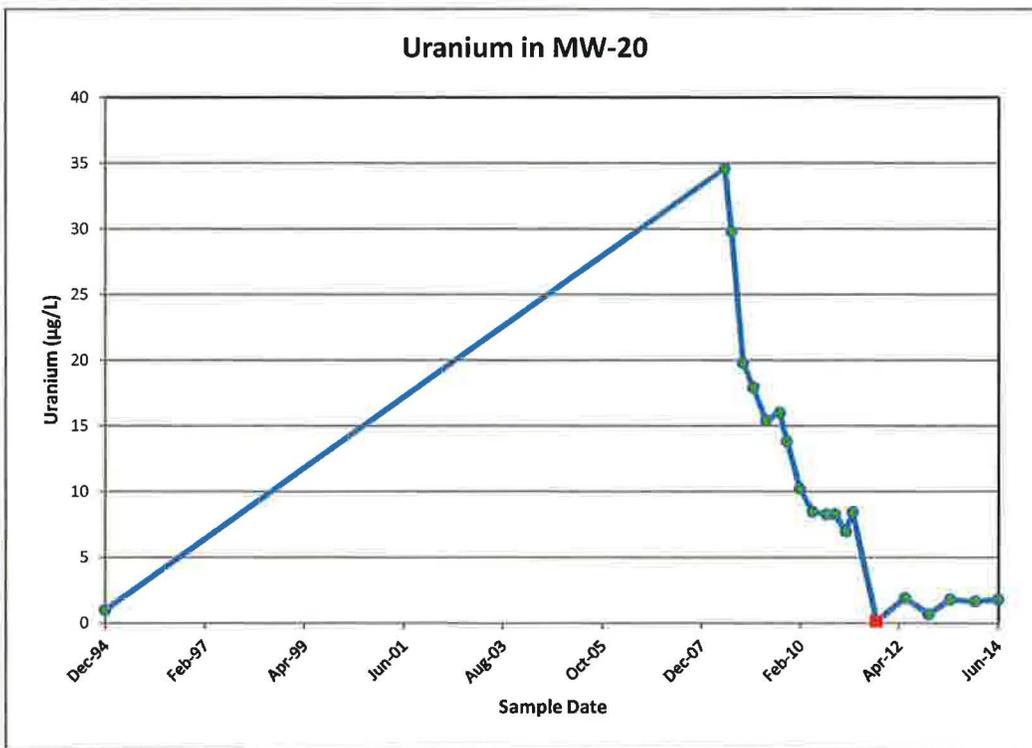
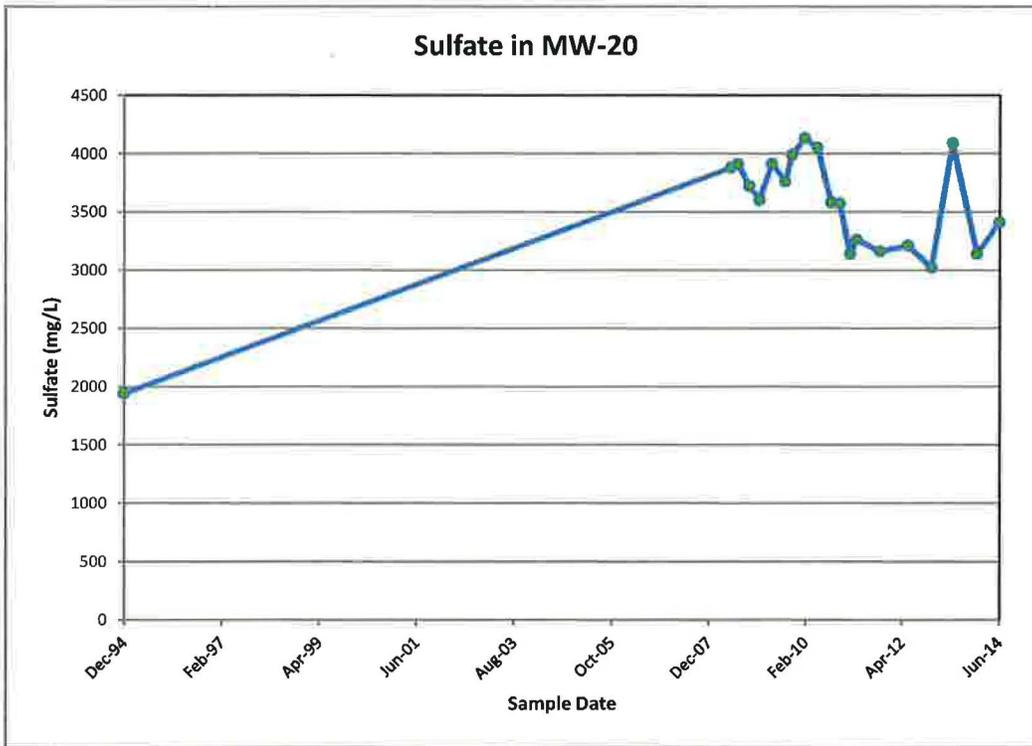


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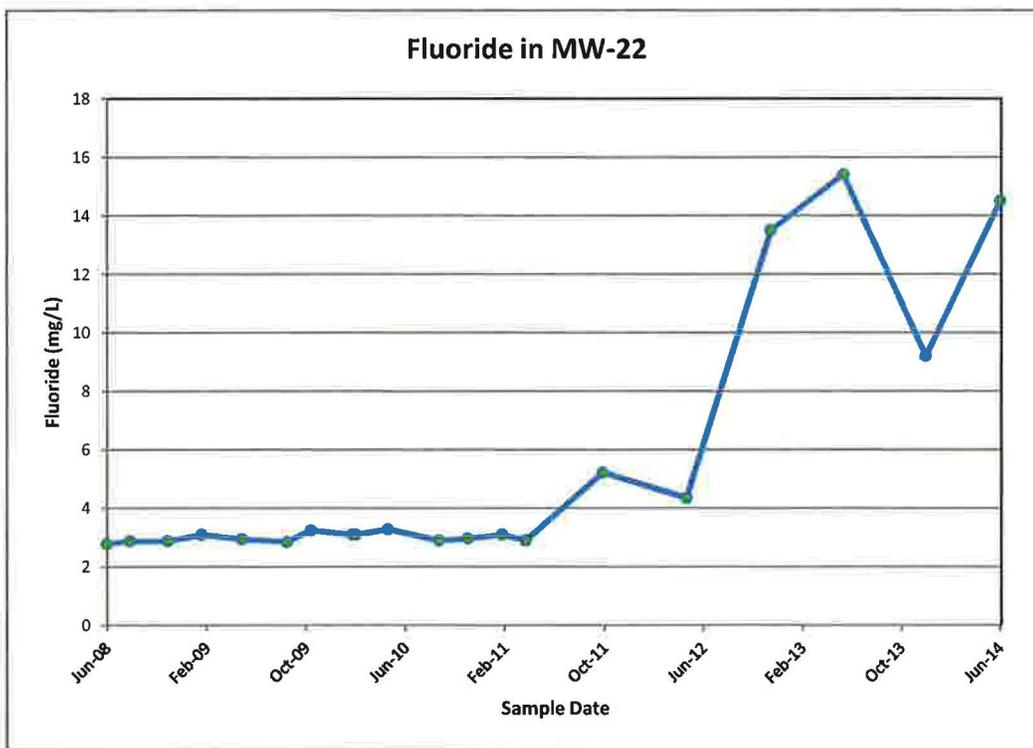
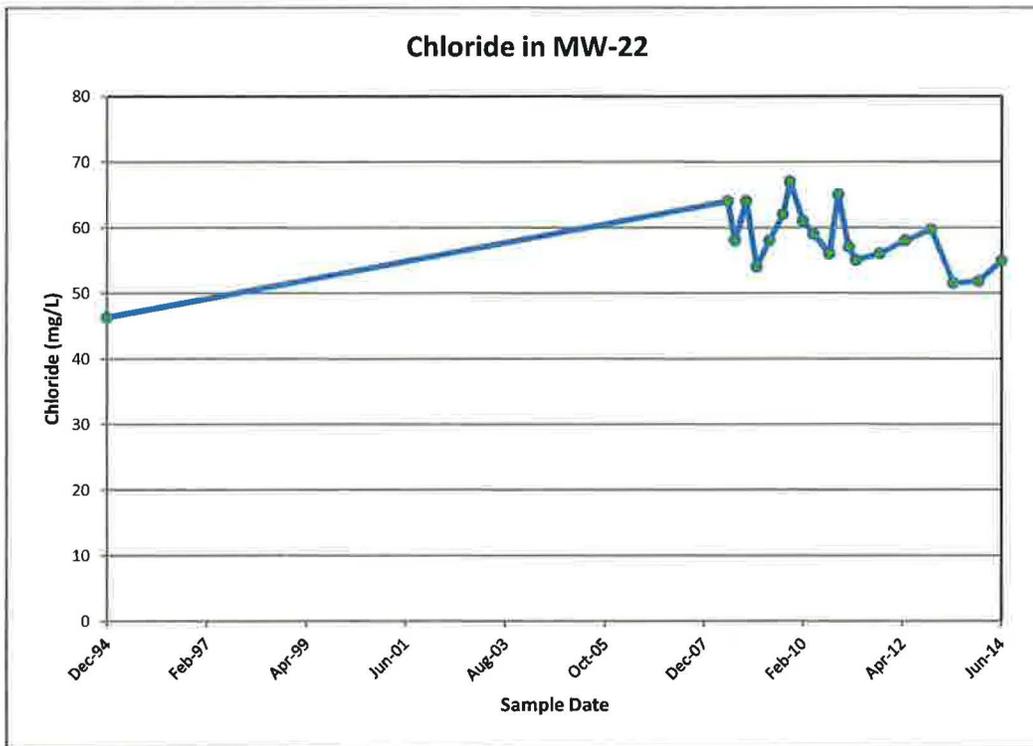
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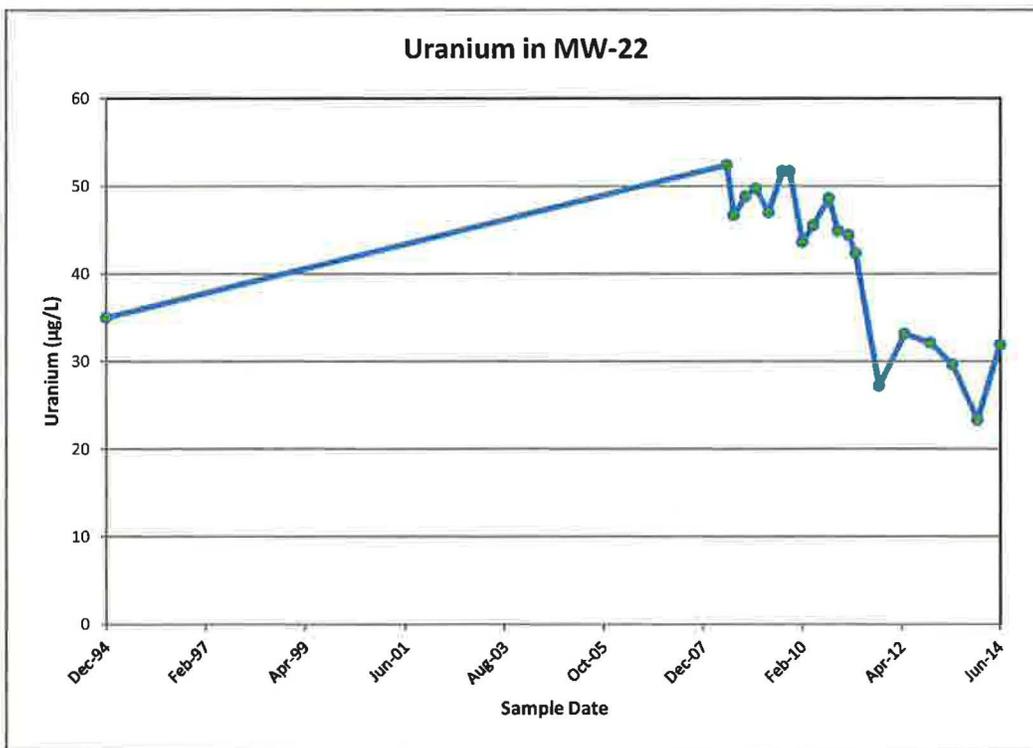
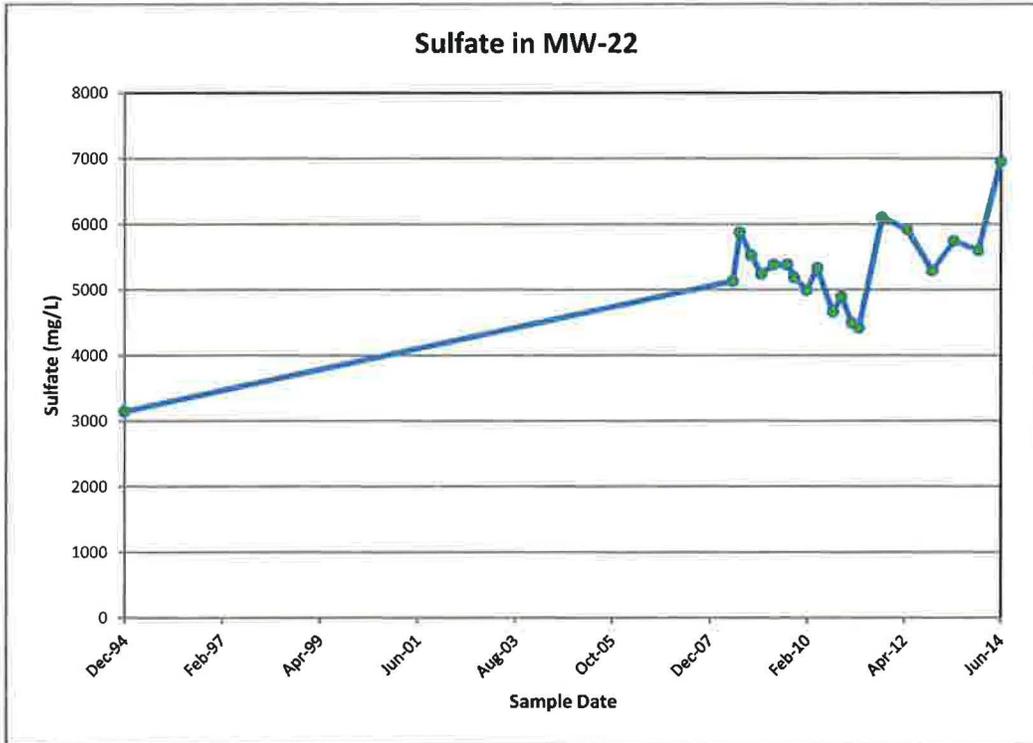
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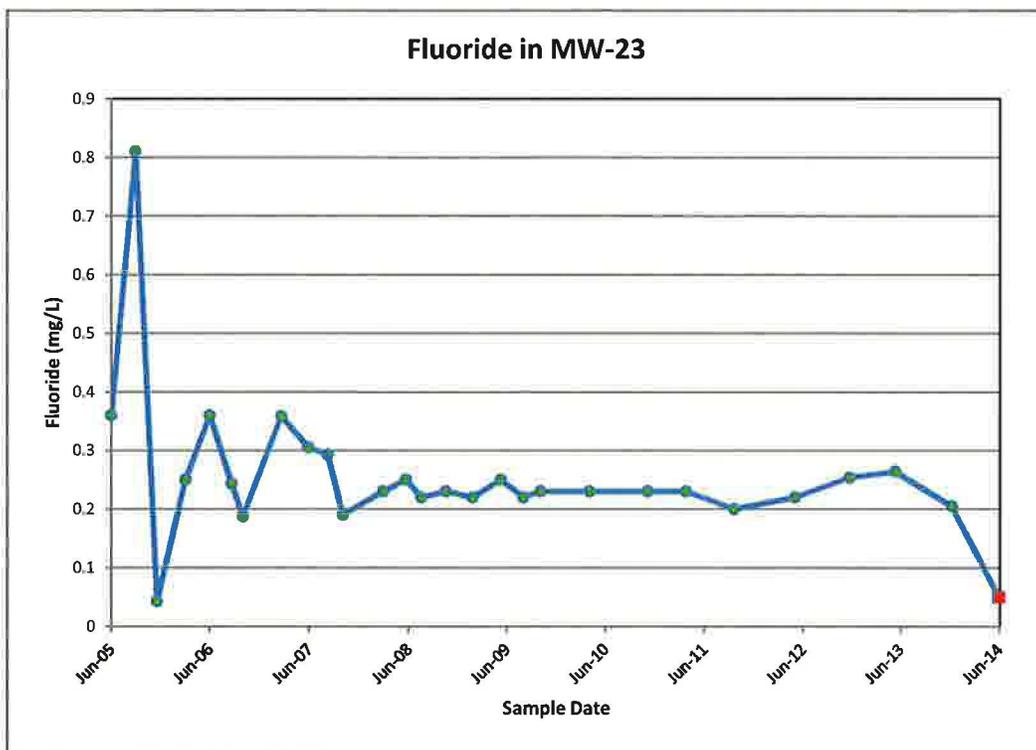
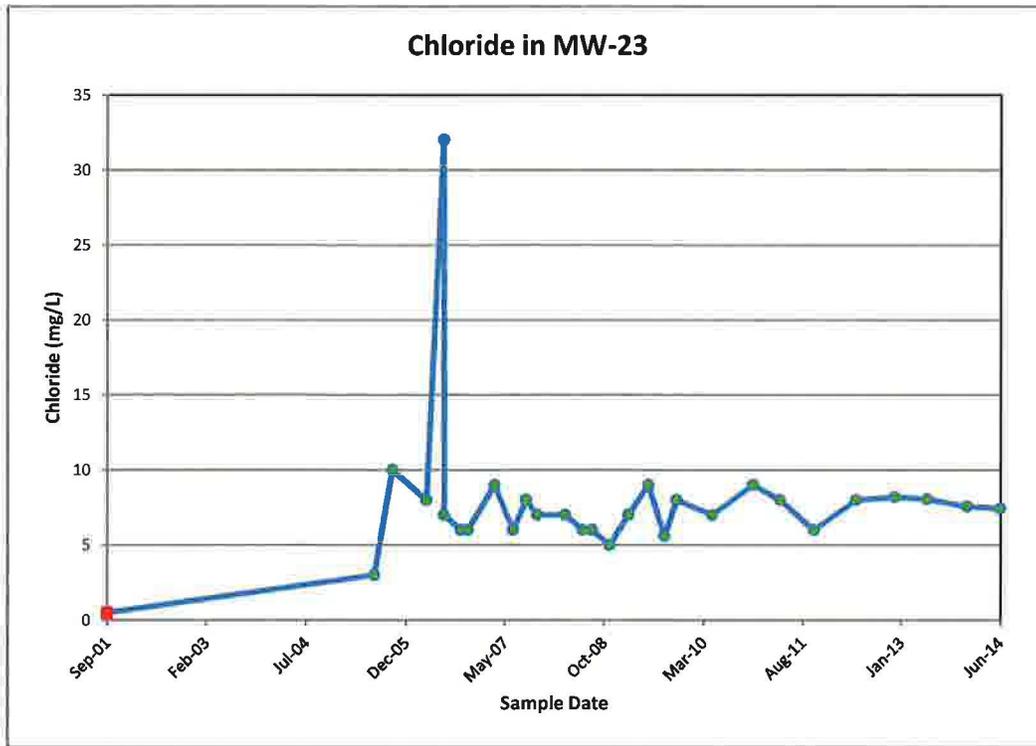
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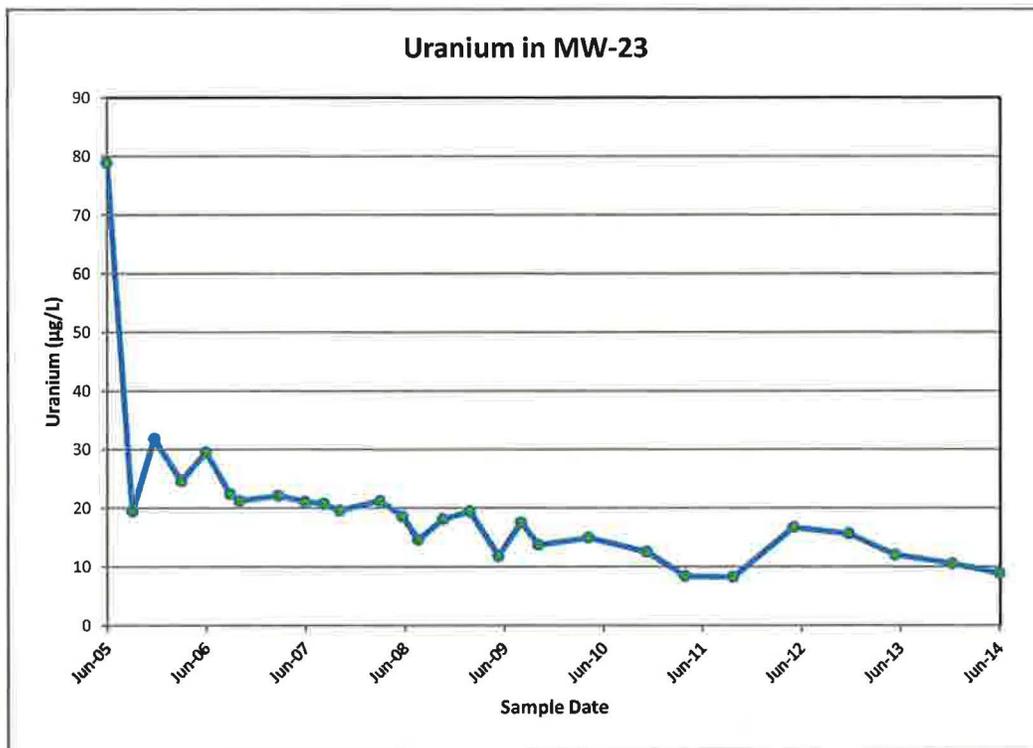
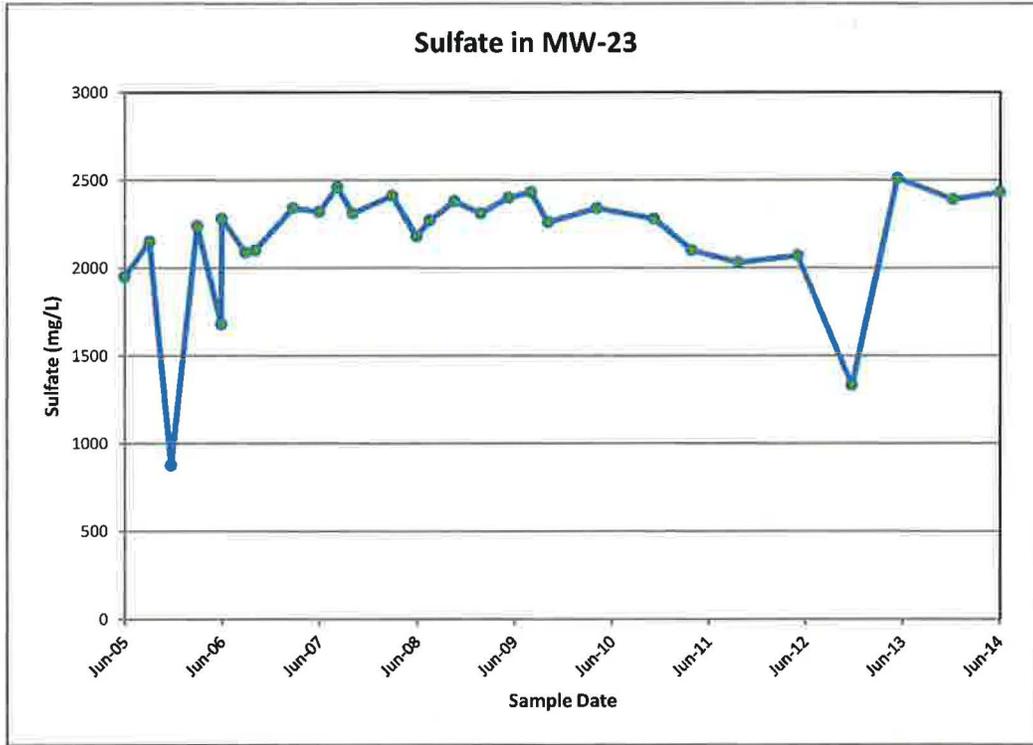
### Time concentration plots for MW-22



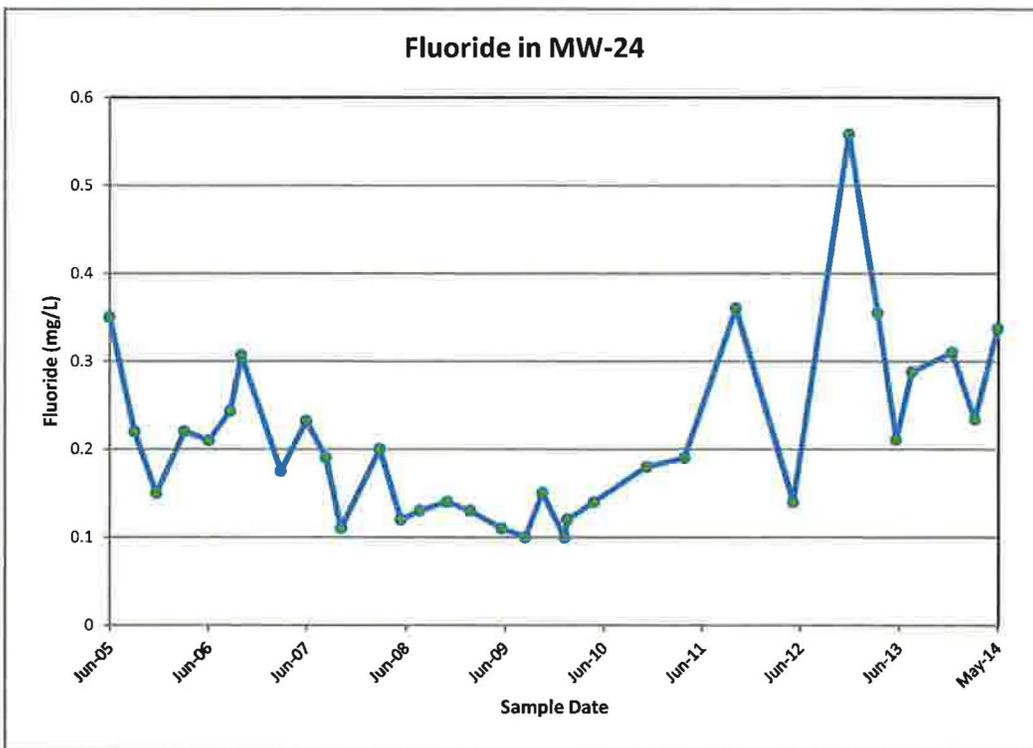
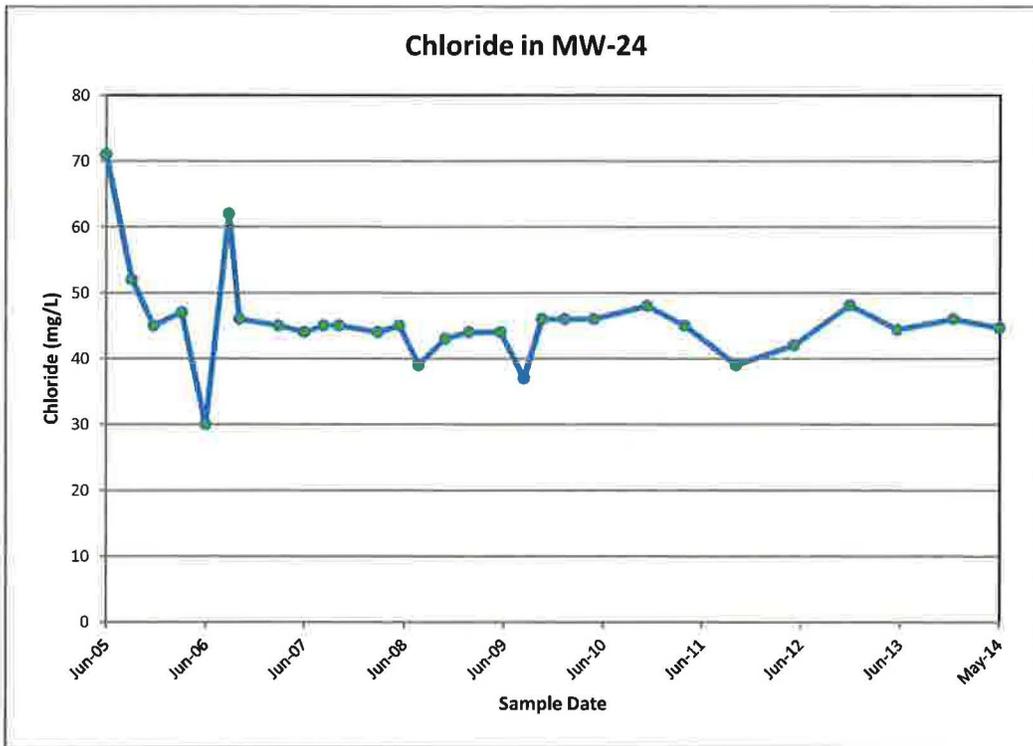
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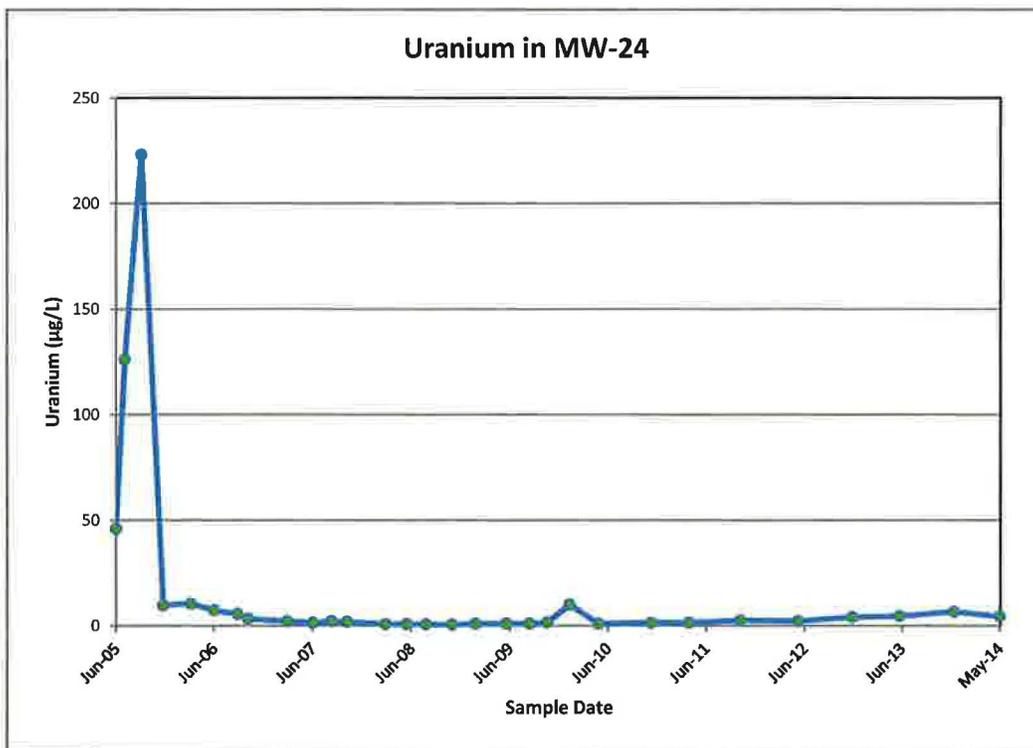
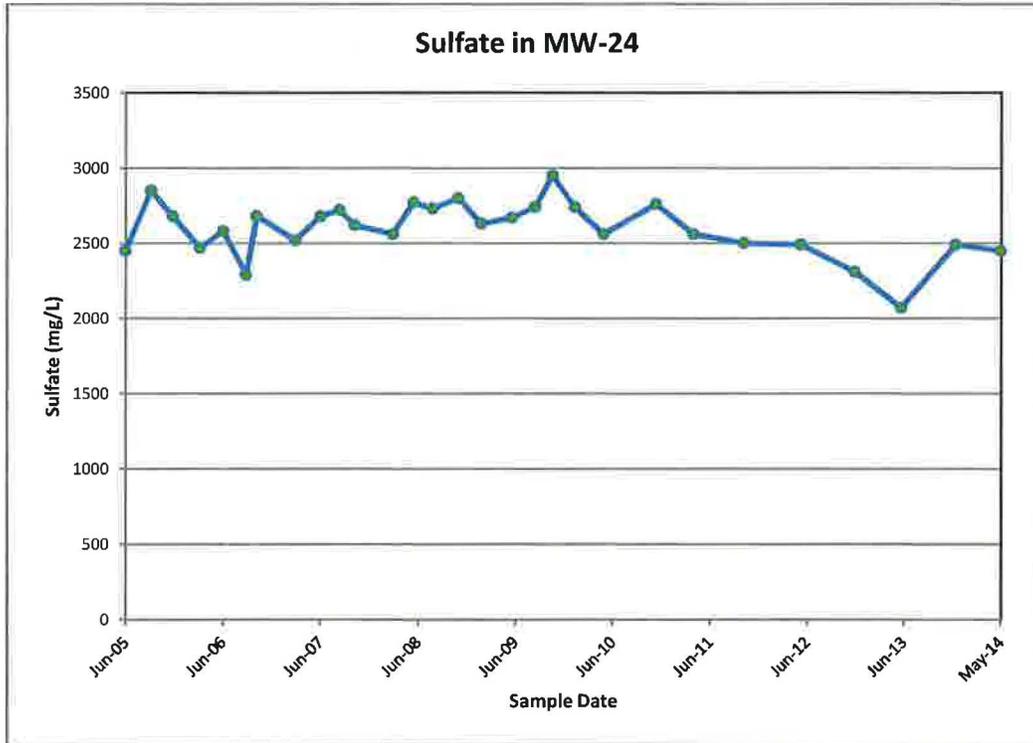
### Time concentration plots for MW-23



### Time concentration plots for MW-24



### Time concentration plots for MW-24

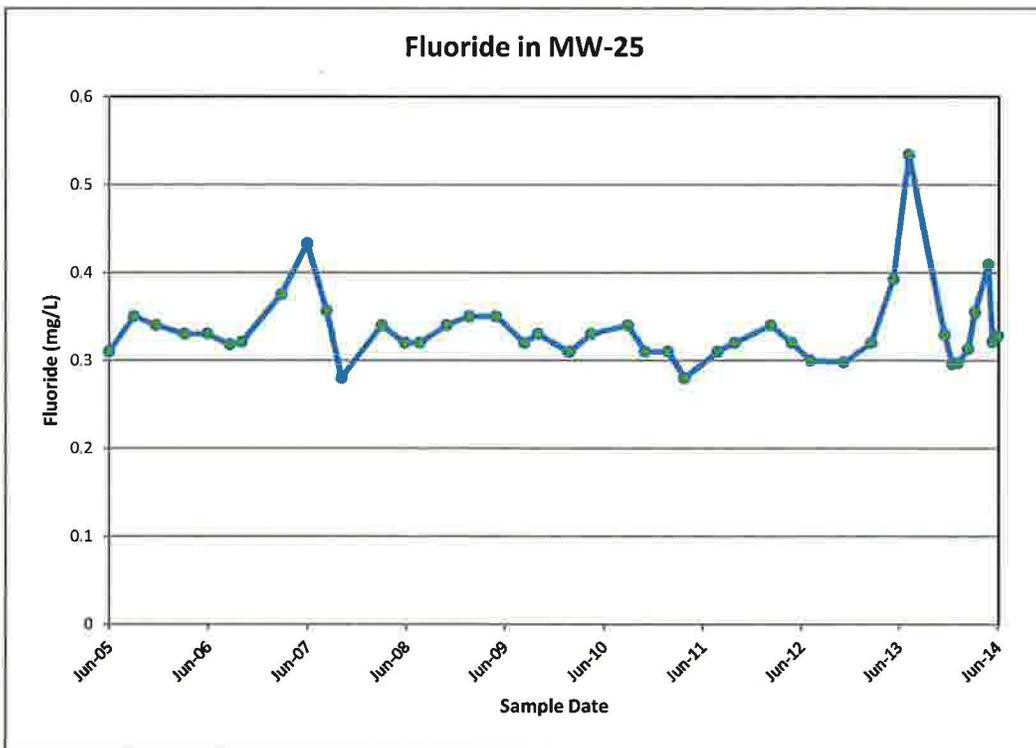
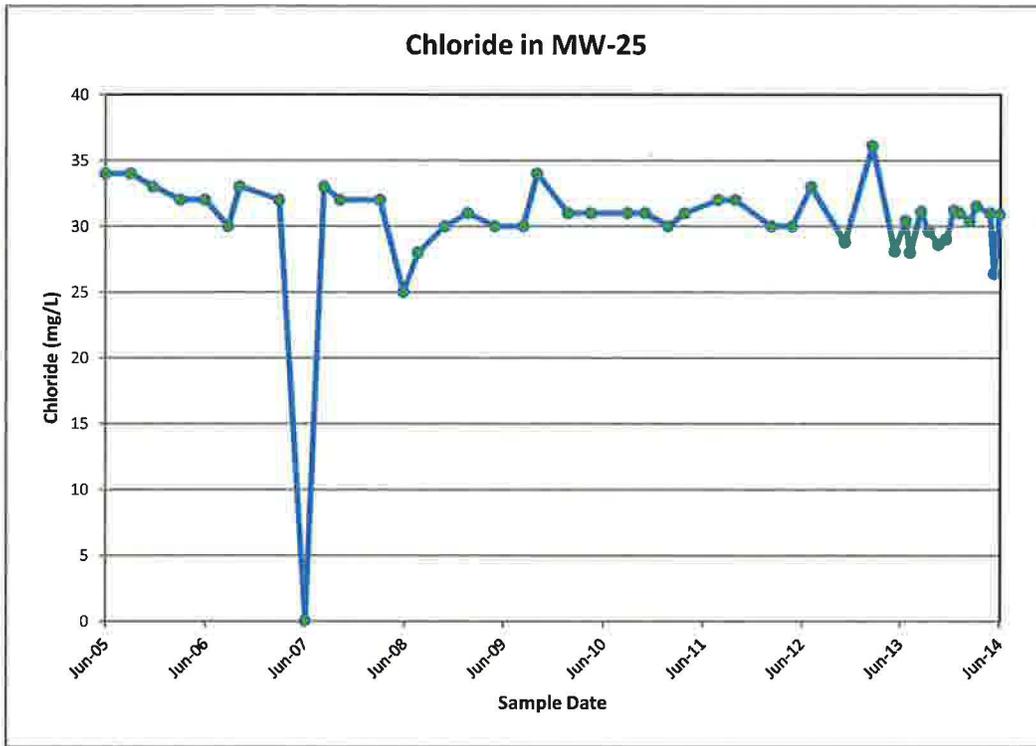


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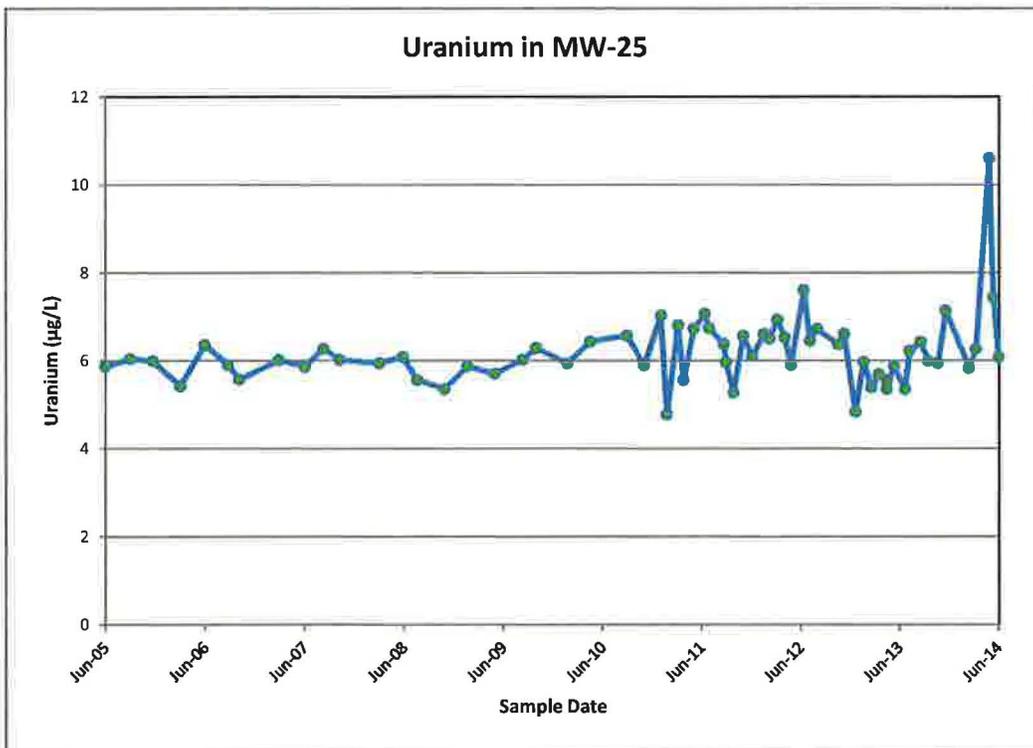
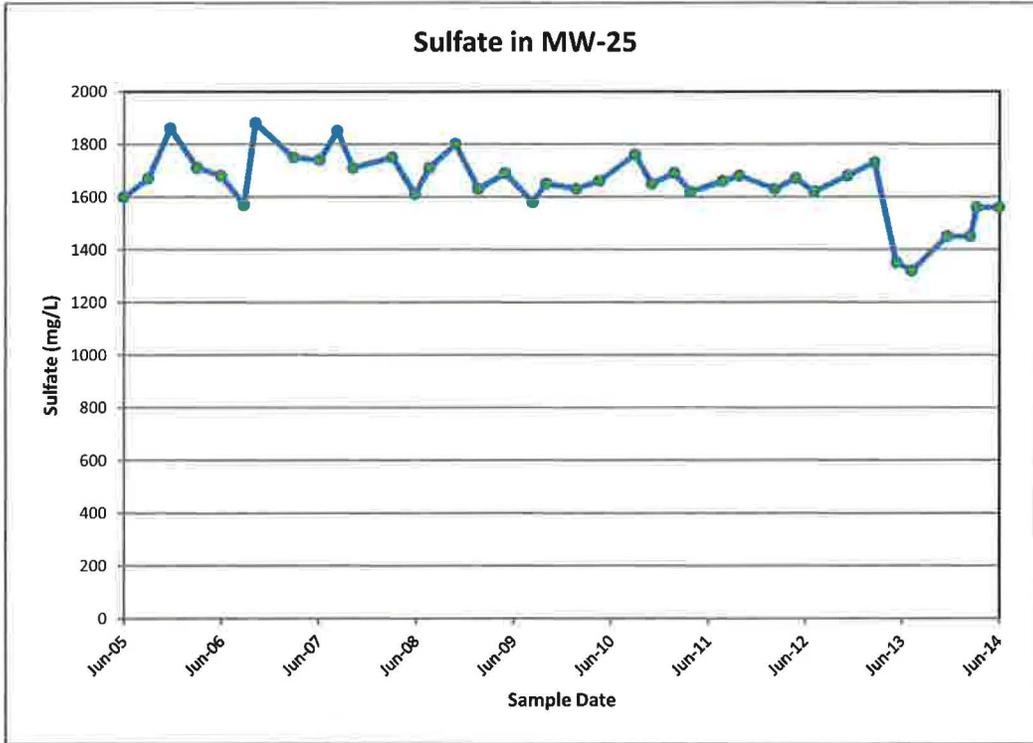
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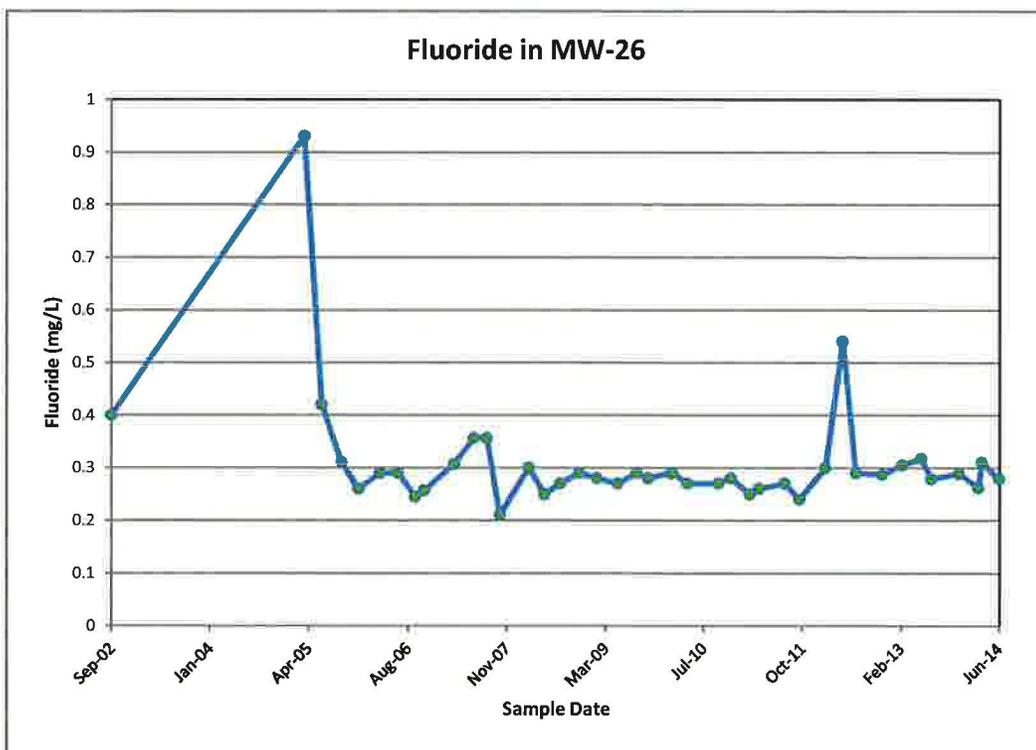
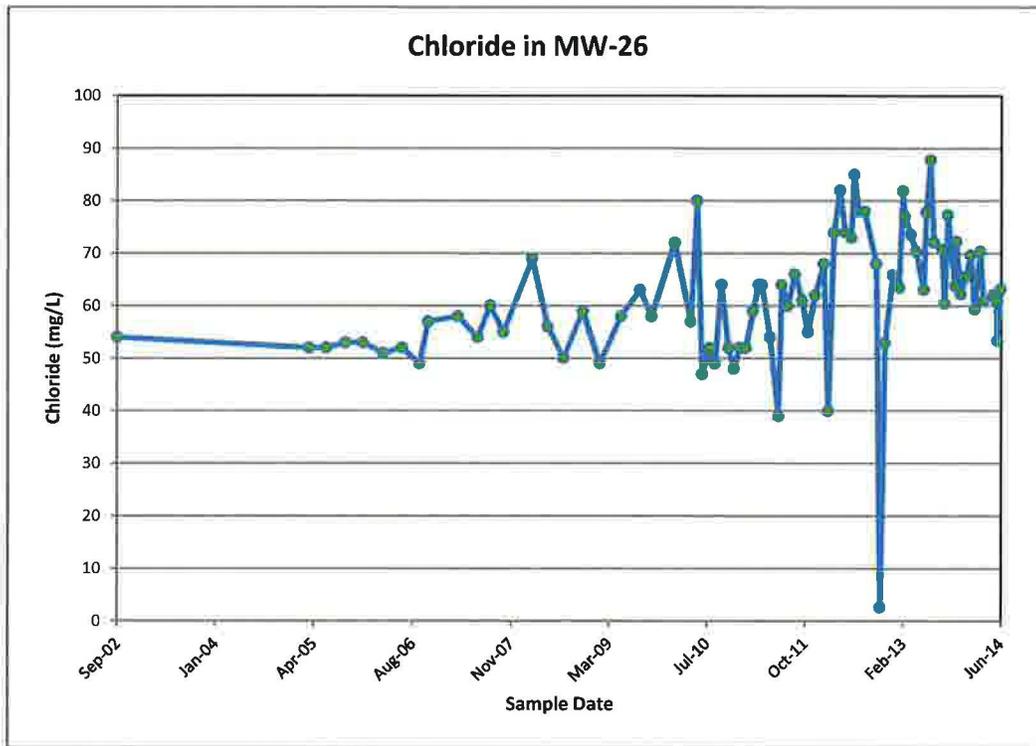
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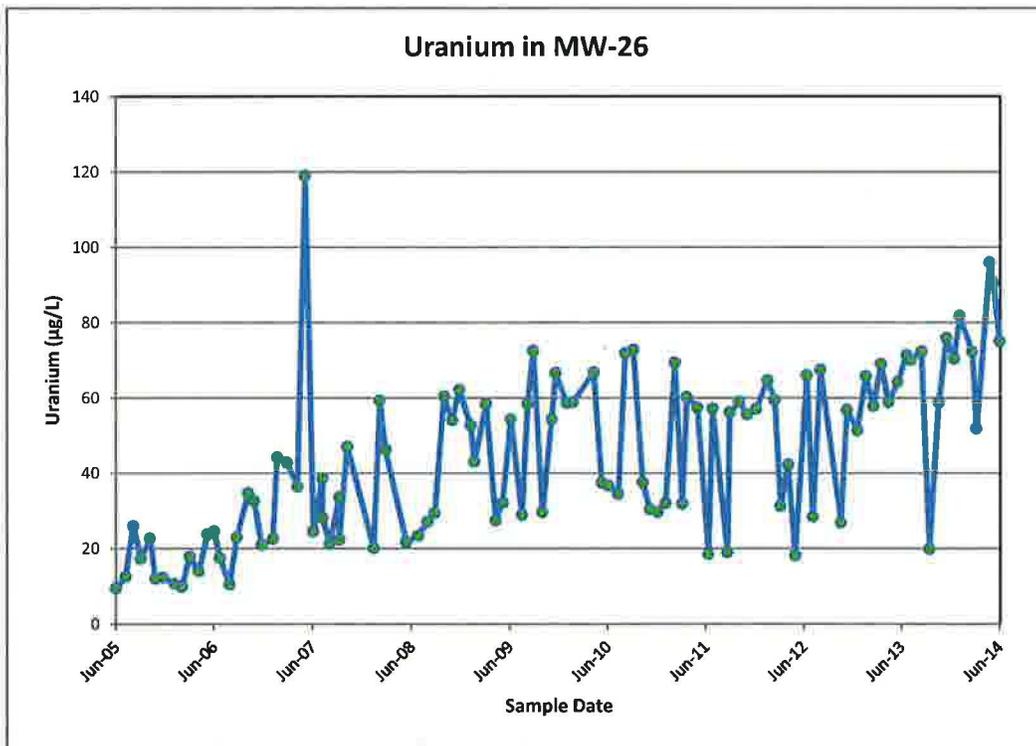
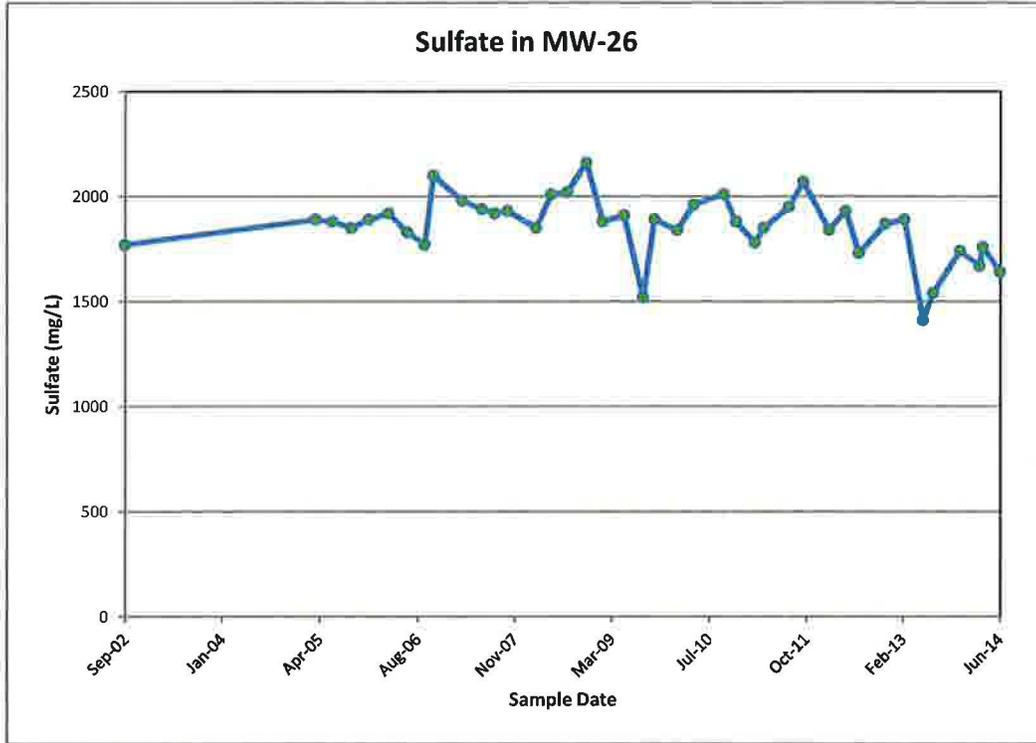
### Time concentration plots for MW-25



### Time concentration plots for MW-26



### Time concentration plots for MW-26

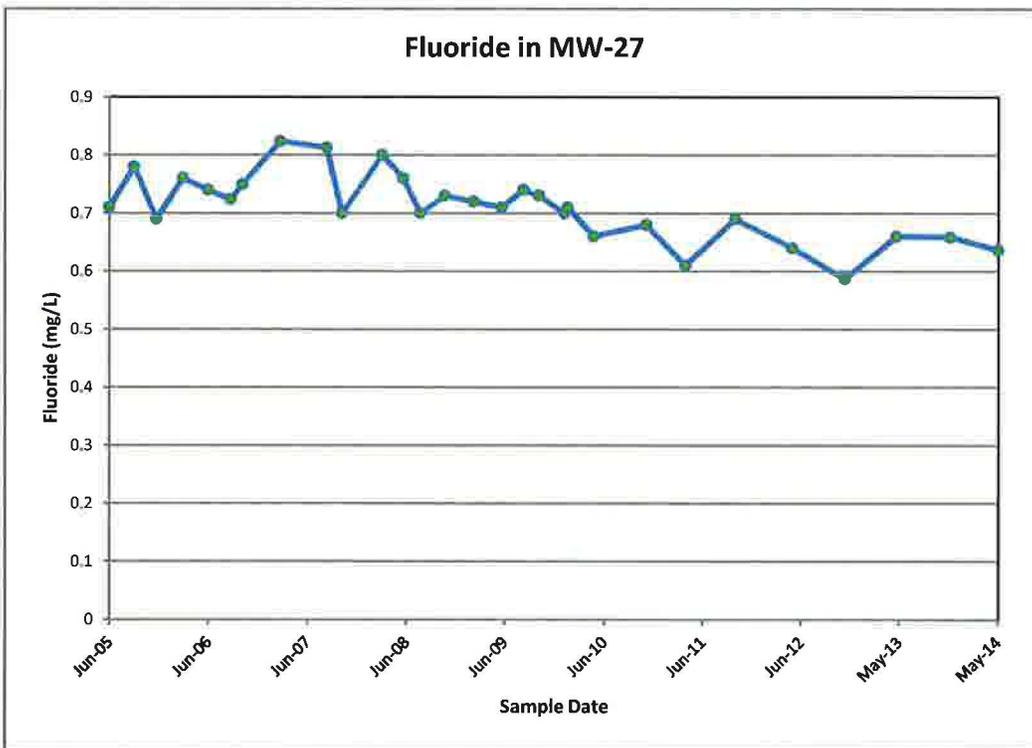
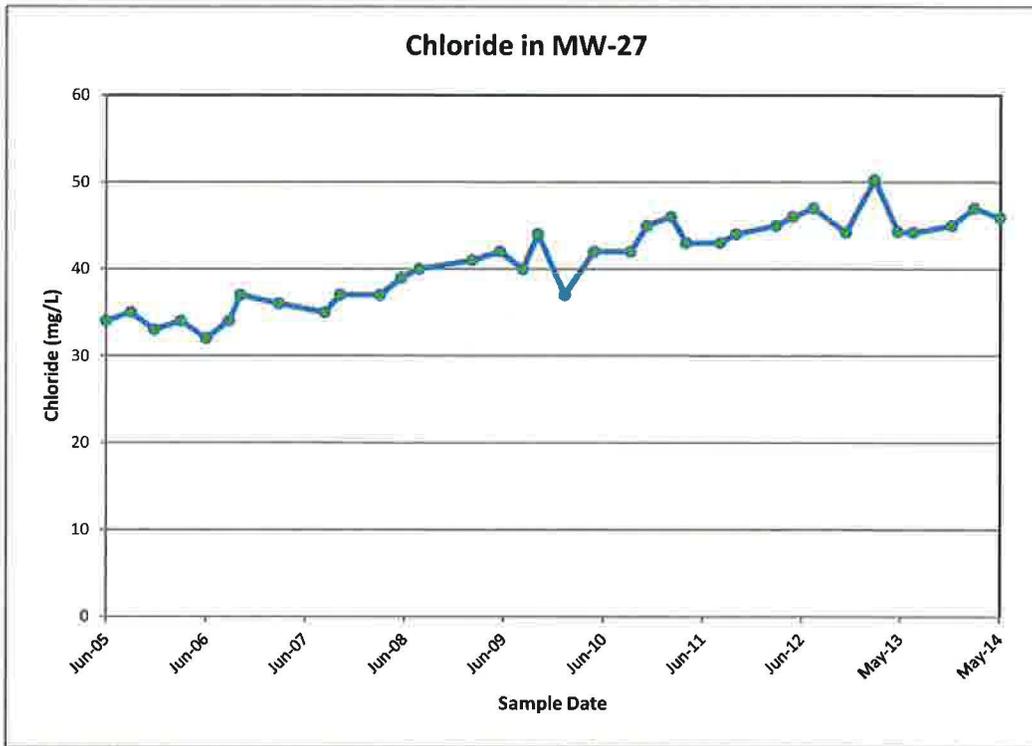


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- Detected Values
- Non-Detected Values

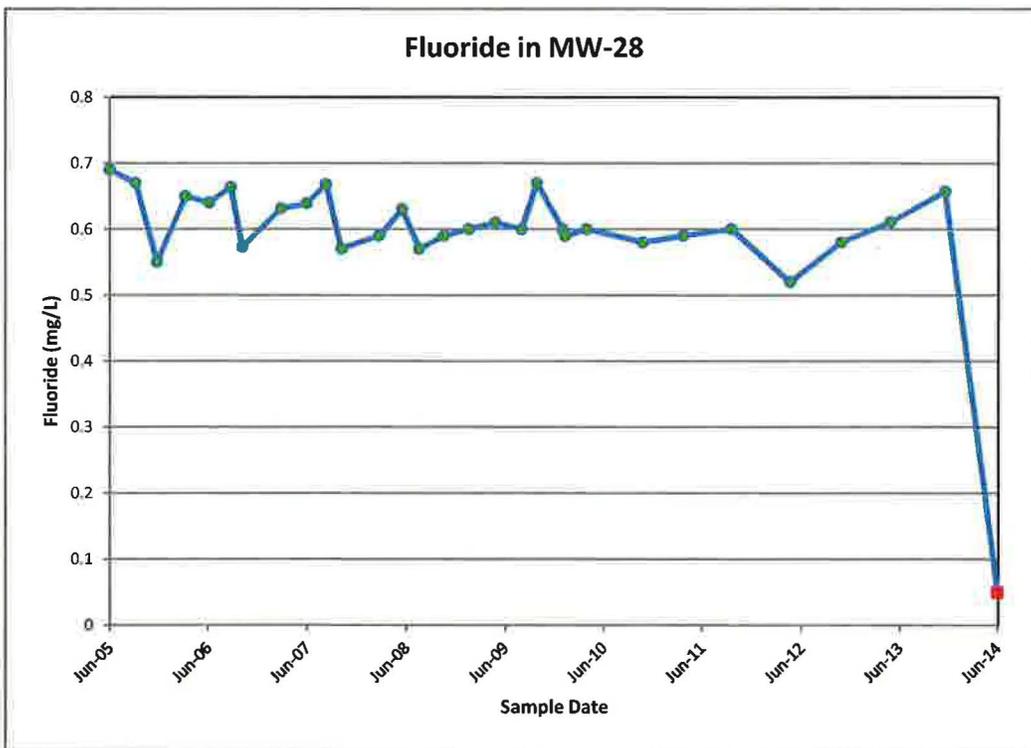
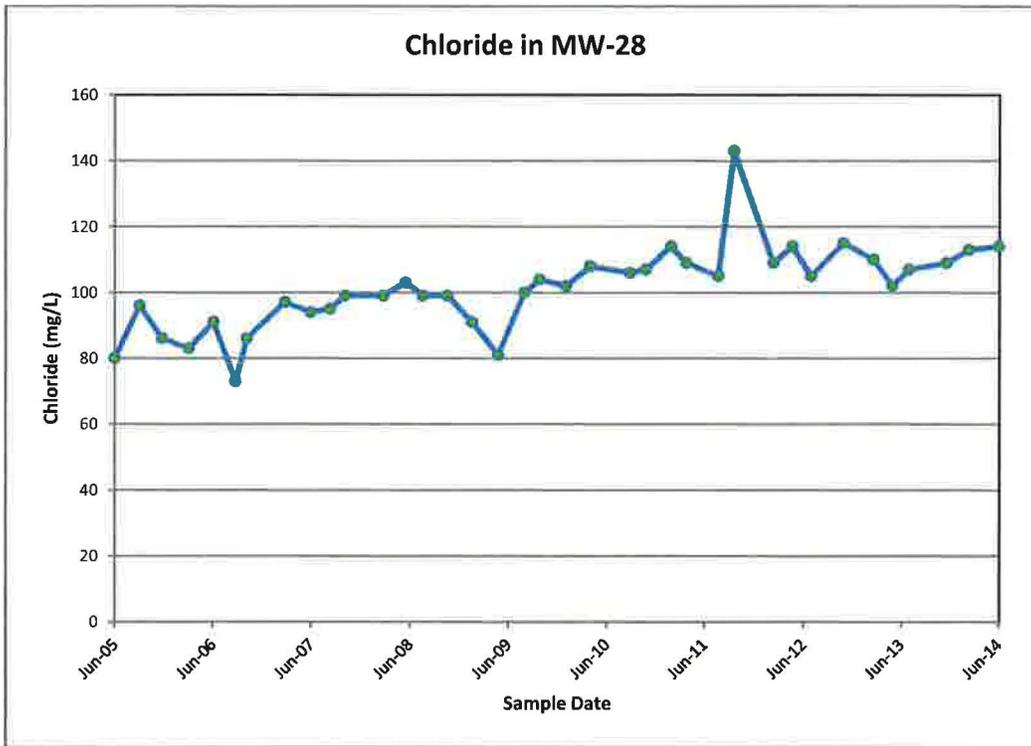


### Time concentration plots for MW-27





### Time concentration plots for MW-28

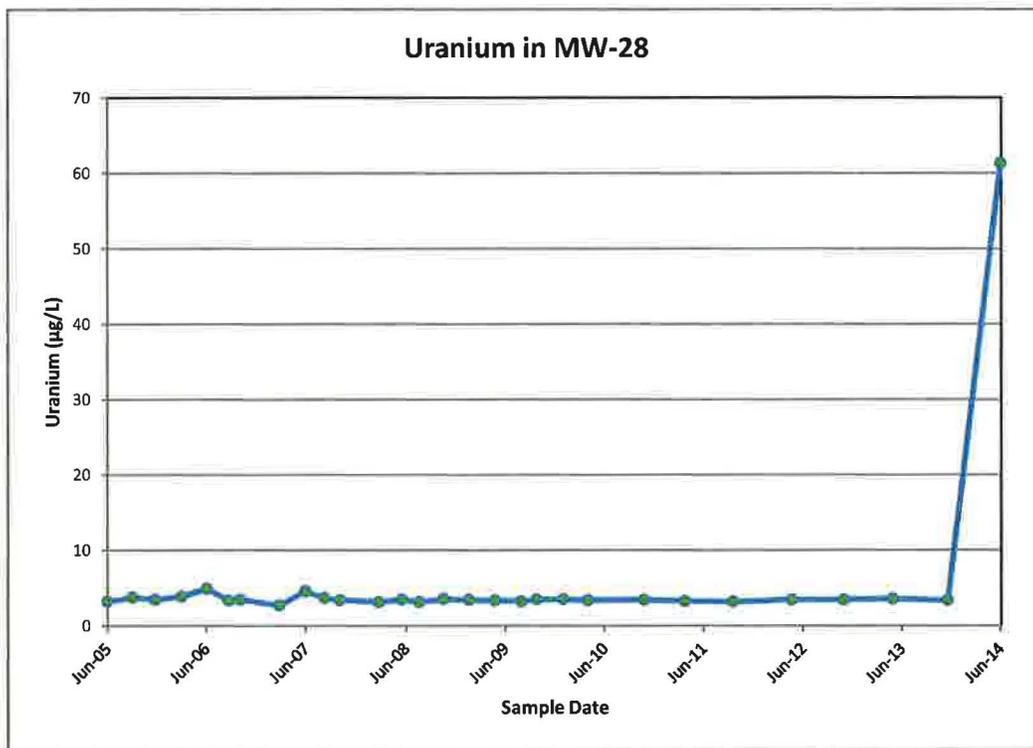
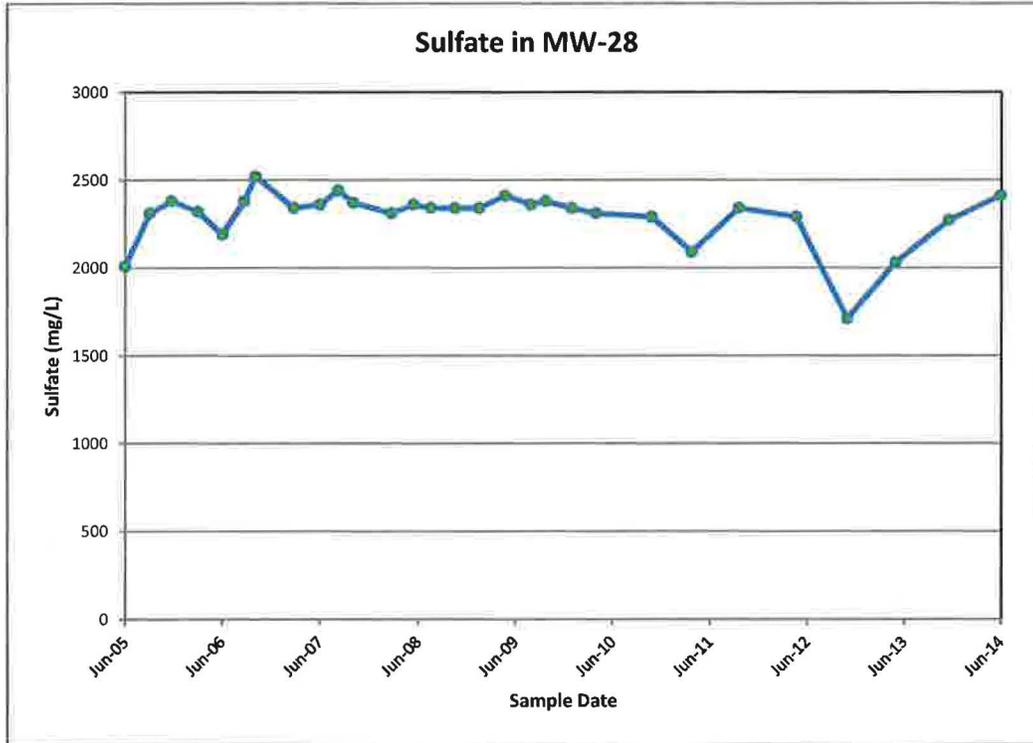


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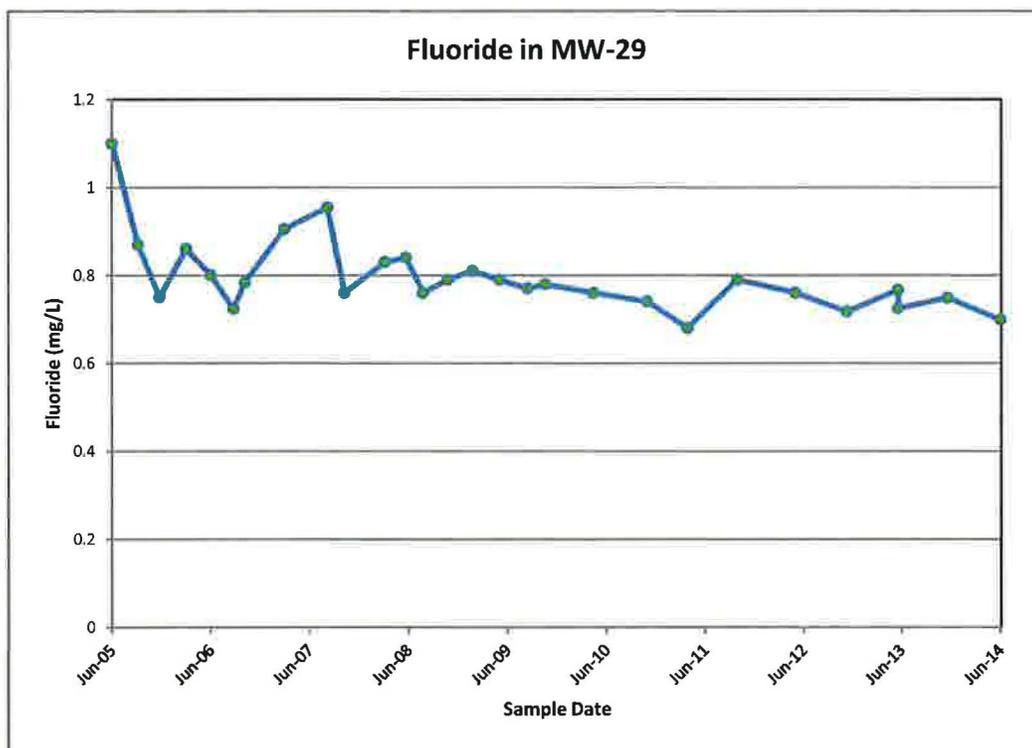
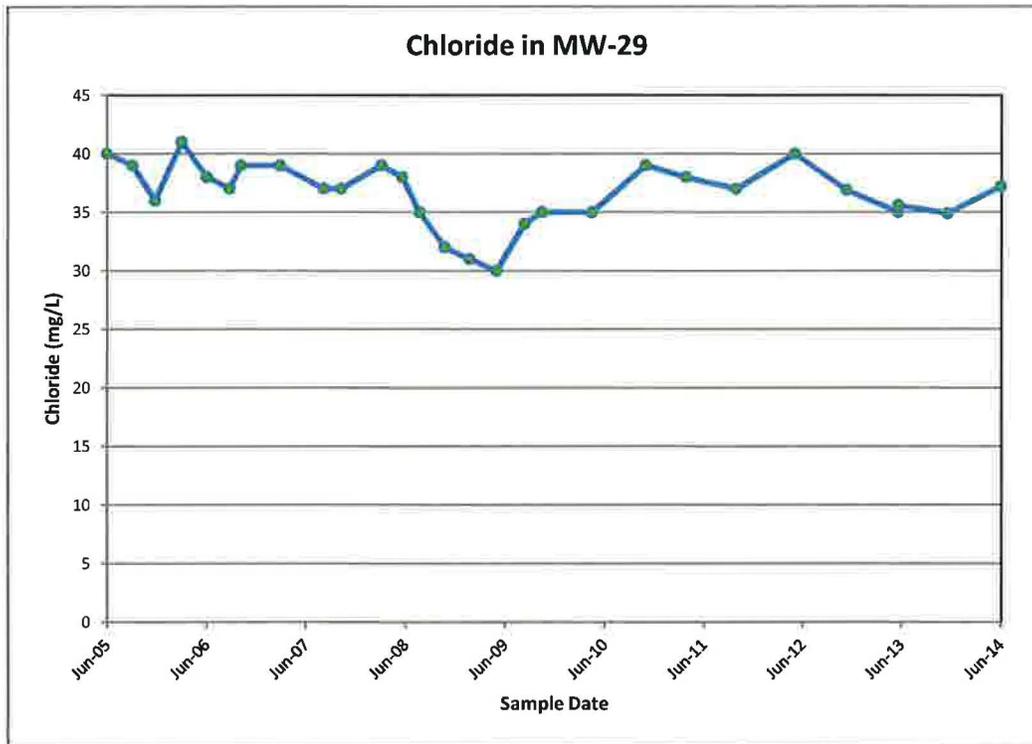
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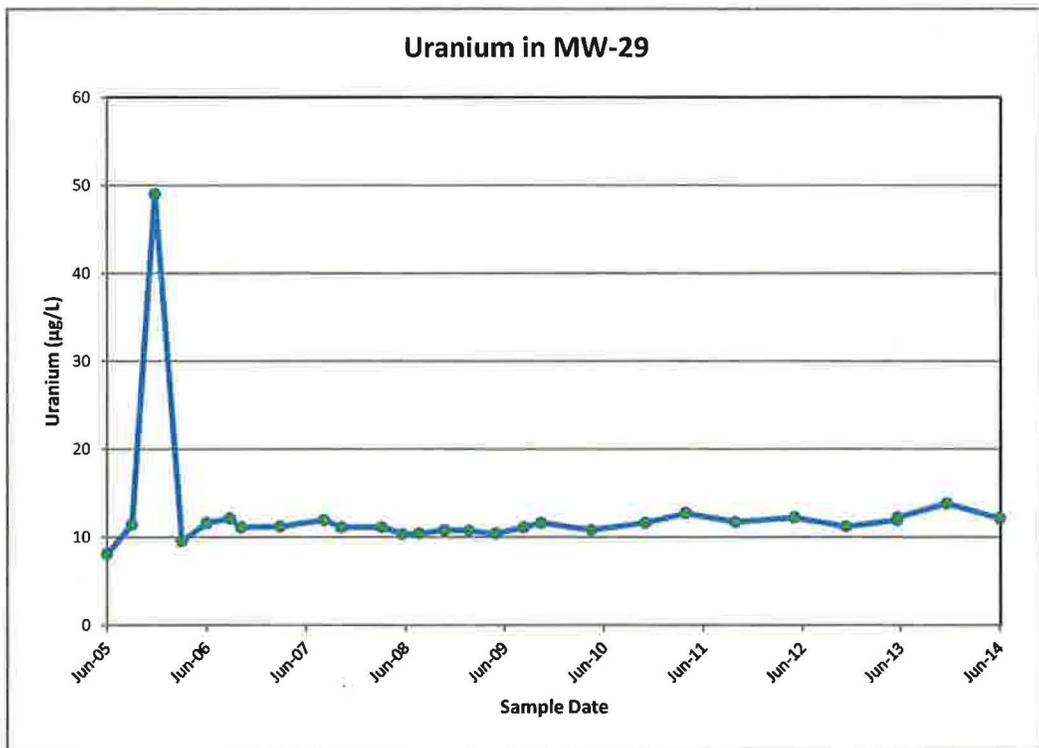
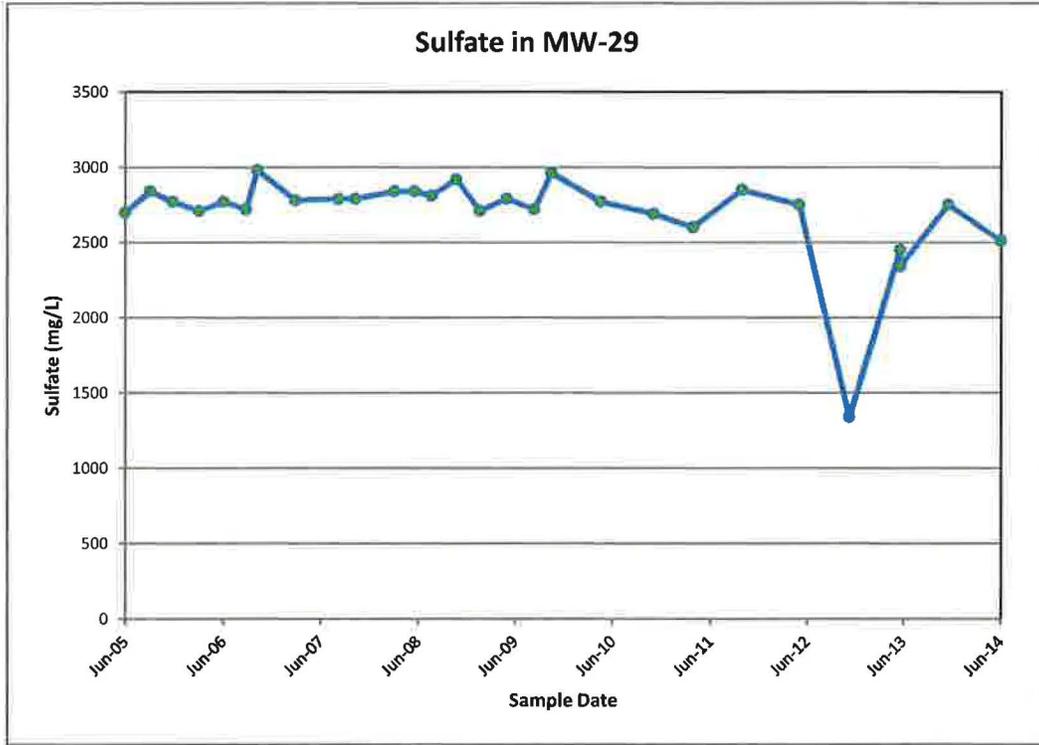
### Time concentration plots for MW-28



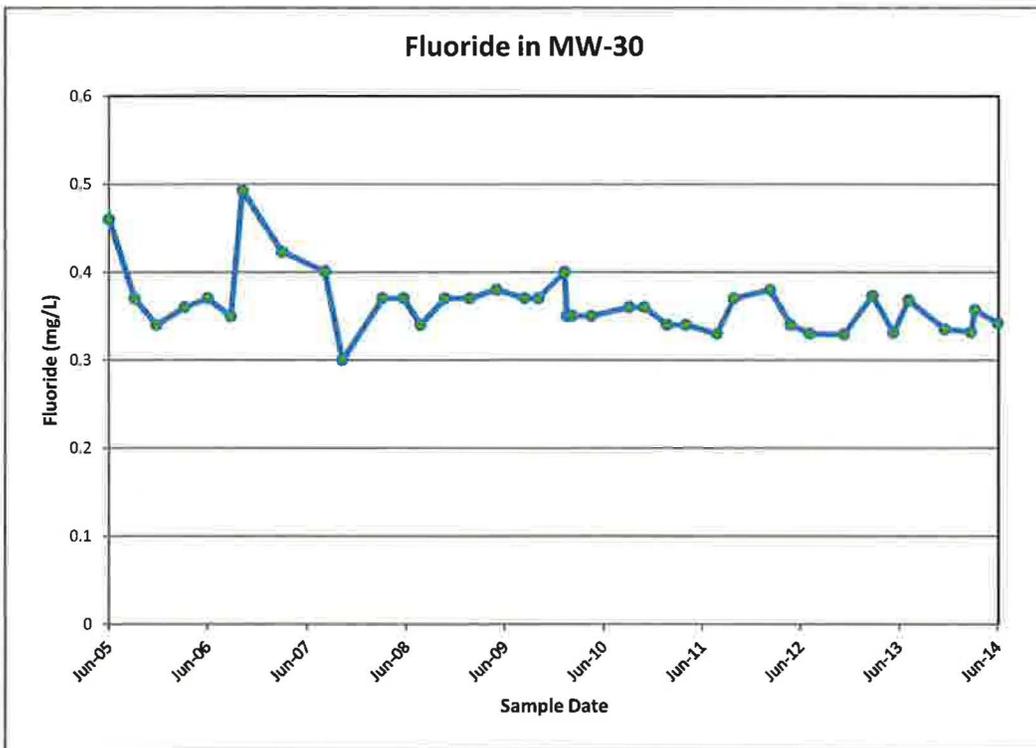
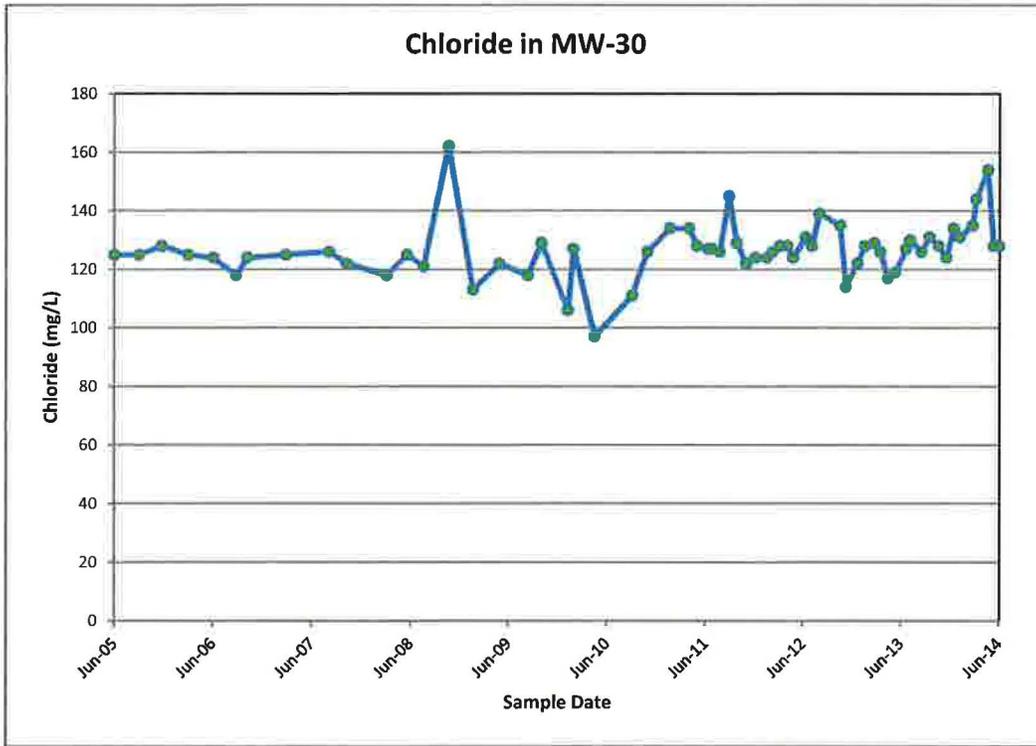
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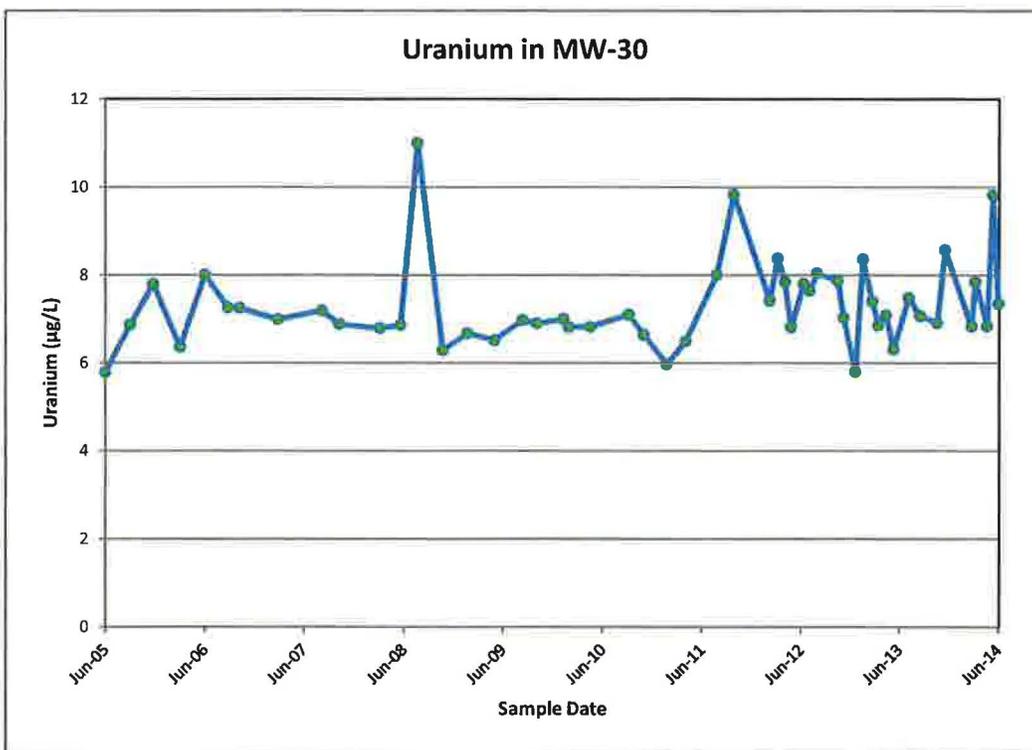
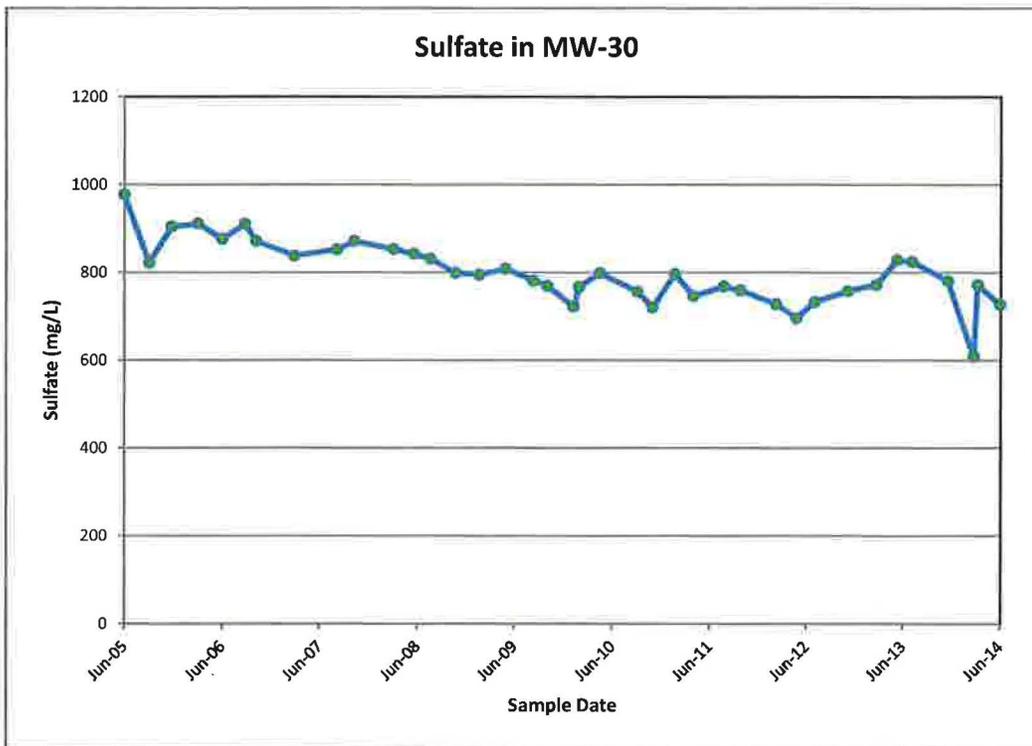
### Time concentration plots for MW-29



### Time concentration plots for MW-30

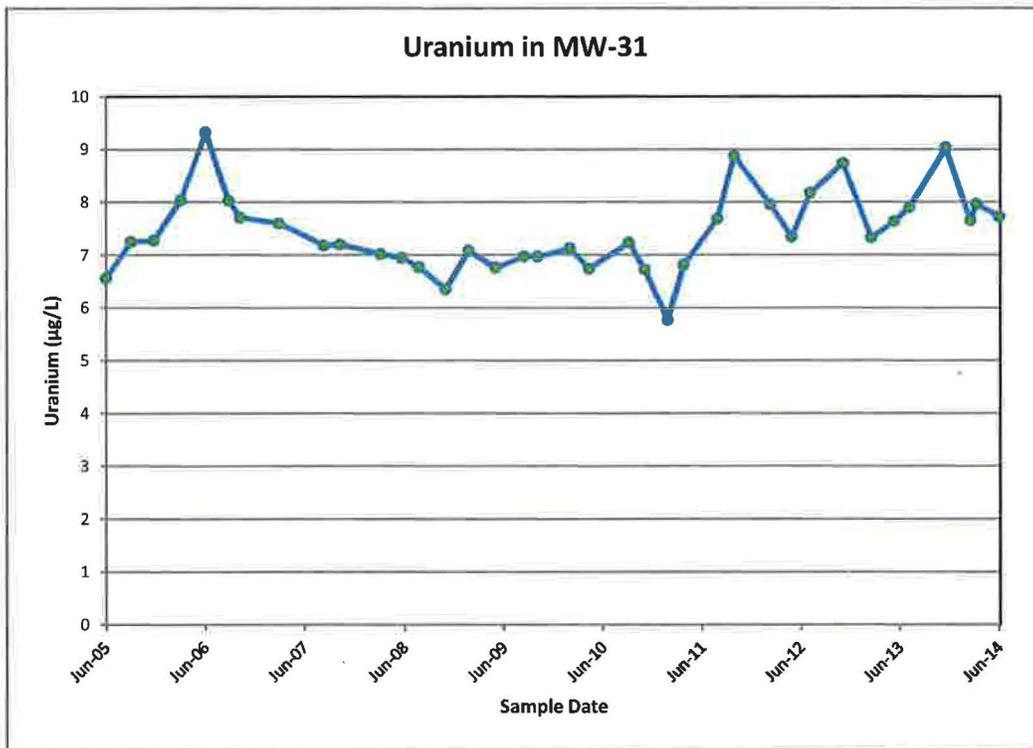
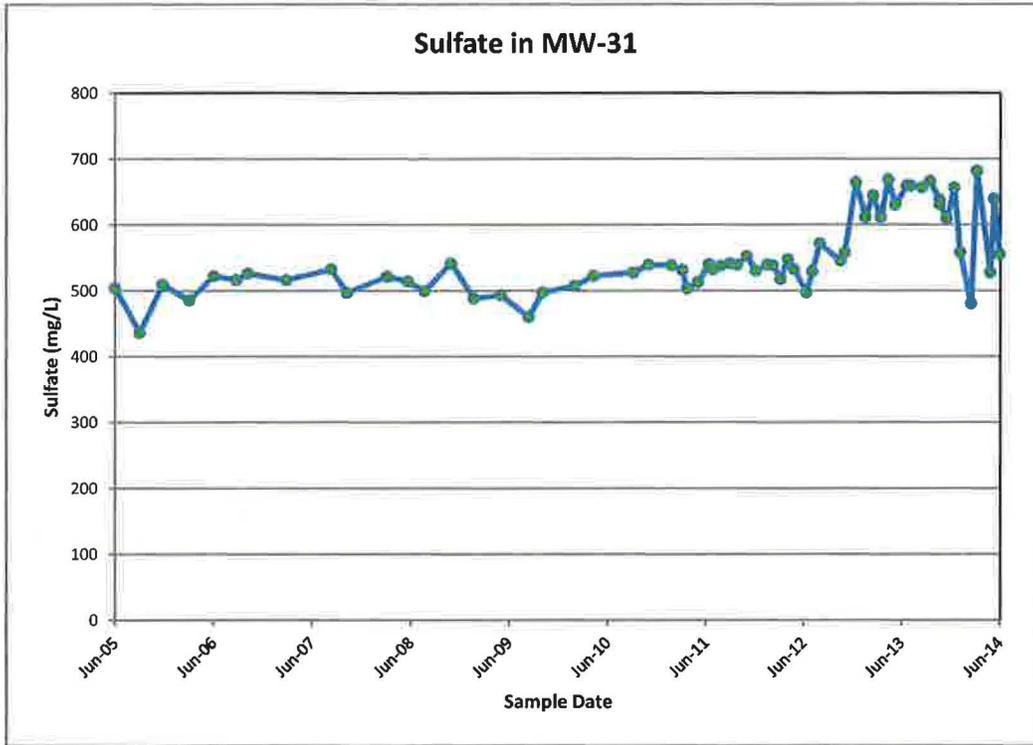


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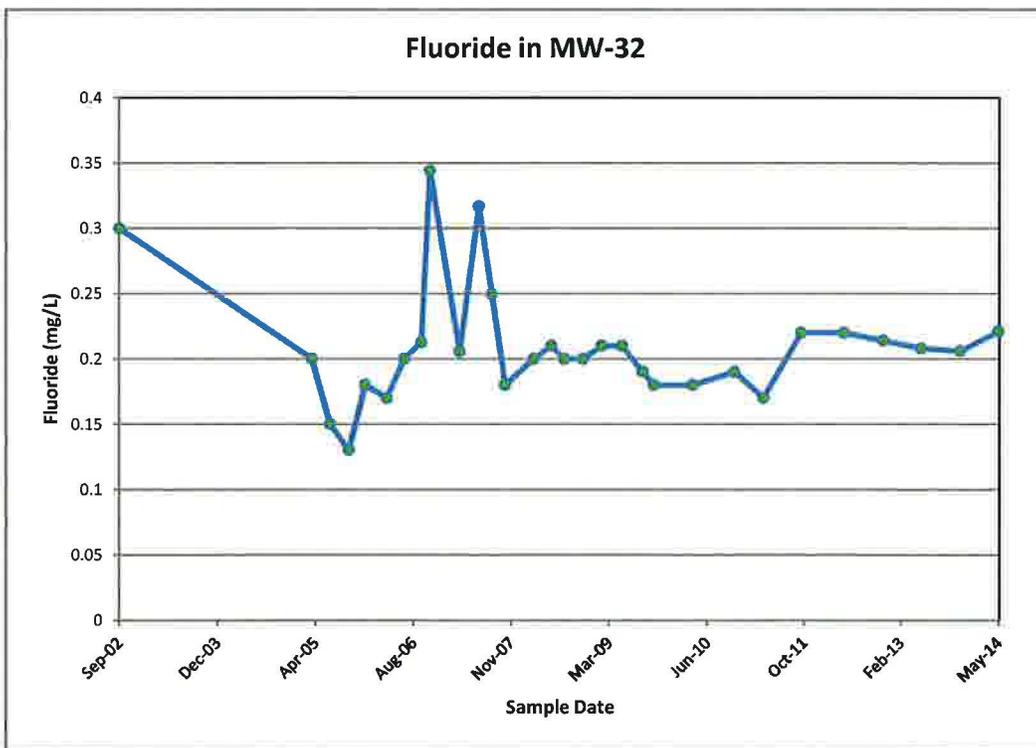
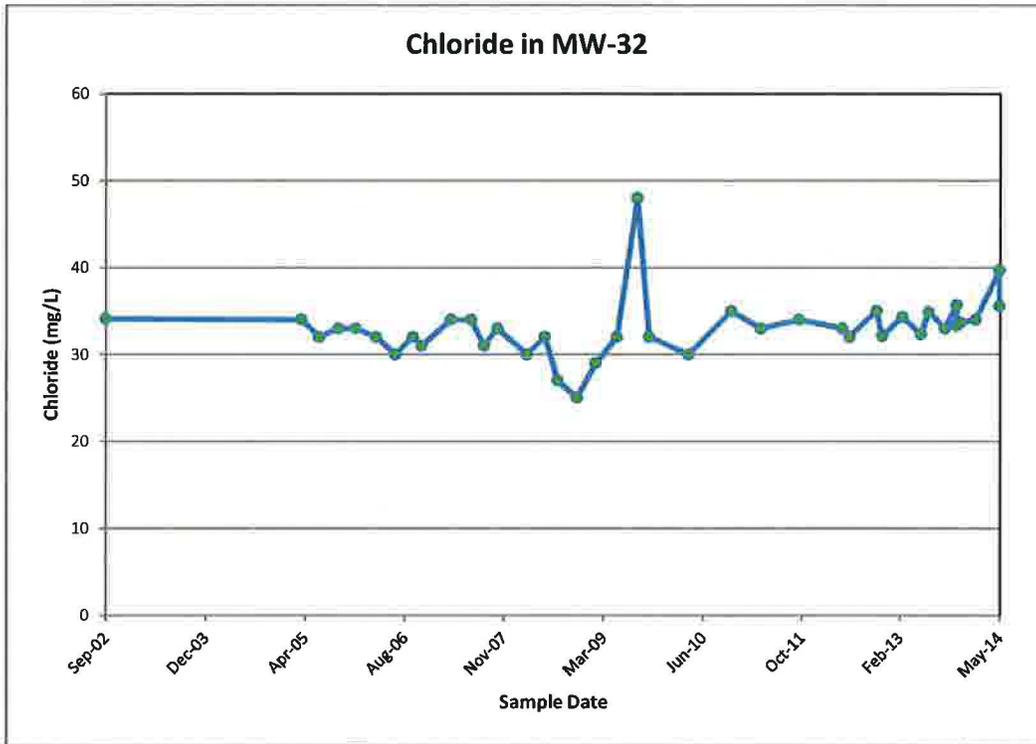




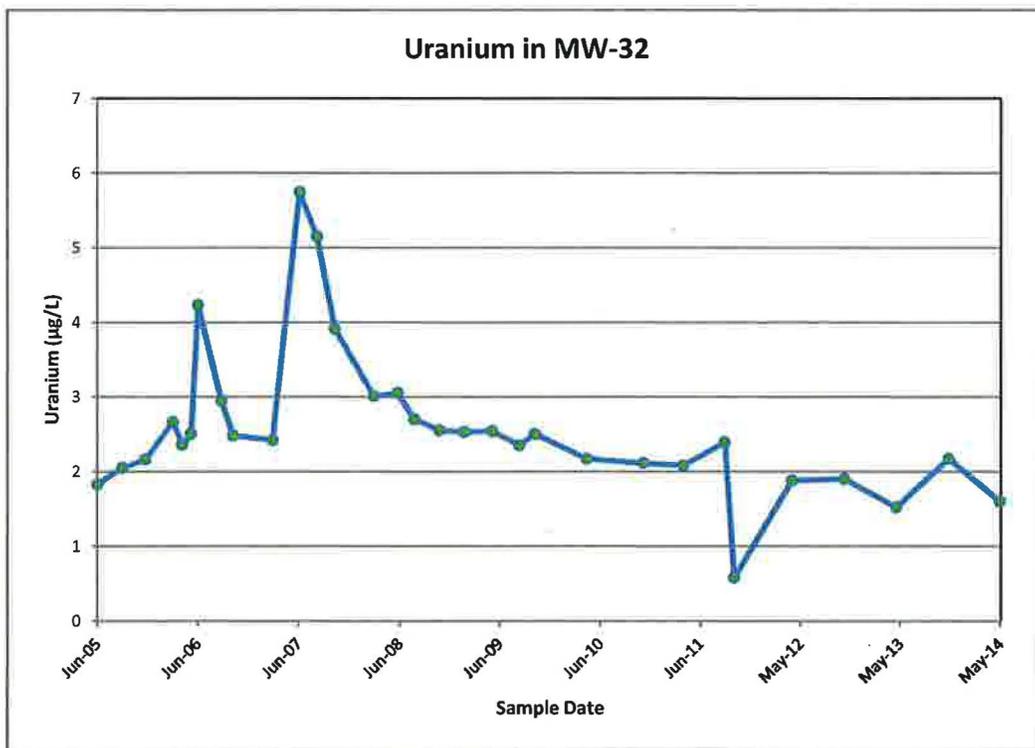
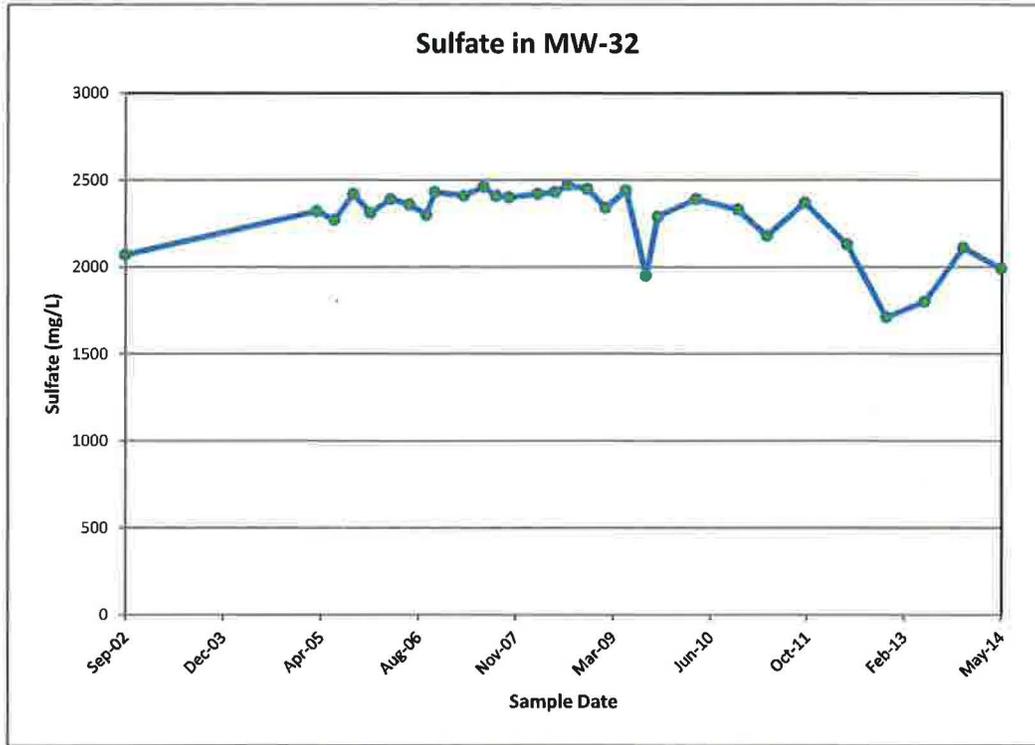
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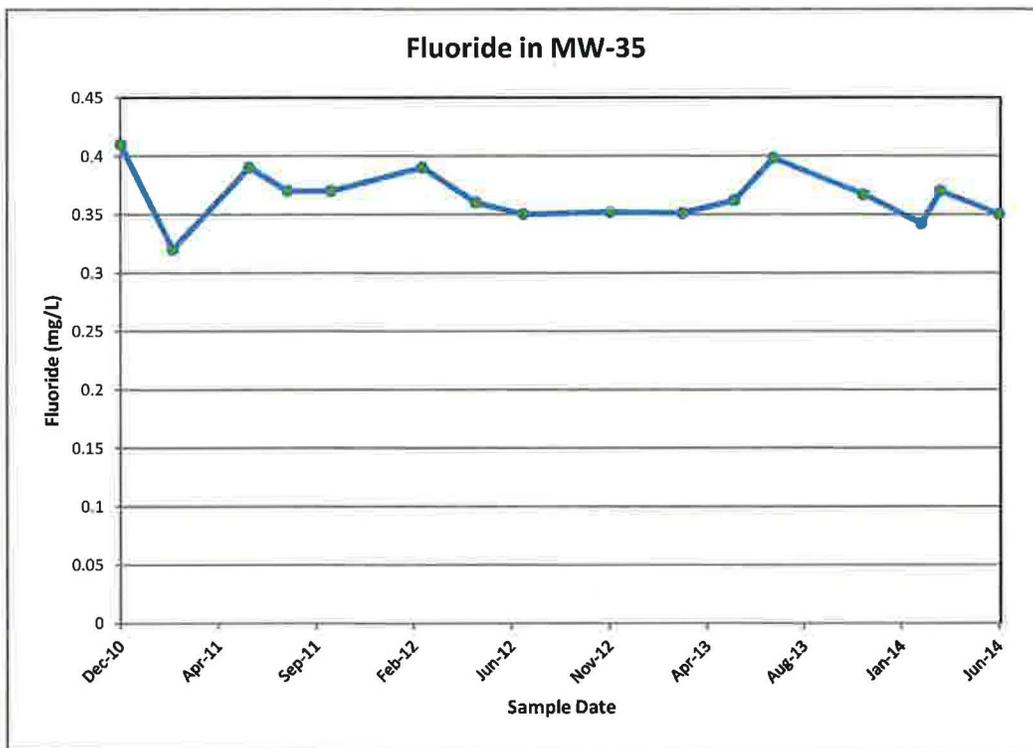
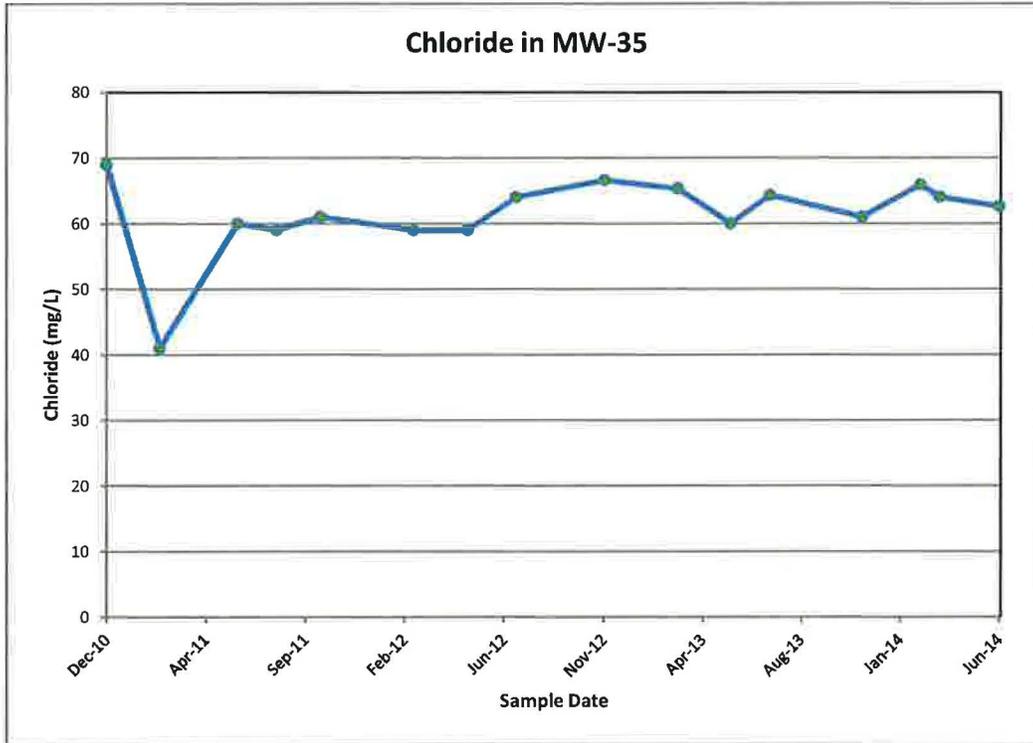
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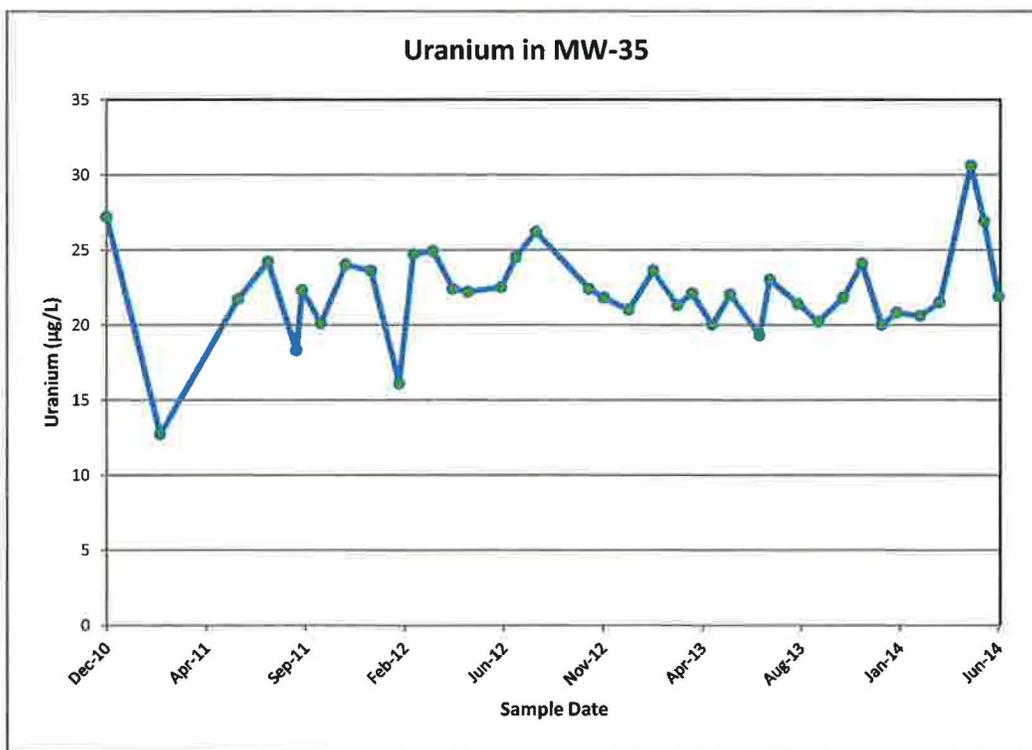
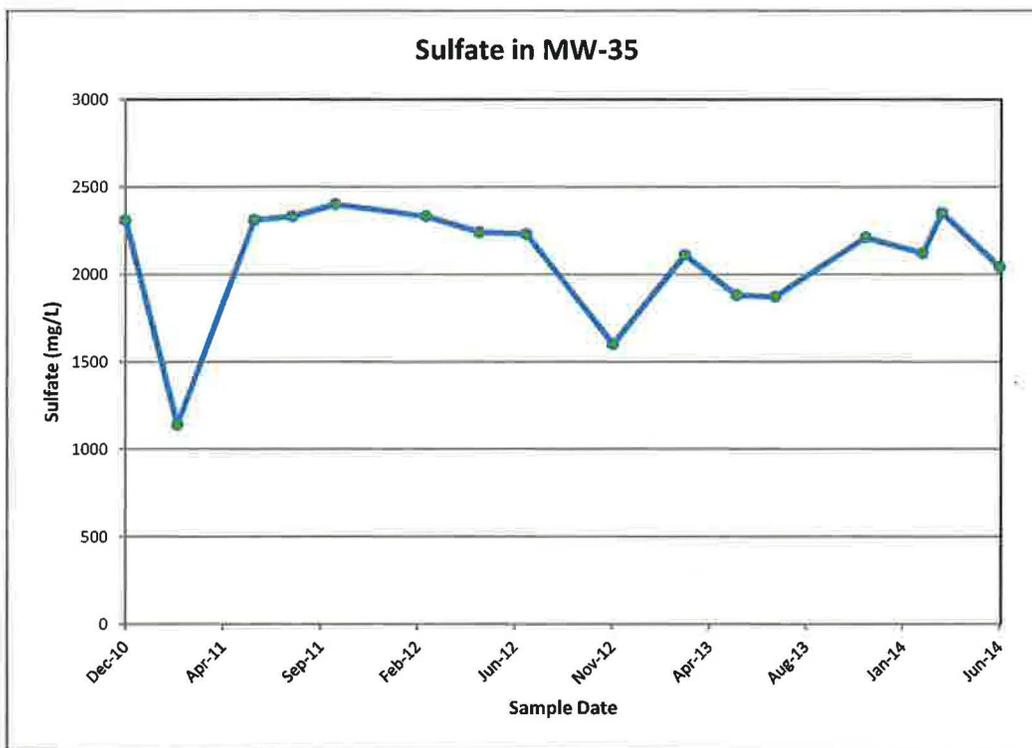
### Time concentration plots for MW-32



### Time concentration plots for MW-35



### Time concentration plots for MW-35

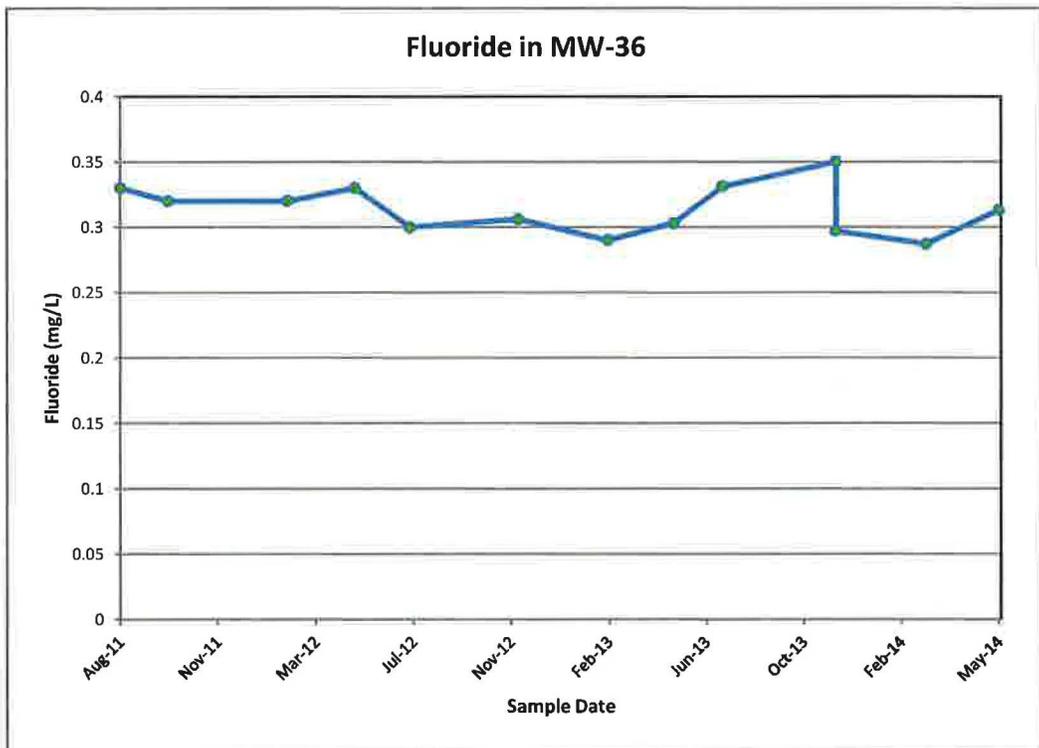
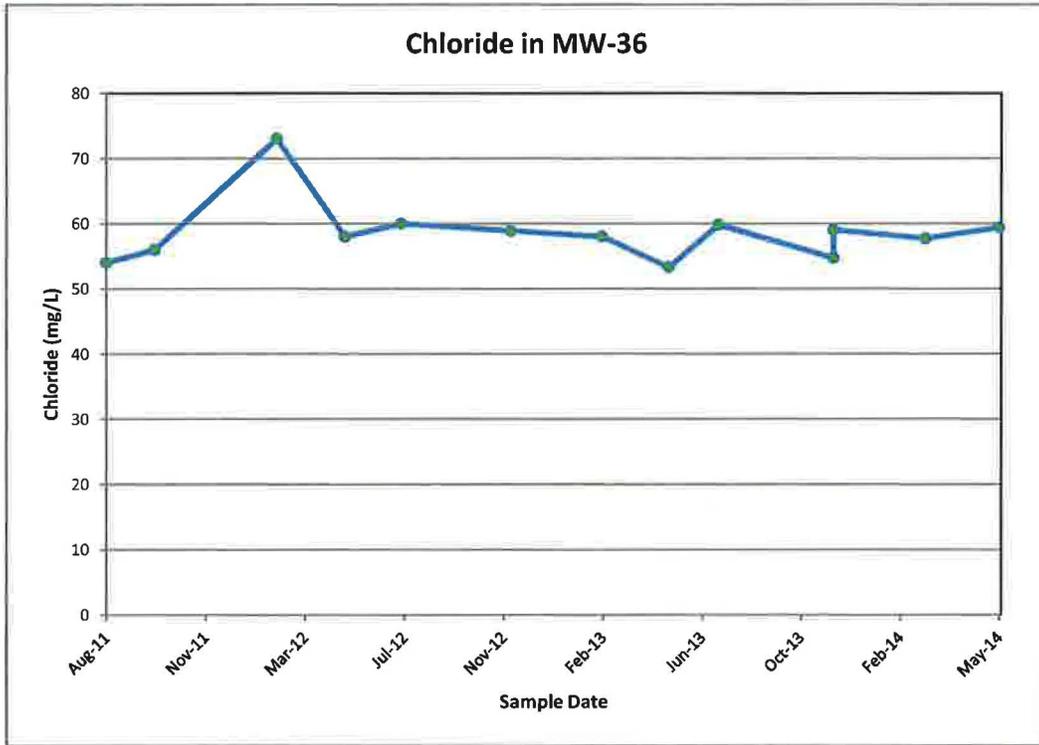


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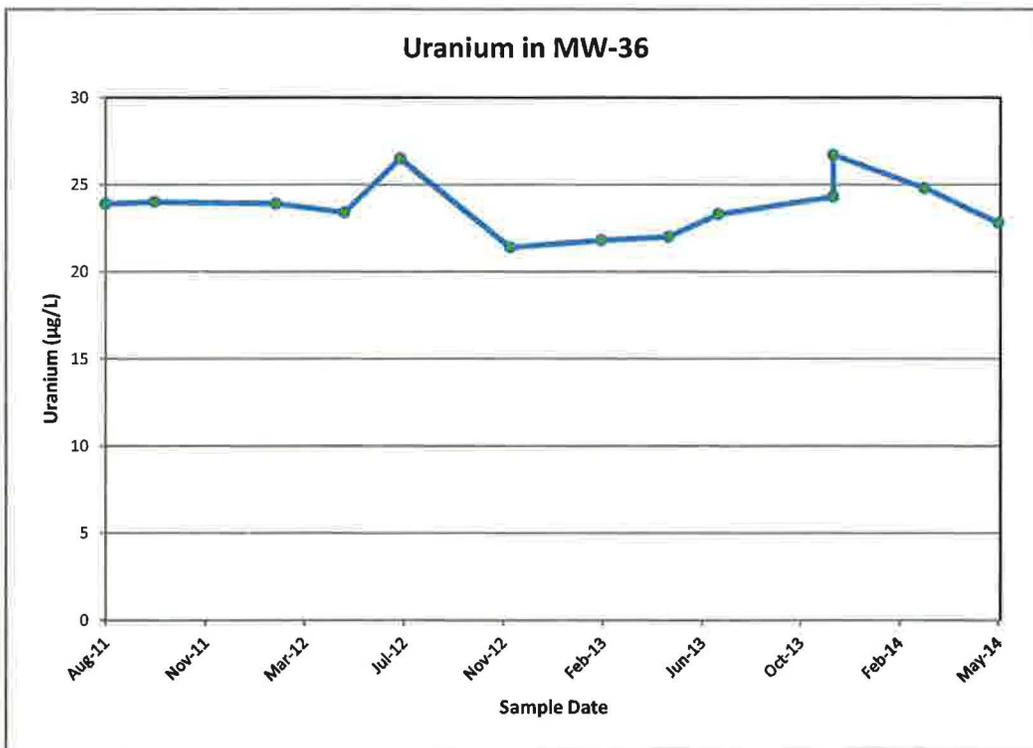
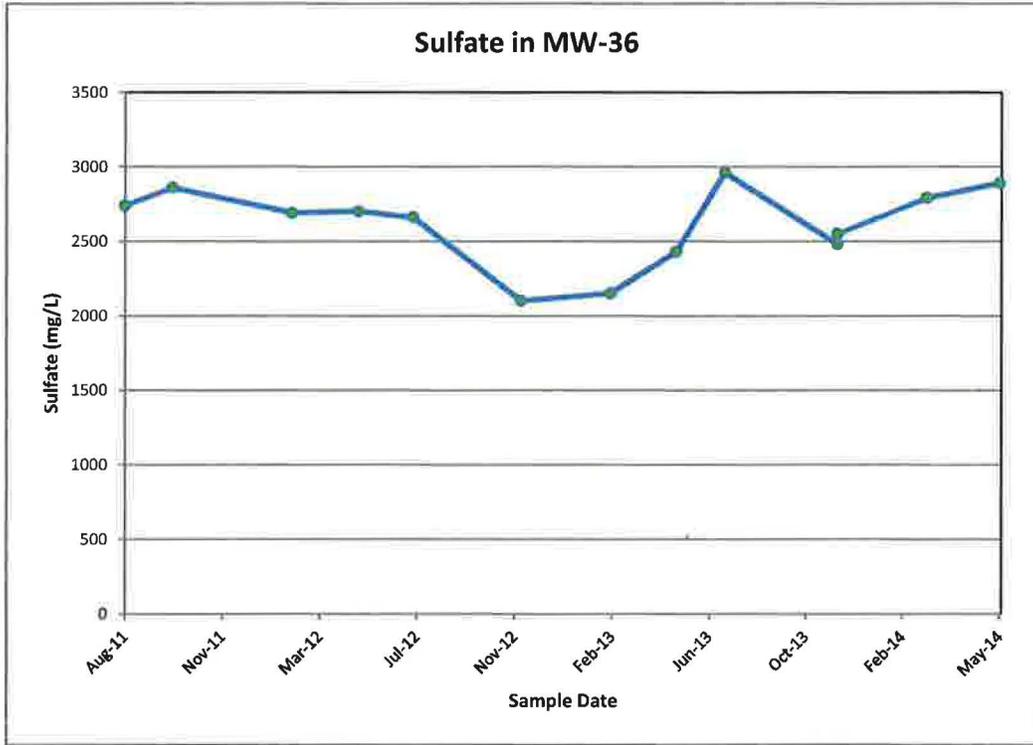
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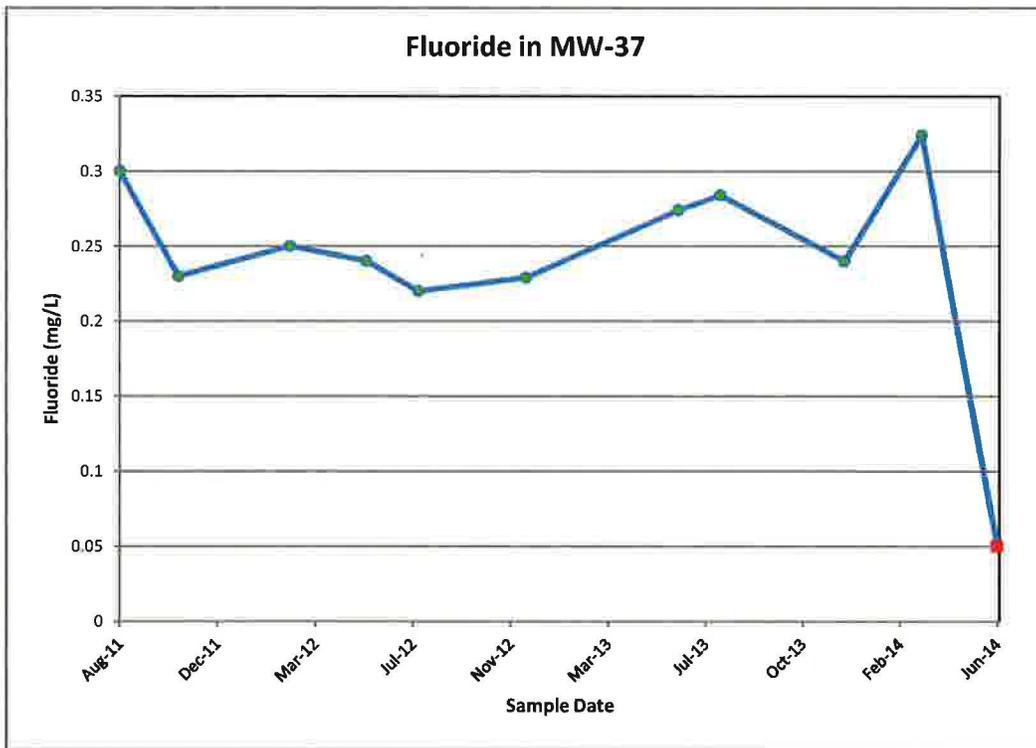
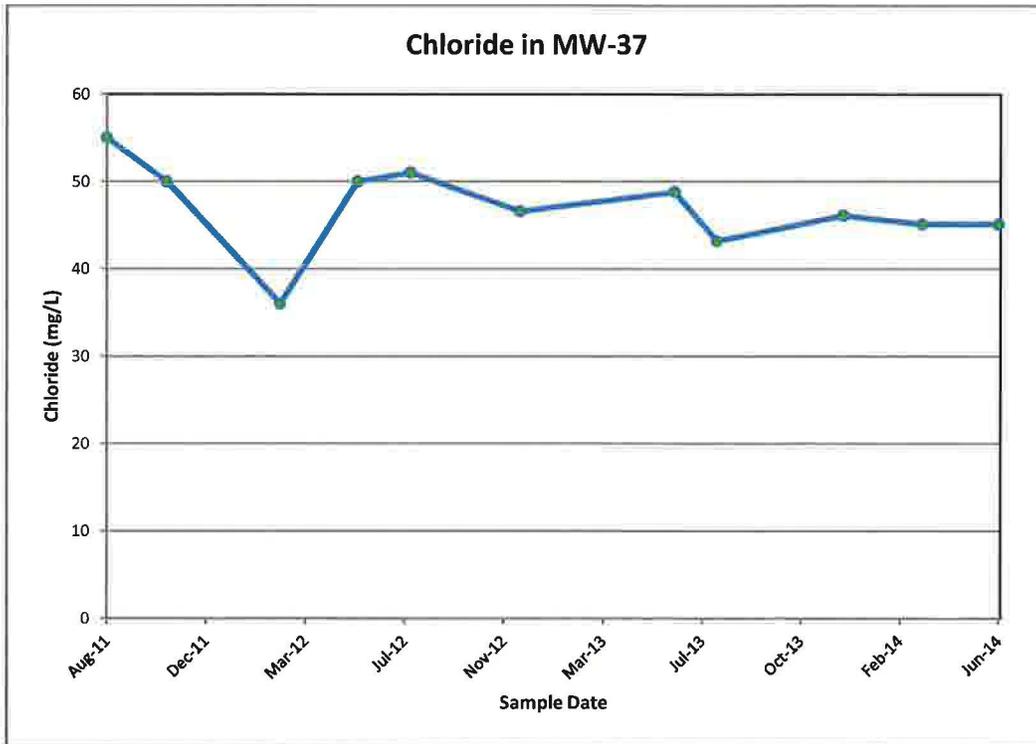
### Time concentration plots for MW-36



### Time concentration plots for MW-36



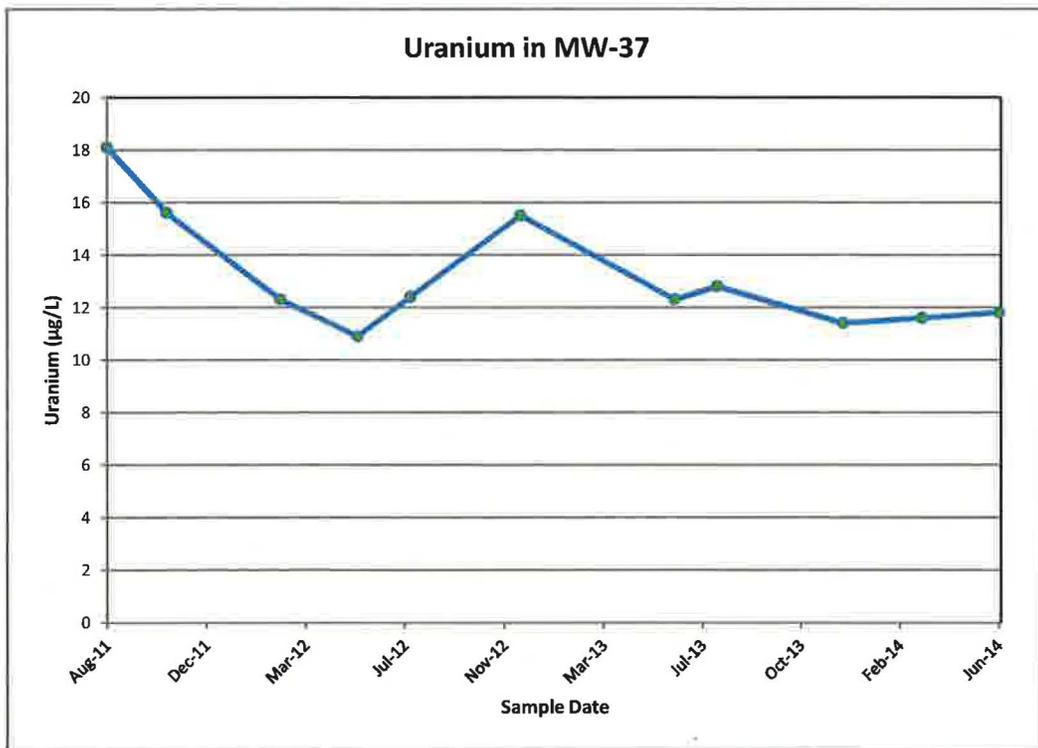
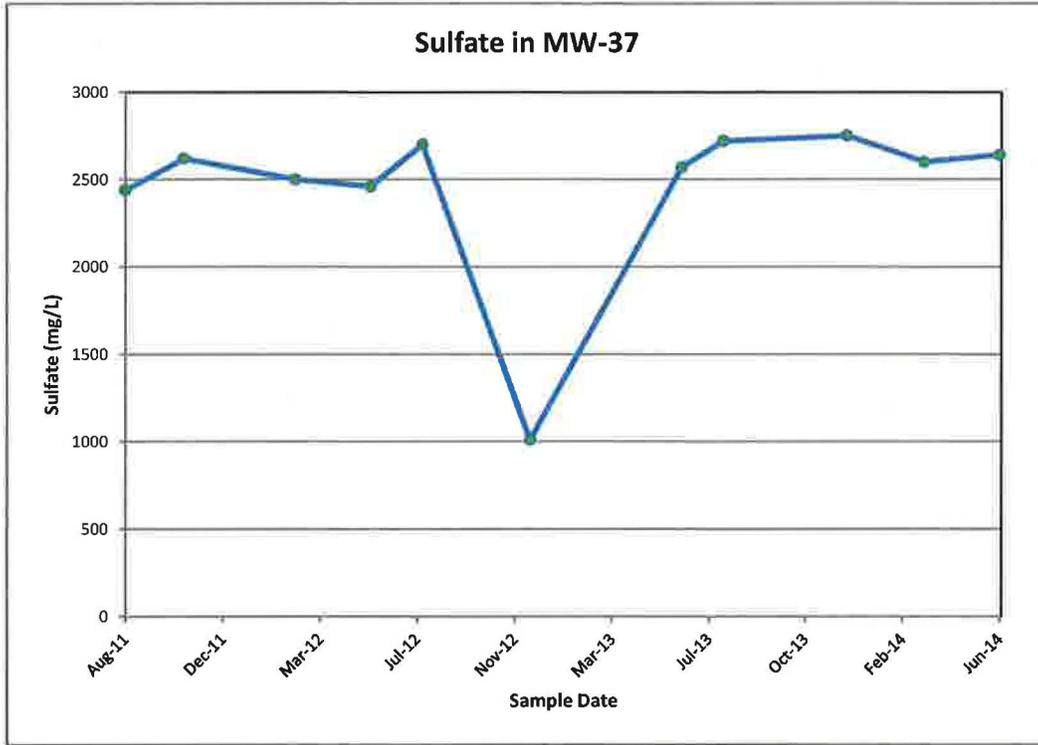
### Time concentration plots for MW-37



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● Detected Values  
■ Non-Detected Values

### Time concentration plots for MW-37



White Mesa Uranium Mill  
 Groundwater Monitoring Report  
 2nd Quarter 2014

● Detected Values  
 ■ Non-Detected Values



Tab J

CSV Transmittal Letter

## Kathy Weinel

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**From:** Kathy Weinel  
**Sent:** Friday, August 15, 2014 7:25 AM  
**To:** Rusty Lundberg  
**Cc:** 'Phil Goble'; Thomas Rushing; Harold Roberts; David Frydenlund; Jaime Massey; David Turk; Frank Filas, P.E; Scott Bakken; Dan Hillsten  
**Subject:** Transmittal of CSV Files White Mesa Mill 2014 Q2 Groundwater Monitoring  
**Attachments:** GW EDD Q2 2014.csv

Dear Mr. Lundberg,

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 2014, 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