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February 19, 2015

Sent VIA OVERNIGHT DELIVERY

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

**Re: Transmittal of 4th 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 4th 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 blue ink that reads 'Kathy Weinel'.

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

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

White Mesa Uranium Mill
Groundwater Monitoring Report

State of Utah
Groundwater Discharge Permit No. UGW370004

4th Quarter
(October through December)
2014

Prepared by:



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

February 19, 2015

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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 fourth 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, one resampling event was conducted. The December monthly sample for MW-26 was initially collected on December 10, 2014. The laboratory notified EFRI that all of the Volatile Organic Compounds (“VOC”) sample aliquots they had received were inadvertently spiked as quality control (“QC”) samples and no unspiked sample aliquot remained for the routine analysis. MW-26 was resampled for VOCs on December 15, 2014 and the sample was submitted for analysis. A duplicate sample and trip blank sample were also collected during the resample event and submitted for analysis. The December 10, 2014 aliquot and the associated trip blank were discarded and not analyzed.

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 contract analytical laboratories: GEL Laboratories, Inc. ("GEL"), Chemtech-Ford Laboratories ("CTF") 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/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 this quarter's 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 February 5, 2015. Table 3 summarizes the results of the accelerated sampling program from first quarter 2010 through the current quarter.

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 February 5, 2015 for this quarter’s 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.

MW-28

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

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

Per the GWDP, EFRI began accelerated monitoring in third quarter 2014 at MW-28 for those three constituents. The fourth quarter 2014 MW-28 results for vanadium and cadmium are below the GWCLs and no further action except accelerated monitoring of those constituents is required. The uranium result remained above the GWCL in the fourth quarter 2014. Part I.G.4 c) of the GWDP requires a Plan and Time Schedule for constituents exceeding their GWCL in two consecutive monitoring periods. A Plan and Time Schedule was submitted for uranium in MW-28 on December 4, 2014 as required. The Plan and Time Schedule is included in Tab K. The Plan and Time Schedule specified that an assessment of the uranium results will be completed after the first quarter 2015 sampling event. If the uranium results continue to exceed the GWCL, EFRI will perform a video inspection of the interior of MW-28 to investigate the possibility of additional physical damage to the well structure that may be causing the elevated uranium results. Further actions will be determined after the video inspection based on the results of any such inspection.

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. An additional duplicate for VOCs only was collected in December

in association with the resample of MW-26. 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 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, MW-23, and MW-24 were purged to dryness after 2 casing volumes were removed and the low yield sampling procedures were used for the collection of field parameters. Stabilization of pH, conductivity and temperature were within the 10% RPD required by QAP, Revision 7.2 for wells MW-03A, MW-23, and MW-24.

Additionally, two casing volumes were not purged from MW-26, prior to sampling because MW-26 is a continuously pumped well. If a well is continuously pumped, it is pumped on a set schedule per the remediation plan and is considered sufficiently

evacuated to immediately collect a sample; however, if a pumping well has been out of service for 48 hours or more, EFRI follows the purging requirements outlined in Attachment 2-3 of the QAP.

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

- Turbidity measurements were less than 5 NTU for the quarterly and semi-annual wells except MW-18, MW-19, MW-25, and MW-29. 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 and MW-31 in both the October monthly event. As previously noted, the QAP does not require that turbidity be less than 5 NTU. Turbidity measurements prior to sampling were within a 10% RPD for the accelerated sampling wells

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

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

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

3.4.2 Holding Time Evaluation

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

3.4.3 Receipt Temperature Evaluation

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

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

3.4.4 Analytical Method Checklist

The analytical methods reported by both laboratories were checked against the required methods specified in the QAP. Analytical method check results are provided in Tab G.

The review indicated that the quarterly, semi-annual and accelerated samples were analyzed in accordance with Table 1 of the QAP except for the ammonia analyses presented in Tab G. AWAL suffered a catastrophic fire at their facility in July of 2014. By the fourth quarter 2014 AWAL was able to accept Mill samples and complete the required analyses except for ammonia analysis. CTF was used for the fourth quarter 2014 ammonia analyses. CTF does not have Utah certification for the ammonia methods specified in the DRC-approved QAP; however, CTF does have Utah certification for other ammonia methods. EFRI discussed a method variation with DRC prior to the third quarter sampling and DRC approved a method variation for ammonia on July 28, 2014 provided that all QAP requirements regarding RLs could be met. CTF achieved the QAP requirements regarding RLs (that is, the RL is less than the detected concentration) with the alternate ammonia method. The fourth quarter data were analyzed in accordance with Table 1 of the QAP or the alternate DRC-approved method.

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 these cases the reported value for the analyte was equal to or 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 except bicarbonate in duplicate pair MW-22/MW-70. The RPDs outside of the acceptance criteria are likely due to matrix interferences in MW-22. 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 chloroform and carbon tetrachloride in duplicate pair MW-26/MW-65 in the December VOC resample. The RPDs outside of the acceptance criteria are likely due to the elevated concentrations in MW-26. 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 both the quarterly and monthly accelerated results in the duplicate pairs above. The corrective actions that were taken in accordance with the QAP procedure are as follows: the QA Manager contacted the Analytical Laboratory and requested a review of the raw data to assure that there were no transcription errors and the data were accurately reported. The laboratory noted that the data were accurate and reported correctly. Reanalysis was not completed as the samples were beyond the method specified holding times.

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. Duplicate error was not calculated for duplicate pair MW-36/MW-65 because the results for the parent and duplicate sample were not both reported above the RL.

Duplicate error calculations for the quarterly, semi-annual, and accelerated radiologic sample QC are provided under Tab G. The duplicate error in the remainder of the quarterly, semi-annual, and accelerated radiologic sample results met the requirements specified in the QAP.

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 samples(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.

Ammonia was reported in the method blanks in several analytical groups. The samples associated with these method blanks were not an order of magnitude greater than the blank results as required by the QAP. Blank detections are indicative of a false positive or high bias to the sample results as the laboratory contribution increases the concentration of the sample results. A comparison of the fourth quarter results to historic results indicates that the ammonia results reported by CTF are in fact caused by blank contamination. The QAP requirement to analyze a method blank with each batch and evaluate the results has been completed as required. As previously stated, this issue is a result of EFRI using CTF for the ammonia analyses due to a catastrophic fire at AWAL in July. This issue will be resolved in the first quarter 2015, when the Mill samples are analyzed by AWAL.

3.4.10 Miscellaneous Reviews

During the routine comparison of current sample results to historic results, the QAM noted issues with the quarterly Gross Alpha results for MW-35, MW-36, and MW-65 (duplicate of MW-36). Additionally poor duplication was noted in sample duplicate pair MW-36/MW-65. The QAM requested that GEL review the results for transcription errors and data reporting errors. The laboratory noted no errors in the data reporting. The QAM requested reanalysis of the samples which were still within the method specified holding time of 6 months from collection. The reanalysis data were within the historic range of analytical results and the initial analyses were rejected from use and are not included herein. The reanalysis dates are reflected in Table 1.

4.0 CORRECTIVE ACTION REPORT

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

4.1 Assessment of Corrective Actions from Previous Period

No corrective actions were identified in the third quarter 2014 report.

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 February 19, 2015.

ENERGY FUELS RESOURCES (USA) INC.

By:

A handwritten signature in black ink, appearing to read 'S. Bakken', with a long horizontal flourish extending to the right.

Scott A. Bakken
Director, Permitting & 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.



Scott A. Bakken
Director, Permitting & Environmental Affairs
Energy Fuels Resources (USA) Inc.

Tables

Table 1: Summary of Well Sampling for Q4 2014

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-01	Semi-annually	Semi-annually	11/17/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-02	Semi-annually	Semi-annually	11/17/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-03	Semi-annually	Semi-annually	11/17/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-03A	Semi-annually	Semi-annually	11/12/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-05	Semi-annually	Semi-annually	11/11/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-11	Quarterly	Quarterly	11/17/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-12	Semi-annually	Semi-annually	11/11/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-14	Quarterly	Quarterly	11/12/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-15	Semi-annually	Semi-annually	11/12/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-17	Semi-annually	Semi-annually	11/12/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-18	Semi-annually	Semi-annually	11/10/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-19	Semi-annually	Semi-annually	11/11/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-20	Semi-annually	Semi-annually	12/3/2014	[1/2/2015] {12/17/14} {1/5/15} {1/12/15} (12/29/14)
MW-22	Semi-annually	Semi-annually	11/18/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-23	Semi-annually	Semi-annually	11/19/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-24	Semi-annually	Semi-annually	11/19/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-25	Quarterly	Quarterly	11/4/2014	[12/5/14] {11/25/14} {1/5/15} {1/12/15} (12/28/14) (1/23/15)
MW-26	Quarterly	Quarterly	11/18/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
MW-27	Semi-annually	Semi-annually	11/5/2014	[12/5/14] {11/25/14} {1/5/15} {1/12/15} (12/28/14) (1/23/15)
MW-28	Semi-annually	Semi-annually	11/5/2014	[12/5/14] {11/25/14} {1/5/15} {1/12/15} (12/28/14) (1/23/15)
MW-29	Semi-annually	Semi-annually	11/10/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-30	Quarterly	Quarterly	11/10/2014	[12/9/14] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-31	Quarterly	Quarterly	11/4/2014	[12/5/14] {11/25/14} {1/5/15} {1/12/15} (12/28/14) (1/23/15)
MW-32	Semi-annually	Semi-annually	11/5/2014	[12/5/14] {11/25/14} {1/5/15} {1/12/15} (12/28/14) (1/23/15)
MW-35	Quarterly	Background	11/12/2014	[12/9/14] [2/3/15] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-36	Quarterly	Background	11/12/2014	[12/9/14] [2/3/15] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-37	Quarterly	Background	12/3/2014	[1/2/2015] {12/17/14} {1/5/15} {1/12/15} (12/29/14)
MW-65	1 per Batch	Duplicate of MW-36	11/12/2014	[12/9/14] [2/3/15] {12/3/14} {1/5/15} {1/12/15} (12/28/14)
MW-70	1 per Batch	Duplicate of MW-22	11/18/2014	[12/21/14] {12/1/14} {1/5/15} {1/12/15} (12/28/14)
Accelerated October Monthly				
MW-11	Monthly	Accelerated	10/6/2014	(11/5/14)
MW-14	Monthly	Accelerated	10/7/2014	No laboratory data - well was sampled for field pH only
MW-25	Monthly	Accelerated	10/6/2014	(11/5/14)
MW-26	Monthly	Accelerated	10/7/2014	(11/5/14)
MW-30	Monthly	Accelerated	10/7/2014	(11/5/14)
MW-31	Monthly	Accelerated	10/6/2014	(11/5/14)
MW-35	Monthly	Accelerated	10/6/2014	(11/5/14) [10/29/14]
MW-65	Monthly	Duplicate of MW-35	10/6/2014	(11/5/14) [10/29/14]
Accelerated December Monthly				
MW-11	Monthly	Accelerated	12/10/2014	(12/29/14)
MW-14	Monthly	Accelerated	12/10/2014	No laboratory data - well was sampled for field pH only
MW-25	Monthly	Accelerated	12/9/2014	(12/29/14)
MW-26	Monthly	Accelerated	12/10/2014	(12/29/14)
MW-26 Resample	Monthly	Accelerated	12/15/2014	(12/29/14)
MW-30	Monthly	Accelerated	12/10/2014	(12/29/14)
MW-31	Monthly	Accelerated	12/9/2014	(12/29/14)
MW-35	Monthly	Accelerated	12/9/2014	(12/29/14) [2/3/15]
MW-65	1 per Batch	Duplicate of MW-11	12/10/2014	(12/29/14)
MW-65	1 per Batch	Duplicate of MW-26 Resample	12/15/2014	(12/29/14)

Notes:

Multiple dates shown for a single laboratory depict resubmission dates for the data. Resubmissions were required to correct reporting errors or to address reanalyses. When multiple dates are shown for a single laboratory, the final submission date is shown in italics.

Date in (parenthesis) depicts the date that data were reported from American West Analytical Laboratories.

Date in {curved brackets} depicts the date that data were reported from Chemtech-Ford Laboratories.

Date in [square 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
Quarterly Wells Accelerated to Monthly Sampling¹							
MW-11 (Class II)	Manganese (ug/L)	131.29	134	Quarterly	Monthly	Q1 2010	May 2010
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	6.45	Quarterly	Monthly	Q1 2010	May 2010
MW-25 (Class III)	Uranium (ug/L)	6.5	7.13	Quarterly	Monthly	Q4 2013	March 2014
	Chloride (mg/L)	35	36.1	Quarterly	Monthly	Q1 2013	June 2013
	Field pH (S.U.)	6.5 - 8.5	6.47	Quarterly	Monthly	Q4 2012	February 2013
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1.3	Quarterly	Monthly	Q1 2010	May 2010
	Uranium (ug/L)	41.8	58.7	Quarterly	Monthly	Q1 2010	May 2010
	Chloroform (ug/L)	70	700	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	58.31	72	Quarterly	Monthly	Q1 2010	May 2010
	Methylene Chloride (ug/L)	5	9.9	Quarterly	Monthly	Q2 2010	June 2010
	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
	Nitrate + Nitrite (as N) (mg/L)	2.5	16.1	Quarterly	Monthly	Q1 2010	May 2010
MW-30 (Class II)	Chloride (mg/L)	128	134	Quarterly	Monthly	Q1 2011	May 2011
	Field pH (S.U.)	6.5	6.22	Quarterly	Monthly	Q4 2014	March 2015
	Ammonia (mg/L)	0.14	0.3	Quarterly	Monthly	Q4 2014	March 2015
	Uranium (ug/L)	8.32	8.57	Quarterly	Monthly	Q4 2013	March 2014
	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
Semi-Annual Wells Accelerated to Quarterly Sampling¹							
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
MW-1 (Class II)	Tetrahydrofuran (ug/L)	11.5	21.8	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Field pH (S.U.)	6.77 - 8.5	6.75	Semi-Annually	Quarterly	Q3 2014	Q1 2015
	Sulfate (mg/L)	838	846	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	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
	Field pH (S.U.)	6.5 - 8.5	6.13	Semi-Annually	Quarterly	Q1 2014	Q2 2014
MW-12 (Class III)	Selenium (ug/L)	25	33.3	Semi-Annually	Quarterly	Q4 2014	Q3 2015
	Selenium (ug/L)	128.7	152	Semi-Annually	Quarterly	Q2 2012	Q3 2012
MW-15 (Class III)	Field pH (S.U.)	6.62 - 8.5	6.61	Semi-Annually	Quarterly	Q4 2013	Q2 2014
	Thallium (ug/L)	1.95	3.73	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-18 (Class III)	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
	Nitrate + Nitrite (as N) (mg/L)	2.83	4	Semi-Annually	Quarterly	Q4 2011	Q1 2012
MW-19 (Class III)	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
	Field pH (S.U.)	6.5 - 8.5	6.18	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
	Cadmium (ug/L)	2.5	4.28	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-24 (Class III)	Fluoride (mg/L)	0.36	0.558	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Sulfate (mg/L)	2903	3120	Semi-Annually	Quarterly	Q4 2014	Q2 2015
	Thallium (ug/L)	1	1.3	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	5.91 (5.78)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Nitrate + Nitrite (as N) (mg/L)	5.6	5.8	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-27 (Class III)	Chloride (mg/L)	38	42	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Gross Alpha minus Rn & U (pCi/L)	2	2.33	Semi-Annually	Quarterly	Q2 2014	Q4 2014
	Sulfate (mg/L)	462	497	Semi-Annually	Quarterly	Q2 2013	Q1 2014
	TDS (mg/L)	1075	1160	Semi-Annually	Quarterly	Q2 2010	Q3 2010

**Table 2
Exceedances and Acceleration Requirements**

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

¹ 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 Q4 2014 sampling event.

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

Q1 2010 Results				Q2 2010 Results				Q3 2010 Results				Q4 2010 Results																			
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	Q1 2010 Sample Date	Q1 2010 Result	Q2 2010 Sample Date	Q2 2010 Result	May 2010 Monthly Sample Date	May 2010 Monthly Result	June 2010 Monthly Sample Date	June 2010 Monthly Result	July 2010 Monthly Sample Date	July 2010 Monthly Result	August 2010 Monthly Sample Date	August 2010 Monthly Result	Q3 2010 Sample Date	Q3 2010 Result	October 2010 Monthly Sample Date	October 2010 Monthly Result	Q4 2010 Sample Date	Q4 2010 Result	December 2010 Monthly Sample Date	December 2010 Monthly Result									
Required Quarterly Sampling Wells																															
MW-11 (Class II)	Manganese (ug/L)	131.29	2/10/2010	134	4/28/2010	137	5/24/2010	122	6/16/2010	99	7/20/2010	123	8/25/2010	138	9/8/2010	128	10/20/2010	141	11/11/2010	133	12/15/10	158									
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	2/2/2010	6.45	4/21/2010	6.29	5/21/2010	6.36	6/16/2010	6.45	7/20/2010	7.19	8/25/2010	6.48	9/8/2010	6.51	10/20/2010	6.60	11/10/2010	6.37	12/15/2010	6.47									
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	2/3/2010	6.53	4/28/2010	7.2	NS	NA	NS	NA	NS	NA	NS	NA	9/8/2010	6.58	NS	NA	11/10/2010	6.36	NS	NA									
	Cadmium (ug/L)	1.5		1.26		1.44		NA		NA		NA		NA		1.4		NA		1.26		NA									
	Uranium (ug/L)	6.5		5.93		6.43		NA		NA		NA		NA		6.57		NA		5.89		NA									
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	2/2/2010	1.3	4/22/2010	2	5/21/2010	0.3	6/16/2010	0.4	7/21/2010	0.6	8/16/2010	0.6	9/26/2010	0.7	10/20/2010	0.4	11/15/2010	0.2	12/15/2010	0.4									
	Uranium (ug/L)	41.8		58.7		66.7		37.4		36.6		34.4		71.8		72.7		37.5		30.4		29.6									
	Chloroform (ug/L)	70		700		1700		800		940		900		2800		2100		1000		1900		1400									
	Chloride (mg/L)	58.31		72		57		80		47		52		49		64		52		48		52									
	Carbon Tetrachloride (ug/L)	5		<1.0		<1.0		NA		<1.0		NA		NA		NA		NA		<1.0		NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA
	Field pH (S.U.)	6.74 - 8.5		6.59		7.18		6.36		6.98		6.45		6.39		6.60		6.61		6.49		6.45									
	Dichloromethane (Methylene Chloride) (ug/L)	5		1		9.9		NR		2.2		12		24		45		5.5		16		1.2									
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	2/9/2010	16.1	4/27/2010	15.8	5/21/2010	17	6/15/2010	15.3	7/21/2010	16	8/24/2010	16	9/14/2010 9/21/2010	15	10/19/2010	15	11/9/2010	15	12/14/2010	16									
	Chloride (mg/L)	128		127		97		NA		NA	NS	NA	NS	NA		111		126		NA											
	Uranium (ug/L)	8.32		6.82		6.82		NA		NA	NS	NA	NS	NA		7.10		6.64		NA											
	Field pH (S.U.)	6.50		6.81		6.55		6.62		7.47	7/21/2010 7/27/2010	6.80 (6.82)	8/24/2010	6.73		6.80 (6.84)		6.75		6.65											
	Ammonia (mg/L)	0.14		<0.05		<0.05		NA		NA	NS	NA	NS	NA		<0.05		0.05		NA											
	Selenium (ug/L)	34		32		35.3		NA		NA	7/27/2010	33.5	8/24/2010	35.6		32.6		32.2		30.5											
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	2/9/2010	21.7	4/20/2010	22.5	5/21/2010	23	6/15/2010	21.1	7/21/2010	20	8/24/2010	22	9/13/2010 (9/21/10)	21	10/19/2010	20	11/9/2010	20	12/14/2010	20									
	TDS (mg/L)	1320		1150		1220	NS	NA	NS	NA	NS	NA	NS	NA		1330	NS	NA		1320		NS									
	Chloride (mg/L)	143		128		128	NS	NA	NS	NA	NS	NA	NS	NA		139	NS	NA		138		NS									
	Selenium (ug/L)	71		60.8		59.6	NS	NA	NS	NA	NS	NA	NS	NA		64.4	NS	NA		60		NS									
	Field pH (S.U.)	6.5 - 8.5		6.96		7.38	5/21/2010	6.95	6/15/2010	7.01	7/21/2010	7.80	8/24/2010	7.10		7.66 (7.13)	10/19/2010	6.92		6.98		6.95									
	Sulfate (mg/L)	532		507		522	NS	NA	NS	NA	NS	NA	NS	NA		527	NS	NA		539		NS									
MW-35 (Class II)	Manganese (ug/L)	200	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/30/2010	698	NS	NA									
	Thallium (ug/l)	0.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	1.14	NA							
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	2.6	NA	
	Selenium (ug/L)	12.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	ND	NA	
	Uranium (ug/L)	7.5		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	27.2	NA	
Required Semi-Annual Sampling Wells																															
MW-01 (Class II)	Manganese (ug/L)	289	NS	NA	5/5/2010	212	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/18/2010	275	NS	NA									
	Tetrahydrofuran (ug/L)	11.5		NA		7.8		NA		NA		NA		NA		NA		NA		10.7		NA									
	Field pH (S.U.)	6.77 - 8.5		NA		7.86 (6.87)		NA		NA		NA		NA		NA		NA		6.96		NA									
	Sulfate (mg/L)	838		NA		805		NA		NA		NA		NA		NA		792		NA											
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	5/3/2010	37.2	NS	NA	NS	NA	NS	NA	NS	NA	9/20/2010	35.5	NS	NA	11/19/2010	38.8	NS	NA									
	Field pH (S.U.)	6.5 - 8.5		NA		6.14 (6.25)		NA		NA		NA		NA		NA		6.39		NA		6.35									
	Sulfate (mg/L)	3663		NA		3490		NA		NA		NA		NA		NA		NA		3430		NA									
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		0.3		NA		NA		NA		NA		NA		0.4		NA											
Fluoride (mg/L)	0.68	NA	0.71	NA	NA	NA	NA	NA	0.63	NA	0.77																				
MW-3A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	5/4/2010	6.23 (6.24)	NS	NA	NS	NA	NS	NA	NS	NA	9/21/2010	6.42	NS	NA	11/22/2010	6.21	NS	NA									
	Sulfate (mg/L)	3640		NA		3680		NA		NA		NA		NA		3630		NA		3850											
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.0		NA		NA		NA		NA		NA		1.2		NA											
	TDS (mg/L)	5805		NA		5860		NA		NA		NA		NA		5330		NA													
Selenium (ug/L)	89	NA	81.4	NA	NA	NA	NA	NA	94.8	NA																					
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	4/26/2010	0.39	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/11/2010	11.6	NS	NA									
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	4/27/2010	25.7	NS	NA	NS	NA	NS	NA	NS	NA	9/20/2010	31.9	NS	NA	11/19/2010	27.6	NS	NA									
	Field pH (S.U.)	6.5 - 8.5	NS	NA	7.16	NA	NA	NA	NA	NA	6.62	6.47	NA																		
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	4/21/2010	100	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/11/2010	99.5	NS	NA									
	Field pH (S.U.)	6.62 - 8.5	NS	NA	6.98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NA	6.57	NS	NA										

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2010 Results		Q2 2010 Results					Q3 2010 Results					Q4 2010 Results							
			Q1 Sample Date	Q1 Result	Q2 Sample Date	Q2 Result	May Monthly Sample Date	May Monthly Result	June Monthly Sample Date	June Monthly Result	July Monthly Sample Date	July Monthly Result	August Monthly Sample Date	August Monthly Result	Q3 Sample Date	Q3 Result	October Monthly Sample Date	October Monthly Result	Q4 Sample Date	Q4 Result	December Monthly Sample Date	December Monthly Result
Required Semi-Annual Sampling Wells, continued																						
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	5/4/2010	3.73	NS	NA	NS	NA	NS	NA	NS	NA	9/15/2010	3.64	NS	NA	11/18/2010	3.57	NS	NA
	Sulfate (mg/L)	1938.9		NA		1950		NA		NA		NA		1930		NA		1910				
	Field pH (S.U.)	6.25-8.5		NA		6.2		NA		NA		7.23		NA		6.37						
	TDS (mg/L)	3198.77		NA		3280		NA		NA		3190		NA		3030						
MW-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	5/4/2010	6.61 (6.66)	NS	NA	NS	NA	NS	NA	9/15/2010	6.93	NS	NA	11/18/2010	6.8	NS	NA		
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		0.9		NA		NA		NA		1.2								
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		2.6		NA		NA		2.4										
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	4/22/2010	6.18	NS	NA	NS	NA	NS	NA	NS	9/14/2010	7.05	NS	NA	11/22/2010	6.44	NS	NA	
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	5/6/2010	4.28	NS	NA	NS	NA	NS	NA	9/21/2010	5.06	NS	NA	11/17/2010	3.22	NS	NA		
	Fluoride (mg/L)	0.36		NA		0.14		NA		NA		0.18										
	Sulfate (mg/L)	2903		NA		2560		NA		NA		2760										
	Thallium (ug/L)	1		NA		1.3		NA		NA		1.09										
	Field pH (S.U.)	6.5 - 8.5		NA		5.91 (5.78)		NA		NA		6.64		6.1								
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	5/3/2010	5.8	NS	NA	NS	NA	NS	NA	9/14/2010	5.9	NS	NA	11/12/2010	5.7	NS	NA		
	Chloride (mg/L)	38		NA		42		NA		45												
	Sulfate (mg/L)	462		NA		469		NA		452												
	TDS (mg/L)	1075		NA		1160		NA		1110												
	Gross Alpha minus Rn & U (pCi/L)	2		NA		1.6		NA		2.4												
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	4/19/2010	108	NS	NA	NS	NA	NS	NA	9/14/2010	106	NS	NA	11/12/2010	107	NS	NA		
	Cadmium (ug/L)	5.2		NA		4.20		NA		4.11												
	Uranium (ug/L)	4.9		NA		3.36		NA		3.45												
	Vanadium (ug/L)	30		NA		<15.0		NA		<15.0												
	Field pH (S.U.)	6.1 - 8.5		NA		5.67		NA		5.72												
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	4/27/2010	4400	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/9/2010	4390	NS	NA		
	Field pH (S.U.)	6.46 - 8.5		NA		6.82		NA		6.17												
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	4/20/2010	4.5	NS	NA	NS	NA	NS	NA	9/13/2010	2.9	NS	NA	11/10/2010	8.8	NS	NA		
	Field pH (S.U.)	6.4 - 8.5		NA		6.03		NA		6.05												

Notes:

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

NS = Not Required and Not Sampled

NR = Required and

NA = Not

Exceedances are shown in yellow

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

Table 3 – GWCL Exceedances for Fourth 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											
Required Quarterly Sampling Wells																																					
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		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		1.27		NA		NA		NA	NA	NA		NA		NA		NA		NA	NA	1.19	NA	NA	1.27	NA	NA	NA			
	Uranium (ug/L)	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		57.4		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		39		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	4/1/2011	16	5/10/2011	16	6/20/2011	17	7/5/2011	17	8/3/2011	14	9/7/2011	16	10/4/2011	16	11/8/2011	16	12/12/2011	16											
	Chloride (mg/L)	128		NA		134		NA		134		128		127		126		145		129		122		124													
	Uranium (ug/L)	8.32		NA		5.97		NA		6.49		NA		NA		8		NA		9.83		NA		NA													
	Field pH (S.U.)	6.50		6.65		6.96		7.10		6.83		6.70		5.66		6.65		6.61		6.80		6.96 (6.73)		6.83		7.14											
	Ammonia (mg/L)	0.14		NA		0.05		NA		<0.05		NA		NA		<0.05		NA		NA		<0.05		NA													
	Selenium (ug/L)	34		36.2		34.7		34		44.4		38.3		38.7		32.4		39.7		32.4		36.6		36.8		38											
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/10/2011	19	2/1/2011	21	3/14/2011	22	4/1/2011	21	5/10/2011	20	6/20/2011	22	7/5/2011	22	8/2/2011	20	9/6/2011	21	10/3/2011	21	11/8/2011	21	12/12/2011	21											
	TDS (mg/L)	1320		1240		1220		1250		1370		1290		1330		1280		1300		1300		1320		1290		1330											
	Chloride (mg/L)	143		NS		145		NA		143		143		145		148		148		145		145		148		148											
	Selenium (ug/L)	71		NS		64.6		NA		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		<0.50		NA		NA		NA		NA		NA		0.52		NA		0.57		<0.50		0.63											
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		2.6		NA		3.7		NA		NA		NA		4.5		NA		4.4		NA		4.2											
	Selenium (ug/L)	12.5		NA		ND		NA		ND		NA		NA		NA		9.3		NA		10.5		NA		NA											
	Uranium (ug/L)	7.5		NA		12.7		NA		21.7		NA		NA		NA		24.2		NA		18.3		22.3		23.6											
Required Semi-Annual Sampling Wells																																					
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	4/19/2011	10.7		NA		NA		7.82		NA		NA		NA															
	Field pH (S.U.)	6.77 - 8.5		NA		NA		NA	4/11/2011	7.06 (7.67)		NA		NA		7.08 (7.51)		NA		NA		NA															
	Sulfate (mg/L)	838		NA		NA		NA	4/11/2011	704		NA		NA		713		NA		NA		NA															
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	2/15/2011	40.5	NS	NA	4/13/2011	45.4	NS	NA	NS	NA	8/10/2011	46	NS	NA	10/10/2011	46.7	NS	NA	NS	NA	NS	NA											
	Field pH (S.U.)	6.5 - 8.5		NA		6.09		NA		6.46		NA		NA		6.32		NA		6.53 (6.83)		NA		NA													
	Sulfate (mg/L)	3663		NA		NA		3060		NA		NA		NA		NA		3470		NA		NA		NA													
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		0.3		NA		NA		NA		NA		0.3		NA		NA		NA													
MW-03A (Class III)	Fluoride (Mg/L)	0.68	NS	NA	2/16/2011	0.69	NS	NA	4/13/2011	0.68	NS	NA	NS	NA	8/11/2011	0.96	NS	NA	10/11/2011	0.91	NS	NA	NS	NA	NS	NA											
	Field pH (S.U.)	6.5 - 8.5		NA		6.05		NA		6.58		NA		NA		6.19		NA		6.5 (6.92)		NA		NA													
	Sulfate (mg/L)	3640		NA		3730		NA		3350		NA		NA		3560		NA		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													
MW-05 (Class II)	Selenium (ug/L)	89	NS	NA	2/14/2011	99	NS	NA	4/12/2011	85.8	NS	NA	NS	NA	8/9/2011	88.5	NS	NA	10/10/2011	95	NS	NA	NS	NA	NS	NA											
	Uranium (ug/L)	7.5		NA		29.5		NA		7.16		NA		NA		0.5		NA		4.52		NA		NA													
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	2/15/2011	39.0	NS	NA	4/5/2011	21.7	NS	NA	NS	NA	8/9/2011	25.4	NS	NA	10/6/2011	35.4	NS	NA	NS	NA	NS	NA											
	Field pH (S.U.)	6.5 - 8.5		NA		6.43		NA		6.67		NA		NA		6.13		NA		6.7 (6.97)		NA		NA													
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	NS	NA	NS	NA	4/12/2011	116	NS	NA	NS	NA	NS	NA	NS	NA	10/10/2011	112	NS	NA	NS	NA	NS	NA											
	Field pH (S.U.)	6.62 - 8.5		NA		NA		NA		6.88		NA		NA		NA		6.70		NA		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	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		NA		1770		NA		1780		NA		NA		1910		NA		2020		NA		NA		
	Field pH (S.U.)	6.25-8.5		NA		6.27		NA		6.71		NA		NA		5.95 (6.30)		NA		6.55 (6.63)		NA		NA		
	TDS (mg/L)	3198.77		NA		3250		NA		3250		NA		NA		3190		NA		3220		NA		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	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		NA		0.5		NA		NA		NA		NA		0.6		NA		NA				
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NS		NA		2.6		NA		NA		NS		NA		4.0		NA		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	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	NS	NA	8/4/2011	1.46	NS	NA	10/11/2011	1.78	NS	NA	NS	NA
	Fluoride (mg/L)	0.36		NA		0.19		NA		NA		NA		NA		NA		0.36		NA		NA				
	Sulfate (mg/L)	2903		NA		2560		NA		NA		NA		NA		NA		2500		NA		NA				
	Thallium (ug/L)	1		NA		1.07		NA		NA		NA		NA		NA		<0.50		NA		NA				
	Field pH (S.U.)	6.5 - 8.5		NA		5.73		NA		6.12		NA		NA		6.45		NA		6.44		NA		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	NS	NA	8/8/2011	6	NS	NA	10/5/2011	6.3	NS	NA	NS	NA
	Chloride (mg/L)	38		NA		43		NA		NA		NA		43		NA		44		NA		NA				
	Sulfate (mg/L)	462		NA		442		NA		NA		NA		NA		424		NA		456		NA		NA		
	TDS (mg/L)	1075		NA		1190		NA		NA		NA		NA		1090		NA		1110		NA		NA		
	Gross Alpha minus Rn & U (pCi/L)	2		NA		0.7		NA		1.1		NA		NA		0.8		NA		1.5		NA		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	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		NA		NA		NA		NA		3.99		NA		NA				
	Uranium (ug/L)	4.9		NA		3.29		NA		NA		NA		NA		NA		3.19		NA		NA				
	Vanadium (ug/L)	30		NA		<15.0		NA		NA		NA		NA		NA		<15.0		NA		NA				
	Field pH (S.U.)	6.1 - 8.5		NA		5.69		NA		6.01		NA		NA		5.78		NA		6.07 (6.11)		NA		NA		
	TDS (mg/L)	4400		NA		4080		NA		NA		NA		NA		NA		4280		NA		NA				
MW-29 (Class III)	Field pH (S.U.)	6.46 - 8.5	NS	NA	NS	NA	NS	NA	4/18/2011	6.45	NS	NA	NS	NA	NS	NA	8/9/2011	6.20	NS	NA	10/5/2011	6.52	NS	NA	NS	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	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		NA		5.99		NA		6.14		NA		NA		6.10 (6.20)		NA		6.35		NA		NA		

Notes:

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

NS = Not Required and Not Sampled

NR =

NA = Not

Exceedances are shown in yellow

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

Table 3 - GWCL Exceedances for Fourth 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											
Required Quarterly Sampling Wells																																					
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
	Uranium (ug/L)	6.5		6.6		6.5		6.93		6.52		5.90		7.6		6.45		6.72		6.01		6.37		6.61		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		64.9		26.9		56.8	51.3										
	Chloroform (ug/L)	70		1900		3300		2900		2900		1700		2400		8/16/2012		970		2200		2300		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		8/16/2012		<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 3/8/2012		6.72 (6.91) (6.71)		6.39		6.88		7.00 (7.01)		7.00		7/11/2012 8/16/2012		7.10 (6.80)		6.60		7.40		6.63	6.60	6.78									
	Dichloromethane (Methylene Chloride) (ug/L)	5		13		2/15/2012		24		27		20		10		16		8/16/2012		4.9		17		9.8		15.0	34.6	5.5									
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/24/2012	17	2/14/2012	17	3/14/2012	18	4/10/2012	17	5/2/2012	16	6/18/2012	15	7/10/2012	17	8/7/2012	18	9/19/2012	16	10/23/2012	16.2	11/13/2012	18.5	12/26/2012	17.2											
	Chloride (mg/L)	128		124		126		128		124		131		128		139		130		114		122															
	Uranium (ug/L)	8.32		NS		7.42		8.38		7.84		6.81		7.8		7.64		8.04		7.67		7.86		7.03		5.80											
	Field pH (S.U.)	6.50		1/24/2012		6.52		7.12		6.86		7.05		6.95		7.10		7.25		6.95		7.85		6.80		6.67	6.95										
	Ammonia (mg/L)	0.14		NS		NA		<0.05		NA		NA		<0.05		NA		<0.05		NA		NA		NA		<0.05	NA										
	Selenium (ug/L)	34		1/24/2012		33.3		35		39.5		39.1		32.3		37		38.5		38.4		41.9		45.2		36	31.6										
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/24/2012	21	2/13/2012	21	3/13/2012	22	4/9/2012	21	5/2/2012	20	6/18/2012 6/29/2012	21.6	7/9/2012	21	8/6/2012	21	9/18/2012	21	10/22/2012	18	11/6/2012	23.6	12/18/2012	22.2											
	TDS (mg/L)	1320		1360		1240		1400		1380		1410		1460		1400		1400		1320		1230		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		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		8.2		19.0		15.4		12.1											
	Uranium (ug/L)	7.5		16.1		24.7		24.9		22.4		22.2		22.5		24.5		26.2		22.4		21.8		21													
Required Semi-Annual Sampling Wells																																					
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		10.3		NA		NA		NA		NA		NA		NA		21.8		NA													
	Field pH (S.U.)	6.77 - 8.5		NA		NA		7.19		NA		NA		NA		NA		NA		NA		6.98		NA													
	Sulfate (mg/L)	838		NA		NA		659		NA		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		3140		NA		NA		NA		NA		NA		2340		NA		NA													
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		0.4		NA		NA		NA		NA		NA		0.419		NA		NA													
Fluoride (Mg/L)	0.68	NA	0.86	NA	NA	NA	1.04	NA	0.96	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															
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		1.1		NA		NA		NA		NA		NA		NA		1.31		NA													
	TDS (mg/L)	5805		NA		5690		NA		5730		NA		5720		NA		NA		5610		NA															
	Selenium (ug/L)	89		NA		65.8		NA		85.1		NA		99.3		NA		NA		111		NA															
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	2/28/2012	18.6	NS	NA	NS	NA	5/9/2012	1.23	NS	NA	7/16/2012	0.75	NS	NA	NS	NA	NS	NA	11/27/2012	0.402	NS	NA											
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	2/29/2012	NA	NS	NA	NS	NA	5/10/2012	19.6	NS	NA	7/17/2012	20.7	NS	NA	NS	NA	NS	NA	11/27/2012	23.0	NS	NA											
	Field pH (S.U.)	6.5 - 8.5		NA		6.81		NA		6.91		NA		6.98		NA		NA		6.54		NA		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		NA		6.86		NA		NA													

Q1 2012 Results								Q2 2012 Results						Q3 2012 Results						Q4 2012 Results							
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	January 2012 Monthly Sample Date	January 2012 Monthly Result	Q1 2012 Sample Date	Q1 2012 Result	March 2012 Monthly Sample Date	March 2012 Monthly Result	April 2012 Monthly Sample Date	April 2012 Monthly Result	Q2 2012 Sample Date	Q2 2012 Result	June 2012 Monthly Sample Date	June 2012 Monthly Result	Q3 2012 Sample Date	Q3 2012 Result	August 2012 Monthly Sample Date	August 2012 Monthly Result	September 2012 Monthly Sample Date	September 2012 Monthly Result	October 2012 Monthly Sample Date	October 2012 Monthly Result	Q4 2012 Sample Date	Q4 2012 Result	December 2012 Monthly Sample Date	December 2012 Monthly Result	
Required Semi-Annual Sampling Wells, continued																											
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	2/27/2012	3.63	NS	NA	NS	NA	4/30/2012	3.51	NS	NA	7/18/2012	3.73	NS	NA	NS	NA	NS	NA	11/26/2012	3.2	NS	NA	
	Sulfate (mg/L)	1938.9		NA		NA		NA		1790		NA		NA		1900		NA		NA		1210		NA			
	Field pH (S.U.)	6.25-8.5		NA		NA		6.6		NA		NA		6.59		NA		NA		6.64		NA		6.51		NA	
	TDS (mg/L)	3198.77		NA		NA		3230		NA		NA		3280		NA		NA		3220		NA		3160		NA	
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		0.9		NA		NA		NA		NA		NA		NA		4.86		NA			
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NA		3.9		NA		NA		3.7		NA		NA		4		NA		3.96		NA	
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/20/2012	6.61	NS	NA	NS	NA	5/16/2012	6.74	NS	NA	7/17/2012	7.10	NS	NA	NS	NA	NS	NA	12/5/2012	6.61	NS	NA	
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	2/23/2012	2.25	NS	NA	NS	NA	5/10/2012	2.01	NS	NA	7/18/2012	4.7	NS	NA	NS	NA	NS	NA	11/29/2012	1.35	NS	NA	
	Fluoride (mg/L)	0.36		NA		NA		0.14		NA		NA		NA		NA		NA		0.558		NA					
	Sulfate (mg/L)	2903		NA		NA		2490		NA		NA		NA		NA		NA		2310		NA					
	Thallium (ug/L)	1		NA		NA		0.74		NA		NA		NA		NA		NA		0.666		NA					
	Field pH (S.U.)	6.5 - 8.5		NA		NA		6.03		NA		NA		6.21		NA		NA		6.45		NA		6.01		NA	
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	2/28/2012	6.4	NS	NA	NS	NA	5/1/2012	6.2	NS	NA	7/16/2012	6.7	NS	NA	NS	NA	NS	NA	11/13/2012	6.9	NS	NA	
	Chloride (mg/L)	38		NA		NA		46		NA		NA		47		NA		NA		44.2		NA					
	Sulfate (mg/L)	462		NA		NA		446		NA		NA		453		NA		NA		451		NA					
	TDS (mg/L)	1075		NA		NA		1140		NA		NA		1170		NA		NA		1070		NA					
	Gross Alpha minus Rn & U (pCi/L)	2		NA		NA		0.8		NA		NA		1.2		NA		NA		1.33		NA					
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		3.85		NA		NA		NA		NA		NA		4.37		NA					
	Uranium (ug/L)	4.9		NA		NA		3.44		NA		NA		NA		NA		NA		3.45		NA					
	Vanadium (ug/L)	30		NA		NA		<15.0		NA		NA		NA		NA		NA		<15.0		NA					
	Field pH (S.U.)	6.1 - 8.5		NA		NA		6.22		NA		NA		6.15		NA		7/16/2012		6.38		NA		8/1/2012		(5.81)	NA
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	2/22/2012	NA	NS	NA	NS	NA	5/8/2012	4600	NS	NA	8/1/2012	4420	NS	NA	NS	NA	NS	NA	11/14/2012	4430	NS	NA	
	Field pH (S.U.)	6.46 - 8.5		NA		NA		7.12		NA		NA		6.47		NA		7/16/2012		6.68		NA		8/1/2012		(6.45)	NA
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		NA		NA		6.57		NA		NA		6.40		NA		NA		6.72		NA		NA		NA	6.23

Notes:

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

NS = Not Required and Not Sampled

NR = Required and

NA = Not

Exceedances are shown in yellow

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

Table 3 – GWCL Exceedances for Fourth 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														
			January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result	June 2013 Monthly Sample Date	June 2013 Monthly Result	Q3 2013 Sample Date	Q3 2013 Result	August 2013 Monthly Sample Date	August 2013 Monthly Result	September 2013 Monthly Sample Date	September 2013 Monthly Result	October 2013 Monthly Sample Date	October 2013 Monthly Result	Q4 2013 Sample Date	Q4 2013 Result	December 2013 Monthly Sample Date	December 2013 Monthly Result									
Required Quarterly Sampling Wells																																			
MW-11 (Class II)	Manganese (ug/L)	131.29	1/23/2013	115	2/20/2013	139	3/20/2013	164	4/16/2013	181	5/14/2013	144	6/25/2013	135	7/10/2013	138	8/20/2013	158	9/18/2013	134	10/22/2013	129	11/19/2013	152	12/18/2013	196									
MW-14 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/23/2013	6.48	2/26/2013	6.52	3/20/2013	6.48	4/16/2013	7.58	5/14/2013	7.39	6/25/2013	6.54	7/11/2013	6.47	8/20/2013	6.86	9/19/2013	6.48	10/22/2013	6.77	11/20/2013	6.51	12/18/2013	6.74									
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/22/2013	6.65	2/20/2013	6.62	3/19/2013	6.41	4/17/2013	7.00	5/14/2013	7.19	6/24/2013	6.61	7/10/2013	6.32	8/19/2013	6.74	9/17/2013	6.54	10/22/2013	6.81	11/19/2013	6.62	12/17/2013	6.73									
	Cadmium (ug/L)	1.5		NA		1.35		1.40		1.36		1.52		1.31		1.41		1.57		1.31		1.50		1.35		1.23									
	Uranium (ug/L)	6.5		5.97		5.39		5.68		5.56		5.88		5.35		6.22		6.42		5.99		5.94		7.13		NA									
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/24/2013	1.66	2/20/2013	1.38	3/20/2013	1.61	4/17/2013	1.73	5/23/2013	2.01	6/5/2013 6/25/2013	3.04 2.11*	7/11/2013	1.98	8/20/2013	1.77	9/18/2013	3.60	10/23/2013	4.10	11/20/2013	1.38	12/18/2013	2.56									
	Uranium (ug/L)	41.8		65.7		57.8		69		58.8		64.3		71.3		70		72.3		19.9		58.8		75.8		70.4									
	Chloroform (ug/L)	70		1270		1500		1340		1680		1210		4030*		2410		2110		4170		3420		1220		1680									
	Chloride (mg/L)	58.31		63.5		77		73.6		70.4		63.1		87.8 77.9*		72.1		70.8		77.3		62.3		65.7											
	Carbon Tetrachloride (ug/L)	5		NA		3.15		NA		NA		NA		5/23/2013		<1.0		6/5/2013 6/25/2013		<1.0		7/11/2013		<1.0		8/20/2013	NA	9/18/2013	NA	10/23/2013	NA	11/20/2013	<1.0	12/18/2013	NA
	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									
	Dichloromethane (Methylene Chloride) (ug/L)	5		6.49		5.53		8.31		10.2		4.07		52.4* [12.1]		14.2		14.6		42.4		29.8		7.64		7.48									
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/23/2013	19.2	2/26/2013	21.4	3/20/2013	14.3	4/17/2013	16.8	5/15/2013	18.8	6/25/2013	16.1	7/10/2013	17.6	8/20/2013	16.4	9/18/2013	16.9	10/22/2013	19.7	11/20/2013	19.5	12/18/2013	20.7									
	Chloride (mg/L)	128		129		126		117		119		127		130		126		131		128		124		134											
	Uranium (ug/L)	8.32		8.36		7.4		6.85		7.08		6.31		8.22		7.48		7.07		7.00		6.91		8.57		NA									
	Field pH (S.U.)	6.50		6.88		6.93		6.91		7.42		7.54		6.93		6.87		7.06		6.78		6.96		6.84		7.10									
	Ammonia (mg/L)	0.14		NA		<0.05		NA		NA		<0.05		NA		<0.05		NA		NA		<0.05		NA											
	Selenium (ug/L)	34		37.2		42.3		39		37.3		39.4		32.1		36.5		36.3		35.2		39.5		36.6		35.1									
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/22/2013	22.8	2/19/2013	19.3	3/19/2013	19.1	4/16/2013	18.8	5/13/2013	23.8	6/24/2013	20.0	7/9/2013	21.7	8/19/2013	16.0	9/17/2013	21.2	10/23/2013	21.2	11/18/2013	23.9	12/17/2013	24.2									
	TDS (mg/L)	1320		1270		1390		1420		1260		1540		1380		1510		1440		1500		1460		1320		1500									
	Chloride (mg/L)	143		176		174		168		171		169		179		182		183		193		188		174		203									
	Selenium (ug/L)	71		NS		74.1		81.8		72.9		75.9		73.7		75.7		73.2		72.6		80.7		74.5		79.8									
	Field pH (S.U.)	6.5 - 8.5		6.94		7.32		7.28		6.37		7.92		7.10		6.98		7.36		7.06		7.35		6.99		7.23									
	Sulfate (mg/L)	532		611		644		611		668		630		659		659		656		666		637		609		656									
MW-35 (Class II)	Manganese (ug/L)	200	1/23/2013	247	2/26/2013	272	3/19/13	246	4/17/2013	243	5/13/2013	252	6/24/2013	243	7/9/2013	250	8/19/2013	262	9/17/2013	257	10/23/2013	240	11/19/2013	251	12/17/2013	260									
	Thallium (ug/L)	0.5		<0.5		<0.5		0.505		<0.5		0.715		0.946		<0.5		<0.5		<0.5		<0.5		<0.5											
	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									
	Selenium (ug/L)	12.5		11.0		10.8		22.6		11.8		16.1		13.6		8.01		<5		<5		19.8		<5											
	Uranium (ug/L)	7.5		23.6		21.3		22.1		20.0		22.0		19.3		23.0		21.4		20.2		21.8		24.1		20									
Required Semi-Annual Sampling Wells																																			
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									
	Tetrahydrofuran (ug/L)	11.5		NA		12.6		NA		NA		3.26		NA		1.86		NA		NA		5.51		NA											
	Field pH (S.U.)	6.77 - 8.5		NA		6.77		NA		NA		7.57		NA		7.04		NA		7.04		7.04		NA											
	Sulfate (mg/L)	838		NA		761		NA		NA		839		NA		911		NA		930		NA													
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	3/12/2013	51.8	NS	NA	NS	NA	5/22/2013	46.3	NS	NA	7/18/2013	52.0	NS	NA	NS	NA	NS	NA	12/11/2013	32.8	NS	NA									
	Field pH (S.U.)	6.5 - 8.5		NA		6.20		NA		NA		7.14		NA		6.46		NA		6.78		6.78		NA											
	Sulfate (mg/L)	3663		NA		NA		NA		NA		2180		NA		NA		NA		3760		NA													
	Nitrate + Nitrite (as N) (mg/L)	0.73		NA		NA		NA		NA		0.456		NA		NA		NA		1.21		NA													
	Fluoride (Mg/L)	0.68		NA		0.902		NA		NA		0.994		NA		1.18		NA		1.28		NA													
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/13/2013	6.84	NS	NA	NS	NA	5/23/2013	7.10	NS	NA	7/19/2013	6.50	NS	NA	NS	NA	NS	NA	12/11/2013	6.98	NS	NA									
	Sulfate (mg/L)	3640		NA		3480		NA		NA		3120		NA		3670		NA		3360		NA													
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.22		NA		NA		1.11		NA		1.09		NA		1.52		NA													
	TDS (mg/L)	5805		NA		5750		NA		NA		6020		NA		5860		NA		5940		NA													
	Selenium (ug/L)	89		NA		88.7		NA		NA		75.6		NA		79.7		NA		77.9		NA													
MW-05 (Class II)	Uranium (ug/L)	7.5	NS	NA	3/11/2013	36	NS	NA	NS	NA	5/14/2013	1.33	NS	NA	7/18/2013	0.574	NS	NA	NS	NA	NS	NA	12/4/2013	20.1	NS	NA									
MW-12 (Class III)	Selenium (ug/L)	25	NS	NA	3/6/2013	19.6	NS	NA	NS	NA	5/15/2013	19	NS	NA	7/17/2013	20.5	NS	NA	NS	NA	NS	NA	12/9/2013	21.7	NS	NA									
	Field pH (S.U.)	6.5 - 8.5		NA		6.56		NA		NA		7.19		NA		6.60		NA		6.69		NA													
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	3/5/2013	137	NS	NA	NS	NA	5/15/2013	120	NS	NA	7/18/2013	100	NS	NA	NS	NA	NS	NA	11/20/2013	106	NS	NA									
	Field pH (S.U.)	6.62 - 8.5		NA		6.75		NA		NA		7.27		NA		6.68		NA		6.61		NA													

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	Q1 2013 Results						Q2 2013 Results						Q3 2013 Results						Q4 2013 Results																	
			January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result	June 2013 Monthly Sample Date	June 2013 Monthly Result	Q3 2013 Sample Date	Q3 2013 Result	August 2013 Monthly Sample Date	August 2013 Monthly Result	September 2013 Monthly Sample Date	September 2013 Monthly Result	October 2013 Monthly Sample Date	October 2013 Monthly Result	Q4 2013 Sample Date	Q4 2013 Result	December 2013 Monthly Sample Date	December 2013 Monthly Result												
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												
	Sulfate (mg/L)	1938.9		NA		NA		1270		NA		NA		1860		NA		NA		1860		NA		NA		NA	2000	NA	NA	NA	NA	NA	NA	6.38	NA	NA		
	Field pH (S.U.)	6.25-8.5		NA		NA		6.35		NA		NA		NA		NA		NA		6.97		NA		NA		NA	6.45	NA	NA	NA	NA	NA						
	TDS (mg/L)	3198.77		NA		NA		3350		NA		NA		NA		NA		NA		3160		NA		NA		NA	3170	NA	NA	3240	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												
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		NA		1.11		NA		NA		1.19		NA		NA		<1.00		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	<1.00	NA	NA		
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NA		3.61		NA		NA		NA		4.21		NA		NA		NA		3.66		NA	NA	NA	NA	NA	NA	NA	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												
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												
	Fluoride (mg/L)	0.36		NA		NA		0.355		NA		NA		0.211		NA		NA		0.288		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	0.310	NA	NA		
	Sulfate (mg/L)	2903		NA		NA		NA		NA		NA		2070		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	2490	NA	NA	
	Thallium (ug/L)	1		NA		NA		0.88		NA		NA		0.618		NA		NA		NA		NA		NA		NA	1.64	NA	NA	0.707	NA	NA						
	Field pH (S.U.)	6.5 - 8.5		NA		NA		6.29		NA		NA		NA		6.77		NA		NA		NA		5.80		NA	NA	NA	NA	NA	NA	NA	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												
	Chloride (mg/L)	38		NA		NA		50.3		NA		NA		44.3		NA		NA		44.2		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	45.0	NA	NA	
	Sulfate (mg/L)	462		NA		NA		431		NA		NA		497		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	442	NA	NA	
	TDS (mg/L)	1075		NA		NA		1140		NA		NA		1110		NA		NA		NA		NA		NA		NA	1110	NA	NA	1100	NA	NA						
	Gross Alpha minus Rn & U (pCi/L)	2		NA		NA		<1.0		NA		NA		1.57		NA		NA		NA		NA		NA		NA	<1.00	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												
	Cadmium (ug/L)	5.2		NA		NA		NA		NA		NA		4.61		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	4.74	NA	NA	
	Uranium (ug/L)	4.9		NA		NA		NA		NA		NA		3.58		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.34	NA	NA
	Vanadium (ug/L)	30		NA		NA		NA		NA		NA		<15.0		NA		NA		NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<15.0	NA	NA
	Field pH (S.U.)	6.1 - 8.5		NA		NA		6.00		NA		NA		6.63		NA		NA		NA		NA		5.97		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.10	NA	NA
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	3/6/2013	4500	NS	NA	NS	NA	5/23/2013	4340	NS	NA	7/17/2013	4270	NS	NA	NS	NA	NS	NA	11/20/2013	4370	NS	NA												
	Field pH (S.U.)	6.46 - 8.5		NA		NA		6.36		NA		NA		6.88		NA		NA		6.37		NA		NA		NA	NA	NA	NA	NA	NA	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												
	Field pH (S.U.)	6.4 - 8.5		NA		NA		6.52		NA		NA		7.10		NA		NA		6.39		NA		NA		NA	NA	NA	NA	NA	NA	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

NA = Not

Exceedances are shown in yellow

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

Q1 2014 Results								Q2 2014 Results						Q3 2014 Results						Q4 2014 Results						Sample Frequency	
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	April 2014 Monthly Sample Date	April 2014 Monthly Result	May 2014 Monthly Sample Date	May 2014 Monthly Result	Q3 2014 Sample Date	Q3 2014 Result	October 2014 Monthly Sample Date	October 2014 Monthly Result	Q4 2014 Sample Date	Q4 2014 Result	December 2014 Monthly Sample Date		December 2014 Monthly Result
Required Semi-Annual Sampling Wells, continued																											
MW-18 (Class III)	Thallium (ug/l)	1.95	NS	NA	NS	NA	2/19/2014	2.77	NS	NA	NS	NA	5/27/2014	2.43	NS	NA	NS	NA	9/9/2014	2.7	NS	NA	11/10/2014	2.88	NS	NA	Semi-Annually
	Sulfate (mg/L)	1938.9		NA		NA		1650		NA		NA		2020		NA		1760		NA		1810					
	Field pH (S.U.)	6.25-8.5		NA		NA		6.16		NA		NA		7.04		NA		6.40		NA		6.10		NA		NA	
	TDS (mg/L)	3198.77		NA		NA		3080		NA		NA		3260		NA		3180		NA		2960					
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	NS	NA	NS	NA	9/11/2014	6.46	NS	NA	11/11/2014	6.33	NS	NA	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		NA		<1.0		NA		NA		2.24		NA		<1.0		NA		<1.0					
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NA		3.82		NA		NA		3.68		NA		0.4		NA		2.91					
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	NS	NA	NS	NA	9/4/2014	6.56	NS	NA	11/19/2014	6.69	NS	NA	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	NS	NA	NS	NA	9/17/2014	1.5	NS	NA	11/19/2014	1.17	NS	NA	Semi-Annually
	Fluoride (mg/L)	0.36		NA		NA		0.234		NA		NA		0.337		NA		0.4		NA		0.109					
	Sulfate (mg/L)	2903		NA		NA		NA		NA		NA		2450		NA		NA		NA		3120					
	Thallium (ug/L)	1		NA		NA		1.85		NA		NA		1.23		NA		0.6		NA		0.821					
	Field pH (S.U.)	6.5 - 8.5		NA		NA		5.89		NA		NA		6.07		NA		5.09		NA		5.69					
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	NS	NA	NS	NA	9/8/2014	6.30	NS	NA	11/5/2014	7.70	NS	NA	Semi-Annually
	Chloride (mg/L)	38		NA		NA		47.0		NA		NA		45.9		NA		46.0		NA		42.6					
	Sulfate (mg/L)	462		NA		NA		411		NA		NA		484		NA		414		NA		419					
	TDS (mg/L)	1075		NA		NA		1040		NA		NA		1040		NA		1020		NA		1090					
	Gross Alpha minus Rn & U (pCi/L)	2		NA		NA		1.08		NA		NA		2.33		NA		1.16		NA		<1.0					
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	NS	NA	2/26/2014	113	NS	NA	NS	NA	6/18/2014	114	NS	NA	NS	NA	9/16/2014	112	NS	NA	11/5/2014	117	NS	NA	Semi-Annually
	Cadmium (ug/L)	5.2		NA		NA		NA		NA		5.41		NA		4.7		NA		4.15							
	Uranium (ug/L)	4.9		NA		NA		NA		NA		61.3		NA		10.6		NA		21.2							
	Vanadium (ug/L)	30		NA		NA		NA		NA		109		NA		18.5		NA		29.3							
	Field pH (S.U.)	6.1 - 8.5		NA		NA		6.01		NA		NA		6.78		NA		5.79		NA		5.72					
MW-29 (Class III)	TDS (mg/L)	4400	NS	NA	NS	NA	2/25/2014	4500	NS	NA	NS	NA	6/3/2014	4200	NS	NA	NS	NA	9/10/2014	4280	NS	NA	11/10/2014	4210	NS	NA	Semi-Annually
	Field pH (S.U.)	6.46 - 8.5		NA		NA		6.78		NA		NA		7.98		NA		6.10		NA		6.11					
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	NS	NA	2/11/2014	1.94	NS	NA	NS	NA	5/27/2014	4.35	NS	NA	NS	NA	9/2/2014	3.69	NS	NA	11/5/2014	2.56	NS	NA	Semi-Annually
	Field pH (S.U.)	6.4 - 8.5		NA		NA		6.15		NA		NA		6.64		NA		6.17		NA		6.08					

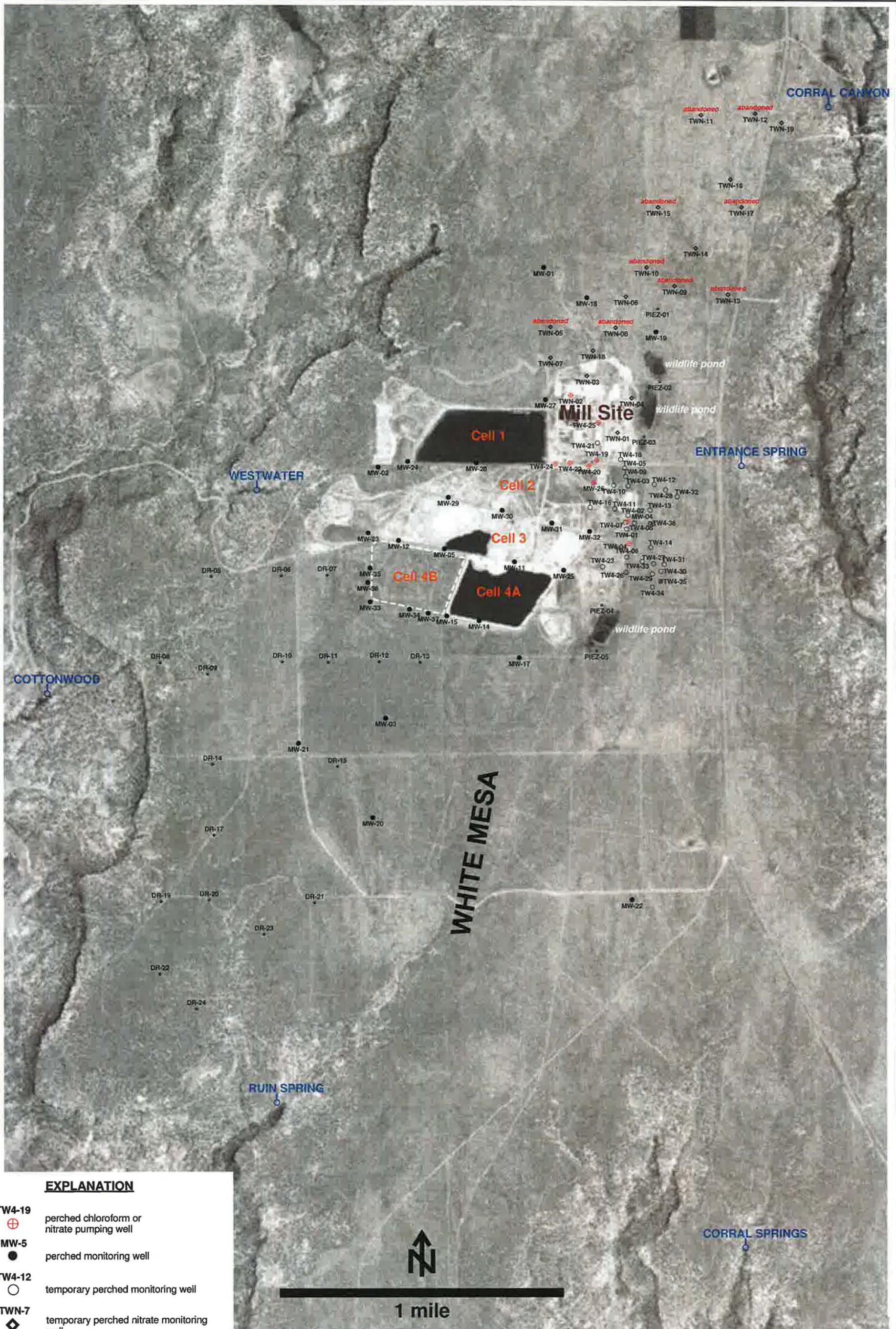
Notes:
 GWCL values are taken from August 24, 2012 version of GWDP.
 NS = Not Required and Not Sampled
 NR = Required
 NA = Not
 Exceedances are shown in yellow
 Values in () parentheses are the field pH measurements for the resampled analyses.

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



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WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov14/Uwelloc0914.srf	A-1

Tab B

Field Data Worksheets Quarterly Sampling



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

See instruction

Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID: MW-01-11172014

Date and Time for Purging: 11/17/2014 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: 1000 µMHOS/cm Well Depth(0.01ft): 118.00

Depth to Water Before Purging: 64.25 Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 19.72 (.367h)

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

Time	<u>1242</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>1914</u>	pH	<u>6.87</u>
Temp. °C	<u>14.06</u>		
Redox Potential Eh (mV)	<u>128</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1243</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>1911</u>	pH	<u>6.87</u>
Temp. °C	<u>14.03</u>		
Redox Potential Eh (mV)	<u>122</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1244</u>	Gal. Purged	<u>45.35</u>
Conductance	<u>1909</u>	pH	<u>6.86</u>
Temp. °C	<u>14.04</u>		
Redox Potential Eh (mV)	<u>118</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1245</u>	Gal. Purged	<u>45.57</u>
Conductance	<u>1909</u>	pH	<u>6.87</u>
Temp. °C	<u>14.04</u>		
Redox Potential Eh (mV)	<u>116</u>		
Turbidity (NTU)	<u>0</u>		

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input 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 0907. Tanner and Garrin present for purge and sampling event
Purge began at 0915. Purged well for a total of 210 minutes water was clear. Purge ended and samples were collected at 1245. Left site at 1300
Deen Henderson present to split samples.

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

See instruction

Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-02

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-02_11172014

Date and Time for Purging 11/17/2014

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 1000 μMHOS/ cm

Well Depth(0.01ft): 128.80

Depth to Water Before Purging 109.90

Casing Volume (V) 4" Well: 12.34 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1432</u>	Gal. Purged	<u>26.47</u>
Conductance	<u>1469</u>	pH	<u>6.77</u>
Temp. °C	<u>13.75</u>		
Redox Potential Eh (mV)	<u>247</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1433</u>	Gal. Purged	<u>26.69</u>
Conductance	<u>1450</u>	pH	<u>6.77</u>
Temp. °C	<u>13.73</u>		
Redox Potential Eh (mV)	<u>247</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1434</u>	Gal. Purged	<u>26.90</u>
Conductance	<u>1440</u>	pH	<u>6.77</u>
Temp. °C	<u>13.73</u>		
Redox Potential Eh (mV)	<u>246</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1435</u>	Gal. Purged	<u>27.12</u>
Conductance	<u>1435</u>	pH	<u>6.78</u>
Temp. °C	<u>13.71</u>		
Redox Potential Eh (mV)	<u>246</u>		
Turbidity (NTU)	<u>0</u>		

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input 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 1227 Tanner, Garrin, Deen, all present for purge and sampling event
 Purge began at 1230. Purged well for a total of 125 minutes.
 water was clear. Purge ended and samples collected at 1435
 Left site at 1451
 Deen Henderson Present to split sample.

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

See instruction

Description of Sampling Event: 4th Quarter Ground water 2014

Location (well name): MW-03

Sampler Name and initials: Tanner Holiday /TH

Field Sample ID MW-03-11172014

Date and Time for Purging 11/17/2014

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-02

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 µMHOS/ cm

Well Depth(0.01ft): 47.00

Depth to Water Before Purging 82.85

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 5.19 (.367h)

Weather Cond. Sunny

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

Time	<u>1407</u>	Gal. Purged	<u>9.77</u>
Conductance	<u>5480</u>	pH	<u>6.43</u>
Temp. °C	<u>14.30</u>		
Redox Potential Eh (mV)	<u>255</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1408</u>	Gal. Purged	<u>9.98</u>
Conductance	<u>5440</u>	pH	<u>6.40</u>
Temp. °C	<u>14.25</u>		
Redox Potential Eh (mV)	<u>257</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1409</u>	Gal. Purged	<u>10.19</u>
Conductance	<u>5477</u>	pH	<u>6.39</u>
Temp. °C	<u>14.25</u>		
Redox Potential Eh (mV)	<u>258</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1410</u>	Gal. Purged	<u>10.40</u>
Conductance	<u>5415</u>	pH	<u>6.37</u>
Temp. °C	<u>14.30</u>		
Redox Potential Eh (mV)	<u>259</u>		
Turbidity (NTU)	<u>0</u>		

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =
 - 20%

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 1317. Tanner, Deen, Garrin all present for purge and sampling event. Purge began at 1320. Purged well for a total of 50 minutes. Purge ended and samples collected at 1410. water was clear. Left site at 1421. Deen Henderson present to split sample.



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

See instruction

Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-03A_11122014 MW-03A_11132014

Date and Time for Purging 11/12/2014 and Sampling (if different) 11/13/2014

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-14

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 95.00

Depth to Water Before Purging 84.56 Casing Volume (V) 4" Well: 6.81 (.653h)
3" Well: 0 (.367h)

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

Time	<u>1235</u>	Gal. Purged	<u>14.56</u>
Conductance	<u>6003</u>	pH	<u>6.64</u>
Temp. °C	<u>14.22</u>		
Redox Potential Eh (mV)	<u>269</u>		
Turbidity (NTU)	<u>6.0</u>		

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

Time	<u>0615</u>	Gal. Purged	<u>0</u>
Conductance	<u>5920</u>	pH	<u>6.37</u>
Temp. °C	<u>13.98</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0624</u>	Gal. Purged	<u>0</u>
Conductance	<u>5963</u>	pH	<u>6.41</u>
Temp. °C	<u>14.10</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input 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

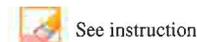
Comment

Arrived on site at 1122. Tanner and Garrin present for purge.
 Purge began at 1125. Purged well for a total of 70 minutes. Purged well dry.
 Purge ended at 1235. Water was mostly clear. Left site at 1237
 Arrived on site at 0612 Tanner and Garrin present to collect samples. Depth to water was 88.12 samples ~~bar~~ collected at 0615. Left site at 0625

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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-05_11/11/2014

Date and Time for Purging 11/11/2014 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-19

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 138.50

Depth to Water Before Purging 106.05 Casing Volume (V) 4" Well: 21.18 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>0957</u>	Gal. Purged	<u>42.74</u>
Conductance	<u>3004</u>	pH	<u>6.76</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>264</u>		
Turbidity (NTU)	<u>2.0</u>		

Time	<u>0958</u>	Gal. Purged	<u>42.46</u>
Conductance	<u>3001</u>	pH	<u>6.88</u>
Temp. °C	<u>15.02</u>		
Redox Potential Eh (mV)	<u>256</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>0959</u>	Gal. Purged	<u>43.18</u>
Conductance	<u>3001</u>	pH	<u>6.92</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>250</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>1000</u>	Gal. Purged	<u>43.40</u>
Conductance	<u>3003</u>	pH	<u>6.94</u>
Temp. °C	<u>14.98</u>		
Redox Potential Eh (mV)	<u>242</u>		
Turbidity (NTU)	<u>2.2</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

General Inorganics

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

Final Depth

Sample Time

 See instruction

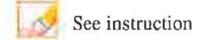
Comment

Arrived on site at 0635, Tanner and Garrin present for purge and sampling event. Purge began at 0640. Purged well for a total of 200 minutes. Purge ended and samples collected at 1000, water was clear. Left site at 1009

MW-05 11-11-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-11-11172014

Date and Time for Purging 11/17/2014 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 1000 μ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 86.55

Casing Volume (V) 4" Well: 28.37 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Clear

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

Time	<u>1207</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>2827</u>	pH	<u>7.17</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>39</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1208</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>2826</u>	pH	<u>7.17</u>
Temp. °C	<u>14.55</u>		
Redox Potential Eh (mV)	<u>37</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1209</u>	Gal. Purged	<u>58.37</u>
Conductance	<u>2825</u>	pH	<u>7.16</u>
Temp. °C	<u>14.55</u>		
Redox Potential Eh (mV)	<u>36</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1210</u>	Gal. Purged	<u>58.59</u>
Conductance	<u>2828</u>	pH	<u>7.16</u>
Temp. °C	<u>14.52</u>		
Redox Potential Eh (mV)	<u>36</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

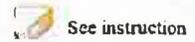
Comment

Arrived on site at 0730. Tanner and Garrin present for purge and sampling event
Purge began at 0740. Purged well for a total of 270 minutes.
Purge ended and samples collected at 1210. Water was clear
Left site at 1221. Deen Henderson on site splitting samples

MW-11 11-17-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-12_11112014

Date and Time for Purging 11/11/2014 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-05

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

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

Depth to Water Before Purging 108.17 Casing Volume (V) 4" Well: 14.51 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1257</u>	Gal. Purged	<u>28.63</u>
Conductance	<u>4290</u>	pH	<u>6.20</u>
Temp. °C	<u>14.79</u>		
Redox Potential Eh (mV)	<u>283</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1258</u>	Gal. Purged	<u>28.85</u>
Conductance	<u>4287</u>	pH	<u>6.23</u>
Temp. °C	<u>14.76</u>		
Redox Potential Eh (mV)	<u>281</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1259</u>	Gal. Purged	<u>29.07</u>
Conductance	<u>4288</u>	pH	<u>6.24</u>
Temp. °C	<u>14.72</u>		
Redox Potential Eh (mV)	<u>280</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1300</u>	Gal. Purged	<u>29.29</u>
Conductance	<u>4292</u>	pH	<u>6.25</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>279</u>		
Turbidity (NTU)	<u>0</u>		

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Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOC's	<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 1040 Tanner and Garrin present for purge and sampling event.
Purge began at 1045. Purged well for a total of 135 minutes.
Purge ended and samples collected at 1300. water was clear
Left site at 1309

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



See instruction

Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-14_11122014

Date and Time for Purging 11/12/2014 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-36

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 128.70

Depth to Water Before Purging 103.09

Casing Volume (V) 4" Well: 16.72 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Cloudy

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

Time	<u>1152</u> <u>1252</u>	Gal. Purged	<u>34.06</u>
Conductance	<u>3970</u>	pH	<u>6.27</u>
Temp. °C	<u>14.59</u>		
Redox Potential Eh (mV)	<u>292</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1253</u>	Gal. Purged	<u>34.28</u>
Conductance	<u>3976</u>	pH	<u>6.26</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>292</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1254</u>	Gal. Purged	<u>34.50</u>
Conductance	<u>3973</u>	pH	<u>6.25</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>292</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1255</u>	Gal. Purged	<u>34.72</u>
Conductance	<u>3970</u>	pH	<u>6.25</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>291</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"/>

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

Final Depth

Sample Time

 See instruction

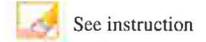
Comment

Arrived on site at 1011. Tanner and Garrin present for purge and sampling event.
 Purge began at 1015. Purged well for a total of 160 minutes
 Purge ended and samples collected at 1255. water was clear
 Left site at 1303

MW-14 11-12-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-15 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-15_11122014

Date and Time for Purging 11/12/2014 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-03A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 137.00

Depth to Water Before Purging 105.95 Casing Volume (V) 4" Well: 20.27 (.653h)
3" Well: 0 (.367h)

Weather Cond. Cloudy

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

Time	<u>1552</u>	Gal. Purged	<u>40.57</u>
Conductance	<u>4343</u>	pH	<u>6.42</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1553</u>	Gal. Purged	<u>40.79</u>
Conductance	<u>4341</u>	pH	<u>6.42</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1554</u>	Gal. Purged	<u>41.01</u>
Conductance	<u>4341</u>	pH	<u>6.42</u>
Temp. °C	<u>14.64</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1555</u>	Gal. Purged	<u>41.23</u>
Conductance	<u>4341</u>	pH	<u>6.41</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>298</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

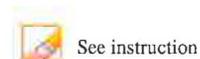
Comment

Arrived on site at 1242. Tanner and Garrin present for purge and sampling event
 Purge began at 1245. Purged well for a total of 190 minutes.
 Purge ended and samples collected at 1555. Water was clear
 Left site at 1604

MW-15 11-12-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-17-11122014

Date and Time for Purging 11/12/2014 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-23

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 112.00

Depth to Water Before Purging 72.08 Casing Volume (V) 4" Well: 26.06 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Cloudy

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

Time	<u>1107</u>	Gal. Purged	<u>52.51</u>
Conductance	<u>3969</u>	pH	<u>6.58</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>285</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1108</u>	Gal. Purged	<u>52.73</u>
Conductance	<u>3968</u>	pH	<u>6.56</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>285</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1109</u>	Gal. Purged	<u>52.94</u>
Conductance	<u>3968</u>	pH	<u>6.54</u>
Temp. °C	<u>14.46</u>		
Redox Potential Eh (mV)	<u>285</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1110</u>	Gal. Purged	<u>53.16</u>
Conductance	<u>3968</u>	pH	<u>6.53</u>
Temp. °C	<u>14.43</u>		
Redox Potential Eh (mV)	<u>285</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"/>
<i>General Inorganics</i>								

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

Final Depth

Sample Time

 See instruction

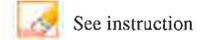
Comment

Arrived on site at 0700. Tanner and Garrin present for purge and sampling event. Purge began at 0705. Purged well for a total of 245 minutes. Purge ended and samples collected at 1110. Water was clear. Left site at 1118.

MW-17 11-12-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-18 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-18_11102014

Date and Time for Purging 11/10/2014 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 1000 μ MHOS/ cm Well Depth(0.01ft): 134.00

Depth to Water Before Purging 71.00 Casing Volume (V) 4" Well: 41.13 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1327</u>	Gal. Purged	<u>83.97</u>
Conductance	<u>3522</u>	pH	<u>6.14</u>
Temp. °C	<u>14.64</u>		
Redox Potential Eh (mV)	<u>296</u>		
Turbidity (NTU)	<u>6.5</u>		

Time	<u>1328</u>	Gal. Purged	<u>84.19</u>
Conductance	<u>3523</u>	pH	<u>6.13</u>
Temp. °C	<u>14.54</u>		
Redox Potential Eh (mV)	<u>295</u>		
Turbidity (NTU)	<u>6.7</u>		

Time	<u>1329</u>	Gal. Purged	<u>84.41</u>
Conductance	<u>3526</u>	pH	<u>6.14</u>
Temp. °C	<u>14.45</u>		
Redox Potential Eh (mV)	<u>293</u>		
Turbidity (NTU)	<u>6.8</u>		

Time	<u>1330</u>	Gal. Purged	<u>84.63</u>
Conductance	<u>3529</u>	pH	<u>6.10</u>
Temp. °C	<u>14.47</u>		
Redox Potential Eh (mV)	<u>290</u>		
Turbidity (NTU)	<u>6.8</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 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

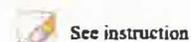
Comment

Arrived on site at 0655. Tanner and Garrin present for purge and sampling event. Purge began at 0700. Purged well for a total of 390 minutes. Purge ended and samples collected at 1330. Left site at 1340 water was clear

MW-18 11-10-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID: MW-19-11112014

Date and Time for Purging: 11/11/2014 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-29

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μMHOS/cm Well Depth(0.01ft): 149.00

Depth to Water Before Purging: 59.65 Casing Volume (V) 4" Well: 58.34 (.653h)
3" Well: 0 (.367h)

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

Time	<u>1517</u>	Gal. Purged	<u>116.52</u>
Conductance	<u>1550</u>	pH	<u>6.34</u>
Temp. °C	<u>15.15</u>		
Redox Potential Eh (mV)	<u>267</u>		
Turbidity (NTU)	<u>5.0</u>		

Time	<u>1518</u>	Gal. Purged	<u>116.74</u>
Conductance	<u>1555</u>	pH	<u>6.34</u>
Temp. °C	<u>15.19</u>		
Redox Potential Eh (mV)	<u>267</u>		
Turbidity (NTU)	<u>5.2</u>		

Time	<u>1st 1519</u>	Gal. Purged	<u>116.96</u>
Conductance	<u>1553</u>	pH	<u>6.33</u>
Temp. °C	<u>15.18</u>		
Redox Potential Eh (mV)	<u>266</u>		
Turbidity (NTU)	<u>5.3</u>		

Time	<u>1520</u>	Gal. Purged	<u>117.18</u>
Conductance	<u>1555</u>	pH	<u>6.33</u>
Temp. °C	<u>15.16</u>		
Redox Potential Eh (mV)	<u>266</u>		
Turbidity (NTU)	<u>5.4</u>		

41 2013.11.147 04 QAP rev 7.2 on 11.11 errata / Template-12181 - Printed 9/29/2014 3:12 PM from P:\MCL\GMS19

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 0616. Tanner and Garrin present for purge and sampling event. Purge began at 0620. Purged well for a total of 540 minutes. Purge ended and samples collected at 1520. Water was clear. Left site at 1530

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

See instruction

Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-20

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-20_12032014

Date and Time for Purging 11/12/2014

and Sampling (if different) 12/3/2014

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-37

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 9100

Depth to Water Before Purging 84.28

Casing Volume (V) 4" Well: 4.38 (.653h)
3" Well: 0 (.367h)

Weather Cond. Cloudy

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

Time	<u>1512</u>	Gal. Purged	<u>5</u>
Conductance	<u>6557</u>	pH	<u>6.99</u>
Temp. °C	<u>14.43</u>		
Redox Potential Eh (mV)	<u>284</u>		
Turbidity (NTU)	<u>69.20</u>		

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

Time	<u>0930</u>	Gal. Purged	<u>0</u>
Conductance	<u>5831</u>	pH	<u>7.90</u>
Temp. °C	<u>14.23</u>		<u>7.90</u>
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0935</u>	Gal. Purged	<u>0</u>
Conductance	<u>5944</u>	pH	<u>7.86</u>
Temp. °C	<u>14.25</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

04/2000-12-151: 09 048-1007.2 06 21-13 - errata - Temp/hrs [2007] - Released 11-2-2014 1:22 PM from INDC000004

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

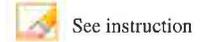
Comment

Arrived on site at 1502. Tanner and Garrin present to bail well. Bailing began at 1503. Bailed well 5 Gallons into a bucket and collected a set of parameters. Bailed a total of 7 Gallons. Bailed well dry. Water was a milky Grey. Left site at 1518. Arrived on site at 0926. Tanner and Garrin present to collect samples. Depth to water was 88.86. Samples bailed at 0930. Left site at 0937.

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



Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-22 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-22_11182014

Date and Time for Purging 11/18/2014 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-03

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 114.00

Depth to Water Before Purging 66.96 Casing Volume (V) 4" Well: 30.71 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1212</u>	Gal. Purged	<u>64.44</u>
Conductance	<u>7364</u>	pH	<u>4.50</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>380</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1213</u>	Gal. Purged	<u>64.66</u>
Conductance	<u>7353</u>	pH	<u>4.50</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>381</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1214</u>	Gal. Purged	<u>64.88</u>
Conductance	<u>7344</u>	pH	<u>4.49</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>382</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1215</u>	Gal. Purged	<u>65.10</u>
Conductance	<u>7343</u>	pH	<u>4.50</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>383</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input 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

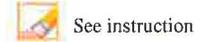
Comment

Arrived on site at 0709 Tanner and Garrin present for purge and sampling event. Purge began at 0715. Purged well for a total of 300 minutes. Purge ended and samples collected at 1215. Water was clear Left site at 1230

MW-22 11-18-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-23-1192014

Date and Time for Purging 11/11/2014 and Sampling (if different) 11/19/2014

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-05

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 132.00

Depth to Water Before Purging 114.10 Casing Volume (V) 4" Well: 11.68 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1545</u>	Gal. Purged	<u>31.20</u>
Conductance	<u>3958</u>	pH	<u>6.32</u>
Temp. °C	<u>16.00</u>		
Redox Potential Eh (mV)	<u>257</u>		
Turbidity (NTU)	<u>6.1</u>		

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

Time	<u>1040</u>	Gal. Purged	<u>0</u>
Conductance	<u>3885</u>	pH	<u>6.70</u>
Temp. °C	<u>14.06</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1050</u>	Gal. Purged	<u>0</u>
Conductance	<u>3890</u>	pH	<u>6.69</u>
Temp. °C	<u>14.00</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

General Inorganics

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1311. Tanner and Garrin present for purge.
 Purge began at ~~1305~~ 1315. Purged well for 150 minutes. Purged well dry! water was clear.
 Left site at 1550. water Flow Rate decreased as purge went on.
 Arrived on site at 1036 Tanner and Garrin present to collect samples. Depth to Water was 123.85 samples collected at 1040 Left site at 1051

MW-23 11-11-2014 Do not touch this cell (SheetName)



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



See instruction

Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-24-1119201 MW-24 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-24-11192014

Date and Time for Purging 11/18/2014 and Sampling (if different) 11/19/2014

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-22

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging 113.72

Casing Volume (V) 4" Well: 4.10 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1350</u>	Gal. Purged	<u>11.52</u>
Conductance	<u>4421</u>	pH	<u>5.40</u>
Temp. °C	<u>13.80</u>		
Redox Potential Eh (mV)	<u>298</u>		
Turbidity (NTU)	<u>3.6</u>		

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

Time	<u>1015</u>	Gal. Purged	<u>0</u>
Conductance	<u>4423</u>	pH	<u>5.75</u>
Temp. °C	<u>15.10</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>1026</u>	Gal. Purged	<u>0</u>
Conductance	<u>4430</u>	pH	<u>5.69</u>
Temp. °C	<u>15.20</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

General Inorganics

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

Final Depth

Sample Time



See instruction

Comment

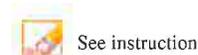
Arrived on site at 1245. Tanner and Garrin present for purge.
 Purge began at 1250. Purged well for a total of 60 minutes. Purged well dry! water was mostly clear. Purge ended at 1350. Left site at 1352
 Arrived on site at 1010. Tanner and Garrin present to collect samples. Depth to water was 113.70 samples collected at 1015 Left site at 1030

MW-24 11-18-2014

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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID: MW-25-11042014

Date and Time for Purging: 11/4/2014 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: Quarterly GW Prev. Well Sampled in Sampling Event: MW-31

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μ MHOS/cm Well Depth(0.01ft): 115

Depth to Water Before Purging: 75.10 Casing Volume (V) 4" Well: 26.05 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1222</u>	Gal. Purged	<u>53.59</u>
Conductance	<u>3161</u>	pH	<u>6.32</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>293</u>		
Turbidity (NTU)	<u>12.5</u>		

Time	<u>1223</u>	Gal. Purged	<u>53.81</u>
Conductance	<u>3161</u>	pH	<u>6.31</u>
Temp. °C	<u>14.66</u>		
Redox Potential Eh (mV)	<u>290</u>		
Turbidity (NTU)	<u>12.1</u>		

Time	<u>1224</u>	Gal. Purged	<u>54.03</u>
Conductance	<u>3166</u>	pH	<u>6.31</u>
Temp. °C	<u>14.67</u>		
Redox Potential Eh (mV)	<u>288</u>		
Turbidity (NTU)	<u>12.2</u>		

Time	<u>1225</u>	Gal. Purged	<u>54.25</u>
Conductance	<u>3164</u>	pH	<u>6.31</u>
Temp. °C	<u>14.72</u>		
Redox Potential Eh (mV)	<u>286</u>		
Turbidity (NTU)	<u>12.0</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"/>
<i>General Inorganics</i>	<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

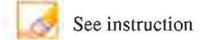
Comment

Arrived on site at 0810. Garrin present for purge and sampling event. Purge began at 0815. Purged well for a total of 250 minutes. Water was clear during purge. Purge ended and samples were collected at 1225. Left site at 1240.

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



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-26-11182014

Date and Time for Purging 11/18/2014 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 Quarterly GW Prev. Well Sampled in Sampling Event MW-24

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 121.33

Depth to Water Before Purging 71.90

Casing Volume (V) 4" Well: 32.27 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1509</u>	Gal. Purged	<u>0</u>
Conductance	<u>3469</u>	pH	<u>6.09</u>
Temp. °C	<u>15.08</u>		
Redox Potential Eh (mV)	<u>278</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 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

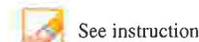
Comment

Arrived on site at 1507 Tanner and Garrin present to collect samples.
 Samples collected at 1510 water was clear
 Left site at 1316 1516
 Continuous Pumping well

MW-26 11-18-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-27

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-27-11052014

Date and Time for Purging 11/5/2014

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 1000 μ MHOS/ cm

Well Depth(0.01ft): 95.00

Depth to Water Before Purging 53.80

Casing Volume (V) 4" Well: 26.90 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 2°

Time	<u>1132</u>	Gal. Purged	<u>53.59</u>
Conductance	<u>1491</u>	pH	<u>6.65</u>
Temp. °C	<u>14.88</u>		
Redox Potential Eh (mV)	<u>283</u>		
Turbidity (NTU)	<u>1.3</u>		

Time	<u>1133</u>	Gal. Purged	<u>53.81</u>
Conductance	<u>1492</u>	pH	<u>6.65</u>
Temp. °C	<u>14.85</u>		
Redox Potential Eh (mV)	<u>281</u>		
Turbidity (NTU)	<u>1.4</u>		

Time	<u>1134</u>	Gal. Purged	<u>54.03</u>
Conductance	<u>1492</u>	pH	<u>6.65</u>
Temp. °C	<u>14.80</u>		
Redox Potential Eh (mV)	<u>281</u>		
Turbidity (NTU)	<u>1.4</u>		

Time	<u>1135</u>	Gal. Purged	<u>54.25</u>
Conductance	<u>1492</u>	pH	<u>6.70</u>
Temp. °C	<u>14.83</u>		
Redox Potential Eh (mV)	<u>280</u>		
Turbidity (NTU)	<u>1.5</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

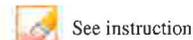
Comment

Arrived on site at 0721. Tanner and Garrin present for purge and sampling event. Purge began at 0725. Purged well for 250 minutes. Purge ended and samples collected at 1135. Water was clear. Left site at 1145

MW-27 11-05-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water

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

Field Sample ID MW-28_11052014

Date and Time for Purging 11/5/2014 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-27

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.66 Casing Volume (V) 4" Well: 22.42 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1542</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>4051</u>	pH	<u>5.72</u>
Temp. °C	<u>14.74</u>		
Redox Potential Eh (mV)	<u>308</u>		
Turbidity (NTU)	<u>2.0</u>		

Time	<u>1543</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>4030</u>	pH	<u>5.73</u>
Temp. °C	<u>14.73</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>1544</u>	Gal. Purged	<u>45.35</u>
Conductance	<u>4051</u>	pH	<u>5.72</u>
Temp. °C	<u>14.76</u>		
Redox Potential Eh (mV)	<u>300</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>1545</u>	Gal. Purged	<u>45.57</u>
Conductance	<u>4045</u>	pH	<u>5.72</u>
Temp. °C	<u>14.71</u>		
Redox Potential Eh (mV)	<u>296</u>		
Turbidity (NTU)	<u>2.1</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input 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 1210. Tanner and Garrin present for purge and sampling event. Purge began at 1215. Purged well for a total of 210 minutes. Purge ended and samples collected at 1545. water was clear. Left site at 1600.

MW-28 11-05-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water

Location (well name): MW-29 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-29_11102014

Date and Time for Purging: 11/10/2014 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-30

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μMHOS/cm Well Depth(0.01ft): 127.00

Depth to Water Before Purging: 100.75 Casing Volume (V) 4" Well: 17.14 (.653h)
3" Well: 0 (.367h)

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

Time	<u>1527</u>	Gal. Purged	<u>38.40</u>
Conductance	<u>3.1520</u> <u>15.20</u>	pH	<u>6.19</u> <u>6.11</u>
Temp. °C	<u>14.66</u>		<u>256</u>
Redox Potential Eh (mV)	<u>248</u>		
Turbidity (NTU)	<u>9.0</u>		

Time	<u>1528</u>	Gal. Purged	<u>38.62</u>
Conductance	<u>4727</u>	pH	<u>6.14</u>
Temp. °C	<u>15.00</u>		
Redox Potential Eh (mV)	<u>245</u>		
Turbidity (NTU)	<u>9.1</u>		

Time	<u>1529</u>	Gal. Purged	<u>38.84</u>
Conductance	<u>4731</u>	pH	<u>6.14</u>
Temp. °C	<u>14.89</u>		
Redox Potential Eh (mV)	<u>236</u>		
Turbidity (NTU)	<u>9.3</u>		

Time	<u>1530</u>	Gal. Purged	<u>39.06</u>
Conductance	<u>4731</u>	pH	<u>6.11</u>
Temp. °C	<u>14.87</u>		
Redox Potential Eh (mV)	<u>230</u>		
Turbidity (NTU)	<u>9.5</u>		

4.0202 11.15.06 QAP rev 3 06.11.11 errata / Template (2004) Printed 8/19/2014 1:21 PM ENCUM000000

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 1225. Tanner and Garrin present for purge and sampling event.
Purge began at 1230 Purged well for a total of 180 minutes
Purge ended and samples collected at 1530. Water was clear
Left site at 1539

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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 μ 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="1057"/>	Gal. Purged	<input type="text" value="47.08"/>
Conductance	<input type="text" value="2042"/>	pH	<input type="text" value="6.11"/>
Temp. °C	<input type="text" value="16.62"/>		
Redox Potential Eh (mV)	<input type="text" value="307"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1058"/>	Gal. Purged	<input type="text" value="47.30"/>
Conductance	<input type="text" value="2040"/>	pH	<input type="text" value="6.16"/>
Temp. °C	<input type="text" value="16.65"/>		
Redox Potential Eh (mV)	<input type="text" value="295"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1059"/>	Gal. Purged	<input type="text" value="47.52"/>
Conductance	<input type="text" value="2030"/>	pH	<input type="text" value="6.20"/>
Temp. °C	<input type="text" value="16.65"/>		
Redox Potential Eh (mV)	<input type="text" value="299"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1100"/>	Gal. Purged	<input type="text" value="47.74"/>
Conductance	<input type="text" value="2010"/>	pH	<input type="text" value="6.22"/>
Temp. °C	<input type="text" value="16.70"/>		
Redox Potential Eh (mV)	<input type="text" value="290"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

General Inorganics

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

Final Depth

Sample Time

 See instruction

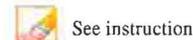
Comment

Arrived on site at 0716. Tanner and Garrin present for purge and sampling event. Purge began at 0720. Purged well for a total of 220 minutes. Purge ended and samples collected at 1100. water was clear. Left site at 1110

MW-30 11-10-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-31-11042014 Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-31-11042014

Date and Time for Purging: 11/4/2014 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: Quarterly GW Prev. Well Sampled in Sampling Event: NA

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 999 μMHOS/ cm Well Depth(0.01ft): 130

Depth to Water Before Purging: 68.40 Casing Volume (V) 4" Well: 40.22 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1357</u>	Gal. Purged	<u>80.72</u>
Conductance	<u>2113</u>	pH	<u>6.69</u>
Temp. °C	<u>14.58</u>		
Redox Potential Eh (mV)	<u>263</u>		
Turbidity (NTU)	<u>4.2</u>		

Time	<u>1358</u>	Gal. Purged	<u>80.94</u>
Conductance	<u>2113</u>	pH	<u>6.69</u>
Temp. °C	<u>14.58</u>		
Redox Potential Eh (mV)	<u>263</u>		
Turbidity (NTU)	<u>4.1</u>		

Time	<u>1359</u>	Gal. Purged	<u>81.15</u>
Conductance	<u>2113</u>	pH	<u>6.69</u>
Temp. °C	<u>14.57</u>		
Redox Potential Eh (mV)	<u>264</u>		
Turbidity (NTU)	<u>4.1</u>		

Time	<u>1400</u>	Gal. Purged	<u>81.37</u>
Conductance	<u>2113</u>	pH	<u>6.69</u>
Temp. °C	<u>14.57</u>		
Redox Potential Eh (mV)	<u>264</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 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

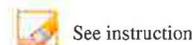
Comment

Arrived on site at 0730. Garin present for purge and sampling event. Purge began at 0745. Purged well for a total of 375 minutes. Water was clear during purge. Purge ended and samples were collected at 1400. Left site at 1418.

MW-31 11-04-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-32-11052014

Date and Time for Purging 11/5/2014 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 1000 μ MHOS/ cm Well Depth(0.01ft): 132.50

Depth to Water Before Purging 76.35 Casing Volume (V) 4" Well: 36.66 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1257</u>	Gal. Purged	<u>74.21</u>
Conductance	<u>3756</u>	pH	<u>6.12</u>
Temp. °C	<u>15.27</u>		
Redox Potential Eh (mV)	<u>213</u>		
Turbidity (NTU)	<u>1.5</u>		

Time	<u>1258</u>	Gal. Purged	<u>74.43</u>
Conductance	<u>3788</u>	pH	<u>6.08</u>
Temp. °C	<u>15.30</u>		
Redox Potential Eh (mV)	<u>152</u>		
Turbidity (NTU)	<u>2.0</u>		

Time	<u>1259</u>	Gal. Purged	<u>74.64</u>
Conductance	<u>3739</u>	pH	<u>6.10</u>
Temp. °C	<u>15.40</u>		
Redox Potential Eh (mV)	<u>142</u>		
Turbidity (NTU)	<u>2.1</u>		

Time	<u>1300</u>	Gal. Purged	<u>74.86</u>
Conductance	<u>3794</u>	pH	<u>6.08</u>
Temp. °C	<u>15.30</u>		
Redox Potential Eh (mV)	<u>139</u>		
Turbidity (NTU)	<u>2.1</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input 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

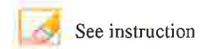
Comment

Arrived on site at 0710. Tanner and Garrin present for purge and sampling event. Purge began at 0715. Purged well for a total of 345 minutes. Purge ended at 1300 and samples were collected. water was clear. Left site at 1310

MW-32 11-05-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-35_11122014

Date and Time for Purging 11/12/2014

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-17

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.10

Casing Volume (V) 4" Well: 8.09 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Cloudy

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

Time	<u>0827</u>	Gal. Purged	<u>16.70</u>
Conductance	<u>4223</u>	pH	<u>6.39</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>288</u>		
Turbidity (NTU)	<u>4.7</u>		

Time	<u>0828</u>	Gal. Purged	<u>16.92</u>
Conductance	<u>4222</u>	pH	<u>6.36</u>
Temp. °C	<u>14.38</u>		
Redox Potential Eh (mV)	<u>280</u>		
Turbidity (NTU)	<u>4.7</u>		

Time	<u>0829</u>	Gal. Purged	<u>17.14</u>
Conductance	<u>4226</u>	pH	<u>6.35</u>
Temp. °C	<u>14.42</u>		
Redox Potential Eh (mV)	<u>277</u>		
Turbidity (NTU)	<u>4.8</u>		

Time	<u>0830</u>	Gal. Purged	<u>17.36</u>
Conductance	<u>4226</u>	pH	<u>6.35</u>
Temp. °C	<u>14.40</u>		
Redox Potential Eh (mV)	<u>279</u>		
Turbidity (NTU)	<u>4.8</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

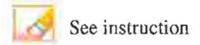
Comment

Arrived on site at 0707. Tanner and Garrin present for purge and sampling event.
 Purge began at 0710. Purged well for a total of 80 minutes.
 Purge ended and samples collected at 0830. Water was clear
 Left site at 0839

MW-35 11-12-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

Location (well name): MW-36 Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-36_11/12/2014

Date and Time for Purging 11/12/2014 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-35

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μMHOS/ cm Well Depth(0.01ft): 121.60

Depth to Water Before Purging 110.31 Casing Volume (V) 4" Well: 7.37 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>0952</u>	Gal. Purged	<u>14.53</u>
Conductance	<u>5003</u>	pH	<u>6.58</u>
Temp. °C	<u>14.50</u>		
Redox Potential Eh (mV)	<u>283</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0953</u>	Gal. Purged	<u>14.75</u>
Conductance	<u>5007</u>	pH	<u>6.57</u>
Temp. °C	<u>14.51</u>		
Redox Potential Eh (mV)	<u>283</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0954</u>	Gal. Purged	<u>14.97</u>
Conductance	<u>5004</u>	pH	<u>6.56</u>
Temp. °C	<u>14.49</u>		
Redox Potential Eh (mV)	<u>283</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0955</u>	Gal. Purged	<u>15.19</u>
Conductance	<u>5004</u>	pH	<u>6.55</u>
Temp. °C	<u>14.53</u>		
Redox Potential Eh (mV)	<u>283</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

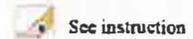
Comment

Arrived on site at 0840. Tanner and Garrin present for purge and sampling event.
Purge began at 0845. Purged well for a total of 70 minutes.
Purge ended and samples collected at 0955. Water was clear
Left site at 1009

MW-36 11-12-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID: MW-37-12032014

Date and Time for Purging: 11/12/2014 and Sampling (if different): 12/3/2014

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

Purging Method Used: 2 casings 3 casings

Sampling Event: Quarterly (FW) Prev. Well Sampled in Sampling Event: MW-15

pH Buffer 7.0: 7.0 pH Buffer 4.0: 4.0

Specific Conductance: 1000 μ MHOS/cm Well Depth(0.01ft): 121.80

Depth to Water Before Purging: 107.14 Casing Volume (V) 4" Well: 9.57 (.653h)
3" Well: 0 (.367h)

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

Time	<u>1432</u>	Gal. Purged	<u>5</u>
Conductance	<u>4476</u>	pH	<u>6.25</u>
Temp. °C	<u>14.24</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>1.2</u>		

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

Time	<u>0910</u>	Gal. Purged	<u>0</u>
Conductance	<u>4425</u>	pH	<u>6.77</u>
Temp. °C	<u>14.68</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Time	<u>0915</u>	Gal. Purged	<u>0</u>
Conductance	<u>4437</u>	pH	<u>6.75</u>
Temp. °C	<u>14.64</u>		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

After

01-2010 11.148 - 08 040 rev 2 04.22.11 017024 / Temp-Inc (218) Refused 9/19/2014 3:21 PM From ENCOURP13

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 1420. Tanner and Garrin present to bail well Bailing began at 1424 Bailed 5 Gallons then took a set of parameters. Bailed a total of 14 Gallons Bailed well dry. water started clear but got dirty throughout bailing. Left site at 1447 Arrived on site at 0906 Tanner and Garrin present to collect samples. Depth to water was 112.38. samples bailed at 0910. Left site at 0916

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



See instruction

Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-65_11122014

Date and Time for Purging 11/12/2014 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-35

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 121.60

Depth to Water Before Purging 110.31 Casing Volume (V) 4" Well: 7.37 (.653h)
 3" Well: 0 (.367h)

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

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

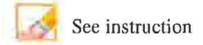
Duplicate of MW-36

MW-65 11-12-2014

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



Description of Sampling Event: 4th Quarter Ground Water 2014

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

Field Sample ID MW-70-11182014

Date and Time for Purging 11/18/2014 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-03

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 114.00

Depth to Water Before Purging 66.96

Casing Volume (V) 4" Well: 30.71 (.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 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 11-18-2014 Do not touch this cell (SheetName)

Tab C

Field Data Worksheets Accelerated Monitoring

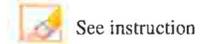
Tab C1

Field Data Worksheets Accelerated Monitoring

October 2014



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



Description of Sampling Event: October 2014 Ground Water 2014

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

Field Sample ID MW-11_10062014

Date and Time for Purging 10/6/2014 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 1000 μ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 86.50

Casing Volume (V) 4" Well: 28.40 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>1557</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>2069</u> <u>2900</u>	pH	<u>7.60</u>
Temp. °C	<u>15.85</u>		<u>15.55</u>
Redox Potential Eh (mV)	<u>191</u>		
Turbidity (NTU)	<u>2.0</u>		

Time	<u>1558</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>2904</u>	pH	<u>7.50</u>
Temp. °C	<u>15.58</u>		
Redox Potential Eh (mV)	<u>172</u>		
Turbidity (NTU)	<u>2.0</u>		

Time	<u>1559</u>	Gal. Purged	<u>58.37</u>
Conductance	<u>2879</u>	pH	<u>7.48</u>
Temp. °C	<u>15.45</u>		
Redox Potential Eh (mV)	<u>169</u>		
Turbidity (NTU)	<u>2.0</u>		

Time	<u>1600</u>	Gal. Purged	<u>58.59</u>
Conductance	<u>2885</u>	pH	<u>7.45</u>
Temp. °C	<u>15.50</u>		
Redox Potential Eh (mV)	<u>159</u>		
Turbidity (NTU)	<u>2.0</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 1125. Tanner and Garrin present for purge and sampling event
 Purge began at 1130. Purged well for a total of 270 minutes
 water was clear. Purge ended and samples collected at 1600
 Left site at 1603

MW-11 10-06-2014 Do not touch this cell (SheetName)



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



See instruction

Description of Sampling Event: October 2014 Ground Water

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

Field Sample ID MW-14-10072014

Date and Time for Purging 10/7/2014 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 1000 μ 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 Ext'l Amb. Temp. °C (prior sampling event) 12°

Time	<u>0907</u>	Gal. Purged	<u>32.98</u>
Conductance	<u>3962</u>	pH	<u>6.51</u>
Temp. °C	<u>14.15</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0908</u>	Gal. Purged	<u>33.20</u>
Conductance	<u>3864</u>	pH	<u>6.49</u>
Temp. °C	<u>14.63</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0909</u>	Gal. Purged	<u>33.41</u>
Conductance	<u>3859</u>	pH	<u>6.47</u>
Temp. °C	<u>14.69</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>0910</u>	Gal. Purged	<u>33.63</u>
Conductance	<u>3859</u>	pH	<u>6.46</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>304</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

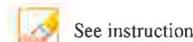
Arrived on site at 0630. Tanner and Garrin present for purge.
 Purge began at 0635. Purged well for a total of 155 minutes
 Purge ended at 0910. Water was clear. Left site at 0912

 No Samples taken.

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



Description of Sampling Event: October 2014 Ground Water

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

Field Sample ID MW-25_10062014

Date and Time for Purging 10/6/2014 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-31

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 115.00

Depth to Water Before Purging 74.85 Casing Volume (V) 4" Well: 26.21 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Clear Ext'l Amb. Temp. °C (prior sampling event) 10°

Time	<u>1107</u>	Gal. Purged	<u>53.59</u>
Conductance	<u>3127</u>	pH	<u>6.50</u>
Temp. °C	<u>14.85</u>		
Redox Potential Eh (mV)	<u>317</u>		
Turbidity (NTU)	<u>15</u>		

Time	<u>1108</u>	Gal. Purged	<u>53.81</u>
Conductance	<u>3096</u>	pH	<u>6.50</u>
Temp. °C	<u>14.87</u>		
Redox Potential Eh (mV)	<u>316</u>		
Turbidity (NTU)	<u>17</u>		

Time	<u>1109</u>	Gal. Purged	<u>57.00</u>
Conductance	<u>3108</u>	pH	<u>6.49</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>315</u>		
Turbidity (NTU)	<u>17</u>		

Time	<u>1110</u>	Gal. Purged	<u>54.25</u>
Conductance	<u>3101</u>	pH	<u>6.49</u>
Temp. °C	<u>14.89</u>		
Redox Potential Eh (mV)	<u>313</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 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

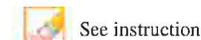
Comment

Arrived on site at 0656. Tanner and Garrin present for purge and sampling event. Purge began at 0700. Purged well for a total of 250 minutes. Purge ended and samples collected at 1110. water was mostly clear
 Left site at 1121

MW-25 10-06-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: October 2014 Ground Water

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

Field Sample ID MW-26-10072014

Date and Time for Purging 10/7/2014 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-30

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 121.33

Depth to Water Before Purging 75.04 Casing Volume (V) 4" Well: 30.22 (.653h)
 3" Well: 0 (.367h)

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

Time	<u>1230</u>	Gal. Purged	<u>0</u>
Conductance	<u>3265</u>	pH	<u>6.85</u>
Temp. °C	<u>16.77</u>		
Redox Potential Eh (mV)	<u>240</u>		
Turbidity (NTU)	<u>1.5</u>		

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

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

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

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3x40 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	100 ml	<input type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input 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 1225. Tanner and Garrin present to collect samples. Samples collected at 1230. Water was clear. Left site at 1235

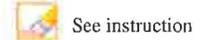
Continuous pumping well

MW-26 10-07-2014

Do not touch this cell (SheetName)



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



Description of Sampling Event: October 2014 Groundwater

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

Field Sample ID MW-30_10072014

Date and Time for Purging 10/7/2014 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-11

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 75.35 Casing Volume (V) 4" Well: 22.62 (.653h)
3" Well: 0 (.367h)

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

Time	<u>1017</u>	Gal. Purged	<u>44.91</u>
Conductance	<u>2038</u>	pH	<u>7.03</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>274</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1018</u>	Gal. Purged	<u>45.13</u>
Conductance	<u>2021</u>	pH	<u>6.97</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>274</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1019</u>	Gal. Purged	<u>45.35</u>
Conductance	<u>2038</u>	pH	<u>6.99</u>
Temp. °C	<u>14.84</u>		
Redox Potential Eh (mV)	<u>272</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1020</u>	Gal. Purged	<u>45.57</u>
Conductance	<u>2030</u>	pH	<u>6.92</u>
Temp. °C	<u>14.78</u>		
Redox Potential Eh (mV)	<u>270</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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	H2SO4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	250 ml	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Chloride

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

Final Depth

Sample Time

 See instruction

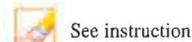
Comment

Arrived on site at 0647. Tanner and Garrin present for purge and sampling event.
 Purge began at 0650. Purged well for a total of 210 minutes. Purge ended at 1020 and samples were collected. water was clear
 Left site at 1026

MW-30 10-07-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: October 2014 Ground Water

Location (well name): MW-31

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-31_10062014

Date and Time for Purging 10/6/2014

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 October GW

Prev. Well Sampled in Sampling Event N/A

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 68.28

Casing Volume (V) 4" Well: 40.30 (.653h)
3" Well: 0 (.367h)

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 10°

Time	<u>1257</u>	Gal. Purged	<u>80.72</u>
Conductance	<u>2020</u>	pH	<u>7.01</u>
Temp. °C	<u>15.80</u>		
Redox Potential Eh (mV)	<u>267</u>		
Turbidity (NTU)	<u>35</u>		

Time	<u>1258</u>	Gal. Purged	<u>80.94</u>
Conductance	<u>1995</u>	pH	<u>6.99</u>
Temp. °C	<u>15.75</u>		
Redox Potential Eh (mV)	<u>266</u>		
Turbidity (NTU)	<u>37</u>		

Time	<u>1259</u>	Gal. Purged	<u>81.15</u>
Conductance	<u>2004</u>	pH	<u>6.99</u>
Temp. °C	<u>15.85</u>		
Redox Potential Eh (mV)	<u>265</u>		
Turbidity (NTU)	<u>38</u>		

Time	<u>1300</u>	Gal. Purged	<u>81.37</u>
Conductance	<u>2004</u>	pH	<u>6.97</u>
Temp. °C	<u>15.75</u>		
Redox Potential Eh (mV)	<u>264</u>		
Turbidity (NTU)	<u>38</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

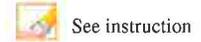
Comment

Arrived on site at 0640. Tanner and Garrin present for purge and sampling event
 Purge began at 0645. Purged well for a total of 375 minutes. Purge ended
 and samples were collected at 1300. water was mostly clear
 Left site at 1305

MW-31 10-06-2014 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 μ MHOS/ cm

Well Depth(0.01ft):

Depth to Water Before Purging
 112.34

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

Weather Cond.

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

Time	<input type="text" value="1427"/>	Gal. Purged	<input type="text" value="15.62"/>
Conductance	<input type="text" value="4166"/>	pH	<input type="text" value="6.64"/>
Temp. °C	<input type="text" value="15.86"/>		
Redox Potential Eh (mV)	<input type="text" value="261"/>		
Turbidity (NTU)	<input type="text" value="5.0"/>		

Time	<input type="text" value="1428"/>	Gal. Purged	<input type="text" value="15.84"/>
Conductance	<input type="text" value="4138"/>	pH	<input type="text" value="6.60"/>
Temp. °C	<input type="text" value="15.25"/>		
Redox Potential Eh (mV)	<input type="text" value="252"/>		
Turbidity (NTU)	<input type="text" value="4.7"/>		

Time	<input type="text" value="1429"/>	Gal. Purged	<input type="text" value="16.05"/>
Conductance	<input type="text" value="4123"/>	pH	<input type="text" value="6.53"/>
Temp. °C	<input type="text" value="15.11"/>		
Redox Potential Eh (mV)	<input type="text" value="248"/>		
Turbidity (NTU)	<input type="text" value="4.7"/>		

Time	<input type="text" value="1430"/>	Gal. Purged	<input type="text" value="16.27"/>
Conductance	<input type="text" value="4130"/>	pH	<input type="text" value="6.54"/>
Temp. °C	<input type="text" value="15.18"/>		
Redox Potential Eh (mV)	<input type="text" value="240"/>		
Turbidity (NTU)	<input type="text" value="4.6"/>		

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 1310. Tanner and Garrin present for purge and sampling event
 Purge began at 1315. Purged well for a total of 75 minutes
 Purge ended and samples collected at 1430. water was clear
 left site at 1438

MW-35 10-06-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: October 2014 Ground Water

Location (well name): MW-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-65-10062014

Date and Time for Purging 10/6/2014

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-11

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.34
112.34

Casing Volume (V) 4" Well: 7.94 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny

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

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 10-06-2014 Do not touch this cell (SheetName)

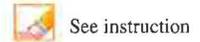
Tab C2

Field Data Worksheets Accelerated Monitoring

December 2014



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



Description of Sampling Event: December Monthly Ground Water 2014

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

Field Sample ID MW-11-12102014

Date and Time for Purging 12/10/2014 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 1000 μ MHOS/ cm Well Depth(0.01ft): 130.00

Depth to Water Before Purging 86.39 Casing Volume (V) 4" Well: 28.47 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Foggy

Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>1117</u>	Gal. Purged	<u>57.93</u>
Conductance	<u>2942</u>	pH	<u>7.27</u>
Temp. °C	<u>14.13</u>		
Redox Potential Eh (mV)	<u>241</u>		
Turbidity (NTU)	<u>1.0</u>		

Time	<u>1118</u>	Gal. Purged	<u>58.15</u>
Conductance	<u>2939</u>	pH	<u>7.26</u>
Temp. °C	<u>14.15</u>		
Redox Potential Eh (mV)	<u>227</u>		
Turbidity (NTU)	<u>1.0</u>		

Time	<u>1119</u>	Gal. Purged	<u>58.37</u>
Conductance	<u>2942</u>	pH	<u>7.25</u>
Temp. °C	<u>14.20</u>		
Redox Potential Eh (mV)	<u>221</u>		
Turbidity (NTU)	<u>1.0</u>		

Time	<u>1120</u>	Gal. Purged	<u>58.59</u>
Conductance	<u>2945</u>	pH	<u>7.24</u>
Temp. °C	<u>14.18</u>		
Redox Potential Eh (mV)	<u>217</u>		
Turbidity (NTU)	<u>1.0</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input 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

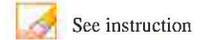
Comment

Arrived on site at 0644. Tanner and Garrin present for purge and sampling event.
 Purge began at 0650. Purged well for a total of 270 minutes.
 water was clear
 Purge ended and samples collected at 1120. Left site at 1123

MW-11 12-10-2014 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 μ 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="1517"/>	Gal. Purged	<input type="text" value="32.98"/>
Conductance	<input type="text" value="3859"/>	pH	<input type="text" value="6.42"/>
Temp. °C	<input type="text" value="13.98"/>		
Redox Potential Eh (mV)	<input type="text" value="255"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1518"/>	Gal. Purged	<input type="text" value="33.20"/>
Conductance	<input type="text" value="3860"/>	pH	<input type="text" value="6.41"/>
Temp. °C	<input type="text" value="13.95"/>		
Redox Potential Eh (mV)	<input type="text" value="258"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1519"/>	Gal. Purged	<input type="text" value="33.41"/>
Conductance	<input type="text" value="3852"/>	pH	<input type="text" value="6.40"/>
Temp. °C	<input type="text" value="14.00"/>		
Redox Potential Eh (mV)	<input type="text" value="262"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1520"/>	Gal. Purged	<input type="text" value="33.63"/>
Conductance	<input type="text" value="3856"/>	pH	<input type="text" value="6.40"/>
Temp. °C	<input type="text" value="14.02"/>		
Redox Potential Eh (mV)	<input type="text" value="265"/>		
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 type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
All Other Non Radiologics	<input type="checkbox"/>	<input type="checkbox"/>	250 ml	<input type="checkbox"/>	<input type="checkbox"/>	No Preserv.	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/>	<input type="checkbox"/>	1,000 ml	<input type="checkbox"/>	<input type="checkbox"/>	HNO3	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	Sample volume	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

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

Final Depth

Sample Time

 See instruction

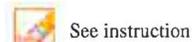
Comment

Arrived on site at 1239. Tanner and Garrin present for purge.
 Purge began at 1245 Purged well for a total of 155 minutes.
 Purge ended at 1520. Water was clear. Left site at 1521

MW-14 12-10-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: December Monthly GW 2014

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

Field Sample ID MW-25_12092014

Date and Time for Purging 12/9/2014 and Sampling (if different) N/A

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

Purging Method Used: 2 casings 3 casings

Sampling Event Monthly GW Prev. Well Sampled in Sampling Event MW-31

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 115.00

Depth to Water Before Purging 75.38 Casing Volume (V) 4" Well: 25.87 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Clear

Ext'l Amb. Temp. °C (prior sampling event) 2°

Time	<u>1052</u>	Gal. Purged	<u>51.42</u>
Conductance	<u>3183</u>	pH	<u>6.33</u>
Temp. °C	<u>14.95</u>		
Redox Potential Eh (mV)	<u>375</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1053</u>	Gal. Purged	<u>51.64</u>
Conductance	<u>3178</u>	pH	<u>6.35</u>
Temp. °C	<u>14.90</u>		
Redox Potential Eh (mV)	<u>375</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1054</u>	Gal. Purged	<u>51.86</u>
Conductance	<u>3179</u>	pH	<u>6.35</u>
Temp. °C	<u>14.87</u>		
Redox Potential Eh (mV)	<u>372</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1055</u>	Gal. Purged	<u>52.08</u>
Conductance	<u>3180</u>	pH	<u>6.36</u>
Temp. °C	<u>14.85</u>		
Redox Potential Eh (mV)	<u>370</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 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"/>

Fluoride

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

Final Depth

Sample Time

 See instruction

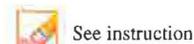
Comment

Arrived on site at 0650. Tanner and Garrin present for purge and sampling event
 Purge began at 0655. Purged well for a total of 240 minutes.
 Water was clear
 Purge ended and samples collected at 1055. Left site at 1058

MW-25 12-09-2014 Do not touch this cell (SheetName)



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



Description of Sampling Event: December Monthly Ground Water 2014

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-26-12102014

Date and Time for Purging 12/10/2014

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 G-W

Prev. Well Sampled in Sampling Event MW-14

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm

Well Depth(0.01ft): 121.33

Depth to Water Before Purging 68.80

Casing Volume (V) 4" Well: 34.30 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Foggy

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

Time	<u>1444</u>	Gal. Purged	<u>0</u>
Conductance	<u>3416</u>	pH	<u>6.25</u>
Temp. °C	<u>14.31</u>		
Redox Potential Eh (mV)	<u>308</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"/>

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

Final Depth

Sample Time

 See instruction

Comment

Arrived on site at 1441 Tanner and Garrin present to collect samples.
 Samples collected at 1445 water was clear
 Left site at 1450
 Continuous Pumping Well

MW-26 12-10-2014 Do not touch this cell (SheetName)



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

See instruction

Description of Sampling Event: 4th Quarter Groundwater 2014 Re Sample

Location (well name): MW-26

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID MW-26-12152014

Date and Time for Purging 12/15/2014

and Sampling (if different) NA

Well Purging Equip Used: pump or bailer

Well Pump (if other than Bennet) Continuous

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 μ MHOS/cm

Well Depth(0.01ft): 121.33

Depth to Water Before Purging 72.36

Casing Volume (V) 4" Well: 31.97 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

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

Time	<u>0959</u>	Gal. Purged	<u>0</u>
Conductance	<u>3451</u>	pH	<u>6.44</u>
Temp. °C	<u>15.06</u>		
Redox Potential Eh (mV)	<u>266</u>		
Turbidity (NTU)	<u>0.1</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)			

07-2326-11-121 - QAP 2012 Rev. 7.2 - Errata 8/27/2014 1:08 PM from 8813248414

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

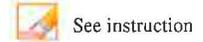
Arrived on site at 0945. Garin and David present to collect samples. Samples were collected at 1000. Water was clear. Left site at 1010.

Continuous pumping well

Do not touch this cell (SheetName)



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



Description of Sampling Event: December Monthly Ground Water 2014

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

Field Sample ID MW-30-12102014

Date and Time for Purging 12/10/2014 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-11

pH Buffer 7.0 7.0 pH Buffer 4.0 4.0

Specific Conductance 1000 μ MHOS/ cm Well Depth(0.01ft): 110.00

Depth to Water Before Purging 74.80 Casing Volume (V) 4" Well: 22.98 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Foggy Ext'l Amb. Temp. °C (prior sampling event) 0°

Time	<u>1032</u>	Gal. Purged	<u>46.00</u>
Conductance	<u>2057</u>	pH	<u>6.81</u>
Temp. °C	<u>14.66</u>		
Redox Potential Eh (mV)	<u>350</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1033</u>	Gal. Purged	<u>46.22</u>
Conductance	<u>2068</u>	pH	<u>6.78</u>
Temp. °C	<u>14.70</u>		
Redox Potential Eh (mV)	<u>349</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1034</u>	Gal. Purged	<u>46.43</u>
Conductance	<u>2050</u>	pH	<u>6.78</u>
Temp. °C	<u>14.65</u>		
Redox Potential Eh (mV)	<u>348</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1035</u>	Gal. Purged	<u>46.65</u>
Conductance	<u>2041</u>	pH	<u>6.77</u>
Temp. °C	<u>14.61</u>		
Redox Potential Eh (mV)	<u>346</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 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

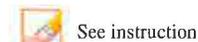
Comment

Arrived on site at 0655. Tanner and Garrin present for purge and sampling event.
 Purge began at 0700. Purged well for a total of 215 minutes.
 water was clear
 Purge ended and samples collected at 1035. Left site at 1037

MW-30 12-10-2014 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 μ 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="81.80"/>
Conductance	<input type="text" value="2120"/>	pH	<input type="text" value="6.66"/>
Temp. °C	<input type="text" value="14.22"/>		
Redox Potential Eh (mV)	<input type="text" value="358"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1258"/>	Gal. Purged	<input type="text" value="82.02"/>
Conductance	<input type="text" value="2110"/>	pH	<input type="text" value="6.75"/>
Temp. °C	<input type="text" value="14.30"/>		
Redox Potential Eh (mV)	<input type="text" value="357"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1259"/>	Gal. Purged	<input type="text" value="82.24"/>
Conductance	<input type="text" value="2117"/>	pH	<input type="text" value="6.70"/>
Temp. °C	<input type="text" value="14.36"/>		
Redox Potential Eh (mV)	<input type="text" value="355"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Time	<input type="text" value="1300"/>	Gal. Purged	<input type="text" value="82.46"/>
Conductance	<input type="text" value="2116"/>	pH	<input type="text" value="6.73"/>
Temp. °C	<input type="text" value="14.35"/>		
Redox Potential Eh (mV)	<input type="text" value="355"/>		
Turbidity (NTU)	<input type="text" value="0"/>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

Type of Sample	Sample Taken		Sample Vol (indicate if other than as specified below)	Filtered		Preservative Type	Preservative Added	
	Y	N		Y	N		Y	N
VOCs	<input 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 0635. Tanner and Garrin present for purge and sampling event.
Purge began at 0640. Purged well for a total of 380 minutes.
water was clear
Purge ended and samples collected at 1300. Left site at 1306

MW-31 12-09-2014 Do not touch this cell (SheetName)



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



See instruction

Description of Sampling Event: December Monthly Ground Water 2014

Location (well name): MW-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-35_12092014

Date and Time for Purging 12/9/2014

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 1000 μ MHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging 112.12

Casing Volume (V) 4" Well: 8.08 (.653h)
3" Well: 0 (.367h)

Weather Cond. Sunny

Ext'l Amb. Temp. °C (prior sampling event) 8°

Time	<u>1437</u>	Gal. Purged	<u>15.62</u>
Conductance	<u>4119</u>	pH	<u>6.25</u>
Temp. °C	<u>14.37</u>		
Redox Potential Eh (mV)	<u>299</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1438</u>	Gal. Purged	<u>15.84</u>
Conductance	<u>4120</u>	pH	<u>6.25</u>
Temp. °C	<u>14.34</u>		
Redox Potential Eh (mV)	<u>296</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1439</u>	Gal. Purged	<u>16.05</u>
Conductance	<u>4120</u>	pH	<u>6.25</u>
Temp. °C	<u>14.32</u>		
Redox Potential Eh (mV)	<u>294</u>		
Turbidity (NTU)	<u>0</u>		

Time	<u>1440</u>	Gal. Purged	<u>16.27</u>
Conductance	<u>4123</u>	pH	<u>6.25</u>
Temp. °C	<u>14.30</u>		
Redox Potential Eh (mV)	<u>292</u>		
Turbidity (NTU)	<u>0</u>		

Volume of Water Purged gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.

S/60 =

Time to evacuate two casing volumes (2V)

T = 2V/Q =

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

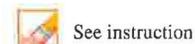
Comment

Arrived on site at 1320. Tanner and Garrin present for purge and sampling event. Purge began at 1325. Purged well for a total of 75 minutes. water was clear. Purge ended and samples collected at 1440. Left site at 1446

MW-35 12-09-2014 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 μ 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 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

Duplicate of MW-11

MW-65 12-10-2014

Do not touch this cell (SheetName)



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

See instruction

Description of Sampling Event: 4th Quarter Groundwater 2014 Re Sample

Location (well name): MW-65 Sampler Name and initials: Garcia Palmer / GP

Field Sample ID MW-65-12152014

Date and Time for Purging 12/15/2014 and Sampling (if different) NA

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

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 μ MHOS/cm Well Depth(0.01ft): 121.33

Depth to Water Before Purging 72.36 Casing Volume (V) 4" Well: 31.97 (.653h)
 3" Well: 0 (.367h)

Weather Cond. Sunny Ext'l Amb. Temp. °C (prior sampling event) 40

Time 09:59 Gal. Purged 0

Conductance 3451 pH 6.44

Temp. °C 15.06

Redox Potential Eh (mV) 266

Turbidity (NTU) 0.1

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)

6/12/2014 11:23 AM DWP Rev 7.2 04.21.12 000000 / Template: [277] Printed 9/25/2014 3:00 PM From D:\MTR\04-098

Volume of Water Purged gallon(s)

Pumping Rate Calculation

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

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

Number of casing volumes evacuated (if other than two)

If well evacuated to dryness, number of gallons evacuated

Name of Certified Analytical Laboratory if Other Than Energy Labs

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

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

Final Depth

Sample Time

 See instruction

Comment

Duplicate of MW-26 Re Sample

Do not touch this cell (SheetName)

Tab D

Quarterly Depth to Water

NAME: Garrin Palmer, Tanner Holliday

DATE: 12/17/14

TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)	TIME	WELL	Depth to Water (ft.)
1250	MW-1	64.06	927	MW-4	70.25	1238	PIEZ-1	64.10	NA	DR-1	ABANDON
1029	MW-2	109.69	931	TW4-1	67.86	1233	PIEZ-2	36.15	NA	DR-2	ABANDON
725	MW-3	82.71	929	TW4-2	67.65	1231	PIEZ-3	47.36	1340	DR-5	83.00
726	MW-3A	84.65	924	TW4-3	54.83	1004	PIEZ-4	55.12	1343	DR-6	94.35
1024	MW-5	106.10	932	TW4-4	69.80	1002	PIEZ-5	54.17	738	DR-7	92.03
1213	MW-11	86.20	921	TW4-5	63.26	1304	TWN-1	60.35	1353	DR-8	51.20
1021	MW-12	108.21	934	TW4-6	70.07	1303	TWN-2	34.03	1349	DR-9	86.41
1010	MW-14	103.15	927	TW4-7	68.45	1259	TWN-3	37.95	1347	DR-10	78.15
1012	MW-15	106.05	926	TW4-8	66.45	1229	TWN-4	52.45	732	DR-11	98.20
719	MW-17	72.13	922	TW4-9	61.15		TWN-5	ABANDON	729	DR-12	90.51
1256	MW-18	71.24	919	TW4-10	61.05	1247	TWN-6	77.25	722	DR-13	69.73
1236	MW-19	59.85	1219	TW4-11	60.25	1253	TWN-7	86.05	1358	DR-14	76.24
1425	MW-20	90.00	955	TW4-12	43.90		TWN-8	ABANDON	1429	DR-15	92.83
1435	MW-22	66.79	953	TW4-13	48.86		TWN-9	ABANDON	NA	DR-16	ABANDON
746	MW-23	115.28	950	TW4-14	82.36		TWN-10	ABANDON	1401	DR-17	67.91
1032	MW-24	113.35	916	TW4-15	74.80		TWN-11	ABANDON	NA	DR-18	ABANDON
1008	MW-25	75.00	1217	TW4-16	66.02		TWN-12	ABANDON	1404	DR-19	63.02
916	MW-26	74.80	1211	TW4-17	76.25		TWN-13	ABANDON	1413	DR-20	55.58
1224	MW-27	53.39	1305	TW4-18	64.17	1241	TWN-14	61.65	1419	DR-21	101.13
1034	MW-28	75.30	1158	TW4-19	68.40		TWN-15	ABANDON	1406	DR-22	DRY
1029	MW-29	101.00	914	TW4-20	70.14	1244	TWN-16	47.45	1417	DR-23	70.50
1206	MW-30	75.20	1306	TW4-21	63.22		TWN-17	ABANDON	1409	DR-24	44.00
1208	MW-31	68.15	912	TW4-22	60.40	1226	TWN-18	59.46	NA	DR-25	ABANDON
1211	MW-32	76.25	1006	TW4-23	67.03	853	TWN-19	53.00			
741	MW-33	DRY	910	TW4-24	66.86						
1017	MW-34	107.71	1308	TW4-25	63.78						
744	MW-35	112.16	936	TW4-26	64.54						
742	MW-36	110.32	941	TW4-27	80.13						
1015	MW-37	110.00	956	TW4-28	38.28						
			949	TW4-29	72.44						
			944	TW4-30	76.40						
			942	TW4-31	81.31						
			958	TW4-32	50.91						
			939	TW4-33	71.00						
			947	TW4-34	70.35						
			945	TW4-35	74.15						
			952	TW4-36	56.82						

Tab E

Laboratory Analytical Reports – Quarterly Sampling



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-001
Client Sample ID: MW-01_11172014
Collection Date: 11/17/2014 1245h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Analytical Results

DISSOLVED METALS

3440 South 700 West
 Salt Lake City, UT 84119

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 e-mail: awal@awal-labs.com

 web: www.awal-labs.com

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	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1746h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1059h	E200.7	100	200	2
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1746h	E200.8	0.0300	0.184	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1746h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1214h	E200.7	10.0	71.1	2
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0100	0.0592	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1312h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1528h	E200.7	1.00	6.40	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1059h	E200.7	100	178	2
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1746h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 1938h	E200.8	0.000300	0.000399	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1528h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2127h	E200.8	0.0100	< 0.0100	

² - 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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-001
Client Sample ID: MW-01_11172014
Collection Date: 11/17/2014 1245h
Received Date: 11/21/2014 1300h

Analytical Results

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 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	224	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/1/2014 2202h	E300.0	10.0	19.0	
Fluoride	mg/L		12/2/2014 1828h	E300.0	0.100	0.274	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	-0.873	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1246h	E353.2	0.100	< 0.100	'@
Sulfate	mg/L		12/1/2014 2038h	E300.0	100	920	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		24.2	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		23.7	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	1,360	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.892	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		1,530	

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.



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-001A
Client Sample ID: MW-01_11172014
Collection Date: 11/17/2014 1245h
Received Date: 11/21/2014 1300h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1437h

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	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.4	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.5	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	51.4	50.00	103	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-01

Name: American West Analytical Labs

Sample Date: 11/17/2014 12:45 PM

Sample Site: MW-01_11172014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411349

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11172014
Sample ID: 361952001
Matrix: Ground Water
Collect Date: 17-NOV-14 12:45
Receive Date: 25-NOV-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	+/-0.217	0.734	1.00	pCi/L		CXP3	12/18/14	1142	1440072	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			106	(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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-002
Client Sample ID: MW-02_11172014
Collection Date: 11/17/2014 1435h
Received Date: 11/21/2014 1300h

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	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1749h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1106h	E200.7	100	319	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1749h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1749h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1219h	E200.7	10.0	96.9	
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1317h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1534h	E200.7	1.00	9.55	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.00500	0.0118	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1106h	E200.7	100	500	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1749h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 1941h	E200.8	0.000300	0.0104	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1534h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2130h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-002
Client Sample ID: MW-02_11172014
Collection Date: 11/17/2014 1435h
Received Date: 11/21/2014 1300h

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
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	301	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/2/2014 1630h	E300.0	1.00	5.98	
Fluoride	mg/L		12/2/2014 1630h	E300.0	0.100	0.234	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	-4.79	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1254h	E353.2	0.100	< 0.100	
Sulfate	mg/L		12/1/2014 1715h	E300.0	1,000	2,130	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		50.5	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		45.9	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	2,930	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.904	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		3,240	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-002A
Client Sample ID: MW-02_11172014
Collection Date: 11/17/2014 1435h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1456h

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	54.2	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.0	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	51.8	50.00	104	77-129	

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-02

Name: American West Analytical Labs

Sample Date: 11/17/2014 2:35 PM

Sample Site: MW-02_11172014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411349

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.4	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11172014	Project: DNMI00100
Sample ID: 361952002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 17-NOV-14 14:35	
Receive Date: 25-NOV-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	+/-0.278	0.732	1.00	pCi/L		CXP3	12/18/14	1142 1440072	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"			106	(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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-003
Client Sample ID: MW-03_11172014
Collection Date: 11/17/2014 1410h
Received Date: 11/21/2014 1300h

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	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1752h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.000500	0.00200	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1108h	E200.7	100	484	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1752h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1752h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1108h	E200.7	100	305	
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0100	0.0870	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1319h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1221h	E200.7	10.0	25.5	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.00500	0.0624	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1108h	E200.7	100	818	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1752h	E200.8	0.000500	0.00132	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 1945h	E200.8	0.000300	0.0142	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1536h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2156h	E200.8	0.0100	0.0983	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-003
Client Sample ID: MW-03_11172014
Collection Date: 11/17/2014 1410h
Received Date: 11/21/2014 1300h

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
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	144	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/1/2014 2219h	E300.0	10.0	58.5	
Fluoride	mg/L		12/2/2014 1539h	E300.0	0.100	1.08	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	1.13	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1256h	E353.2	0.100	0.330	
Sulfate	mg/L		12/1/2014 1806h	E300.0	1,000	3,800	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		83.6	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		85.5	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	5,010	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.899	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		5,570	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-003A
Client Sample ID: MW-03_11172014
Collection Date: 11/17/2014 1410h
Received Date: 11/21/2014 1300h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1515h

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	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.7	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.1	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	52.6	50.00	105	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-03

Name: American West Analytical Labs	Sample Date: 11/17/2014 2:10 PM
Sample Site: MW-03_11172014	Receipt Date: 11/25/2014 1:21 PM
Comments: 4th Quarter Groundwater	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411349	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11172014	Project: DNMI00100
Sample ID: 361952003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 17-NOV-14 14:10	
Receive Date: 25-NOV-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	+/-0.244	0.988	1.00	pCi/L		CXP3	12/18/14	1410	1440072	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. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-001
Client Sample ID: MW-03A_11132014
Collection Date: 11/13/2014 615h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2309h	E200.8	0.000500	0.000530	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.000500	0.00150	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1109h	E200.7	50.0	580	*
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2309h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2309h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1109h	E200.7	50.0	385	*
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0100	0.0461	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 939h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1258h	E200.7	1.00	26.5	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.00500	0.0885	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1109h	E200.7	50.0	977	*
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2309h	E200.8	0.000500	0.000693	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1844h	E200.8	0.000300	0.0167	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1258h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2013h	E200.8	0.0100	0.0365	

* - 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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-001
Client Sample ID: MW-03A_11132014
Collection Date: 11/13/2014 615h
Received Date: 11/14/2014 1020h

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	370	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/17/2014 2252h	E300.0	10.0	59.7	
Fluoride	mg/L		11/18/2014 2003h	E300.0	0.100	0.999	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	8.41	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1331h	E353.2	1.00	1.11	
Sulfate	mg/L		11/17/2014 1624h	E300.0	1,000	3,770	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		87.6	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		104	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	5,370	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.891	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		6,020	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-001A
Client Sample ID: MW-03A_11132014
Collection Date: 11/13/2014 615h
Received Date: 11/14/2014 1020h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1310h

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	57.6	50.00	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.3	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	50.9	50.00	102	77-129	

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Jose Rocha
QA Officer



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-01

Name: American West Analytical Labs

Sample Date: 11/13/2014 6:15 AM

Sample Site: MW-03A_11132014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11132014	Project: DNMI00100
Sample ID: 361952010	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 13-NOV-14 06:15	
Receive Date: 25-NOV-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	+/-0.309	0.930	1.00	pCi/L		CXP3	12/18/14	1144	1440072	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			101	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-002
Client Sample ID: MW-05_11112014
Collection Date: 11/11/2014 1000h
Received Date: 11/14/2014 1020h

Analytical Results

DISSOLVED METALS

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Laboratory Director

Jose Rocha
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2313h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1116h	E200.7	50.0	177	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2313h	E200.8	0.0300	0.0386	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2313h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1116h	E200.7	50.0	50.6	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0100	0.231	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 946h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1304h	E200.7	1.00	8.17	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1116h	E200.7	50.0	593	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2313h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1847h	E200.8	0.000300	0.0362	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1304h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2026h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-002
Client Sample ID: MW-05_11112014
Collection Date: 11/11/2014 1000h
Received Date: 11/14/2014 1020h

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	361	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/17/2014 2308h	E300.0	10.0	49.2	
Fluoride	mg/L		11/18/2014 2053h	E300.0	0.100	0.851	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	1.72	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1339h	E353.2	0.100	0.211	
Sulfate	mg/L		11/17/2014 1714h	E300.0	1,000	1,400	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		37.7	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		39.0	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	2,060	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.825	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		2,490	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-002A
Client Sample ID: MW-05_11112014
Collection Date: 11/11/2014 1000h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1408h

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	4.72	
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	58.6	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.8	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.7	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-02

Name: American West Analytical Labs	Sample Date: 11/11/2014 10:00 AM
Sample Site: MW-05_11112014	Receipt Date: 11/25/2014 1:21 PM
Comments: 4th Quarter Groundwater 2014	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411223	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.6	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-05_11112014	Project: DNMI00106
Sample ID: 361392001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 11-NOV-14 10:00	
Receive Date: 15-NOV-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	0.235	+/-0.197	0.686	1.00	pCi/L		CXP3	12/07/14	1404	1437763	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"			107	(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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-004
Client Sample ID: MW-11_11172014
Collection Date: 11/17/2014 1210h
Received Date: 11/21/2014 1300h

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	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1756h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1223h	E200.7	10.0	60.4	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1756h	E200.8	0.0300	0.0640	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1756h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1538h	E200.7	1.00	18.0	
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0100	0.125	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1321h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1538h	E200.7	1.00	6.23	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1110h	E200.7	100	643	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1756h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 1948h	E200.8	0.000300	0.000537	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1538h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2159h	E200.8	0.0100	0.0422	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-004
Client Sample ID: MW-11_11172014
Collection Date: 11/17/2014 1210h
Received Date: 11/21/2014 1300h

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
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	265	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/1/2014 2309h	E300.0	10.0	27.4	
Fluoride	mg/L		12/2/2014 1811h	E300.0	0.100	0.419	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	4.45	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1257h	E353.2	0.100	< 0.100	
Sulfate	mg/L		12/1/2014 1823h	E300.0	1,000	1,140	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		29.8	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		32.6	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	1,840	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.893	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		2,060	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-004A
Client Sample ID: MW-11_11172014
Collection Date: 11/17/2014 1210h
Received Date: 11/21/2014 1300h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1535h

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	54.9	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.0	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	52.2	50.00	104	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-04

Name: American West Analytical Labs	Sample Date: 11/17/2014 12:10 PM
Sample Site: MW-11_11172014	Receipt Date: 11/25/2014 1:21 PM
Comments: 4th Quarter Groundwater	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411349	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.8	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11172014 Project: DNMI00100
Sample ID: 361952004 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 17-NOV-14 12:10
Receive Date: 25-NOV-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	+/-0.227	0.989	1.00	pCi/L		CXP3	12/18/14	1143	1440072	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-003
Client Sample ID: MW-12_11112014
Collection Date: 11/11/2014 1300h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2316h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1118h	E200.7	50.0	632	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2316h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2316h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1118h	E200.7	50.0	281	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0100	0.0148	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 952h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1305h	E200.7	1.00	13.1	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.00500	0.0333	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1118h	E200.7	50.0	401	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2316h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1850h	E200.8	0.000300	0.0208	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1305h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2036h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-003
Client Sample ID: MW-12_11112014
Collection Date: 11/11/2014 1300h
Received Date: 11/14/2014 1020h

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
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	370	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/17/2014 2325h	E300.0	10.0	62.5	1
Fluoride	mg/L		11/18/2014 2110h	E300.0	0.100	0.109	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	7.89	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1340h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/17/2014 1731h	E300.0	1,000	2,530	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		61.8	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		72.4	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	3,650	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.882	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		4,140	

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



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-003A
Client Sample ID: MW-12_11112014
Collection Date: 11/11/2014 1300h
Received Date: 11/14/2014 1020h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1428h

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	58.1	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.3	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.4	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	51.0	50.00	102	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-03

Name: American West Analytical Labs

Sample Date: 11/11/2014 1:00 PM

Sample Site: MW-12_11112014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-121112014	Project: DNMI00106
Sample ID: 361392002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 11-NOV-14 13:00	
Receive Date: 15-NOV-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	-0.136	+/-0.166	0.710	1.00	pCi/L		CXP3	12/07/14	1404	1437763	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-004
Client Sample ID: MW-14_11122014
Collection Date: 11/12/2014 1255h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
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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	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2329h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.000500	0.00127	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1120h	E200.7	50.0	625	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2329h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2329h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1120h	E200.7	50.0	190	
Manganese	mg/L	12/10/2014 1103h	12/16/2014 1635h	E200.8	0.0500	2.13	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 954h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1307h	E200.7	1.00	11.2	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1120h	E200.7	50.0	434	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2329h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1853h	E200.8	0.000300	0.0579	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1307h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2039h	E200.8	0.0100	0.0144	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-004
Client Sample ID: MW-14_11122014
Collection Date: 11/12/2014 1255h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Analytical Results

3440 South 700 West
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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	413	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 016h	E300.0	10.0	18.4	
Fluoride	mg/L		11/18/2014 2127h	E300.0	0.100	< 0.100	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	10.5	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1341h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/17/2014 1748h	E300.0	1,000	2,150	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		53.4	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		66.0	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	3,290	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.895	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		3,670	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-004A
Client Sample ID: MW-14_11122014
Collection Date: 11/12/2014 1255h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1447h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
 Toll Free: (888) 263-8686
 Fax: (801) 263-8687
 e-mail: awal@awal-labs.com
 web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	58.3	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.6	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.6	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	51.1	50.00	102	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-04

Name: American West Analytical Labs

Sample Date: 11/12/2014 12:55 PM

Sample Site: MW-14_11122014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-14_11122014	Project: DNMI00106
Sample ID: 361392003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 12-NOV-14 12:55	
Receive Date: 15-NOV-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	0.682	+/-0.272	0.765	1.00	pCi/L		CXP3	12/07/14	1403	1437763	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			101	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-005
Client Sample ID: MW-15_11122014
Collection Date: 11/12/2014 1555h
Received Date: 11/14/2014 1020h

Analytical Results

DISSOLVED METALS

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 e-mail: awal@awal-labs.com

 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2332h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1131h	E200.7	50.0	574	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2332h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2332h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1131h	E200.7	50.0	220	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 956h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1309h	E200.7	1.00	9.70	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.00500	0.106	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1131h	E200.7	50.0	650	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2332h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1857h	E200.8	0.000300	0.0401	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1309h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2042h	E200.8	0.0100	< 0.0100	

Kyle F. Gross
 Laboratory Director

 Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-005
Client Sample ID: MW-15_11122014
Collection Date: 11/12/2014 1555h
Received Date: 11/14/2014 1020h

Analytical Results

3440 South 700 West Salt Lake City, UT 84119	Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Phone: (801) 263-8686	Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	396	
Toll Free: (888) 263-8686	Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Fax: (801) 263-8687	Chloride	mg/L		11/18/2014 033h	E300.0	10.0	37.1	
e-mail: awal@awal-labs.com	Fluoride	mg/L		11/18/2014 2144h	E300.0	0.100	0.134	
web: www.awal-labs.com	Ion Balance	%		11/21/2014 1408h	Calc.	-100	10.1	
Kyle F. Gross Laboratory Director	Nitrate/Nitrite (as N)	mg/L		11/20/2014 1343h	E353.2	0.100	0.108	
Jose Rocha QA Officer	Sulfate	mg/L		11/17/2014 1805h	E300.0	1,000	2,520	
	Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		61.5	
	Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		75.3	
	Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	3,520	
	Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.828	
	Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		4,250	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-005A
Client Sample ID: MW-15_11122014
Collection Date: 11/12/2014 1555h
Received Date: 11/14/2014 1020h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1506h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.7	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	48.8	50.00	97.5	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-05

Name: American West Analytical Labs

Sample Date: 11/12/2014 3:55 PM

Sample Site: MW-15_11122014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-15_11122014	Project: DNMI00106
Sample ID: 361392004	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 12-NOV-14 15:55	
Receive Date: 15-NOV-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	0.203	+/-0.222	0.813	1.00	pCi/L		CXP3	12/07/14	1404	1437763	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-006
Client Sample ID: MW-17_11122014
Collection Date: 11/12/2014 1110h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2335h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1133h	E200.7	50.0	402	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2335h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2335h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1133h	E200.7	50.0	205	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0100	0.0473	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 958h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1311h	E200.7	1.00	10.2	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.00500	0.0140	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1133h	E200.7	50.0	647	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2335h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1900h	E200.8	0.000300	0.0187	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1311h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2045h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-006
Client Sample ID: MW-17_11122014
Collection Date: 11/12/2014 1110h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	366	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 049h	E300.0	10.0	34.3	
Fluoride	mg/L		11/18/2014 2201h	E300.0	0.100	0.190	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	13.5	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1344h	E353.2	0.100	1.27	
Sulfate	mg/L		11/17/2014 1822h	E300.0	1,000	1,990	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		49.8	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		65.3	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	3,100	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.883	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		3,510	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-006A
Client Sample ID: MW-17_11122014
Collection Date: 11/12/2014 1110h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1525h

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	57.6	50.00	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.5	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.3	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	49.0	50.00	98.1	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-06

Name: American West Analytical Labs	Sample Date: 11/12/2014 11:10 AM
Sample Site: MW-17_11122014	Receipt Date: 11/25/2014 1:21 PM
Comments: 4th Quarter Groundwater 2014	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411223	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-17_11122014	Project: DNMI00106
Sample ID: 361392005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 12-NOV-14 11:10	
Receive Date: 15-NOV-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	0.827	+/-0.288	0.770	1.00	pCi/L		CXP3	12/07/14	1404	1437763	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-007
Client Sample ID: MW-18_11102014
Collection Date: 11/10/2014 1330h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2338h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1135h	E200.7	50.0	696	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2338h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2338h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1135h	E200.7	50.0	167	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0100	0.0674	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 1000h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1313h	E200.7	1.00	8.42	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1135h	E200.7	50.0	235	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2338h	E200.8	0.000500	0.00288	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1903h	E200.8	0.000300	0.0333	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1313h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2049h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-007
Client Sample ID: MW-18_11102014
Collection Date: 11/10/2014 1330h
Received Date: 11/14/2014 1020h

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
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	396	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 106h	E300.0	10.0	48.1	
Fluoride	mg/L		11/18/2014 2218h	E300.0	0.100	0.155	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	11.2	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1346h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/17/2014 1912h	E300.0	1,000	1,810	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		47.0	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		58.9	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	2,960	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.924	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		3,200	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-007A
Client Sample ID: MW-18_11102014
Collection Date: 11/10/2014 1330h
Received Date: 11/14/2014 1020h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1545h

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	59.6	50.00	119	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.2	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.0	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-07

Name: American West Analytical Labs

Sample Date: 11/10/2014 1:30 PM

Sample Site: MW-18_11102014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-18_11102014	Project: DNMI00106
Sample ID: 361392006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-NOV-14 13:30	
Receive Date: 15-NOV-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	0.0331	+/-0.200	0.791	1.00	pCi/L		CXP3	12/07/14	1404	1437763	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-008
Client Sample ID: MW-19_11112014
Collection Date: 11/11/2014 1520h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2341h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1137h	E200.7	10.0	143	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2341h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2341h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1137h	E200.7	10.0	56.2	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0100	0.0160	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 1003h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1315h	E200.7	1.00	4.43	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.00500	0.0154	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1137h	E200.7	10.0	104	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2341h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1906h	E200.8	0.000300	0.00478	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1315h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2052h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-008
Client Sample ID: MW-19_11112014
Collection Date: 11/11/2014 1520h
Received Date: 11/14/2014 1020h

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
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	202	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 123h	E300.0	10.0	30.5	
Fluoride	mg/L		11/18/2014 2235h	E300.0	0.100	0.943	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	-4.99	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1620h	E353.2	1.00	2.91	
Sulfate	mg/L		11/17/2014 2110h	E300.0	100	633	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		18.1	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		16.4	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	984	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.899	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		1,090	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-008A
Client Sample ID: MW-19_11112014
Collection Date: 11/11/2014 1520h
Received Date: 11/14/2014 1020h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1604h

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	55.9	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.5	50.00	99.1	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.4	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.8	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-08

Name: American West Analytical Labs

Sample Date: 11/11/2014 3:20 PM

Sample Site: MW-19_11112014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-19_11112014	Project: DNMI00106
Sample ID: 361392007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 11-NOV-14 15:20	
Receive Date: 15-NOV-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	0.682	+/-0.266	0.763	1.00	pCi/L		CXP3	12/07/14	1404	1437763	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer	Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier		GFPC, Total Alpha Radium, Liquid "As Received"			95.0	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1412120-002
Client Sample ID: MW-20_12032014
Collection Date: 12/3/2014 930h
Received Date: 12/5/2014 1025h

Analytical Results

DISSOLVED METALS

3440 South 700 West
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 web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1828h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	12/5/2014 1255h	12/11/2014 1315h	E200.7	100	331	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1828h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1828h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	12/5/2014 1255h	12/11/2014 1337h	E200.7	1.00	16.0	
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	12/8/2014 1504h	12/9/2014 1016h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0100	0.0240	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	12/5/2014 1255h	12/11/2014 1145h	E200.7	10.0	22.2	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	12/5/2014 1255h	12/11/2014 1315h	E200.7	100	1,120	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1828h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 2020h	E200.8	0.000300	0.00160	
Vanadium	mg/L	12/5/2014 1255h	12/11/2014 1337h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2231h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1412120-002
Client Sample ID: MW-20_12032014
Collection Date: 12/3/2014 930h
Received Date: 12/5/2014 1025h

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		12/8/2014 712h	SM2320B	1.00	60.2	
Carbonate (as CaCO ₃)	mg/L		12/8/2014 712h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/8/2014 2037h	E300.0	10.0	53.2	
Fluoride	mg/L		12/8/2014 2309h	E300.0	0.100	0.148	
Ion Balance	%		12/11/2014	Calc.	-100	-3.55	
Nitrate/Nitrite (as N)	mg/L		12/15/2014 1427h	E353.2	1.00	12.6	
Sulfate	mg/L		12/8/2014 1930h	E300.0	1,000	3,340	
Total Anions, Measured	meq/L		12/11/2014	Calc.		72.2	
Total Cations, Measured	meq/L		12/11/2014	Calc.		67.2	
Total Dissolved Solids	mg/L		12/8/2014 1230h	SM2540C	20.0	4,700	
Total Dissolved Solids Ratio, Measured/Calculated			12/11/2014	Calc.		0.955	
Total Dissolved Solids, Calculated	mg/L		12/11/2014	Calc.		4,920	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1412120-002A
Client Sample ID: MW-20_12032014
Collection Date: 12/3/2014 930h
Received Date: 12/5/2014 1025h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 12/5/2014 1440h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.2	50.00	96.3	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.5	50.00	95.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.6	50.00	97.2	80-124	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.9	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413608-02

Name: American West Analytical Labs

Sample Date: 12/3/2014 9:30 AM

Sample Site: MW-20_12032014

Receipt Date: 12/5/2014 2:05 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1412120

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.1	mg/L	SM 4500 NH3-D	12/14/2014 9:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 2, 2015

Company: Energy Fuels Resources (USA), Inc.
 Address: 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-20_12032014	Project: DNMI00106
Sample ID: 362602002	Client ID: DNMI001
Matrix: Water	
Collect Date: 03-DEC-14 09:30	
Receive Date: 08-DEC-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	0.488	+/-0.281	0.858	1.00	pCi/L		CXP3	01/02/15	0749	1446551	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-005
Client Sample ID: MW-22_11182014
Collection Date: 11/18/2014 1215h
Received Date: 11/21/2014 1300h

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	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1759h	E200.8	0.000500	0.0111	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.000500	0.148	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1117h	E200.7	100	422	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.0100	0.461	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.0100	0.0692	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1759h	E200.8	0.0300	0.0688	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1759h	E200.8	0.00100	0.00485	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1117h	E200.7	100	1,090	
Manganese	mg/L	12/10/2014 1131h	12/16/2014 1642h	E200.8	0.250	43.4	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1326h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.0100	0.212	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.0200	0.271	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1225h	E200.7	10.0	20.6	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.00500	0.0105	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1117h	E200.7	100	268	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1759h	E200.8	0.000500	0.00148	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 1951h	E200.8	0.000300	0.0207	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1540h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2202h	E200.8	0.0100	1.19	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-005
Client Sample ID: MW-22_11182014
Collection Date: 11/18/2014 1215h
Received Date: 11/21/2014 1300h

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
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	21.5	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/1/2014 2326h	E300.0	10.0	47.3	
Fluoride	mg/L		12/2/2014 1522h	E300.0	0.100	7.10	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	-6.28	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1258h	E353.2	1.00	1.85	
Sulfate	mg/L		12/1/2014 1840h	E300.0	1,000	6,600	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		139	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		123	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	7,670	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.907	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		8,460	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-005A
Client Sample ID: MW-22_11182014
Collection Date: 11/18/2014 1215h
Received Date: 11/21/2014 1300h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1555h

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	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.0	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.6	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	51.6	50.00	103	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-05

Name: American West Analytical Labs

Sample Date: 11/18/2014 12:15 PM

Sample Site: MW-22_11182014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411349

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.8	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11182014	Project: DNMI00100
Sample ID: 361952005	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 18-NOV-14 12:15	
Receive Date: 25-NOV-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		3.58	+/-0.532	0.865	1.00	pCi/L		CXP3	12/18/14	1143	1440072	1

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	EPA 900.1 Modified		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			94.2	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-006
Client Sample ID: MW-23_11192014
Collection Date: 11/19/2014 1040h
Received Date: 11/21/2014 1300h

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	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1802h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1119h	E200.7	100	431	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1802h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1802h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1227h	E200.7	10.0	154	
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0100	0.0119	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1328h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1542h	E200.7	1.00	9.30	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1119h	E200.7	100	375	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1802h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 2004h	E200.8	0.000300	0.00797	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1542h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2205h	E200.8	0.0100	0.0106	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-006
Client Sample ID: MW-23_11192014
Collection Date: 11/19/2014 1040h
Received Date: 11/21/2014 1300h

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
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	292	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/2/2014 1556h	E300.0	1.00	7.91	
Fluoride	mg/L		12/2/2014 1556h	E300.0	0.100	0.163	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	-5.88	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1300h	E353.2	0.100	< 0.100	
Sulfate	mg/L		12/4/2014 1108h	E300.0	1,000	2,450	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		57.1	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		50.8	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	3,290	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.912	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		3,600	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-006A
Client Sample ID: MW-23_11192014
Collection Date: 11/19/2014 1040h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1614h

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	54.9	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.8	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.4	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	51.6	50.00	103	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-06

Name: American West Analytical Labs

Sample Date: 11/19/2014 10:40 AM

Sample Site: MW-23_11192014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411349

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11192014	Project: DNMI00100
Sample ID: 361952006	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 19-NOV-14 10:40	
Receive Date: 25-NOV-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		1.01	+/-0.344	0.895	1.00	pCi/L		CXP3	12/18/14	1143	1440072	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-007
Client Sample ID: MW-24_11192014
Collection Date: 11/19/2014 1015h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1805h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.000500	0.00117	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1121h	E200.7	100	474	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1805h	E200.8	0.0300	0.260	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1805h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1229h	E200.7	10.0	171	
Manganese	mg/L	12/10/2014 1131h	12/16/2014 1645h	E200.8	0.0500	2.23	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1329h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1544h	E200.7	1.00	11.8	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1121h	E200.7	100	478	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1805h	E200.8	0.000500	0.000821	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 2007h	E200.8	0.000300	0.00426	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1544h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2208h	E200.8	0.0100	0.0195	

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 web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

 Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-007
Client Sample ID: MW-24_11192014
Collection Date: 11/19/2014 1015h
Received Date: 11/21/2014 1300h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	224	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/1/2014 2343h	E300.0	10.0	40.9	
Fluoride	mg/L		12/2/2014 1613h	E300.0	0.100	0.109	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	-9.12	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1301h	E353.2	0.100	< 0.100	
Sulfate	mg/L		12/1/2014 1913h	E300.0	1,000	3,120	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		70.6	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		58.8	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	3,960	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.893	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		4,430	

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Laboratory Director

Jose Rocha

QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-007A
Client Sample ID: MW-24_11192014
Collection Date: 11/19/2014 1015h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1634h

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	56.2	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.8	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.5	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	51.9	50.00	104	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-07

Name: American West Analytical Labs

Sample Date: 11/19/2014 10:15 AM

Sample Site: MW-24_11192014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411349

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11192014	Project: DNMI00100
Sample ID: 361952007	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 19-NOV-14 10:15	
Receive Date: 25-NOV-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	0.742	1.00	pCi/L		CXP3	12/18/14	1143	1440072	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.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-001
Client Sample ID: MW-25_11042014
Collection Date: 11/4/2014 1225h
Received Date: 11/7/2014 1000h

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	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	11/7/2014 1132h	11/17/2014 2220h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.000500	0.00157	
Calcium	mg/L	11/7/2014 1132h	11/10/2014 1136h	E200.7	100	331	2
Chromium	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.0100	< 0.0100	
Copper	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2253h	E200.8	0.0300	< 0.0300	
Lead	mg/L	11/7/2014 1132h	11/17/2014 2220h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/7/2014 1132h	11/10/2014 1136h	E200.7	100	112	
Manganese	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.0100	1.52	2
Mercury	mg/L	11/10/2014 1445h	11/11/2014 937h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.0100	0.0119	
Nickel	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/7/2014 1132h	11/10/2014 1346h	E200.7	1.00	9.43	
Selenium	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.00500	< 0.00500	
Silver	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.0100	< 0.0100	1
Sodium	mg/L	11/7/2014 1132h	11/10/2014 1136h	E200.7	100	272	
Thallium	mg/L	11/7/2014 1132h	11/17/2014 2220h	E200.8	0.000500	0.000767	
Tin	mg/L	11/7/2014 1132h	11/17/2014 2129h	E200.8	0.100	< 0.100	
Uranium	mg/L	11/7/2014 1132h	11/17/2014 2248h	E200.8	0.000300	0.00604	
Vanadium	mg/L	11/7/2014 1132h	11/10/2014 1346h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 1945h	E200.8	0.0100	< 0.0100	

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

² - 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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-001
Client Sample ID: MW-25_11042014
Collection Date: 11/4/2014 1225h
Received Date: 11/7/2014 1000h

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
Bicarbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	366	
Carbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/11/2014 217h	E300.0	10.0	29.6	
Fluoride	mg/L		11/11/2014 1514h	E300.0	0.100	0.237	
Ion Balance	%		11/12/2014 1403h	Calc.	-100	-8.16	
Nitrate/Nitrite (as N)	mg/L		11/11/2014 1127h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/10/2014 1842h	E300.0	1,000	1,750	
Total Anions, Measured	meq/L		11/12/2014 1403h	Calc.		44.5	
Total Cations, Measured	meq/L		11/12/2014 1403h	Calc.		37.8	
Total Dissolved Solids	mg/L		11/7/2014 1230h	SM2540C	20.0	2,670	@
Total Dissolved Solids Ratio, Measured/Calculated			11/12/2014 1403h	Calc.		0.981	
Total Dissolved Solids, Calculated	mg/L		11/12/2014 1403h	Calc.		2,720	

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



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-001A
Client Sample ID: MW-25_11042014
Collection Date: 11/4/2014 1225h
Received Date: 11/7/2014 1000h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/10/2014 935h

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	57.8	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.7	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	55.3	50.00	111	80-124	
Surr: Toluene-d8	2037-26-5	52.7	50.00	105	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1412984-01

Name: American West Analytical Labs	Sample Date: 11/4/2014 12:25 PM
Sample Site: MW-25_11042014	Receipt Date: 11/20/2014 10:05 AM
Comments: 4th Quarter Groundwater 2014	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411097	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.5	0.06	0.1	mg/L	SM 4500 NH3-D	11/23/2014 10:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2014

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: GW Monitoring Project

Client Sample ID: MW-25_11042014 Project: DNMI00106
Sample ID: 360919001 Client ID: DNMI001
Matrix: Water
Collect Date: 04-NOV-14 12:25
Receive Date: 10-NOV-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	0.248	+/-0.275	0.980	1.00	pCi/L		CXP3	12/05/14	0954	1440759	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits							
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.2	(25%-125%)							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-008
Client Sample ID: MW-26_11182014
Collection Date: 11/18/2014 1510h
Received Date: 11/21/2014 1300h

Analytical Results

DISSOLVED METALS

3440 South 700 West
 Salt Lake City, UT 84119

 Phone: (801) 263-8686
 Toll Free: (888) 263-8686
 Fax: (801) 263-8687
 e-mail: awal@awal-labs.com

 web: www.awal-labs.com

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1808h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1123h	E200.7	100	482	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1808h	E200.8	0.0300	0.379	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1808h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1231h	E200.7	10.0	171	
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0100	0.933	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1331h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1546h	E200.7	1.00	11.0	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.00500	0.00549	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1231h	E200.7	10.0	179	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1808h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 2010h	E200.8	0.000300	0.0660	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1546h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2212h	E200.8	0.0100	< 0.0100	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-008
Client Sample ID: MW-26_11182014
Collection Date: 11/18/2014 1510h
Received Date: 11/21/2014 1300h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	370	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/2/2014	E300.0	10.0	54.2	
Fluoride	mg/L		12/2/2014 1754h	E300.0	0.100	0.234	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	-3.42	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1302h	E353.2	0.100	1.09	
Sulfate	mg/L		12/1/2014 1930h	E300.0	1,000	1,950	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		49.5	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		46.2	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	2,820	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.920	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		3,070	

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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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-008A
Client Sample ID: MW-26_11182014
Collection Date: 11/18/2014 1510h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/25/2014 1239h

Units: µg/L

Dilution Factor: 50

Method: SW8260C

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	50.0	1,520	-

Phone: (801) 263-8686
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 e-mail: awal@awal-labs.com

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	2,740	2,500	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	2,500	2,500	100	80-128	
Surr: Dibromofluoromethane	1868-53-7	2,550	2,500	102	80-124	
Surr: Toluene-d8	2037-26-5	2,350	2,500	93.8	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 11/21/2014 1653h

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	7.34	
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	55.0	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.6	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	52.3	50.00	105	77-129	



Certificate of Analysis

Lab Sample No.: 1413223-08

Name: American West Analytical Labs	Sample Date: 11/18/2014 3:10 PM
Sample Site: MW-26_11182014	Receipt Date: 11/25/2014 1:21 PM
Comments: 4th Quarter Groundwater	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411349	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.4	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11182014 Project: DNMI00100
Sample ID: 361952008 Client ID: DNMI001
Matrix: Ground Water
Collect Date: 18-NOV-14 15:10
Receive Date: 25-NOV-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		1.83	+/-0.420	0.987	1.00	pCi/L		CXP3	12/18/14	1143	1440072	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-002
Client Sample ID: MW-27_11052014
Collection Date: 11/5/2014 1135h
Received Date: 11/7/2014 1000h

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	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	11/7/2014 1132h	11/17/2014 2223h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/7/2014 1132h	11/10/2014 1143h	E200.7	50.0	151	
Chromium	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.0100	< 0.0100	
Copper	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2257h	E200.8	0.0300	< 0.0300	
Lead	mg/L	11/7/2014 1132h	11/17/2014 2223h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/7/2014 1132h	11/10/2014 1143h	E200.7	50.0	67.8	
Manganese	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	11/10/2014 1445h	11/11/2014 949h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/7/2014 1132h	11/10/2014 1352h	E200.7	1.00	4.22	
Selenium	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.00500	0.0121	
Silver	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/7/2014 1132h	11/10/2014 1143h	E200.7	50.0	67.7	
Thallium	mg/L	11/7/2014 1132h	11/17/2014 2223h	E200.8	0.000500	< 0.000500	
Tin	mg/L	11/7/2014 1132h	11/17/2014 2144h	E200.8	0.100	< 0.100	
Uranium	mg/L	11/7/2014 1132h	11/17/2014 2252h	E200.8	0.000300	0.0242	
Vanadium	mg/L	11/7/2014 1132h	11/10/2014 1352h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 1948h	E200.8	0.0100	< 0.0100	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-002
Client Sample ID: MW-27_11052014
Collection Date: 11/5/2014 1135h
Received Date: 11/7/2014 1000h

Analytical Results

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Kyle F. Gross
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Jose Rocha
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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	413	
Carbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/11/2014 234h	E300.0	10.0	42.6	
Fluoride	mg/L		11/11/2014 1605h	E300.0	0.100	0.564	
Ion Balance	%		11/12/2014 1403h	Calc.	-100	-6.23	
Nitrate/Nitrite (as N)	mg/L		11/11/2014 1134h	E353.2	1.00	7.70	
Sulfate	mg/L		11/10/2014 2040h	E300.0	100	419	
Total Anions, Measured	meq/L		11/12/2014 1403h	Calc.		18.3	
Total Cations, Measured	meq/L		11/12/2014 1403h	Calc.		16.2	
Total Dissolved Solids	mg/L		11/7/2014 1230h	SM2540C	20.0	1,090	
Total Dissolved Solids Ratio, Measured/Calculated			11/12/2014 1403h	Calc.		1.08	
Total Dissolved Solids, Calculated	mg/L		11/12/2014 1403h	Calc.		1,010	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-002A
Client Sample ID: MW-27_11052014
Collection Date: 11/5/2014 1135h
Received Date: 11/7/2014 1000h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/10/2014 1329h

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	57.0	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.4	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	51.3	50.00	103	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1412984-02

Name: American West Analytical Labs	Sample Date: 11/5/2014 11:35 AM
Sample Site: MW-27_11052014	Receipt Date: 11/20/2014 10:05 AM
Comments: 4th Quarter Groundwater 2014	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411097	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.1	mg/L	SM 4500 NH3-D	11/23/2014 10:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-27_11052014	Project: DNMI00106
Sample ID: 360919002	Client ID: DNMI001
Matrix: Water	
Collect Date: 05-NOV-14 11:35	
Receive Date: 10-NOV-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	0.858	+/-0.339	0.994	1.00	pCi/L		CXP3	12/05/14	0954	1440759	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.2	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-003
Client Sample ID: MW-28_11052014
Collection Date: 11/5/2014 1545h
Received Date: 11/7/2014 1000h

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	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.00500	0.0129	
Beryllium	mg/L	11/7/2014 1132h	11/17/2014 2226h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.000500	0.00415	
Calcium	mg/L	11/7/2014 1132h	11/10/2014 1145h	E200.7	100	478	
Chromium	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.0100	0.0264	
Copper	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2300h	E200.8	0.0300	< 0.0300	
Lead	mg/L	11/7/2014 1132h	11/17/2014 2226h	E200.8	0.00100	0.00141	
Magnesium	mg/L	11/7/2014 1132h	11/10/2014 1145h	E200.7	100	162	
Manganese	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.0100	1.56	
Mercury	mg/L	11/10/2014 1445h	11/11/2014 950h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.0200	0.0216	
Potassium	mg/L	11/7/2014 1132h	11/10/2014 1354h	E200.7	1.00	11.9	
Selenium	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.00500	< 0.00500	
Silver	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/7/2014 1132h	11/10/2014 1145h	E200.7	100	277	
Thallium	mg/L	11/7/2014 1132h	11/17/2014 2226h	E200.8	0.000500	0.000660	
Tin	mg/L	11/7/2014 1132h	11/17/2014 2148h	E200.8	0.100	< 0.100	
Uranium	mg/L	11/7/2014 1132h	11/17/2014 2255h	E200.8	0.000300	0.0212	
Vanadium	mg/L	11/7/2014 1132h	11/10/2014 1354h	E200.7	0.0150	0.0293	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2004h	E200.8	0.0100	0.0463	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-003
Client Sample ID: MW-28_11052014
Collection Date: 11/5/2014 1545h
Received Date: 11/7/2014 1000h

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
Bicarbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	144	
Carbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/10/2014 2057h	E300.0	100	117	
Fluoride	mg/L		11/11/2014 1622h	E300.0	0.100	0.601	
Ion Balance	%		11/12/2014 1403h	Calc.	-100	-3.39	
Nitrate/Nitrite (as N)	mg/L		11/11/2014 1135h	E353.2	0.100	0.720	
Sulfate	mg/L		11/10/2014 1933h	E300.0	1,000	2,250	
Total Anions, Measured	meq/L		11/12/2014 1403h	Calc.		53.0	
Total Cations, Measured	meq/L		11/12/2014 1403h	Calc.		49.5	
Total Dissolved Solids	mg/L		11/7/2014 1230h	SM2540C	20.0	3,660	
Total Dissolved Solids Ratio, Measured/Calculated			11/12/2014 1403h	Calc.		1.08	
Total Dissolved Solids, Calculated	mg/L		11/12/2014 1403h	Calc.		3,380	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-003A
Client Sample ID: MW-28_11052014
Collection Date: 11/5/2014 1545h
Received Date: 11/7/2014 1000h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/10/2014 1408h

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	57.2	50.00	114	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.7	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	50.6	50.00	101	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1412984-03

Name: American West Analytical Labs

Sample Date: 11/5/2014 3:45 PM

Sample Site: MW-28_11052014

Receipt Date: 11/20/2014 10:05 AM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411097

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.1	0.06	0.1	mg/L	SM 4500 NH3-D	11/23/2014 10:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-28_11052014	Project: DNMI00106
Sample ID: 360919003	Client ID: DNMI001
Matrix: Water	
Collect Date: 05-NOV-14 15:45	
Receive Date: 10-NOV-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		1.25	+/-0.408	0.993	1.00	pCi/L		CXP3	12/05/14	0954	1440759	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-009
Client Sample ID: MW-29_11102014
Collection Date: 11/10/2014 1530h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2345h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1138h	E200.7	50.0	580	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.120	1.33	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2345h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1138h	E200.7	50.0	267	
Manganese	mg/L	12/10/2014 1103h	12/16/2014 1639h	E200.8	0.0500	5.27	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 1005h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1324h	E200.7	1.00	16.8	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.00500	< 0.00500	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1138h	E200.7	50.0	571	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2345h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1909h	E200.8	0.000300	0.0118	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1324h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2055h	E200.8	0.0100	< 0.0100	

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 web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

 Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-009
Client Sample ID: MW-29_11102014
Collection Date: 11/10/2014 1530h
Received Date: 11/14/2014 1020h

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
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	310	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 1748h	E300.0	10.0	40.3	
Fluoride	mg/L		11/18/2014 2325h	E300.0	0.100	0.619	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	8.07	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1348h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/17/2014 1929h	E300.0	1,000	2,760	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		64.8	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		76.2	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	4,210	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.952	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		4,420	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-009A
Client Sample ID: MW-29_11102014
Collection Date: 11/10/2014 1530h
Received Date: 11/14/2014 1020h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1623h

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	57.8	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.9	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.1	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.0	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-09

Name: American West Analytical Labs

Sample Date: 11/10/2014 3:30 PM

Sample Site: MW-29_11102014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.7	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-29_11102014	Project: DNMI00106
Sample ID: 361392008	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-NOV-14 15:30	
Receive Date: 15-NOV-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		1.50	+/-0.333	0.765	1.00	pCi/L		CXP3	12/07/14	1404	1437763	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-010
Client Sample ID: MW-30_11102014
Collection Date: 11/10/2014 1100h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2348h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1140h	E200.7	20.0	271	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2348h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2348h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1140h	E200.7	20.0	72.1	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0100	0.0157	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 1007h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1326h	E200.7	1.00	6.32	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.00500	0.0368	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1140h	E200.7	20.0	102	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2348h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1922h	E200.8	0.000300	0.00765	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1326h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2108h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-010
Client Sample ID: MW-30_11102014
Collection Date: 11/10/2014 1100h
Received Date: 11/14/2014 1020h

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
Bicarbonate (as CaCO3)	mg/L		11/17/2014 717h	SM2320B	1.00	198	
Carbonate (as CaCO3)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/17/2014 2201h	E300.0	100	154	
Fluoride	mg/L		11/18/2014 2342h	E300.0	0.100	0.262	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	-1.34	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1622h	E353.2	10.0	16.2	
Sulfate	mg/L		11/17/2014 2201h	E300.0	100	774	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		24.7	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		24.0	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	1,460	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.967	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		1,510	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-010A
Client Sample ID: MW-30_11102014
Collection Date: 11/10/2014 1100h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1643h

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	57.7	50.00	115	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.8	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.9	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	49.5	50.00	99.0	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-10

Name: American West Analytical Labs

Sample Date: 11/10/2014 11:00 AM

Sample Site: MW-30_11102014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 9, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-30_11102014	Project: DNMI00106
Sample ID: 361392009	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-NOV-14 11:00	
Receive Date: 15-NOV-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	0.150	+/-0.217	0.817	1.00	pCi/L		CXP3	12/07/14	1404	1437763	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits							
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			95.7	(25%-125%)							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-004
Client Sample ID: MW-31_11042014
Collection Date: 11/4/2014 1400h
Received Date: 11/7/2014 1000h

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	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	11/7/2014 1132h	11/17/2014 2229h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/7/2014 1132h	11/10/2014 1147h	E200.7	50.0	201	
Chromium	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.0100	< 0.0100	
Copper	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2303h	E200.8	0.0300	< 0.0300	
Lead	mg/L	11/7/2014 1132h	11/17/2014 2229h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/7/2014 1132h	11/10/2014 1147h	E200.7	50.0	95.8	
Manganese	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	11/10/2014 1445h	11/11/2014 952h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/7/2014 1132h	11/10/2014 1356h	E200.7	1.00	6.22	
Selenium	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.00500	0.0730	
Silver	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/7/2014 1132h	11/10/2014 1147h	E200.7	50.0	93.1	
Thallium	mg/L	11/7/2014 1132h	11/17/2014 2229h	E200.8	0.000500	< 0.000500	
Tin	mg/L	11/7/2014 1132h	11/17/2014 2151h	E200.8	0.100	< 0.100	
Uranium	mg/L	11/7/2014 1132h	11/17/2014 2258h	E200.8	0.000300	0.00771	
Vanadium	mg/L	11/7/2014 1132h	11/10/2014 1356h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2007h	E200.8	0.0100	< 0.0100	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-004
Client Sample ID: MW-31_11042014
Collection Date: 11/4/2014 1400h
Received Date: 11/7/2014 1000h

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
Bicarbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	165	
Carbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/10/2014 2114h	E300.0	100	204	
Fluoride	mg/L		11/11/2014 1639h	E300.0	0.100	0.605	
Ion Balance	%		11/12/2014 1403h	Calc.	-100	-1.28	
Nitrate/Nitrite (as N)	mg/L		11/11/2014 1143h	E353.2	0.100	20.9	
Sulfate	mg/L		11/10/2014 2114h	E300.0	100	639	
Total Anions, Measured	meq/L		11/12/2014 1403h	Calc.		22.7	
Total Cations, Measured	meq/L		11/12/2014 1403h	Calc.		22.1	
Total Dissolved Solids	mg/L		11/7/2014 1230h	SM2540C	20.0	1,520	
Total Dissolved Solids Ratio, Measured/Calculated			11/12/2014 1403h	Calc.		1.12	
Total Dissolved Solids, Calculated	mg/L		11/12/2014 1403h	Calc.		1,360	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-004A
Client Sample ID: MW-31_11042014
Collection Date: 11/4/2014 1400h
Received Date: 11/7/2014 1000h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/10/2014 1428h

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	60.8	50.00	122	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	56.3	50.00	113	80-128	
Surr: Dibromofluoromethane	1868-53-7	55.8	50.00	112	80-124	
Surr: Toluene-d8	2037-26-5	54.5	50.00	109	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1412984-04

Name: American West Analytical Labs

Sample Date: 11/4/2014 2:00 PM

Sample Site: MW-31_11042014

Receipt Date: 11/20/2014 10:05 AM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411097

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.1	0.06	0.1	mg/L	SM 4500 NH3-D	11/23/2014 10:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-31_11042014	Project: DNMI00106
Sample ID: 360919004	Client ID: DNMI001
Matrix: Water	
Collect Date: 04-NOV-14 14:00	
Receive Date: 10-NOV-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	0.284	+/-0.273	0.987	1.00	pCi/L		CXP3	12/05/14	0954	1440759	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"			97.5	(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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-005
Client Sample ID: MW-32_11052014
Collection Date: 11/5/2014 1300h
Received Date: 11/7/2014 1000h

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	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	11/7/2014 1132h	11/17/2014 2232h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.000500	0.00100	
Calcium	mg/L	11/7/2014 1132h	11/10/2014 1155h	E200.7	100	472	
Chromium	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.0100	0.0360	
Copper	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/16/2014 1632h	E200.8	0.600	4.80	
Lead	mg/L	11/7/2014 1132h	11/17/2014 2232h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/7/2014 1132h	11/10/2014 1155h	E200.7	100	199	
Manganese	mg/L	11/7/2014 1132h	12/16/2014 1629h	E200.8	0.0500	4.98	
Mercury	mg/L	11/10/2014 1445h	11/11/2014 954h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.0200	0.0413	
Potassium	mg/L	11/7/2014 1132h	11/10/2014 1358h	E200.7	1.00	14.7	
Selenium	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.00500	< 0.00500	
Silver	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/7/2014 1132h	11/10/2014 1155h	E200.7	100	214	
Thallium	mg/L	11/7/2014 1132h	11/17/2014 2232h	E200.8	0.000500	< 0.000500	
Tin	mg/L	11/7/2014 1132h	11/17/2014 2204h	E200.8	0.100	< 0.100	
Uranium	mg/L	11/7/2014 1132h	11/17/2014 2301h	E200.8	0.000300	0.00164	
Vanadium	mg/L	11/7/2014 1132h	1/21/2015 1332h	E200.7	0.0150	< 0.0150	^
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2010h	E200.8	0.0100	0.0721	

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

The sample was filtered in the field prior to analysis.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-005
Client Sample ID: MW-32_11052014
Collection Date: 11/5/2014 1300h
Received Date: 11/7/2014 1000h

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
Bicarbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	397	
Carbonate (as CaCO ₃)	mg/L		11/10/2014 852h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/11/2014 251h	E300.0	10.0	33.3	
Fluoride	mg/L		11/11/2014 1656h	E300.0	0.100	0.144	
Ion Balance	%		11/12/2014 1403h	Calc.	-100	-5.02	
Nitrate/Nitrite (as N)	mg/L		11/11/2014 1144h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/10/2014 1949h	E300.0	1,000	2,210	
Total Anions, Measured	meq/L		11/12/2014 1403h	Calc.		54.9	
Total Cations, Measured	meq/L		11/12/2014 1403h	Calc.		49.6	
Total Dissolved Solids	mg/L		11/7/2014 1230h	SM2540C	20.0	3,270	
Total Dissolved Solids Ratio, Measured/Calculated			11/12/2014 1403h	Calc.		0.968	
Total Dissolved Solids, Calculated	mg/L		11/12/2014 1403h	Calc.		3,380	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-005A
Client Sample ID: MW-32_11052014
Collection Date: 11/5/2014 1300h
Received Date: 11/7/2014 1000h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/10/2014 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	58.3	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.2	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.2	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	51.8	50.00	104	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1412984-05

Name: American West Analytical Labs

Sample Date: 11/5/2014 1:00 PM

Sample Site: MW-32_11052014

Receipt Date: 11/20/2014 10:05 AM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411097

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.6	0.06	0.1	mg/L	SM 4500 NH3-D	11/23/2014 10:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 5, 2014

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-32_11052014	Project: DNMI00106
Sample ID: 360919005	Client ID: DNMI001
Matrix: Water	
Collect Date: 05-NOV-14 13:00	
Receive Date: 10-NOV-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		2.56	+/-0.439	0.980	1.00	pCi/L		CXP3	12/05/14	0953	1440759	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.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-011
Client Sample ID: MW-35_11122014
Collection Date: 11/12/2014 830h
Received Date: 11/14/2014 1020h

Contact: Garrin Palmer

Analytical Results

DISSOLVED METALS

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 QA Officer

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2351h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1142h	E200.7	50.0	637	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2351h	E200.8	0.0300	0.0909	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2351h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1142h	E200.7	50.0	195	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0100	0.222	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 1013h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1327h	E200.7	1.00	11.3	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.00500	0.0101	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1142h	E200.7	50.0	481	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2351h	E200.8	0.000500	< 0.000500	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1925h	E200.8	0.000300	0.0196	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1327h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2111h	E200.8	0.0100	< 0.0100	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-011
Client Sample ID: MW-35_11122014
Collection Date: 11/12/2014 830h
Received Date: 11/14/2014 1020h

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
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	370	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 1839h	E300.0	10.0	68.4	
Fluoride	mg/L		11/18/2014 2359h	E300.0	0.100	0.279	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	13.6	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1351h	E353.2	0.100	< 0.100	
Sulfate	mg/L		11/17/2014 1946h	E300.0	1,000	2,080	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		52.6	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		69.1	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	3,720	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		1.01	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		3,690	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-011A
Client Sample ID: MW-35_11122014
Collection Date: 11/12/2014 830h
Received Date: 11/14/2014 1020h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1702h

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	57.9	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.4	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	49.0	50.00	98.1	77-129	



Certificate of Analysis

Lab Sample No.: 1413217-11

Name: American West Analytical Labs	Sample Date: 11/12/2014 8:30 AM
Sample Site: MW-35_11122014	Receipt Date: 11/25/2014 1:21 PM
Comments: 4th Quarter Groundwater 2014	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411223	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.3	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 3, 2015

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-35_11122014	Project: DNMI00106
Sample ID: 366166001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 12-NOV-14 08:30	
Receive Date: 15-NOV-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		3.92	+/-0.633	0.975	1.00	pCi/L		CXP3	02/01/15	1202	1454382	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-012
Client Sample ID: MW-36_11122014
Collection Date: 11/12/2014 955h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2354h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1144h	E200.7	50.0	549	
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2354h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2354h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1144h	E200.7	50.0	175	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 1015h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1329h	E200.7	1.00	9.70	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.00500	0.230	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1144h	E200.7	50.0	879	
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2354h	E200.8	0.000500	0.000663	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1929h	E200.8	0.000300	0.0195	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1329h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2114h	E200.8	0.0100	< 0.0100	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-012
Client Sample ID: MW-36_11122014
Collection Date: 11/12/2014 955h
Received Date: 11/14/2014 1020h

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
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	310	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 1855h	E300.0	10.0	61.2	
Fluoride	mg/L		11/19/2014 049h	E300.0	0.100	< 0.100	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	11.1	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1615h	E353.2	0.100	0.143	
Sulfate	mg/L		11/17/2014 2003h	E300.0	1,000	2,700	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		64.2	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		80.3	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	4,140	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.907	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		4,560	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-012A
Client Sample ID: MW-36_11122014
Collection Date: 11/12/2014 955h
Received Date: 11/14/2014 1020h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1721h

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	56.2	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.4	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.0	50.00	102	80-124	
Surr: Toluene-d8	2037-26-5	47.2	50.00	94.3	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-12

Name: American West Analytical Labs

Sample Date: 11/12/2014 9:55 AM

Sample Site: MW-36_11122014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 3, 2015

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-36_11122014	Project: DNMI00106
Sample ID: 366166002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 12-NOV-14 09:55	
Receive Date: 15-NOV-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	0.930	+/-0.312	0.686	1.00	pCi/L		CXP3	02/02/15	1041	1454382	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits							
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			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: 4th Quarter Groundwater 2014
Lab Sample ID: 1412120-001
Client Sample ID: MW-37_12032014
Collection Date: 12/3/2014 910h
Received Date: 12/5/2014 1025h

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	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1825h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.000500	0.000553	
Calcium	mg/L	12/5/2014 1255h	12/11/2014 1309h	E200.7	100	438	2
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1825h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1825h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	12/5/2014 1255h	12/11/2014 1138h	E200.7	10.0	128	
Manganese	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0100	0.0152	
Mercury	mg/L	12/8/2014 1504h	12/9/2014 1011h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	12/5/2014 1255h	12/11/2014 1331h	E200.7	1.00	16.0	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.00500	0.00557	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	12/5/2014 1255h	12/11/2014 1138h	E200.7	10.0	461	3
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1825h	E200.8	0.000500	0.000934	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 2017h	E200.8	0.000300	0.0120	
Vanadium	mg/L	12/5/2014 1255h	12/11/2014 1331h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2228h	E200.8	0.0100	0.0387	

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



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1412120-001
Client Sample ID: MW-37_12032014
Collection Date: 12/3/2014 910h
Received Date: 12/5/2014 1025h

Contact: Garrin Palmer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		12/8/2014 712h	SM2320B	1.00	224	
Carbonate (as CaCO ₃)	mg/L		12/8/2014 712h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/8/2014 2020h	E300.0	10.0	39.9	
Fluoride	mg/L		12/8/2014 2252h	E300.0	0.100	0.221	
Ion Balance	%		12/11/2014	Calc.	-100	-7.78	
Nitrate/Nitrite (as N)	mg/L		12/24/2014 958h	E353.2	0.100	< 0.100	'@
Sulfate	mg/L		12/8/2014 1839h	E300.0	1,000	2,700	
Total Anions, Measured	meq/L		12/11/2014	Calc.		61.8	
Total Cations, Measured	meq/L		12/11/2014	Calc.		52.9	
Total Dissolved Solids	mg/L		12/8/2014 1230h	SM2540C	20.0	3,880	
Total Dissolved Solids Ratio, Measured/Calculated			12/11/2014	Calc.		0.990	
Total Dissolved Solids, Calculated	mg/L		12/11/2014	Calc.		3,920	

@ - 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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 web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1412120-001A
Client Sample ID: MW-37_12032014
Collection Date: 12/3/2014 910h
Received Date: 12/5/2014 1025h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 12/5/2014 1420h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Butanone	78-93-3	20.0	< 20.0	
Acetone	67-64-1	20.0	< 20.0	
Benzene	71-43-2	1.00	< 1.00	
Carbon tetrachloride	56-23-5	1.00	< 1.00	
Chloroform	67-66-3	1.00	< 1.00	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.2	50.00	96.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.0	50.00	98.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.4	50.00	96.7	80-124	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.9	77-129	



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413608-01

Name: American West Analytical Labs

Sample Date: 12/3/2014 9:10 AM

Sample Site: MW-37_12032014

Receipt Date: 12/5/2014 2:05 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1412120

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.1	0.06	0.1	mg/L	SM 4500 NH3-D	12/14/2014 9:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: January 2, 2015

Company : Energy Fuels Resources (USA), Inc.
Address : 225 Union Boulevard
Suite 600
Lakewood, Colorado 80228
Contact: Ms. Kathy Weinel
Project: GW Monitoring Project

Client Sample ID: MW-37_12032014 Project: DNMI00106
Sample ID: 362602001 Client ID: DNMI001
Matrix: Water
Collect Date: 03-DEC-14 09:10
Receive Date: 08-DEC-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	0.863	+/-0.297	0.772	1.00	pCi/L		CXP3	01/02/15	0749	1446551	i

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-013
Client Sample ID: MW-65_11122014
Collection Date: 11/12/2014 955h
Received Date: 11/14/2014 1020h

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	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1103h	12/12/2014 2357h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	11/17/2014 1223h	11/21/2014 1146h	E200.7	50.0	546	2
Chromium	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0100	< 0.0100	
Copper	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0100	< 0.0100	
Iron	mg/L	12/10/2014 1103h	12/12/2014 2357h	E200.8	0.0300	< 0.0300	
Lead	mg/L	12/10/2014 1103h	12/12/2014 2357h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	11/17/2014 1223h	11/21/2014 1146h	E200.7	50.0	173	
Manganese	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	11/18/2014 1500h	11/19/2014 1017h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	11/17/2014 1223h	11/21/2014 1331h	E200.7	1.00	9.66	
Selenium	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.00500	0.223	
Silver	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/17/2014 1223h	11/21/2014 1146h	E200.7	50.0	860	2
Thallium	mg/L	12/10/2014 1103h	12/12/2014 2357h	E200.8	0.000500	0.000659	
Tin	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1103h	12/16/2014 1932h	E200.8	0.000300	0.0209	
Vanadium	mg/L	11/17/2014 1223h	11/21/2014 1331h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1103h	12/12/2014 2117h	E200.8	0.0100	< 0.0100	

² - 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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-013
Client Sample ID: MW-65_11122014
Collection Date: 11/12/2014 955h
Received Date: 11/14/2014 1020h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	344	
Carbonate (as CaCO ₃)	mg/L		11/17/2014 717h	SM2320B	1.00	< 1.00	
Chloride	mg/L		11/18/2014 1912h	E300.0	10.0	60.9	
Fluoride	mg/L		11/19/2014 106h	E300.0	0.100	< 0.100	
Ion Balance	%		11/21/2014 1408h	Calc.	-100	12.2	
Nitrate/Nitrite (as N)	mg/L		11/20/2014 1618h	E353.2	0.100	0.129	
Sulfate	mg/L		11/17/2014 2020h	E300.0	1,000	2,560	
Total Anions, Measured	meq/L		11/21/2014 1408h	Calc.		62.0	
Total Cations, Measured	meq/L		11/21/2014 1408h	Calc.		79.1	
Total Dissolved Solids	mg/L		11/14/2014 1400h	SM2540C	20.0	4,220	
Total Dissolved Solids Ratio, Measured/Calculated			11/21/2014 1408h	Calc.		0.956	
Total Dissolved Solids, Calculated	mg/L		11/21/2014 1408h	Calc.		4,420	

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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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-013A
Client Sample ID: MW-65_11122014
Collection Date: 11/12/2014 955h
Received Date: 11/14/2014 1020h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1741h

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	60.8	50.00	122	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.3	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	55.7	50.00	111	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



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413217-13

Name: American West Analytical Labs

Sample Date: 11/12/2014 9:55 AM

Sample Site: MW-65_11122014

Receipt Date: 11/25/2014 1:21 PM

Comments: 4th Quarter Groundwater 2014

Sampler: Client

Sample Matrix: Water

Project: Water

PO Number: 1411223

Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.2	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: February 3, 2015

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: GW Monitoring Project

Client Sample ID: MW-65_11122014	Project: DNMI00106
Sample ID: 366166003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 12-NOV-14 09:55	
Receive Date: 15-NOV-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	0.886	+/-0.368	0.991	1.00	pCi/L		CXP3	02/01/15	1202	1454382	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: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-009
Client Sample ID: MW-70_11182014
Collection Date: 11/18/2014 1215h
Received Date: 11/21/2014 1300h

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	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	12/10/2014 1131h	12/16/2014 1812h	E200.8	0.000500	0.0108	
Cadmium	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.000500	0.145	
Calcium	mg/L	11/24/2014 1205h	12/2/2014 1125h	E200.7	100	411	
Chromium	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.0100	0.451	
Copper	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.0100	0.0665	
Iron	mg/L	12/10/2014 1131h	12/16/2014 1812h	E200.8	0.0300	0.0684	
Lead	mg/L	12/10/2014 1131h	12/16/2014 1812h	E200.8	0.00100	0.00487	
Magnesium	mg/L	11/24/2014 1205h	12/2/2014 1125h	E200.7	100	1,050	
Manganese	mg/L	12/10/2014 1131h	12/16/2014 1648h	E200.8	0.250	46.5	
Mercury	mg/L	11/25/2014 1250h	11/26/2014 1333h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.0100	0.212	
Nickel	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.0200	0.261	
Potassium	mg/L	11/24/2014 1205h	12/2/2014 1239h	E200.7	10.0	20.4	
Selenium	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.00500	0.0107	
Silver	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	11/24/2014 1205h	12/2/2014 1239h	E200.7	10.0	268	
Thallium	mg/L	12/10/2014 1131h	12/16/2014 1812h	E200.8	0.000500	0.00150	
Tin	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.100	< 0.100	
Uranium	mg/L	12/10/2014 1131h	12/16/2014 2014h	E200.8	0.000300	0.0201	
Vanadium	mg/L	11/24/2014 1205h	12/2/2014 1553h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	12/10/2014 1131h	12/12/2014 2215h	E200.8	0.0100	1.17	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-009
Client Sample ID: MW-70_11182014
Collection Date: 11/18/2014 1215h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Analytical Results

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Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Bicarbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	27.1	
Carbonate (as CaCO ₃)	mg/L		11/24/2014 951h	SM2320B	1.00	< 1.00	
Chloride	mg/L		12/2/2014 017h	E300.0	10.0	46.4	
Fluoride	mg/L		12/2/2014 1506h	E300.0	0.100	7.00	
Ion Balance	%		12/4/2014 1516h	Calc.	-100	-5.46	
Nitrate/Nitrite (as N)	mg/L		12/2/2014 1304h	E353.2	0.100	1.53	
Sulfate	mg/L		12/1/2014 1947h	E300.0	1,000	6,310	
Total Anions, Measured	meq/L		12/4/2014 1516h	Calc.		133	
Total Cations, Measured	meq/L		12/4/2014 1516h	Calc.		119	
Total Dissolved Solids	mg/L		11/21/2014 1700h	SM2540C	20.0	8,000	
Total Dissolved Solids Ratio, Measured/Calculated			12/4/2014 1516h	Calc.		0.984	
Total Dissolved Solids, Calculated	mg/L		12/4/2014 1516h	Calc.		8,130	

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-009A
Client Sample ID: MW-70_11182014
Collection Date: 11/18/2014 1215h
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1713h

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	56.3	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.5	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.7	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	52.1	50.00	104	77-129	

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Jose Rocha
QA Officer



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1413223-09

Name: American West Analytical Labs	Sample Date: 11/18/2014 12:15 PM
Sample Site: MW-70_11182014	Receipt Date: 11/25/2014 1:21 PM
Comments: 4th Quarter Groundwater	Sampler: Client
Sample Matrix: Water	Project: Water
PO Number: 1411349	Project Number:

Parameter	Sample Result	Method Detection Limit	Minimum Reporting Limit	Units	Analytical Method	Analysis Date/Time	CAS No.	Flag
Inorganic								
Ammonia as N	0.7	0.06	0.2	mg/L	SM 4500 NH3-D	11/28/2014 8:00	7664-41-7	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: December 22, 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_11182014	Project: DNMI00100
Sample ID: 361952009	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 18-NOV-14 12:15	
Receive Date: 25-NOV-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		3.91	+/-0.554	0.750	1.00	pCi/L		CXP3	12/18/14	1410	1440072	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"			86.3	(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.



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1412120-003A
Client Sample ID: Trip Blank
Collection Date: 12/3/2014
Received Date: 12/5/2014 1025h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 12/5/2014 1459h

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	48.1	50.00	96.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.2	50.00	96.4	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.7	50.00	97.3	80-124	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.8	77-129	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411349-010A
Client Sample ID: Trip Blank
Collection Date: 11/17/2014
Received Date: 11/21/2014 1300h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/21/2014 1732h

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	55.9	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.2	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.9	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	52.4	50.00	105	77-129	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411097-006A
Client Sample ID: Trip
Collection Date: 11/4/2014
Received Date: 11/7/2014 1000h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/10/2014 1507h

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	58.8	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.3	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.0	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	52.2	50.00	104	77-129	



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Sample ID: 1411223-014A
Client Sample ID: Trip Blank
Collection Date: 11/10/2014
Received Date: 11/14/2014 1020h Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 11/17/2014 1800h

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	58.9	50.00	118	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.3	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.3	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	77-129	



December 05, 2014

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: GW Monitoring Project
Work Order: 360919

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 10, 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. 4487.

Sincerely,

Sylainna Rivers
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
GW Monitoring Project
SDG: 360919**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 360919**

December 05, 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 November 10, 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:

<u>Laboratory ID</u>	<u>Client ID</u>
360919001	MW-25_11042014
360919002	MW-27_11052014
360919003	MW-28_11052014
360919004	MW-31_11042014
360919005	MW-32_11052014

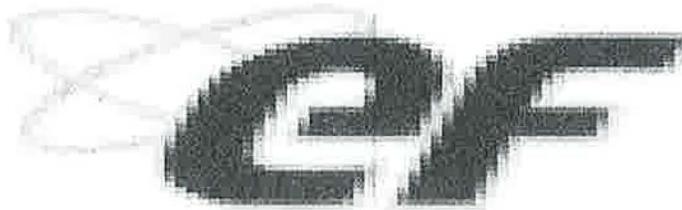
Case Narrative:

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.



Sylaenna Rivers
Project Manager



360919

Sheet 2 of 2

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories Contact: Garrin Palmer
2040 Savage Road Ph: 435 678 2221
Charleston, SC 29407 gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
4th Quarter Ground Water 2014	Garrin Palmer		<i>Garrin Palmer</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-25_11042014	11/4/2014	1225	Gross Alpha
MW-27_11052014	11/5/2014	1135	Gross Alpha
MW-28_11052014	11/5/2014	1545	Gross Alpha
MW-31_11042014	11/4/2014	1400	Gross Alpha
MW-32_11052014	11/5/2014	1300	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Garrin Palmer</i>	Date/Time 11/6/14/1200	Received By:(Signature) <i>[Signature]</i>	Date/Time 11/10/14 1010
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DMMJ</u>		SDG/AR/COC/Work Order: <u>360919</u>	
Received By: <u>PS</u>		Date Received: <u>11/10/14 @ 10:10</u>	
Suspected Hazard Information		Yes	No
COC/Samples marked as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Classified Radioactive II or III by RSO?		<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples marked containing PCBs?		<input type="checkbox"/>	<input type="checkbox"/>
Package, COC, and/or Samples marked as beryllium or asbestos containing?		<input type="checkbox"/>	<input type="checkbox"/>
Shipped as a DOT Hazardous?		<input type="checkbox"/>	<input type="checkbox"/>
Samples identified as Foreign Soil?		<input 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"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			16°C Preservation Method: Ice bags Blue ice Dry ice <u>(None)</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>130532792</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: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8032 7102 5790</u>

Comments (Use Continuation Form if needed):

GEL Laboratories LLC – Login Review Report

Report Date: 05-DEC-14
 Work Order: 360919
 Page 1 of 2

GEL Work Order/SDG: 360919

Work Order Due Date: 08-DEC-14

Collector: C

Client SDG: 360919

Package Due Date: 05-DEC-14

Prelogin #: 20141123762

Project Manager: Sylainna Rivers

EDD Due Date: 08-DEC-14

Project Workdef ID: 1329132

Project Name: DNMI00106 GW Monitoring Project

Due Date: 08-DEC-14

SDG Status: Closed

Purchase Order: DW16138

SXK1

Logged by:

Package Level: LEVEL3

EDD Format: EIM_DNMI

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
360919001	MW-25_11042014		04-NOV-14 12:25	10-NOV-14 10:10	-2	1	WATER		20		1		
360919002	MW-27_11052014		05-NOV-14 11:35	10-NOV-14 10:10	-2	1	WATER		20		1		
360919003	MW-28_11052014		05-NOV-14 15:45	10-NOV-14 10:10	-2	1	WATER		20		1		
360919004	MW-31_11042014		04-NOV-14 14:00	10-NOV-14 10:10	-2	1	WATER		20		1		
360919005	MW-32_11052014		05-NOV-14 13:00	10-NOV-14 10:10	-2	1	WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-25_11042014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 16	
-002 MW-27_11052014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 16	
-003 MW-28_11052014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 16	
-004 MW-31_11042014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 16	
-005 MW-32_11052014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 16	

Product: GFCTORAL	Workdef ID: 1329138	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				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	No

GEL Laboratories LLC – Login Review Report

Report Date: 05-DEC-14
Work Order: 360919
Page 2 of 2

Action	Product Name	Description	Samples
Contingent Tests			

Login Requirements:

Requirement	Include? Comments

Peer Review by: _____ Work Order (SDG#), PO# Checked? _____ C of C signed in receiver location? _____

List of current GEL Certifications as of 05 December 2014

State	Certification
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	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 360919**

Method/Analysis Information

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 900.1 Modified

Analytical Batch Number: 1440759

Sample ID	Client ID
360919001	MW-25_11042014
360919002	MW-27_11052014
360919003	MW-28_11052014
360919004	MW-31_11042014
360919005	MW-32_11052014
1203221861	MB for batch 1440759
1203221865	Laboratory Control Sample (LCS)
1203221862	360919001(MW-25_11042014) Sample Duplicate (DUP)
1203221863	360919001(MW-25_11042014) Matrix Spike (MS)
1203221864	360919001(MW-25_11042014) 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: 360919001 (MW-25_11042014).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

Samples were reprepared due to low recovery. The re-analysis is being reported.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Recounts

None of the samples in this sample set were recounted.

Miscellaneous Information:

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

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, 1203221863 (MW-25_11042014MS) and 1203221864 (MW-25_11042014MSD), 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: 360919 GEL Work Order: 360919

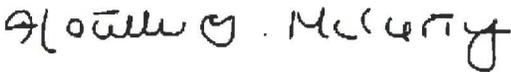
The Qualifiers in this report are defined as follows:

- * 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: 05 DEC 2014

Title: Analyst II

GEL LABORATORIES LLC

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

QC Summary

Report Date: December 5, 2014

Page 1 of 2

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 360919

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1440759										
QC1203221862	360919001		DUP								
Gross Radium Alpha	U	0.248	U	0.785	pCi/L	N/A		N/A	CXP3	12/05/14	09:54
	Uncertainty	+/-0.275		+/-0.323							
QC1203221865	LCS										
Gross Radium Alpha		413		391	pCi/L		94.8	(75%-125%)		12/05/14	09:54
	Uncertainty			+/-5.78							
QC1203221861	MB										
Gross Radium Alpha			U	0.0812	pCi/L					12/05/14	09:54
	Uncertainty			+/-0.233							
QC1203221863	360919001		MS								
Gross Radium Alpha	1680	U	0.248	1390	pCi/L		82.8	(75%-125%)		12/05/14	09:54
	Uncertainty		+/-0.275	+/-21.5							
QC1203221864	360919001		MSD								
Gross Radium Alpha	1680	U	0.248	1670	pCi/L	18.7	99.9	(0%-20%)		12/05/14	09:54
	Uncertainty		+/-0.275	+/-26.5							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- NI See case narrative
- ND Analyte concentration is not detected above the detection limit

GEL LABORATORIES LLC

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

QC Summary

Workorder: 360919

Page 2 of 2

Parname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the CRDL.									
UI	Gamma Spectroscopy--Uncertain identification									
UJ	Gamma Spectroscopy--Uncertain identification									
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.



December 09, 2014

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: GW Monitoring Project
Work Order: 361392

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 15, 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. 4487.

Sincerely,

Sylainna Rivers
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
GW Monitoring Project
SDG: 361392**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 361392**

December 09, 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 November 15, 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:

<u>Laboratory ID</u>	<u>Client ID</u>
361392001	MW-05_11112014
361392002	MW-1211112014
361392003	MW-14_11122014
361392004	MW-15_11122014
361392005	MW-17_11122014
361392006	MW-18_11102014
361392007	MW-19_11112014
361392008	MW-29_11102014
361392009	MW-30_11102014
361392010	MW-35_11122014
361392011	MW-36_11122014
361392012	MW-65_11122014

*data were re-run + re-reported in
SDG 366166*

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 cursive script that reads "Sylainna Rivers".

Sylainna Rivers
Project Manager



301392

Sheet 2 of 2

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories Contact: Garrin Palmer
2040 Savage Road Ph: 435 678 2221
Charleston, SC 29407 gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
4th Quarter Ground Water 2014	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-03 11122014	11/12/2014	645	Gross Alpha
MW-05 11112014	11/11/2014	1000	Gross Alpha
MW-12 11112014	11/11/2014	1300	Gross Alpha
MW-14 11122014	11/12/2014	1255	Gross Alpha
MW-15 11122014	11/12/2014	1555	Gross Alpha
MW-17 11122014	11/12/2014	1110	Gross Alpha
MW-18 11102014	11/10/2014	1330	Gross Alpha
MW-19 11112014	11/11/2014	1520	Gross Alpha
MW-29 11102014	11/10/2014	1530	Gross Alpha
MW-30 11102014	11/10/2014	1100	Gross Alpha
MW-35 11122014	11/12/2014	830	Gross Alpha
MW-36 11122014	11/12/2014	955	Gross Alpha
MW-65 11122014	11/12/2014	955	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Tanner Holliday</i>	Date/Time 11/13/2014 1000	Received By:(Signature) <i>P. Lent</i>	Date/Time 0850 11-15-14
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DNME</u>		SDG/AR/COC/Work Order: <u>361392</u>
Received By: <u>P. Lent</u>		Date Received: <u>11-15-14</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0/cpm</u>
Classified Radioactive II or III by RSO?	<input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input checked="" type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input checked="" type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: Ice bags <u>Blue ice</u> Dry ice <u>None</u> Other (describe) <u>12c</u> *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <u>130462966</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 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>8015 5301 6759</u>

Comments (Use Continuation Form if needed):

GEL Laboratories LLC – Login Review Report

Report Date: 09-DEC-14
 Work Order: 361392
 Page 1 of 2

GEL Work Order/SDG: 361392 4th Quarter Ground Water 2014
 Client SDG: 361392
 Project Manager: Sylainna Rivers
 Project Name: DNMI00106 GW Monitoring Project
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 12-DEC-14
 Package Due Date: 09-DEC-14
 EDD Due Date: 12-DEC-14
 Due Date: 12-DEC-14
 SXX1

Collector: C
 Prelogin #: 20141124038
 Project Workdef ID: 1329132
 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
361392001	MW-05_1112014		11-NOV-14 10:00	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392002	MW-121112014		11-NOV-14 13:00	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392003	MW-14_11122014		12-NOV-14 12:55	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392004	MW-15_11122014		12-NOV-14 15:55	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392005	MW-17_11122014		12-NOV-14 11:10	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392006	MW-18_11102014		10-NOV-14 13:30	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392007	MW-19_1112014		11-NOV-14 15:20	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392008	MW-29_11102014		10-NOV-14 15:30	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392009	MW-30_11102014		10-NOV-14 11:00	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392010	MW-35_11122014		12-NOV-14 08:30	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392011	MW-36_11122014		12-NOV-14 09:55	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
361392012	MW-65_11122014		12-NOV-14 09:55	15-NOV-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-05_1112014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-121112014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 MW-14_11122014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-15_11122014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-17_11122014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-006 MW-18_11102014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-007 MW-19_1112014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-008 MW-29_11102014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-009 MW-30_11102014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-010 MW-35_11122014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-011 MW-36_11122014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-012 MW-65_11122014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

GEL Laboratories LLC – Login Review Report

Report Date: 09-DEC-14
 Work Order: 361392
 Page 2 of 2

Product: GFCTORAL Workdef ID: 1329138 In Product Group? No Group Name: Group Reference:
 Method: EPA 900.1 Modified Path: Standard
 Product Description: GFPC, Total Alpha Radium, Liquid Product Reference: Gross Alpha
 Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012 Moisture Correction: "As Received"

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	No

Action	Product Name	Description	Samples
Contingent Tests			

Login Requirements:

Requirement	Include?	Comments

Peer Review by: _____ Work Order (SDG#), PO# Checked? _____ C of C signed in receiver location? _____

List of current GEL Certifications as of 09 December 2014

State	Certification
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	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 361392**

Method/Analysis Information

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 900.1 Modified

Analytical Batch Number: 1437763

Sample ID	Client ID
361392001	MW-05_11112014
361392002	MW-1211112014
361392003	MW-14_11122014
361392004	MW-15_11122014
361392005	MW-17_11122014
361392006	MW-18_11102014
361392007	MW-19_11112014
361392008	MW-29_11102014
361392009	MW-30_11102014
361392010	MW-35_11122014
361392011	MW-36_11122014
361392012	MW-65_11122014
1203214077	MB for batch 1437763
1203214081	Laboratory Control Sample (LCS)
1203214078	361392001(MW-05_11112014) Sample Duplicate (DUP)
1203214079	361392001(MW-05_11112014) Matrix Spike (MS)
1203214080	361392001(MW-05_11112014) 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: 361392001 (MW-05_11112014).

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, 1203214079 (MW-05_11112014MS) and 1203214080 (MW-05_11112014MSD), 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: 361392 GEL Work Order: 361392

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: 09 DEC 2014

Title: Analyst I

GEL LABORATORIES LLC

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

QC Summary

Report Date: December 9, 2014

Page 1 of 2

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 361392

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1437763										
QC1203214078	361392001	DUP									
Gross Radium Alpha		U	0.235	U	0.122	pCi/L	N/A		N/A	CXP3	12/07/14 14:28
		Uncertainty	+/-0.197		+/-0.161						
QC1203214081	LCS										
Gross Radium Alpha	413				424	pCi/L	103	(75%-125%)			12/07/14 14:31
		Uncertainty			+/-4.90						
QC1203214077	MB										
Gross Radium Alpha				U	0.148	pCi/L					12/07/14 14:05
		Uncertainty			+/-0.259						
QC1203214079	361392001	MS									
Gross Radium Alpha	1670	U	0.235		1660	pCi/L	99.4	(75%-125%)			12/07/14 14:28
		Uncertainty	+/-0.197		+/-18.7						
QC1203214080	361392001	MSD									
Gross Radium Alpha	1670	U	0.235		1660	pCi/L	0.120	99.3	(0%-20%)		12/07/14 14:31
		Uncertainty	+/-0.197		+/-19.1						

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.
- NI See case narrative
- ND Analyte concentration is not detected above the detection limit

GEL LABORATORIES LLC

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

QC Summary

Workorder: 361392

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.



December 21, 2014

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 361952

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 25, 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. 4487.

Sincerely,

Sylainna Rivers
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 361952**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 361952**

December 21, 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 November 25, 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:

<u>Laboratory ID</u>	<u>Client ID</u>
361952001	MW-01_11172014
361952002	MW-02_11172014
361952003	MW-03_11172014
361952004	MW-11_11172014
361952005	MW-22_11182014
361952006	MW-23_11192014
361952007	MW-24_11192014
361952008	MW-26_11182014
361952009	MW-70_11182014
361952010	MW-03A_11132014

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 cursive script that reads "Sylainna Rivers".

Sylainna Rivers
Project Manager

361952



CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories **Contact:** Garrin Palmer
2040 Savage Road Ph: 435 678 2221
Charleston, SC 29407 gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
4th Quarter Ground Water 2014	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-01_11172014	11/17/2014	1245	Gross Alpha
MW-02_11172014	11/17/2014	1435	Gross Alpha
MW-03_11172014	11/17/2014	1410	Gross Alpha
MW-11_11172014	11/17/2014	1210	Gross Alpha
MW-22_11182014	11/18/2014	1215	Gross Alpha
MW-23_11192014	11/19/2014	1040	Gross Alpha
MW-24_11192014	11/19/2014	1015	Gross Alpha
MW-26_11182014	11/18/2014	1510	Gross Alpha
MW-70_11182014	11/18/2014	1215	Gross Alpha
MW-03A_11132014	11/13/2014	615	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Tanner Holliday</i>	Date/Time 11/20/2014 1000	Received By:(Signature) <i>P. Dent</i>	Date/Time 11-26-14 0930
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DJMT</u>		SDG/AR/COC/Work Order: <u>361952</u>
Received By: <u>P. Went</u>		Date Received: <u>4-25-14</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0/CPM</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____
Samples identified as Foreign Soil?	<input type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		<input checked="" type="checkbox"/>	<u>21</u>	Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <u>130462966</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 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: <u>FedEx Air</u> FedEx Ground UPS Field Services Courier Other <u>8032 7121 5626-21</u>

Comments (Use Continuation Form if needed):

GEL Laboratories LLC – Login Review Report

Report Date: 21-DEC-14
 Work Order: 361952
 Page 1 of 2

GEL Work Order/SDG: 361952 **4th Qtr Ground Water 2014**
Client SDG: 361952
Project Manager: Sylainna Rivers
Project Name: DNMI00100 White Mesa Mill GW
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 23-DEC-14
Package Due Date: 20-DEC-14
EDD Due Date: 23-DEC-14
Due Date: 23-DEC-14
SXX1

Collector: C
Prelogin #: 20141124380
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
361952001	MW-01_11172014		17-NOV-14 12:45	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952002	MW-02_11172014		17-NOV-14 14:35	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952003	MW-03_11172014		17-NOV-14 14:10	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952004	MW-11_11172014		17-NOV-14 12:10	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952005	MW-22_11182014		18-NOV-14 12:15	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952006	MW-23_11192014		19-NOV-14 10:40	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952007	MW-24_11192014		19-NOV-14 10:15	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952008	MW-26_11182014		18-NOV-14 15:10	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952009	MW-70_11182014		18-NOV-14 12:15	25-NOV-14 09:30	-2	1	GROUND WATER		20		1		
361952010	MW-03A_11132014		13-NOV-14 06:15	25-NOV-14 09:30	-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_11172014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21
-002 MW-02_11172014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21
-003 MW-03_11172014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21
-004 MW-11_11172014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21
-005 MW-22_11182014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21
-006 MW-23_11192014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21
-007 MW-24_11192014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21
-008 MW-26_11182014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 21

GEL Laboratories LLC – Login Review Report

Report Date: 21-DEC-14
 Work Order: 361952
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-009 MW-70_11182014	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	Y
				Temperature (C)	21
-010 MW-03A_11132014	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha	Cooler Seal Undisturbed	Y
				Temperature (C)	21

Product: GFCTORAL	Workdef ID: 1297250	In Product Group? No	Group Name:	Group Reference:
Method: EPA 900.1 Modified				Path: Standard
Product Description: GFPC, Total Alpha Radium, Liquid				Product Reference: Gross Alpha
Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010				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 21 December 2014

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
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	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 361952**

Method/Analysis Information

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 900.1 Modified

Analytical Batch Number: 1440072

Sample ID	Client ID
361952001	MW-01_11172014
361952002	MW-02_11172014
361952003	MW-03_11172014
361952004	MW-11_11172014
361952005	MW-22_11182014
361952006	MW-23_11192014
361952007	MW-24_11192014
361952008	MW-26_11182014
361952009	MW-70_11182014
361952010	MW-03A_11132014
1203220078	MB for batch 1440072
1203220082	Laboratory Control Sample (LCS)
1203220079	361952001(MW-01_11172014) Sample Duplicate (DUP)
1203220080	361952001(MW-01_11172014) Matrix Spike (MS)
1203220081	361952001(MW-01_11172014) 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: 361952001 (MW-01_11172014).

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 1203220078 (MB), 361952003 (MW-03_11172014) and 361952009 (MW-70_11182014) were recounted due to high MDCs. The recounts 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.

Manual Integration

No manual integrations were performed on data in this batch.

Sample-Specific MDA/MDC

The MDA/MDC reported on the certificate of analysis is a sample-specific MDA/MDC.

Additional Comments

The matrix spike and matrix spike duplicate, 1203220080 (MW-01_11172014MS) and 1203220081 (MW-01_11172014MSD), 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: 361952 GEL Work Order: 361952

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: 22 DEC 2014

Title: Group Leader

GEL LABORATORIES LLC

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

QC Summary

Report Date: December 22, 2014

Page 1 of 2

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 361952

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1440072										
QC1203220079	361952001	DUP									
Gross Radium Alpha		U	0.271	U	0.337	pCi/L	N/A		N/A	CXP3	12/18/14 11:44
		Uncertainty	+/-0.217		+/-0.232						
QC1203220082	LCS										
Gross Radium Alpha	413				403	pCi/L	97.7	(75%-125%)			12/18/14 11:44
		Uncertainty			+/-5.43						
QC1203220078	MB										
Gross Radium Alpha				U	0.0798	pCi/L					12/19/14 11:44
		Uncertainty			+/-0.180						
QC1203220080	361952001	MS									
Gross Radium Alpha	1670	U	0.271		1640	pCi/L	97.8	(75%-125%)			12/18/14 11:44
		Uncertainty	+/-0.217		+/-20.6						
QC1203220081	361952001	MSD									
Gross Radium Alpha	1670	U	0.271		1570	pCi/L	4.22	93.8	(0%-20%)		12/18/14 11:44
		Uncertainty	+/-0.217		+/-20.0						

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: 361952

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.



January 02, 2015

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: GW Monitoring Project
Work Order: 362602

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 08, 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. 4487.

Sincerely,

Joanne Harley for
Sylainna Rivers
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
GW Monitoring Project
SDG: 362602**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 362602**

January 02, 2015

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on December 08, 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.

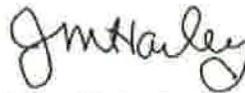
Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
362602001	MW-37_12032014
362602002	MW-20_12032014

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.



Joanne Harley for
Sylainna Rivers
Project Manager

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DNMI</u>		SDG/AR/COC/Work Order: <u>362602</u>
Received By: <u>SHANTA MACK</u>		Date Received: <u>12-8-14 @ 9:15</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0 cpm</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/>	If yes, samples are to be segregated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?	<input type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/>	

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input type="checkbox"/>			Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius <u>12°C</u>
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: 130532792 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 type="checkbox"/>			Sample ID's and containers affected:
7 Are Encore containers present?	<input type="checkbox"/>		<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 <u>UPS</u> Field Services Courier Other <u>12187 444 12910 5 5838</u>

Comments (Use Continuation Form if needed):

GEL Laboratories LLC – Login Review Report

Report Date: 02-JAN-15
 Work Order: 362602
 Page 1 of 2

GEL Work Order/SDG: 362602 **4th Qtr Ground Water 2014**
Client SDG: 362602
Project Manager: Sylainna Rivers
Project Name: DNMI00106 GW Monitoring Project
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 05-JAN-15
Package Due Date: 02-JAN-15
EDD Due Date: 05-JAN-15
Due Date: 05-JAN-15
SXX1

Collector: C
Prelogin #: 20141224753
Project Workdef ID: 1329132
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
362602001	MW-37_12032014		03-DEC-14 09:10	08-DEC-14 09:15	-2	1	WATER		20		1		
362602002	MW-20_12032014		03-DEC-14 09:30	08-DEC-14 09:15	-2	1	WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-37_12032014	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 12
-002 MW-20_12032014	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed Temperature (C)	Y 12

Product: GFCTORAL	Workdef ID: 1329138	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	No

Action	Product Name	Description	Samples
Contingent Tests			

GEL Laboratories LLC – Login Review Report

Report Date: 02-JAN-15
Work Order: 362602
Page 2 of 2

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 02 January 2015

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
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 SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA150001
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	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 362602**

Method/Analysis Information

Product: GFPC, Total Alpha Radium, Liquid
Analytical Method: EPA 900.1 Modified
Analytical Batch Number: 1446551

Sample ID	Client ID
362602001	MW-37_12032014
362602002	MW-20_12032014
1203236046	MB for batch 1446551
1203236050	Laboratory Control Sample (LCS)
1203236047	362602001(MW-37_12032014) Sample Duplicate (DUP)
1203236048	362602001(MW-37_12032014) Matrix Spike (MS)
1203236049	362602001(MW-37_12032014) 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: 362602001 (MW-37_12032014).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time

All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis

Samples were re-prepped due to low recovery. The re-analysis is being reported.

Chemical Recoveries

All chemical recoveries meet the required acceptance limits for this sample set.

Recounts

None of the samples in this sample set were recounted.

Miscellaneous Information:

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

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, 1203236048 (MW-37_12032014MS) and 1203236049 (MW-37_12032014MSD), 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: 362602 GEL Work Order: 362602

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: 02 JAN 2015

Title: Analyst I

GEL LABORATORIES LLC

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

QC Summary

Report Date: January 2, 2015

Page 1 of 2

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 362602

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1446551										
QC1203236047	362602001	DUP									
Gross Radium Alpha		U	0.863	U	0.839	pCi/L	N/A		N/A	CXP3	01/02/15 07:49
		Uncertainty	+/-0.297		+/-0.337						
QC1203236050	LCS										
Gross Radium Alpha	413				378	pCi/L	91.7	(75%-125%)			01/02/15 07:49
		Uncertainty			+/-5.23						
QC1203236046	MB										
Gross Radium Alpha			U		0.154	pCi/L					01/02/15 07:49
		Uncertainty			+/-0.228						
QC1203236048	362602001	MS									
Gross Radium Alpha	3350	U	0.863		3010	pCi/L	89.9	(75%-125%)			01/02/15 07:49
		Uncertainty	+/-0.297		+/-40.7						
QC1203236049	362602001	MSD									
Gross Radium Alpha	3350	U	0.863		3450	pCi/L	13.4	103	(0%-20%)		01/02/15 07:49
		Uncertainty	+/-0.297		+/-45.8						

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: 362602

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.



February 03, 2015

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: GW Monitoring Project
Work Order: 366166

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 15, 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. 4487.

Sincerely,

Hope Taylor for
Sylainna Rivers
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
GW Monitoring Project
SDG: 366166**

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 366166

February 03, 2015

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on November 15, 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.

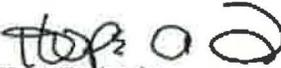
Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
366166001	MW-35_11122014
366166002	MW-36_11122014
366166003	MW-65_11122014

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.


Hope Taylor for
Sylainna Rivers
Project Manager



361392

Sheet 2 of 2

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories Contact: Garrin Palmer
2040 Savage Road Ph: 435 678 2221
Charleston, SC 29407 gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
4th Quarter Ground Water 2014	Tanner Holliday		<i>Tanner Holliday</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-05_11112014	11/13/2014	645	Gross Alpha
MW-05_11112014	11/11/2014	1000	Gross Alpha
MW-12_11112014	11/11/2014	1300	Gross Alpha
MW-14_11122014	11/12/2014	1255	Gross Alpha
MW-15_11122014	11/12/2014	1555	Gross Alpha
MW-17_11122014	11/12/2014	1110	Gross Alpha
MW-18_11102014	11/10/2014	1330	Gross Alpha
MW-19_11112014	11/11/2014	1520	Gross Alpha
MW-29_11102014	11/10/2014	1530	Gross Alpha
MW-30_11102014	11/10/2014	1100	Gross Alpha
MW-35_11122014	11/12/2014	830	Gross Alpha
MW-36_11122014	11/12/2014	955	Gross Alpha
MW-65_11122014	11/12/2014	955	Gross Alpha
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Tanner Holliday</i>	Date/Time 11/13/2014 1000	Received By:(Signature) <i>P. Palmer</i>	Date/Time 08:50 11-15-14
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DWME</u>		SDG/AR/COC/Work Order: <u>361392</u>
Received By: <u>P. Lent</u>		Date Received: <u>11-15-14</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?	<input type="checkbox"/> <input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0/cpm</u>
Classified Radioactive II or III by RSO?	<input type="checkbox"/> <input checked="" type="checkbox"/>	If yes, Were swipes taken of sample containers < action levels?
COC/Samples marked containing PCBs?	<input type="checkbox"/> <input checked="" type="checkbox"/>	
Package, COC, and/or Samples marked as beryllium or asbestos containing?	<input type="checkbox"/> <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 type="checkbox"/> <input checked="" type="checkbox"/>	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?	<input type="checkbox"/> <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 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) <u>12c</u> *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <u>130462966</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected:
7 Are Encore containers present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other <u>8015 5301 6759</u>

Comments (Use Continuation Form if needed):

Subject: RE: Question on data for MW-35 and MW-36 WO 361392

From: Kathy Weinel <KWeinel@energyfuels.com>

Date: 1/30/2015 11:51 AM

To: Sylainna Rivers <Sylainna.Rivers@gel.com>

Sylainna,

Could you also add 361392012 (MW-65) which is the duplicate of 361392011 (MW-36)? If it's too late no problem, but since the sample and duplicate were so different I thought (this morning in the shower!) that it might be a good idea to reanalyze that one as well.

K



Kathy Weinel

Quality Assurance Manager

t: 303-389-4134 | f: 303-389-4125

225 Union Blvd., Suite 600

Lakewood, CO, US, 80228

<http://www.energyfuels.com>

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From: Sylainna Rivers [mailto:Sylainna.Rivers@gel.com]
Sent: Friday, January 30, 2015 9:46 AM
To: Kathy Weinel
Subject: Re: Question on data for MW-35 and MW-36 WO 361392

Kathy,

To follow up with our call on yesterday, we are going to proceed with reanalysis of 361392010 (MW-35_11122014) and 361392011(MW-36_11122014) with expedited TAT. The lab will prioritize this workorder and expect to be complete with analysis and reporting on 2/4. However if it is done sooner, we will send earlier. Please let me know if you have any questions.

Thanks

Sylainna

On 1/22/2015 5:58 PM, Kathy Weinel wrote:

Sylainna,

The GEL sample numbers for the 2 samples I have questions about are: 361392010 and 361392011.

The results for both of these samples appear to be off by an order of magnitude – for 010 the results have been running around 3.5 to 5.0. The November sample is 48.5. For sample 011 the results usually run about 2.0. The November result is 22.....

Can you have someone check the dilution factors and calcs and data? It seems suspicious that the data are almost exactly an order of magnitude higher than usual.

Thanks

K

 Energy Fuels Resources (USA) Inc.

Kathy Weinel

Quality Assurance Manager

t: 303-389-4134 | f: 303-389-4125

225 Union Blvd., Suite 600

Lakewood, CO, US, 80228

<http://www.energyfuels.com>

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Sylainna Rivers

Project Manager

GEL Laboratories, LLC

2040 Savage Road

Charleston, SC (USA) 29407

Direct: 843.769.7371

Main: 843.556.8171 xt 4487

Fax: 843.766.1178

E-mail: sylainna.rivers@gel.com

Web: www.gel.com

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GEL Laboratories LLC – Login Review Report

Report Date: 03-FEB-15
 Work Order: 366166
 Page 1 of 2

GEL Work Order/SDG: 366166 Relog of 361392010
 Client SDG: 366166
 Project Manager: Sylainna Rivers
 Project Name: DNMI00106 GW Monitoring Project
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 04-FEB-15
 Package Due Date: 03-FEB-15
 EDD Due Date: 04-FEB-15
 Due Date: 04-FEB-15
 GL Review Fractions: Rad

Collector: C
 Prelogin #: 20141124038
 Project Workdef ID: 1329132
 SDG Status: Closed
 Logged by: SXX1

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
366166001	MW-35_11122014	-Relog from 361392010	12-NOV-14 08:30	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
366166002	MW-36_11122014	-Relog from 361392011	12-NOV-14 09:55	15-NOV-14 08:50	-2	1	GROUND WATER		20		1		
366166003	MW-65_11122014	-Relog from 361392012	12-NOV-14 09:55	15-NOV-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-35_11122014	NEW	GFPC, Total Alpha Radium, Liquid	Gross Alpha		Relog of 361392010		
-002 MW-36_11122014	NEW	GFPC, Total Alpha Radium, Liquid	Gross Alpha		Relog of 361392011		
-003 MW-65_11122014	NEW	GFPC, Total Alpha Radium, Liquid	Gross Alpha		Relog of 361392012		

Product: GFCTORAL Workdef ID: 1329138 In Product Group? No Group Name: Group Reference:

Method: EPA 900.1 Modified Path: Standard

Product Description: GFPC, Total Alpha Radium, Liquid Product Reference: Gross Alpha

Samples: 001, 002, 003 Moisture Correction: "As Received"

Parmname Check: 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	No

Action	Product Name	Description	Samples
--------	--------------	-------------	---------

Contingent Tests

GEL Laboratories LLC – Login Review Report

Report Date: 03-FEB-15
Work Order: 366166
Page 2 of 2

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 03 February 2015

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
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 SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA150001
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	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources (DNMI)
SDG #: 366166**

Method/Analysis Information

Product: GFPC, Total Alpha Radium, Liquid
Analytical Method: EPA 900.1 Modified
Analytical Batch Number: 1454382

Sample ID	Client ID
366166001	MW-35_11122014
366166002	MW-36_11122014
366166003	MW-65_11122014
1203255441	MB for batch 1454382
1203255445	Laboratory Control Sample (LCS)
1203255442	366166001(MW-35_11122014) Sample Duplicate (DUP)
1203255443	366166001(MW-35_11122014) Matrix Spike (MS)
1203255444	366166001(MW-35_11122014) 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: 366166001 (MW-35_11122014).

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

Sample 1203255443 (MW-35_11122014MS) was recounted due to low recovery. The recount is reported.

Sample 366166002 (MW-36_11122014) was recounted due to high MDC. The recount is reported.

Miscellaneous Information:**Data Exception (DER) Documentation**

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. A data exception report (DER) was not generated for this SDG.

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, 1203255443 (MW-35_11122014MS) and 1203255444 (MW-35_11122014MSD), aliquots were reduced to conserve sample volume. Samples were reprep'd per client request due to results being inconsistent with historical. Reanalysis results are more consistent with historical values. reporting results.

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: 366166 GEL Work Order: 366166

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: 03 FEB 2015

Title: Analyst I

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 3, 2015

Page 1 of 2

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 366166

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1454382										
QC1203255442	366166001	DUP									
Gross Radium Alpha		3.92		3.26	pCi/L	18.5		(0% - 100%)	CXP3	02/01/15	12:02
	Uncertainty	+/-0.633		+/-0.538							
QC1203255445	LCS										
Gross Radium Alpha	413			311	pCi/L		75.4	(75%-125%)		02/01/15	12:01
	Uncertainty			+/-5.22							
QC1203255441	MB										
Gross Radium Alpha			U	0.314	pCi/L					02/01/15	12:02
	Uncertainty			+/-0.274							
QC1203255443	366166001	MS									
Gross Radium Alpha	859	3.92		679	pCi/L		78.6	(75%-125%)		02/02/15	10:41
	Uncertainty	+/-0.633		+/-10.1							
QC1203255444	366166001	MSD									
Gross Radium Alpha	859	3.92		702	pCi/L	3.24	81.2	(0%-20%)		02/01/15	12:02
	Uncertainty	+/-0.633		+/-11.1							

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.
- NI See case narrative
- ND Analyte concentration is not detected above the detection limit



1/12/2015

Work Order: 1413223

American West Analytical Labs

Attn: Elona Hayward

463 West 3600 South

Salt Lake City, UT 84115

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:


Dave Gayer, Laboratory Director



Case Narrative for Sample Delivery Group - 1413223

American West Analytical Labs

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
1413223-01	MW-01_11172014	Water	11/17/2014	11/25/2014
1413223-02	MW-02_11172014	Water	11/17/2014	11/25/2014
1413223-03	MW-03_11172014	Water	11/17/2014	11/25/2014
1413223-04	MW-11_11172014	Water	11/17/2014	11/25/2014
1413223-05	MW-22_11182014	Water	11/18/2014	11/25/2014
1413223-06	MW-23_11192014	Water	11/19/2014	11/25/2014
1413223-07	MW-24_11192014	Water	11/19/2014	11/25/2014
1413223-08	MW-26_11182014	Water	11/18/2014	11/25/2014
1413223-09	MW-70_11182014	Water	11/18/2014	11/25/2014

Method Blanks

All method blanks were below the Minimum Reporting Limit (MRL).

Laboratory Control Samples

All Laboratory Control Sample (LCS) recoveries were within laboratory control limits.

Holding Times

All preparations and analyses were performed within holding times

Matrix Spike/Matrix Spike Duplicate

All Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were within control.

Surrogates

All surrogates were within laboratory control limits.

Analytical Summary - 1413223

Lab ID: 1413223-01
Client ID: MW-01_11172014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-02
Client ID: MW-02_11172014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-03
Client ID: MW-03_11172014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-04
Client ID: MW-11_11172014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-05
Client ID: MW-22_11182014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-06
Client ID: MW-23_11192014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-07
Client ID: MW-24_11192014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-08
Client ID: MW-26_11182014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413223-09
Client ID: MW-70_11182014
Matrix: Water

Analyses

SM 4500 NH3-D

American West Analytical Laboratories

Chain of Custody

Lab Sample Set # _____

Client: **American West**
 Address: **3440 S. 700 W.**
Salt Lake City, UT 84119
 Project Name: **4th Quarter Groundwat**
 PO#: **1411349**

Contact: **Elona Hayward**
 Phone: **801-263-8686**
 Fax: **801-263-8687**
 Email: **elona@awal-labs.com**
denise@awal-labs.com

QC Level: **3**

Turn Around Time
RUSH - 5 Day

Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	NH3	Comments
NEED QC -01						
13223 -01 MW-01_11172014	11/17/2014	12:45	1	Aq	x	
-02 MW-02_11172014	11/17/2014	14:35	1	Aq	x	QC 3 - Include
-03 MW-03_11172014	11/17/2014	14:10	1	Aq	x	Batch QC summaries
-04 MW-11_11172014	11/17/2014	12:10	1	Aq	x	performed on client
-05 MW-22_11182014	11/18/2014	12:15	1	Aq	x	sample in report,
-06 MW-23_11192014	11/19/2014	10:40	1	Aq	x	also include
-07 MW-24_11192014	11/19/2014	10:15	1	Aq	x	chromatograms and
-08 MW-26_11182014	11/18/2014	15:10	1	Aq	x	case narratives in report
-09 MW-70_11182014	11/18/2014	12:15	1	Aq	x	
Sample sent to Chemtech						
Appropriate Utah state certifications required.						

12/4/14
RUSH
 5-0114, OLIVE, 801-263-8610

Laboratory Use Only	
Samples Were:	
1 Shipped or hand delivered	
2 Ambient or Chilled	
3 Temperature <u>9.0</u>	
4 Received Broken/Leaking (Improperly Sealed)	Y N
5 Properly Preserved	Y N
6 Received Within Holding Times	Y N
COC Tape Was:	
1 Present on Outer Package	Y N NA
2 Unbroken on Outer Package	Y N NA
3 Present on Sample	Y N NA
4 Unbroken on Sample	Y N NA
Discrepancies Between Sample Labels and COC Record?	
	Y N

Special Instructions: **Include project name and PO# on final report and invoice. Email results to both Elona and Denise.**

Relinquished by: <i>Signature</i> Joe Reed	Date: 11-25-14	Received by: <i>Signature</i> Annette Doyle	Date: 11-25-14
Print Name: Joe Reed	Time: 1321	Print Name: Annette Doyle	Time: 1321
Relinquished by: <i>Signature</i>	Date:	Received by: <i>Signature</i>	Date:
Print Name:	Time:	Print Name:	Time:



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.

1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

QC Summary for Sample Delivery Group - 1413223

QC ID	Analyte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analyzed	MDL	MRL	DF	
Calibration Blank - Method SM 4500 NH3-D																			
4L01004-CCB1	Ammonia as N						0.2					4L01004	11/28/14	11/28/14				1	
4L01004-CCB2	Ammonia as N						0.2					4L01004	11/28/14	11/28/14				1	
4L01004-CCB3	Ammonia as N						0.2					4L01004	11/28/14	11/28/14				1	
4L01004-CCB4	Ammonia as N						0.2					4L01004	11/28/14	11/28/14				1	
4L01004-CCB5	Ammonia as N						0.1					4L01004	11/28/14	11/28/14				1	
4L01004-CCB6	Ammonia as N						0.2					4L01004	11/28/14	11/28/14				1	
4L01004-CCB7	Ammonia as N						0.1					4L01004	11/28/14	11/28/14				1	
4L01004-CCB8	Ammonia as N						0.2					4L01004	11/28/14	11/28/14				1	
Calibration Check - Method SM 4500 NH3-D																			
4L01004-CCV1	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14				1	
4L01004-CCV2	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14				1	
4L01004-CCV3	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14				1	
4L01004-CCV4	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14				1	
4L01004-CCV5	Ammonia as N	106		90	110		10.6			10.0		4L01004	11/28/14	11/28/14				1	
4L01004-CCV6	Ammonia as N	103		90	110		10.3			10.0		4L01004	11/28/14	11/28/14				1	
4L01004-CCV7	Ammonia as N	104		90	110		10.4			10.0		4L01004	11/28/14	11/28/14				1	
4L01004-CCV8	Ammonia as N	108		90	110		10.8			10.0		4L01004	11/28/14	11/28/14				1	
Initial Cal Blank - Method SM 4500 NH3-D																			
4L01004-ICB1	Ammonia as N						0.09					4L01004	11/28/14	11/28/14				1	
Initial Cal Check - Method SM 4500 NH3-D																			
4L01004-ICV1	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14				1	
LCSW - Method SM 4500 NH3-D																			
B412007-BS1	Ammonia as N	104		90	110		10.4			10.0		B412007	11/28/14	11/28/14	0.03	0.2		1	
B412007-BS2	Ammonia as N	106		90	110		10.6			10.0		B412007	11/28/14	11/28/14	0.03	0.2		1	

QC ID	Analyte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analvzed MDL	MRL	DF
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Matrix Spike - Method SM 4500 NH3-D

B412007-MS1	Ammonia as N	101		80	120		10.4	1413223-01	0.3	10.0		B412007	11/28/14	11/28/14	0.06	0.4	2
B412007-MS2	Ammonia as N	102		80	120		27.5	XXXXXXXX-XX	17.3	10.0		B412007	11/28/14	11/28/14	0.06	0.4	2

Matrix Spike Dup - Method SM 4500 NH3-D

B412007-MSD1	Ammonia as N	103	1.90	80	120	20	10.6	1413223-01	0.3	10.0		B412007	11/28/14	11/28/14	0.06	0.4	2
B412007-MSD2	Ammonia as N	106	1.44	80	120	20	27.9	XXXXXXXX-XX	17.3	10.0		B412007	11/28/14	11/28/14	0.06	0.4	2

PBW - Method SM 4500 NH3-D

B412007-BLK1	Ammonia as N						0.2					B412007	11/28/14	11/28/14	0.03	0.2	1
B412007-BLK2	Ammonia as N						0.1					B412007	11/28/14	11/28/14	0.03	0.2	1



CHEMTECH-FORD
LABORATORIES

Amended

1/12/2015

Work Order: 1412984

American West Analytical Labs

Attn: Elona Hayward

463 West 3600 South

Salt Lake City, UT 84115

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:


Dave Gayer, Laboratory Director



Case Narrative for Sample Delivery Group - 1412984

American West Analytical Labs

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
1412984-01	MW-25_11042014	Water	11/04/2014	11/20/2014
1412984-02	MW-27_11052014	Water	11/05/2014	11/20/2014
1412984-03	MW-28_11052014	Water	11/05/2014	11/20/2014
1412984-04	MW-31_11042014	Water	11/04/2014	11/20/2014
1412984-05	MW-32_11052014	Water	11/05/2014	11/20/2014

Method Blanks

All method blanks were below the Minimum Reporting Limit (MRL).

Laboratory Control Samples

All Laboratory Control Sample (LCS) recoveries were within laboratory control limits.

Holding Times

All preparations and analyses were performed within holding times

Matrix Spike/Matrix Spike Duplicate

All Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were within control.

Surrogates

All surrogates were within laboratory control limits.

Analytical Summary - 1412984

Lab ID: 1412984-01
Client ID: MW-25_11042014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1412984-02
Client ID: MW-27_11052014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1412984-03
Client ID: MW-28_11052014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1412984-04
Client ID: MW-31_11042014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1412984-05
Client ID: MW-32_11052014
Matrix: Water

Analyses

SM 4500 NH3-D



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.

1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

QC Summary for Sample Delivery Group - 1412984

QC ID	Analyte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analyzed	MDL	MRL	DF	
Calibration Blank - Method SM 4500 NH3-D																			
4K23006-CCB1	Ammonia as N						0.1					4K23006	11/23/14	11/23/14				1	
4K23006-CCB2	Ammonia as N						0.1					4K23006	11/23/14	11/23/14				1	
4K23006-CCB3	Ammonia as N						0.1					4K23006	11/23/14	11/23/14				1	
4K23006-CCB4	Ammonia as N						0.1					4K23006	11/23/14	11/23/14				1	
Calibration Check - Method SM 4500 NH3-D																			
4K23006-CCV1	Ammonia as N	102		90	110		10.2			10.0		4K23006	11/23/14	11/23/14				1	
4K23006-CCV2	Ammonia as N	100		90	110		10.0			10.0		4K23006	11/23/14	11/23/14				1	
4K23006-CCV3	Ammonia as N	96.0		90	110		9.6			10.0		4K23006	11/23/14	11/23/14				1	
4K23006-CCV4	Ammonia as N	102		90	110		10.2			10.0		4K23006	11/23/14	11/23/14				1	
Initial Cal Blank - Method SM 4500 NH3-D																			
4K23006-ICB1	Ammonia as N						0.1					4K23006	11/23/14	11/23/14				1	
Initial Cal Check - Method SM 4500 NH3-D																			
4K23006-ICV1	Ammonia as N	100		90	110		10.0			10.0		4K23006	11/23/14	11/23/14				1	
LCSW - Method SM 4500 NH3-D																			
B411487-BS1	Ammonia as N	101		90	110		10.1			10.0		B411487	11/23/14	11/23/14	0.03	0.2		1	
B411487-BS2	Ammonia as N	102		90	110		10.2			10.0		B411487	11/23/14	11/23/14	0.03	0.2		1	
Matrix Spike - Method SM 4500 NH3-D																			
B411487-MS1	Ammonia as N	99.0		80	120		10.4	1412984-01	0.5	10.0		B411487	11/23/14	11/23/14	0.06	0.4		2	
B411487-MS2	Ammonia as N	109		80	120		50.2	XXXXXXXX XX	39.3	10.0		B411487	11/23/14	11/23/14	0.06	0.4		2	
Matrix Spike Dup - Method SM 4500 NH3-D																			
B411487-MSD1	Ammonia as N	98.0	0.966	80	120	20	10.3	1412984-01	0.5	10.0		B411487	11/23/14	11/23/14	0.06	0.4		2	
B411487-MSD2	Ammonia as N	103	1.20	80	120	20	49.6	XXXXXXXX-XX	39.3	10.0		B411487	11/23/14	11/23/14	0.06	0.4		2	
PBW - Method SM 4500 NH3-D																			
B411487-BLK1	Ammonia as N						0.1					B411487	11/23/14	11/23/14	0.03	0.2		1	

QC ID	Analyte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analyzed	MDL	MRL	DF
B411487-BLK2	Ammonia as N						0.1					B411487		11/23/14	11/23/14	0.03	0.2	1



CHEMTECH-FORD
LABORATORIES

Amended

1/12/2015

Work Order: 1413217

American West Analytical Labs

Attn: Elona Hayward

463 West 3600 South

Salt Lake City, UT 84115

Client Service Contact: 801.262.7299

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Approved By:

Dave Gayer, Laboratory Director



Case Narrative for Sample Delivery Group - 1413217

American West Analytical Labs

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
1413217-01	MW-03A_11132014	Water	11/13/2014	11/25/2014
1413217-02	MW-05_11112014	Water	11/11/2014	11/25/2014
1413217-03	MW-12_11112014	Water	11/11/2014	11/25/2014
1413217-04	MW-14_11122014	Water	11/12/2014	11/25/2014
1413217-05	MW-15_11122014	Water	11/12/2014	11/25/2014
1413217-06	MW-17_11122014	Water	11/12/2014	11/25/2014
1413217-07	MW-18_11102014	Water	11/10/2014	11/25/2014
1413217-08	MW-19_11112014	Water	11/11/2014	11/25/2014
1413217-09	MW-29_11102014	Water	11/10/2014	11/25/2014
1413217-10	MW-30_11102014	Water	11/10/2014	11/25/2014
1413217-11	MW-35_11122014	Water	11/12/2014	11/25/2014
1413217-12	MW-36_11122014	Water	11/12/2014	11/25/2014
1413217-13	MW-65_11122014	Water	11/12/2014	11/25/2014

Method Blanks

All method blanks were below the Minimum Reporting Limit (MRL).

Laboratory Control Samples

All Laboratory Control Sample (LCS) recoveries were within laboratory control limits.

Holding Times

All preparations and analyses were performed within holding times

Matrix Spike/Matrix Spike Duplicate

All Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were within control.

Surrogates

All surrogates were within laboratory control limits.

Analytical Summary - 1413217

Lab ID: 1413217-01
Client ID: MW-03A_11132014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-02
Client ID: MW-05_11112014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-03
Client ID: MW-12_11112014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-04
Client ID: MW-14_11122014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-05
Client ID: MW-15_11122014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-06
Client ID: MW-17_11122014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-07
Client ID: MW-18_11102014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-08
Client ID: MW-19_11112014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-09
Client ID: MW-29_11102014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-10
Client ID: MW-30_11102014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-11
Client ID: MW-35_11122014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-12
Client ID: MW-36_11122014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413217-13
Client ID: MW-65_11122014
Matrix: Water

Analyses

SM 4500 NH3-D



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.

1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

QC Summary for Sample Delivery Group - 1413217

QC ID	Analyte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analzyed	MDL	MRL	DF	
Calibration Blank - Method SM 4500 NH3-D																			
4L01004-CCB1	Ammonia as N						0.2					4L01004	11/28/14	11/28/14					1
4L01004-CCB2	Ammonia as N						0.2					4L01004	11/28/14	11/28/14					1
4L01004-CCB3	Ammonia as N						0.2					4L01004	11/28/14	11/28/14					1
4L01004-CCB4	Ammonia as N						0.2					4L01004	11/28/14	11/28/14					1
4L01004-CCB5	Ammonia as N						0.1					4L01004	11/28/14	11/28/14					1
4L01004-CCB6	Ammonia as N						0.2					4L01004	11/28/14	11/28/14					1
4L01004-CCB7	Ammonia as N						0.1					4L01004	11/28/14	11/28/14					1
4L01004-CCB8	Ammonia as N						0.2					4L01004	11/28/14	11/28/14					1
Calibration Check - Method SM 4500 NH3-D																			
4L01004-CCV1	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14					1
4L01004-CCV2	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14					1
4L01004-CCV3	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14					1
4L01004-CCV4	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14					1
4L01004-CCV5	Ammonia as N	106		90	110		10.6			10.0		4L01004	11/28/14	11/28/14					1
4L01004-CCV6	Ammonia as N	103		90	110		10.3			10.0		4L01004	11/28/14	11/28/14					1
4L01004-CCV7	Ammonia as N	104		90	110		10.4			10.0		4L01004	11/28/14	11/28/14					1
4L01004-CCV8	Ammonia as N	108		90	110		10.8			10.0		4L01004	11/28/14	11/28/14					1
Initial Cal Blank - Method SM 4500 NH3-D																			
4L01004-ICB1	Ammonia as N						0.09					4L01004	11/28/14	11/28/14					1
Initial Cal Check - Method SM 4500 NH3-D																			
4L01004-ICV1	Ammonia as N	100		90	110		10.0			10.0		4L01004	11/28/14	11/28/14					1
LCSW - Method SM 4500 NH3-D																			
B412006-BS1	Ammonia as N	103		90	110		10.3			10.0		B412006	11/28/14	11/28/14	0.03	0.2			1
B412006-BS2	Ammonia as N	106		90	110		10.6			10.0		B412006	11/28/14	11/28/14	0.03	0.2			1

QC ID	Analvte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analyzed	MDL	MRL	DF	
Matrix Spike - Method SM 4500 NH3-D																			
B412006-MS1	Ammonia as N	103		80	120		10.6	1413217-01	0.3	10.0		B412006	11/28/14	11/28/14	0.06	0.4	2		
B412006-MS2	Ammonia as N	107		80	120		11.2	XXXXXXXX-XX	0.5	10.0		B412006	11/28/14	11/28/14	0.06	0.4	2		
B412006-MS3	Ammonia as N	100		80	120		11.8	XXXXXXXX XX	1.8	10.0		B412006	11/28/14	11/28/14	0.06	0.4	2		
Matrix Spike Dup - Method SM 4500 NH3-D																			
B412006-MSD1	Ammonia as N	104	0.939	80	120	20	10.7	1413217-01	0.3	10.0		B412006	11/28/14	11/28/14	0.06	0.4	2		
B412006-MSD2	Ammonia as N	104	2.71	80	120	20	10.9	XXXXXXXX-XX	0.5	10.0		B412006	11/28/14	11/28/14	0.06	0.4	2		
B412006-MSD3	Ammonia as N	102	1.68	80	120	20	12.0	XXXXXXXX-XX	1.8	10.0		B412006	11/28/14	11/28/14	0.06	0.4	2		
PBW - Method SM 4500 NH3-D																			
B412006-BLK1	Ammonia as N						0.2					B412006	11/28/14	11/28/14	0.03	0.2	1		
B412006-BLK2	Ammonia as N						0.1					B412006	11/28/14	11/28/14	0.03	0.2	1		



1/12/2015

Work Order: 1413608

American West Analytical Labs

Attn: Elona Hayward

463 West 3600 South

Salt Lake City, UT 84115

Client Service Contact: 801.262.7299

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Approved By:

Dave Gayer, Laboratory Director



Case Narrative for Sample Delivery Group - 1413608

American West Analytical Labs

<u>SampleID</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
1413608-01	MW-37_12032014	Water	12/03/2014	12/05/2014
1413608-02	MW-20_12032014	Water	12/03/2014	12/05/2014

Method Blanks

All method blanks were below the Minimum Reporting Limit (MRL).

Laboratory Control Samples

All Laboratory Control Sample (LCS) recoveries were within laboratory control limits.

Holding Times

All preparations and analyses were performed within holding times

Matrix Spike/Matrix Spike Duplicate

All Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were within control.

Surrogates

All surrogates were within laboratory control limits.

Analytical Summary - 1413608

Lab ID: 1413608-01
Client ID: MW-37_12032014
Matrix: Water

Analyses

SM 4500 NH3-D

Lab ID: 1413608-02
Client ID: MW-20_12032014
Matrix: Water

Analyses

SM 4500 NH3-D

American West Analytical Laboratories

Chain of Custody

Client: American West Analytical Laboratories
 Address: 3440 S. 700 W.
 Salt Lake City, UT 84115

Contact: Elona Hayward
 Phone: (801) 263-8686
 Fax: (801) 263-8687

Project Name: **4th Quarter Groundwater 2013 2014**
 PO#: **1412120**

Email: elona@awal-labs.com
 denise@awal-labs.com

QC Level 1

Turn Around Time

STD / QC 3

13608

12-5-14
 Denise Elona

Lab Use Only	Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	NH3													
1	-01 MW-37_12032014	12/3/2014	9:10	1	aq	x													
2	-02 MW-20_12032014	12/3/2014	9:30	1	aq	x													
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			

NEED QC

Laboratory Use Only	
Samples Were:	
1	Shipped or hand delivered
2	Ambient or Chilled
3	Temperature <u>36</u>
4	Received Broken/Leaking (Improperly Sealed)
Y	N
5	Properly Preserved
Y	N
6	Received Within Holding Times
Y	N
COC Tape Was:	
1	Present on Outer Package
Y	N NA
2	Unbroken on Outer Package
Y	N NA
3	Present on Sample
Y	N NA
4	Unbroken on Sample
Y	N NA
Discrepancies Between Sample Labels and COC Record?	
Y	N

Sample sent to Chemtech-Ford

Appropriate Utah state certifications required.

Special Instructions: Include project name and PO# on final report and invoice. Email results to both Denise and Elona.

Relinquished by: Signature <i>Elona Hayward</i>	Date: 12-5-14	Received by: Signature <i>Elona Ford</i>	Date: 12-5-14
Print Name Elona Hayward	Time: 12:48	Print Name Elona Ford	Time: 13:48
Relinquished by: Signature <i>Elona Ford</i>	Date: 12-5-14	Received by: Signature <i>Denise</i>	Date: 12/5/14
Print Name Elona Ford	Time: 2:05 PM	Print Name Denise	Time: 1:405



CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Report Footnotes

Abbreviations

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1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

QC Summary for Sample Delivery Group - 1413608

QC ID	Analyte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analyzed	MDL	MRL	DF	
Calibration Blank - Method SM 4500 NH3-D																			
4L16018-CCB1	Ammonia as N						0.2					4L16018	12/14/14	12/14/14				1	
4L16018-CCB2	Ammonia as N						0.2					4L16018	12/14/14	12/14/14				1	
4L16018-CCB3	Ammonia as N						0.2					4L16018	12/14/14	12/14/14				1	
4L16018-CCB4	Ammonia as N						0.2					4L16018	12/14/14	12/14/14				1	
4L16018-CCB5	Ammonia as N						0.2					4L16018	12/14/14	12/14/14				1	
Calibration Check - Method SM 4500 NH3-D																			
4L16018-CCV1	Ammonia as N	95.0		90	110		9.5			10.0		4L16018	12/14/14	12/14/14				1	
4L16018-CCV2	Ammonia as N	95.0		90	110		9.5			10.0		4L16018	12/14/14	12/14/14				1	
4L16018-CCV3	Ammonia as N	98.0		90	110		9.8			10.0		4L16018	12/14/14	12/14/14				1	
4L16018-CCV4	Ammonia as N	96.0		90	110		9.6			10.0		4L16018	12/14/14	12/14/14				1	
4L16018-CCV5	Ammonia as N	98.0		90	110		9.8			10.0		4L16018	12/14/14	12/14/14				1	
Initial Cal Blank - Method SM 4500 NH3-D																			
4L16018-ICB1	Ammonia as N						0.1					4L16018	12/14/14	12/14/14				1	
Initial Cal Check - Method SM 4500 NH3-D																			
4L16018-ICV1	Ammonia as N	98.0		90	110		9.8			10.0		4L16018	12/14/14	12/14/14				1	
LCSW - Method SM 4500 NH3-D																			
B412346-BS1	Ammonia as N	98.0		90	110		9.8			10.0		B412346	12/14/14	12/14/14	0.03	0.2		1	
B412346-BS2	Ammonia as N	96.0		90	110		9.6			10.0		B412346	12/14/14	12/14/14	0.03	0.2		1	
Matrix Spike - Method SM 4500 NH3-D																			
B412346-MS1	Ammonia as N	92.6		80	120		9.4	1413608-01	0.1	10.0		B412346	12/14/14	12/14/14	0.06	0.4		2	
B412346-MS2	Ammonia as N	92.0		80	120		13.8	XXXXXXXX-XX	4.6	10.0		B412346	12/14/14	12/14/14	0.06	0.4		2	
Matrix Spike Dup - Method SM 4500 NH3-D																			
B412346-MSD1	Ammonia as N	93.6	1.06	80	120	20	9.5	1413608-01	0.1	10.0		B412346	12/14/14	12/14/14	0.06	0.4		2	
B412346-MSD2	Ammonia as N	89.0	2.20	80	120	20	13.5	XXXXXXXX-XX	4.6	10.0		B412346	12/14/14	12/14/14	0.06	0.4		2	

PBW - Method SM 4500 NH3-D

QC ID	Analyte	% Rec	RPD	LCL	UCL	RPD Max	Result	QC Source	Source Conc	Spk Value	Surr?	Batch	Sampled	Prepared	Analyzed	MDL	MRL	DF
B412346-BLK1	Ammonia as N						0.1					B412346	12/14/14	12/14/14	0.03	0.2	1	
B412346-BLK2	Ammonia as N						0.2					B412346	12/14/14	12/14/14	0.03	0.2	1	



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

RE: 4th Quarter Groundwater 2014

Dear Garrin Palmer:

Lab Set ID: 1412120

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received 3 sample(s) on 12/5/2014 for the analyses presented in the following report.

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e-mail: awal@awal-labs.com
web: 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, email=jose@awal-labs.com, c=US Date: 2014.12.29 11:48:03 -07'00'

Laboratory Director or designee

Sample(s) were subcontracted for the following analyses:

Ammonia



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1412120
Date Received: 12/5/2014 1025h

Contact: Garrin Palmer

3440 South 700 West
 Salt Lake City, UT 84119

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 web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1412120-001A	MW-37_12032014	12/3/2014 910h	Aqueous	VOA by GC/MS Method 8260C/5030C
1412120-001B	MW-37_12032014	12/3/2014 910h	Aqueous	Anions, E300.0
1412120-001B	MW-37_12032014	12/3/2014 910h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1412120-001C	MW-37_12032014	12/3/2014 910h	Aqueous	Total Dissolved Solids, A2540C
1412120-001D	MW-37_12032014	12/3/2014 910h	Aqueous	Nitrite/Nitrate (as N), E353.2
1412120-001E	MW-37_12032014	12/3/2014 910h	Aqueous	Ion Balance
1412120-001E	MW-37_12032014	12/3/2014 910h	Aqueous	ICP Metals, Dissolved
1412120-001E	MW-37_12032014	12/3/2014 910h	Aqueous	ICPMS Metals, Dissolved
1412120-001E	MW-37_12032014	12/3/2014 910h	Aqueous	Mercury, Drinking Water Dissolved
1412120-001F	MW-37_12032014	12/3/2014 910h	Aqueous	Analysis subcontracted to outside laboratory
1412120-002A	MW-20_12032014	12/3/2014 930h	Aqueous	VOA by GC/MS Method 8260C/5030C
1412120-002B	MW-20_12032014	12/3/2014 930h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1412120-002B	MW-20_12032014	12/3/2014 930h	Aqueous	Anions, E300.0
1412120-002C	MW-20_12032014	12/3/2014 930h	Aqueous	Total Dissolved Solids, A2540C
1412120-002D	MW-20_12032014	12/3/2014 930h	Aqueous	Nitrite/Nitrate (as N), E353.2
1412120-002E	MW-20_12032014	12/3/2014 930h	Aqueous	Ion Balance
1412120-002E	MW-20_12032014	12/3/2014 930h	Aqueous	ICP Metals, Dissolved
1412120-002E	MW-20_12032014	12/3/2014 930h	Aqueous	ICPMS Metals, Dissolved
1412120-002E	MW-20_12032014	12/3/2014 930h	Aqueous	Mercury, Drinking Water Dissolved
1412120-002F	MW-20_12032014	12/3/2014 930h	Aqueous	Analysis subcontracted to outside laboratory
1412120-003A	Trip Blank	12/3/2014	Aqueous	VOA by GC/MS Method 8260C/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1412120

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 12/5/2014
Date of Collection: 12/3/2014
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
1412120-001D	Nitrate-Nitrite (as N)	MS/MSD /RPD	Sample matrix interference or sample non-homogeneity
1412240-003B	Nitrate-Nitrite (as N)	MS/MSD	Sample matrix interference
1412120-001E	Calcium	MSD	High analyte concentration
1412120-001E	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: 4th Quarter Groundwater 2014
Lab Set ID: 1412120

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 12/5/2014
Date of Collection: 12/3/2014
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: 1412120
Project: 4th 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
Lab Sample ID: LCS-34611													
Date Analyzed:		12/11/2014 1134h											
Test Code:		200.7-DIS											
Date Prepared:		12/05/2014 1255h											
Calcium	9.49	mg/L	E200.7	0.0401	1.00	10.00	0	94.9	85 - 115				
Magnesium	10.1	mg/L	E200.7	0.0294	1.00	10.00	0	101	85 - 115				
Potassium	9.49	mg/L	E200.7	0.247	1.00	10.00	0	94.9	85 - 115				
Sodium	9.70	mg/L	E200.7	0.0330	1.00	10.00	0	97.0	85 - 115				
Vanadium	0.190	mg/L	E200.7	0.00116	0.00500	0.2000	0	94.8	85 - 115				
Lab Sample ID: LCS-34690													
Date Analyzed:		12/12/2014 2124h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1131h											
Arsenic	0.200	mg/L	E200.8	0.0000920	0.00200	0.2000	0	100	85 - 115				
Beryllium	0.191	mg/L	E200.8	0.0000288	0.00200	0.2000	0	95.7	85 - 115				
Cadmium	0.188	mg/L	E200.8	0.000193	0.000500	0.2000	0	93.8	85 - 115				
Chromium	0.193	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.4	85 - 115				
Cobalt	0.192	mg/L	E200.8	0.0000434	0.00400	0.2000	0	95.8	85 - 115				
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0	97.3	85 - 115				
Iron	0.961	mg/L	E200.8	0.0118	0.100	1.000	0	96.1	85 - 115				
Lead	0.191	mg/L	E200.8	0.000264	0.00200	0.2000	0	95.6	85 - 115				
Manganese	0.192	mg/L	E200.8	0.00153	0.00200	0.2000	0	95.8	85 - 115				
Molybdenum	0.195	mg/L	E200.8	0.000206	0.00200	0.2000	0	97.6	85 - 115				
Nickel	0.190	mg/L	E200.8	0.000754	0.00200	0.2000	0	94.8	85 - 115				
Selenium	0.189	mg/L	E200.8	0.0000634	0.00200	0.2000	0	94.7	85 - 115				
Silver	0.182	mg/L	E200.8	0.0000244	0.00200	0.2000	0	91.0	85 - 115				
Thallium	0.187	mg/L	E200.8	0.0000242	0.00200	0.2000	0	93.7	85 - 115				
Tin	0.995	mg/L	E200.8	0.000348	0.00200	1.000	0	99.5	85 - 115				
Uranium	0.196	mg/L	E200.8	0.0000112	0.00200	0.2000	0	98.0	85 - 115				
Zinc	1.00	mg/L	E200.8	0.00476	0.00500	1.000	0	100	85 - 115				
Lab Sample ID: LCS-34645													
Date Analyzed:		12/09/2014 1005h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		12/08/2014 1504h											
Mercury	0.00352	mg/L	E245.1	0.00000519	0.000150	0.003330	0	106	85 - 115				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: MB-34611	Date Analyzed:	12/11/2014	1132h										
Test Code:	200.7-DIS	Date Prepared:	12/05/2014	1255h									
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
Lab Sample ID: MB-34690	Date Analyzed:	12/12/2014	2120h										
Test Code:	200.8-DIS	Date Prepared:	12/10/2014	1131h									
Arsenic	< 0.00200	mg/L	E200.8	0.0000920	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00154	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.0000434	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.000692	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000206	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000754	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.0000244	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000348	0.00200								
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								
Lab Sample ID: MB-34690	Date Analyzed:	12/16/2014	1743h										
Test Code:	200.8-DIS	Date Prepared:	12/10/2014	1131h									
Beryllium	< 0.000500	mg/L	E200.8	0.00000720	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00296	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.0000660	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: MB-34690	Date Analyzed:	12/16/2014	1935h										
Test Code:	200.8-DIS	Date Prepared:	12/10/2014	1131h									
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
Lab Sample ID: MB-34645	Date Analyzed:	12/09/2014	1004h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	12/08/2014	1504h									
Mercury	< 0.000150	mg/L	E245.1	0.00000519	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: 1412120

Project: 4th 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
Lab Sample ID: 1412120-001EMS	Date Analyzed:	12/11/2014	1141h										
Test Code:	200.7-DIS	Date Prepared:	12/05/2014	1255h									
Magnesium	136	mg/L	E200.7	0.294	10.0	10.00	128	78.9	70 - 130				
Sodium	474	mg/L	E200.7	0.330	10.0	10.00	461	133	70 - 130				
Lab Sample ID: 1412120-001EMS	Date Analyzed:	12/11/2014	1311h										
Test Code:	200.7-DIS	Date Prepared:	12/05/2014	1255h									
Calcium	448	mg/L	E200.7	4.01	100	10.00	438	100	70 - 130				
Lab Sample ID: 1412120-001EMS	Date Analyzed:	12/11/2014	1333h										
Test Code:	200.7-DIS	Date Prepared:	12/05/2014	1255h									
Potassium	26.1	mg/L	E200.7	0.247	1.00	10.00	16	102	70 - 130				
Vanadium	0.194	mg/L	E200.7	0.00116	0.00500	0.2000	0	96.9	70 - 130				
Lab Sample ID: 1411349-002EMS	Date Analyzed:	12/12/2014	2149h										
Test Code:	200.8-DIS	Date Prepared:	12/10/2014	1131h									
Arsenic	0.202	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000335	101	75 - 125				
Beryllium	0.184	mg/L	E200.8	0.0000288	0.00200	0.2000	0	92.2	75 - 125				
Cadmium	0.181	mg/L	E200.8	0.000193	0.000500	0.2000	0	90.7	75 - 125				
Chromium	0.185	mg/L	E200.8	0.00154	0.00200	0.2000	0	92.3	75 - 125				
Cobalt	0.185	mg/L	E200.8	0.0000434	0.00400	0.2000	0	92.7	75 - 125				
Copper	0.187	mg/L	E200.8	0.000692	0.00200	0.2000	0	93.5	75 - 125				
Iron	0.929	mg/L	E200.8	0.0118	0.100	1.000	0	92.9	75 - 125				
Lead	0.183	mg/L	E200.8	0.000264	0.00200	0.2000	0	91.5	75 - 125				
Manganese	0.186	mg/L	E200.8	0.00153	0.00200	0.2000	0	92.9	75 - 125				
Molybdenum	0.197	mg/L	E200.8	0.000206	0.00200	0.2000	0.00111	97.8	75 - 125				
Nickel	0.184	mg/L	E200.8	0.000754	0.00200	0.2000	0	92.1	75 - 125				
Selenium	0.196	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0118	92.1	75 - 125				
Silver	0.172	mg/L	E200.8	0.0000244	0.00200	0.2000	0	86.0	75 - 125				
Thallium	0.180	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000257	89.7	75 - 125				
Tin	0.987	mg/L	E200.8	0.000348	0.00200	1.000	0	98.7	75 - 125				
Uranium	0.203	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0104	96.4	75 - 125				

Report Date: 12/29/2014 Page 15 of 27



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: 1411349-002EMS		Date Analyzed: 12/12/2014 2149h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1131h											
Zinc	0.978	mg/L	E200.8	0.00476	0.00500	1.000	0.0078	97.0	75 - 125				
Lab Sample ID: 1412120-002EMS		Date Analyzed: 12/12/2014 2234h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1131h											
Arsenic	0.208	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00296	103	75 - 125				
Beryllium	0.182	mg/L	E200.8	0.0000288	0.00200	0.2000	0	91.2	75 - 125				
Cadmium	0.186	mg/L	E200.8	0.000193	0.000500	0.2000	0.000268	92.9	75 - 125				
Chromium	0.195	mg/L	E200.8	0.00154	0.00200	0.2000	0.00555	94.8	75 - 125				
Cobalt	0.188	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000616	94.1	75 - 125				
Copper	0.189	mg/L	E200.8	0.000692	0.00200	0.2000	0	94.4	75 - 125				
Iron	0.942	mg/L	E200.8	0.0118	0.100	1.000	0	94.2	75 - 125				
Lead	0.185	mg/L	E200.8	0.000264	0.00200	0.2000	0	92.3	75 - 125				
Manganese	0.186	mg/L	E200.8	0.00153	0.00200	0.2000	0	93.2	75 - 125				
Molybdenum	0.225	mg/L	E200.8	0.000206	0.00200	0.2000	0.024	100	75 - 125				
Nickel	0.185	mg/L	E200.8	0.000754	0.00200	0.2000	0	92.7	75 - 125				
Selenium	0.185	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00212	91.4	75 - 125				
Silver	0.174	mg/L	E200.8	0.0000244	0.00200	0.2000	0	86.9	75 - 125				
Thallium	0.180	mg/L	E200.8	0.0000242	0.00200	0.2000	0	90.2	75 - 125				
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125				
Uranium	0.198	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0016	98.2	75 - 125				
Zinc	1.01	mg/L	E200.8	0.00476	0.00500	1.000	0	101	75 - 125				
Lab Sample ID: 1412120-001EMS		Date Analyzed: 12/09/2014 1013h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 12/08/2014 1504h											
Mercury	0.00344	mg/L	E245.1	0.00000519	0.000150	0.003330	0.0000117	103	85 - 115				

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



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: 1412120-001EMSD													
Date Analyzed:		12/11/2014 1143h											
Test Code:		200.7-DIS											
Date Prepared:		12/05/2014 1255h											
Magnesium	141	mg/L	E200.7	0.294	10.0	10.00	128	124	70 - 130	136	3.24	20	
Sodium	479	mg/L	E200.7	0.330	10.0	10.00	461	184	70 - 130	474	1.08	20	2
Lab Sample ID: 1412120-001EMSD													
Date Analyzed:		12/11/2014 1313h											
Test Code:		200.7-DIS											
Date Prepared:		12/05/2014 1255h											
Calcium	462	mg/L	E200.7	4.01	100	10.00	438	244	70 - 130	448	3.15	20	2
Lab Sample ID: 1412120-001EMSD													
Date Analyzed:		12/11/2014 1335h											
Test Code:		200.7-DIS											
Date Prepared:		12/05/2014 1255h											
Potassium	26.2	mg/L	E200.7	0.247	1.00	10.00	16	102	70 - 130	26.1	0.321	20	
Vanadium	0.192	mg/L	E200.7	0.00116	0.00500	0.2000	0	96.2	70 - 130	0.194	0.747	20	
Lab Sample ID: 1411349-002EMSD													
Date Analyzed:		12/12/2014 2152h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1131h											
Arsenic	0.209	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000335	104	75 - 125	0.202	3.47	20	
Beryllium	0.187	mg/L	E200.8	0.0000288	0.00200	0.2000	0	93.5	75 - 125	0.184	1.45	20	
Cadmium	0.187	mg/L	E200.8	0.000193	0.000500	0.2000	0	93.6	75 - 125	0.181	3.14	20	
Chromium	0.189	mg/L	E200.8	0.00154	0.00200	0.2000	0	94.5	75 - 125	0.185	2.36	20	
Cobalt	0.186	mg/L	E200.8	0.0000434	0.00400	0.2000	0	92.9	75 - 125	0.185	0.245	20	
Copper	0.187	mg/L	E200.8	0.000692	0.00200	0.2000	0	93.6	75 - 125	0.187	0.0860	20	
Iron	0.936	mg/L	E200.8	0.0118	0.100	1.000	0	93.6	75 - 125	0.929	0.742	20	
Lead	0.187	mg/L	E200.8	0.000264	0.00200	0.2000	0	93.3	75 - 125	0.183	1.92	20	
Manganese	0.188	mg/L	E200.8	0.00153	0.00200	0.2000	0	93.9	75 - 125	0.186	1.07	20	
Molybdenum	0.201	mg/L	E200.8	0.000206	0.00200	0.2000	0.00111	100	75 - 125	0.197	2.15	20	
Nickel	0.186	mg/L	E200.8	0.000754	0.00200	0.2000	0	93.1	75 - 125	0.184	1.02	20	
Selenium	0.198	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0118	92.9	75 - 125	0.196	0.868	20	
Silver	0.177	mg/L	E200.8	0.0000244	0.00200	0.2000	0	88.7	75 - 125	0.172	3.09	20	
Thallium	0.183	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000257	91.6	75 - 125	0.18	2.06	20	
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125	0.987	1.86	20	
Uranium	0.207	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0104	98.2	75 - 125	0.203	1.77	20	



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: 1411349-002EMSD		Date Analyzed: 12/12/2014 2152h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1131h											
Zinc	0.992	mg/L	E200.8	0.00476	0.00500	1.000	0.0078	98.4	75 - 125	0.978	1.48	20	
Lab Sample ID: 1412120-002EMSD		Date Analyzed: 12/12/2014 2237h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1131h											
Arsenic	0.205	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00296	101	75 - 125	0.208	1.71	20	
Beryllium	0.180	mg/L	E200.8	0.0000288	0.00200	0.2000	0	90.2	75 - 125	0.182	1.11	20	
Cadmium	0.184	mg/L	E200.8	0.000193	0.000500	0.2000	0.000268	91.9	75 - 125	0.186	1.06	20	
Chromium	0.193	mg/L	E200.8	0.00154	0.00200	0.2000	0.00555	93.8	75 - 125	0.195	1.06	20	
Cobalt	0.187	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000616	93.7	75 - 125	0.188	0.487	20	
Copper	0.188	mg/L	E200.8	0.000692	0.00200	0.2000	0	94.0	75 - 125	0.189	0.461	20	
Iron	0.933	mg/L	E200.8	0.0118	0.100	1.000	0	93.3	75 - 125	0.942	0.982	20	
Lead	0.185	mg/L	E200.8	0.000264	0.00200	0.2000	0	92.3	75 - 125	0.185	0.0464	20	
Manganese	0.183	mg/L	E200.8	0.00153	0.00200	0.2000	0	91.5	75 - 125	0.186	1.89	20	
Molybdenum	0.223	mg/L	E200.8	0.000206	0.00200	0.2000	0.024	99.7	75 - 125	0.225	0.658	20	
Nickel	0.187	mg/L	E200.8	0.000754	0.00200	0.2000	0	93.7	75 - 125	0.185	1.07	20	
Selenium	0.181	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00212	89.5	75 - 125	0.185	2.06	20	
Silver	0.171	mg/L	E200.8	0.0000244	0.00200	0.2000	0	85.3	75 - 125	0.174	1.89	20	
Thallium	0.180	mg/L	E200.8	0.0000242	0.00200	0.2000	0	89.9	75 - 125	0.18	0.309	20	
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125	1.01	0.00958	20	
Uranium	0.198	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0016	98.0	75 - 125	0.198	0.251	20	
Zinc	1.00	mg/L	E200.8	0.00476	0.00500	1.000	0	100	75 - 125	1.01	0.774	20	
Lab Sample ID: 1412120-001EMSD		Date Analyzed: 12/09/2014 1014h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 12/08/2014 1504h											
Mercury	0.00344	mg/L	E245.1	0.00000519	0.000150	0.003330	0.0000117	103	85 - 115	0.00344	0	20	

² - 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: 1412120
Project: 4th 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
Lab Sample ID: 1412120-001CDUP		Date Analyzed: 12/08/2014 1230h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	3,980	mg/L	SM2540C	12.3	20.0					3880	2.55	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: LCS-R73761		Date Analyzed: 12/08/2014 1822h											
Test Code: 300.0-W													
Chloride	4.93	mg/L	E300.0	0.00751	0.100	5.000	0	98.7	90 - 110				
Fluoride	4.81	mg/L	E300.0	0.00681	0.100	5.000	0	96.2	90 - 110				
Sulfate	4.85	mg/L	E300.0	0.0211	0.750	5.000	0	97.0	90 - 110				
Lab Sample ID: LCS-R73706		Date Analyzed: 12/08/2014 712h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.504	1.00	50,000	0	100	90 - 110				
Lab Sample ID: LCS-R74059		Date Analyzed: 12/15/2014 1422h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.03	mg/L	E353.2	0.00833	0.0100	1.000	0	103	90 - 110				
Lab Sample ID: LCS NO3-R74307		Date Analyzed: 12/24/2014 950h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.981	mg/L	E353.2	0.00833	0.0100	1.000	0	98.1	90 - 110				
Lab Sample ID: LCS-R73816		Date Analyzed: 12/08/2014 1230h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	226	mg/L	SM2540C	6.13	10.0	205.0	0	110	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: MB-R73761 Date Analyzed: 12/08/2014 1805h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
Lab Sample ID: MB-R73706 Date Analyzed: 12/08/2014 712h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Lab Sample ID: MB-R74059 Date Analyzed: 12/15/2014 1420h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R74307 Date Analyzed: 12/24/2014 942h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R73816 Date Analyzed: 12/08/2014 1230h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: 1412120-001BMS Date Analyzed: 12/08/2014 1856h													
Test Code: 300.0-W													
Chloride	4,900	mg/L	E300.0	7.51	100	5,000	39.9	97.1	90 - 110				
Fluoride	4,740	mg/L	E300.0	6.81	100	5,000	0	94.8	90 - 110				
Sulfate	7,890	mg/L	E300.0	21.1	750	5,000	2700	104	90 - 110				
Lab Sample ID: 1412120-001BMS Date Analyzed: 12/08/2014 712h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,730	mg/L	SM2320B	0.504	1.00	2,500	224	100	80 - 120				
Lab Sample ID: 1412120-001DMS Date Analyzed: 12/15/2014 1424h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.139	mg/L	E353.2	0.00833	0.0100	1.000	0	13.9	90 - 110				1
Lab Sample ID: 1412240-003BMS Date Analyzed: 12/15/2014 1440h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.19	mg/L	E353.2	0.00833	0.0100	1.000	0.0106	118	90 - 110				1
Lab Sample ID: 1412433-001AMS NO3 Date Analyzed: 12/24/2014 955h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.02	mg/L	E353.2	0.00833	0.0100	1.000	0	102	90 - 110				

¹ - 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: 1412120
Project: 4th 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
Lab Sample ID: 1412120-001BMSD Date Analyzed: 12/08/2014 1913h													
Test Code: 300.0-W													
Chloride	5,000	mg/L	E300.0	7.51	100	5,000	39.9	99.3	90 - 110	4900	2.17	20	
Fluoride	4,880	mg/L	E300.0	6.81	100	5,000	0	97.5	90 - 110	4740	2.81	20	
Sulfate	7,850	mg/L	E300.0	21.1	750	5,000	2700	103	90 - 110	7890	0.448	20	
Lab Sample ID: 1412120-001BMSD Date Analyzed: 12/08/2014 712h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	2,730	mg/L	SM2320B	0.504	1.00	2,500	224	100	80 - 120	2730	0.158	10	
Lab Sample ID: 1412120-001DMSD Date Analyzed: 12/15/2014 1426h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.303	mg/L	E353.2	0.00833	0.0100	1.000	0	30.3	90 - 110	0.139	74.4	10	1@
Lab Sample ID: 1412240-003BMSD Date Analyzed: 12/15/2014 1441h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.24	mg/L	E353.2	0.00833	0.0100	1.000	0.0106	123	90 - 110	1.19	4.61	10	1
Lab Sample ID: 1412433-001AMSD NO3 Date Analyzed: 12/24/2014 957h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.967	mg/L	E353.2	0.00833	0.0100	1.000	0	96.7	90 - 110	1.02	5.40	10	

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

1 - 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: 1412120
Project: 4th 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
Lab Sample ID: LCS VOC-1 120514A		Date Analyzed: 12/05/2014 1125h											
Test Code: 8260-W													
Benzene	18.7	µg/L	SW8260C	0.270	2.00	20.00	0	93.3	62 - 127				
Chloroform	19.0	µg/L	SW8260C	0.153	2.00	20.00	0	95.0	67 - 132				
Methylene chloride	18.2	µg/L	SW8260C	0.172	2.00	20.00	0	91.1	32 - 185				
Naphthalene	16.6	µg/L	SW8260C	0.587	2.00	20.00	0	83.2	28 - 136				
Tetrahydrofuran	13.0	µg/L	SW8260C	0.516	2.00	20.00	0	65.2	43 - 146				
Toluene	19.4	µg/L	SW8260C	0.183	2.00	20.00	0	96.9	64 - 129				
Xylenes, Total	61.1	µg/L	SW8260C	0.857	2.00	60.00	0	102	52 - 134				
Surr: 1,2-Dichloroethane-d4	45.0	µg/L	SW8260C			50.00		90.1	76 - 138				
Surr: 4-Bromofluorobenzene	48.6	µg/L	SW8260C			50.00		97.1	77 - 121				
Surr: Dibromofluoromethane	48.8	µg/L	SW8260C			50.00		97.7	67 - 128				
Surr: Toluene-d8	48.3	µg/L	SW8260C			50.00		96.6	81 - 135				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412120
Project: 4th 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
Lab Sample ID: MB VOC-1 120514A	Date Analyzed: 12/05/2014 1204h												
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	4.11	10.0								
Acetone	< 10.0	µg/L	SW8260C	1.70	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	47.6	µg/L	SW8260C			50.00		95.3	76 - 138				
Surr: 4-Bromofluorobenzene	48.2	µg/L	SW8260C			50.00		96.4	77 - 121				
Surr: Dibromofluoromethane	49.1	µg/L	SW8260C			50.00		98.1	67 - 128				
Surr: Toluene-d8	47.8	µg/L	SW8260C			50.00		95.6	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: 1412120
Project: 4th 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
Lab Sample ID: 1412120-001AMS		Date Analyzed: 12/05/2014 1519h											
Test Code: 8260-W													
Benzene	18.3	µg/L	SW8260C	0.270	2.00	20.00	0	91.4	66 - 145				
Chloroform	18.7	µg/L	SW8260C	0.153	2.00	20.00	0	93.5	50 - 146				
Methylene chloride	18.9	µg/L	SW8260C	0.172	2.00	20.00	0	94.4	30 - 192				
Naphthalene	16.5	µg/L	SW8260C	0.587	2.00	20.00	0	82.4	41 - 131				
Tetrahydrofuran	17.7	µg/L	SW8260C	0.516	2.00	20.00	0	88.6	43 - 146				
Toluene	18.4	µg/L	SW8260C	0.183	2.00	20.00	0	92.0	18 - 192				
Xylenes, Total	56.0	µg/L	SW8260C	0.857	2.00	60.00	0	93.3	42 - 167				
Surr: 1,2-Dichloroethane-d4	46.8	µg/L	SW8260C			50.00		93.7	72 - 151				
Surr: 4-Bromofluorobenzene	47.7	µg/L	SW8260C			50.00		95.5	80 - 128				
Surr: Dibromofluoromethane	47.7	µg/L	SW8260C			50.00		95.4	80 - 124				
Surr: Toluene-d8	46.4	µg/L	SW8260C			50.00		92.8	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: 1412120
Project: 4th 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
Lab Sample ID: 1412120-001AMSD	Date Analyzed: 12/05/2014 1538h												
Test Code: 8260-W													
Benzene	17.1	µg/L	SW8260C	0.270	2.00	20.00	0	85.3	66 - 145	18.3	6.90	25	
Chloroform	17.6	µg/L	SW8260C	0.153	2.00	20.00	0	88.2	50 - 146	18.7	5.78	25	
Methylene chloride	16.2	µg/L	SW8260C	0.172	2.00	20.00	0	81.2	30 - 192	18.9	15.1	25	
Naphthalene	15.4	µg/L	SW8260C	0.587	2.00	20.00	0	77.0	41 - 131	16.5	6.78	25	
Tetrahydrofuran	19.6	µg/L	SW8260C	0.516	2.00	20.00	0	97.9	43 - 146	17.7	9.87	25	
Toluene	17.4	µg/L	SW8260C	0.183	2.00	20.00	0	87.2	18 - 192	18.4	5.30	25	
Xylenes, Total	52.4	µg/L	SW8260C	0.857	2.00	60.00	0	87.4	42 - 167	56	6.57	25	
Surr: 1,2-Dichloroethane-d4	48.1	µg/L	SW8260C			50.00		96.1	72 - 151				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.5	80 - 128				
Surr: Dibromofluoromethane	48.8	µg/L	SW8260C			50.00		97.7	80 - 124				
Surr: Toluene-d8	47.6	µg/L	SW8260C			50.00		95.2	77 - 129				

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1412120** Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 12/16/2014

Client ID: DEN100

Contact: Garrin Palmer

Project: 4th Quarter Groundwater 2014

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Run Fe by 200.8 for necessary reporting limits. Ammonia samples sent to Chemtech, due to instrument problems. Metals samples have been field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1412120-001A	MW-37_12032014	12/3/2014 0910h	12/5/2014 1025h	8260-W	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>							
1412120-001B				300.0-W		df - wc	1
<i>3 SEL Analytes: CL F SO4</i>							
				ALK-W-2320B-LL		df - wc	
<i>2 SEL Analytes: ALKB ALKC</i>							
1412120-001C				TDS-W-2540C		ww - tds	
<i>1 SEL Analytes: TDS</i>							
1412120-001D				NO2/NO3-W-353.2		df - no2/no3 & nh3	
<i>1 SEL Analytes: NO3NO2N</i>							
1412120-001E				200.7-DIS		DF-Dis Metals	2
<i>5 SEL Analytes: CA MG K NA V</i>							
				200.7-DIS-PR		DF-Dis Metals	
				200.8-DIS		DF-Dis Metals	
<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>							
				200.8-DIS-PR		DF-Dis Metals	
				HG-DW-DIS-245.1		DF-Dis Metals	
<i>1 SEL Analytes: HG</i>							
				HG-DW-DIS-PR		DF-Dis Metals	
				IONBALANCE		DF-Dis Metals	
<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>							
1412120-001F				OUTSIDE LAB		Chemtech-Ford	1
1412120-002A	MW-20_12032014	12/3/2014 0930h	12/5/2014 1025h	8260-W	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>							
1412120-002B				300.0-W		df - wc	1
<i>3 SEL Analytes: CL F SO4</i>							
				ALK-W-2320B-LL		df - wc	
<i>2 SEL Analytes: ALKB ALKC</i>							

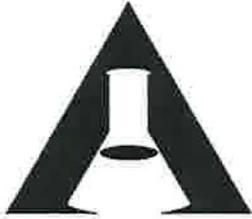
WORK ORDER Summary

Work Order: **1412120** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 12/16/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1412120-002D	MW-20_12032014	12/3/2014 0930h	12/5/2014 1025h	NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>	Aqueous	df - no2/no3 & nb3	1
1412120-002E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		DF-Dis Metals	2
				200.7-DIS-PR		DF-Dis Metals	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		DF-Dis Metals	
				200.8-DIS-PR		DF-Dis Metals	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		DF-Dis Metals	
				HG-DW-DIS-PR		DF-Dis Metals	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		DF-Dis Metals	
1412120-002F				OUTSIDE LAB		Chemtech-Ford	1
1412120-003A	Trip Blank	12/3/2014	12/5/2014 1025h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3



**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.

1/12/20
 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: **4th Quarter Groundwater 2013-2014**
 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 (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)	Known Hazards & Sample Comments
1 MW-37_12032014	12/3/2014	910	7	W	x	x	x	x	x	x	x	x	x	
2 MW-20_12032014	12/3/2014	930	7	W	x	x	x	x	x	x	x	x	x	
3 Trip Blank	12/3/2014		3	W									x	
4 Temp Blank			1											
5														
6														
7														
8														
9														
10														
11														
12														

Include EDD:
LOCUS UPLOAD EXCEL
 Field Filtered For:
Dissolved Metals

For Compliance With:
 NELAP
 RCRA
 CWA
 SDWA
 ELAP / A2LA
 NLLAP
 Non-Compliance
 Other:

Laboratory Use Only

Samples Were: **Field X**

1. Shipped or hand delivered: **(Y)**

2. Ambient or Cooled: **(Y)**

3. Temperature: **3.2 °C**

4. Received Broken/Leaking (Improperly Sealed): **(N)**

5. Improperly Preserved: **(Y)**
 Checked at bench: **(Y)**

6. Received Within Holding Times: **(Y)**

COC Tape Was:

1. Present on Outer Package: **(Y)** N NA

2. Unbroken on Outer Package: **(Y)** N NA

3. Present on Sample: **(Y)** N **(NA)**

4. Unbroken on Sample: **(Y)** N **(NA)**

Discrepancies Between Sample Labels and COC Record? **(Y)** N

Relinquished by: Signature <i>Garrin Palmer</i>	Date: 12/4/14	Received by: Signature <i>Tanner Holliday</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: Garrin Palmer	Time: 0830	Received by: Signature <i>Tanner Holliday</i>	Date: 12/5/14	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name: Tanner Holliday	Time: 1025	
Relinquished by: Signature	Date:	Received by: Signature	Date:	
Print Name:	Time:	Print Name:	Time:	

Table 3 – GEL Groundwater, Tailings Impoundment, and Seeps and Springs Sampling

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
Heavy Metals					
Arsenic	E200.7 or E200.8	5 µg/L	6 months	HNO ₃ to pH<2	None
Beryllium	E200.7 or E200.8	0.50 µg/L	6 months	HNO ₃ to pH<2	None
Cadmium	E200.7 or E200.8	0.50 µg/L	6 months	HNO ₃ to pH<2	None
Chromium	E200.7 or E200.8	25 µg/L	6 months	HNO ₃ to pH<2	None
Cobalt	E200.7 or E200.8	10 µg/L	6 months	HNO ₃ to pH<2	None
Copper	E200.7 or E200.8	10 µg/L	6 months	HNO ₃ to pH<2	None
Iron	E200.7 or E200.8	30 µg/L	6 months	HNO ₃ to pH<2	None
Lead	E200.7 or E200.8	1.0 µg/L	6 months	HNO ₃ to pH<2	None
Manganese	E200.7 or E200.8	10 µg/L	6 months	HNO ₃ to pH<2	None
Mercury	E 245.1 or E200.7 or E200.8	0.50 µg/L	28 days	HNO ₃ to pH<2	None
Molybdenum	E200.7 or E200.8	10 µg/L	6 months	HNO ₃ to pH<2	None
Nickel	E200.7 or E200.8	20 µg/L	6 months	HNO ₃ to pH<2	None
Selenium	E200.7 or E200.8	5 µg/L	6 months	HNO ₃ to pH<2	None
Silver	E200.7 or E200.8	10 µg/L	6 months	HNO ₃ to pH<2	None
Thallium	E200.7 or E200.8	0.50 µg/L	6 months	HNO ₃ to pH<2	None
Tin	E200.7 or E200.8	100 µg/L	6 months	HNO ₃ to pH<2	None
Uranium	E200.7 or E200.8	0.30 µg/L	6 months	HNO ₃ to pH<2	None
Vanadium	E200.7 or E200.8	15 µg/L	6 months	HNO ₃ to pH<2	None
Zinc	E200.7 or E200.8	10 µg/L	6 months	HNO ₃ to pH<2	None
Sodium	E200.7	0.5 mg/L	6 months	HNO ₃ to pH<2	None
Potassium	E200.7	0.5 mg/L	6 months	HNO ₃ to pH<2	None
Magnesium	E200.7	0.5 mg/L	6 months	HNO ₃ to pH<2	None
Calcium	E200.7	0.5 mg/L	6 months	HNO ₃ to pH<2	None
Radiologies					
Gross Alpha	E 900.0 or E900.1	1.0 pCi/L	6 months	HNO ₃ to pH<2	None

-RW 2/27/2013

Table 4 Fee Schedule

Analyte/ Group	Cost per Sample
Full Suite Metals	
Partial Suite Metals (cost per individual metal)	
Gross alpha	

** - per email from Kathy Weinel 3/27/13 -RW

Run ION BAL ANCL when the full metals suite has been requested, per email from Kathy Weinel 3/27/13

Ion Balance to include:
 Total Anions, Measured
 Total Cations, Measured
 TDS Ratio, Measured/Calculated
 TDS, Calculated

-RW 3/27/13

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
Nutrients					
Ammonia (as N)	A4500-NH ₃ G or E350.1	0.05 mg/L	28 days	H ₂ SO ₄ to pH<2	≤ 6°C
Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H ₂ SO ₄ to pH<2	≤ 6°C
Volatile Organic Compounds – Groundwater, Seeps and Springs and Tailings Impoundment					
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
Others					
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

Contaminant	Analytical Methods to be Used	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
General Inorganics					
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	
Volatile Organic Compounds – Chloroform Program					
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
SVOCs – Tailings Impoundment Samples Only					
1,2,4-Trichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 µg/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 µg/L	7/40 days	None	≤ 6°C



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

RE: 4th Quarter Groundwater 2014

Dear Garrin Palmer:

Lab Set ID: 1411349

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received 10 sample(s) on 11/21/2014 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
web: 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, email=jose@awal-labs.com, c=US Date: 2014.12.29 11:43:52 -07'00'

Laboratory Director or designee

Sample(s) were subcontracted for the following analyses:

Ammonia



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411349
Date Received: 11/21/2014 1300h

3440 South 700 West Salt Lake City, UT 84119	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
	1411349-001A	MW-01_11172014	11/17/2014 1245h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1411349-001B	MW-01_11172014	11/17/2014 1245h	Aqueous	Anions, E300.0
	1411349-001B	MW-01_11172014	11/17/2014 1245h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
Phone: (801) 263-8686	1411349-001C	MW-01_11172014	11/17/2014 1245h	Aqueous	Total Dissolved Solids, A2540C
Toll Free: (888) 263-8686	1411349-001D	MW-01_11172014	11/17/2014 1245h	Aqueous	Nitrite/Nitrate (as N), E353.2
Fax: (801) 263-8687	1411349-001E	MW-01_11172014	11/17/2014 1245h	Aqueous	Ion Balance
e-mail: awal@awal-labs.com	1411349-001E	MW-01_11172014	11/17/2014 1245h	Aqueous	ICP Metals, Dissolved
	1411349-001E	MW-01_11172014	11/17/2014 1245h	Aqueous	ICPMS Metals, Dissolved
web: www.awal-labs.com	1411349-001E	MW-01_11172014	11/17/2014 1245h	Aqueous	Mercury, Drinking Water Dissolved
	1411349-001F	MW-01_11172014	11/17/2014 1245h	Aqueous	Analysis subcontracted to outside laboratory
Kyle F. Gross Laboratory Director	1411349-002A	MW-02_11172014	11/17/2014 1435h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1411349-002B	MW-02_11172014	11/17/2014 1435h	Aqueous	Anions, E300.0
Jose Rocha QA Officer	1411349-002B	MW-02_11172014	11/17/2014 1435h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1411349-002C	MW-02_11172014	11/17/2014 1435h	Aqueous	Total Dissolved Solids, A2540C
	1411349-002D	MW-02_11172014	11/17/2014 1435h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1411349-002E	MW-02_11172014	11/17/2014 1435h	Aqueous	Ion Balance
	1411349-002E	MW-02_11172014	11/17/2014 1435h	Aqueous	ICP Metals, Dissolved
	1411349-002E	MW-02_11172014	11/17/2014 1435h	Aqueous	ICPMS Metals, Dissolved
	1411349-002E	MW-02_11172014	11/17/2014 1435h	Aqueous	Mercury, Drinking Water Dissolved
	1411349-002F	MW-02_11172014	11/17/2014 1435h	Aqueous	Analysis subcontracted to outside laboratory
	1411349-003A	MW-03_11172014	11/17/2014 1410h	Aqueous	VOA by GC/MS Method 8260C/5030C
	1411349-003B	MW-03_11172014	11/17/2014 1410h	Aqueous	Anions, E300.0
	1411349-003B	MW-03_11172014	11/17/2014 1410h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
	1411349-003C	MW-03_11172014	11/17/2014 1410h	Aqueous	Total Dissolved Solids, A2540C
	1411349-003D	MW-03_11172014	11/17/2014 1410h	Aqueous	Nitrite/Nitrate (as N), E353.2
	1411349-003E	MW-03_11172014	11/17/2014 1410h	Aqueous	Ion Balance
	1411349-003E	MW-03_11172014	11/17/2014 1410h	Aqueous	ICP Metals, Dissolved
	1411349-003E	MW-03_11172014	11/17/2014 1410h	Aqueous	ICPMS Metals, Dissolved



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411349
Date Received: 11/21/2014 1300h

Contact: Garrin Palmer

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411349-003E	MW-03_11172014	11/17/2014 1410h	Aqueous	Mercury, Drinking Water Dissolved
1411349-003F	MW-03_11172014	11/17/2014 1410h	Aqueous	Analysis subcontracted to outside laboratory
1411349-004A	MW-11_11172014	11/17/2014 1210h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411349-004B	MW-11_11172014	11/17/2014 1210h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411349-004B	MW-11_11172014	11/17/2014 1210h	Aqueous	Anions, E300.0
1411349-004C	MW-11_11172014	11/17/2014 1210h	Aqueous	Total Dissolved Solids, A2540C
1411349-004D	MW-11_11172014	11/17/2014 1210h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411349-004E	MW-11_11172014	11/17/2014 1210h	Aqueous	Ion Balance
1411349-004E	MW-11_11172014	11/17/2014 1210h	Aqueous	ICP Metals, Dissolved
1411349-004E	MW-11_11172014	11/17/2014 1210h	Aqueous	ICPMS Metals, Dissolved
1411349-004E	MW-11_11172014	11/17/2014 1210h	Aqueous	Mercury, Drinking Water Dissolved
1411349-004F	MW-11_11172014	11/17/2014 1210h	Aqueous	Analysis subcontracted to outside laboratory
1411349-005A	MW-22_11182014	11/18/2014 1215h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411349-005B	MW-22_11182014	11/18/2014 1215h	Aqueous	Anions, E300.0
1411349-005B	MW-22_11182014	11/18/2014 1215h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411349-005C	MW-22_11182014	11/18/2014 1215h	Aqueous	Total Dissolved Solids, A2540C
1411349-005D	MW-22_11182014	11/18/2014 1215h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411349-005E	MW-22_11182014	11/18/2014 1215h	Aqueous	Ion Balance
1411349-005E	MW-22_11182014	11/18/2014 1215h	Aqueous	ICPMS Metals, Dissolved
1411349-005E	MW-22_11182014	11/18/2014 1215h	Aqueous	Mercury, Drinking Water Dissolved
1411349-005E	MW-22_11182014	11/18/2014 1215h	Aqueous	ICP Metals, Dissolved
1411349-005F	MW-22_11182014	11/18/2014 1215h	Aqueous	Analysis subcontracted to outside laboratory
1411349-006A	MW-23_11192014	11/19/2014 1040h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411349-006B	MW-23_11192014	11/19/2014 1040h	Aqueous	Anions, E300.0
1411349-006B	MW-23_11192014	11/19/2014 1040h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411349-006C	MW-23_11192014	11/19/2014 1040h	Aqueous	Total Dissolved Solids, A2540C
1411349-006D	MW-23_11192014	11/19/2014 1040h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411349-006E	MW-23_11192014	11/19/2014 1040h	Aqueous	Ion Balance



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411349
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Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411349-006E	MW-23_11192014	11/19/2014 1040h	Aqueous	Mercury, Drinking Water Dissolved
1411349-006E	MW-23_11192014	11/19/2014 1040h	Aqueous	ICP Metals, Dissolved
1411349-006E	MW-23_11192014	11/19/2014 1040h	Aqueous	ICPMS Metals, Dissolved
1411349-006F	MW-23_11192014	11/19/2014 1040h	Aqueous	Analysis subcontracted to outside laboratory
1411349-007A	MW-24_11192014	11/19/2014 1015h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411349-007B	MW-24_11192014	11/19/2014 1015h	Aqueous	Anions, E300.0
1411349-007B	MW-24_11192014	11/19/2014 1015h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411349-007C	MW-24_11192014	11/19/2014 1015h	Aqueous	Total Dissolved Solids, A2540C
1411349-007D	MW-24_11192014	11/19/2014 1015h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411349-007E	MW-24_11192014	11/19/2014 1015h	Aqueous	ICPMS Metals, Dissolved
1411349-007E	MW-24_11192014	11/19/2014 1015h	Aqueous	Mercury, Drinking Water Dissolved
1411349-007E	MW-24_11192014	11/19/2014 1015h	Aqueous	Ion Balance
1411349-007E	MW-24_11192014	11/19/2014 1015h	Aqueous	ICP Metals, Dissolved
1411349-007F	MW-24_11192014	11/19/2014 1015h	Aqueous	Analysis subcontracted to outside laboratory
1411349-008A	MW-26_11182014	11/18/2014 1510h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411349-008B	MW-26_11182014	11/18/2014 1510h	Aqueous	Anions, E300.0
1411349-008B	MW-26_11182014	11/18/2014 1510h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411349-008C	MW-26_11182014	11/18/2014 1510h	Aqueous	Total Dissolved Solids, A2540C
1411349-008D	MW-26_11182014	11/18/2014 1510h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411349-008E	MW-26_11182014	11/18/2014 1510h	Aqueous	Mercury, Drinking Water Dissolved
1411349-008E	MW-26_11182014	11/18/2014 1510h	Aqueous	Ion Balance
1411349-008E	MW-26_11182014	11/18/2014 1510h	Aqueous	ICP Metals, Dissolved
1411349-008E	MW-26_11182014	11/18/2014 1510h	Aqueous	ICPMS Metals, Dissolved
1411349-008F	MW-26_11182014	11/18/2014 1510h	Aqueous	Analysis subcontracted to outside laboratory
1411349-009A	MW-70_11182014	11/18/2014 1215h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411349-009B	MW-70_11182014	11/18/2014 1215h	Aqueous	Anions, E300.0
1411349-009B	MW-70_11182014	11/18/2014 1215h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411349-009C	MW-70_11182014	11/18/2014 1215h	Aqueous	Total Dissolved Solids, A2540C
1411349-009D	MW-70_11182014	11/18/2014 1215h	Aqueous	Nitrite/Nitrate (as N), E353.2

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411349
Date Received: 11/21/2014 1300h

Contact: Garrin Palmer

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Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411349-009E	MW-70_11182014	11/18/2014 1215h	Aqueous	Ion Balance
1411349-009E	MW-70_11182014	11/18/2014 1215h	Aqueous	ICP Metals, Dissolved
1411349-009E	MW-70_11182014	11/18/2014 1215h	Aqueous	ICPMS Metals, Dissolved
1411349-009E	MW-70_11182014	11/18/2014 1215h	Aqueous	Mercury, Drinking Water Dissolved
1411349-009F	MW-70_11182014	11/18/2014 1215h	Aqueous	Analysis subcontracted to outside laboratory
1411349-010A	Trip Blank	11/17/2014	Aqueous	VOA by GC/MS Method 8260C/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411349

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Jose Rocha
 QA Officer

Sample Receipt Information:

Date of Receipt: 11/21/2014
Date(s) of Collection: 11/17- 11/19/2014
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
1411349-001E	Calcium	MS/MSD	High analyte concentration
1411349-001D	Magnesium	MS	High analyte concentration
1411349-001E	Sodium	MS/MSD	High analyte concentration
1411349-001D	Nitrate-Nitrite (as N)	MS/MSD /RPD	Sample non-homogeneity and/or 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: 4th Quarter Groundwater 2014
Lab Set ID: 1411349

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Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 11/21/2014
Date(s) of Collection: 11/17-11/19/2014
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: 1411349
Project: 4th 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
Lab Sample ID: LCS-34449													
Date Analyzed:		12/02/2014 1055h											
Test Code:		200.7-DIS											
Date Prepared:		11/24/2014 1552h											
Calcium	9.64	mg/L	E200.7	0.0401	1.00	10.00	0	96.4	85 - 115				
Magnesium	10.0	mg/L	E200.7	0.0294	1.00	10.00	0	100	85 - 115				
Potassium	9.62	mg/L	E200.7	0.247	1.00	10.00	0	96.2	85 - 115				
Sodium	10.1	mg/L	E200.7	0.0330	1.00	10.00	0	101	85 - 115				
Vanadium	0.193	mg/L	E200.7	0.00116	0.00500	0.2000	0	96.4	85 - 115				
Lab Sample ID: LCS-34690													
Date Analyzed:		12/12/2014 2124h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1131h											
Arsenic	0.200	mg/L	E200.8	0.0000920	0.00200	0.2000	0	100	85 - 115				
Beryllium	0.191	mg/L	E200.8	0.0000288	0.00200	0.2000	0	95.7	85 - 115				
Cadmium	0.188	mg/L	E200.8	0.000193	0.000500	0.2000	0	93.8	85 - 115				
Chromium	0.193	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.4	85 - 115				
Cobalt	0.192	mg/L	E200.8	0.0000434	0.00400	0.2000	0	95.8	85 - 115				
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0	97.3	85 - 115				
Iron	0.961	mg/L	E200.8	0.0118	0.100	1.000	0	96.1	85 - 115				
Lead	0.191	mg/L	E200.8	0.000264	0.00200	0.2000	0	95.6	85 - 115				
Manganese	0.192	mg/L	E200.8	0.00153	0.00200	0.2000	0	95.8	85 - 115				
Molybdenum	0.195	mg/L	E200.8	0.000206	0.00200	0.2000	0	97.6	85 - 115				
Nickel	0.190	mg/L	E200.8	0.000754	0.00200	0.2000	0	94.8	85 - 115				
Selenium	0.189	mg/L	E200.8	0.0000634	0.00200	0.2000	0	94.7	85 - 115				
Silver	0.182	mg/L	E200.8	0.0000244	0.00200	0.2000	0	91.0	85 - 115				
Thallium	0.187	mg/L	E200.8	0.0000242	0.00200	0.2000	0	93.7	85 - 115				
Tin	0.995	mg/L	E200.8	0.000348	0.00200	1.000	0	99.5	85 - 115				
Uranium	0.196	mg/L	E200.8	0.0000112	0.00200	0.2000	0	98.0	85 - 115				
Zinc	1.00	mg/L	E200.8	0.00476	0.00500	1.000	0	100	85 - 115				
Lab Sample ID: LCS-34478													
Date Analyzed:		11/26/2014 1306h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		11/25/2014 1250h											
Mercury	0.00341	mg/L	E245.1	0.00000519	0.000150	0.003330	0	102	85 - 115				



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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: MB-34449													
Date Analyzed: 12/02/2014 1053h													
Test Code: 200.7-DIS													
Date Prepared: 11/24/2014 1205h													
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
Lab Sample ID: MB-34690													
Date Analyzed: 12/12/2014 2120h													
Test Code: 200.8-DIS													
Date Prepared: 12/10/2014 1131h													
Arsenic	< 0.00200	mg/L	E200.8	0.0000920	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00154	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.0000434	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.000692	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000206	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000754	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.0000244	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000348	0.00200								
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								
Lab Sample ID: MB-34690													
Date Analyzed: 12/16/2014 1743h													
Test Code: 200.8-DIS													
Date Prepared: 12/10/2014 1131h													
Beryllium	< 0.000500	mg/L	E200.8	0.00000720	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00296	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.0000660	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: MB-34690		Date Analyzed:	12/16/2014 1935h										
Test Code: 200.8-DIS		Date Prepared:	12/10/2014 1131h										
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
Lab Sample ID: MB-34478		Date Analyzed:	11/26/2014 1304h										
Test Code: HG-DW-DIS-245.1		Date Prepared:	11/25/2014 1250h										
Mercury	< 0.000150	mg/L	E245.1	0.00000519	0.000150								



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Laboratory Director

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: 1411349-001EMS		Date Analyzed:	12/02/2014 1102h										
Test Code: 200.7-DIS		Date Prepared:	11/24/2014 1205h										
Calcium	191	mg/L	E200.7	4.01	100	10.00	200	-85.1	70 - 130				2
Sodium	173	mg/L	E200.7	3.30	100	10.00	178	-51.3	70 - 130				2
Lab Sample ID: 1411349-001EMS		Date Analyzed:	12/02/2014 1216h										
Test Code: 200.7-DIS		Date Prepared:	11/24/2014 1205h										
Magnesium	76.4	mg/L	E200.7	0.294	10.0	10.00	71.1	52.8	70 - 130				2
Lab Sample ID: 1411349-001EMS		Date Analyzed:	12/02/2014 1530h										
Test Code: 200.7-DIS		Date Prepared:	11/24/2014 1205h										
Potassium	15.5	mg/L	E200.7	0.247	1.00	10.00	6.4	90.9	70 - 130				
Vanadium	0.188	mg/L	E200.7	0.00116	0.00500	0.2000	0	94.2	70 - 130				
Lab Sample ID: 1411349-002EMS		Date Analyzed:	12/12/2014 2149h										
Test Code: 200.8-DIS		Date Prepared:	12/10/2014 1131h										
Arsenic	0.202	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000335	101	75 - 125				
Beryllium	0.184	mg/L	E200.8	0.0000288	0.00200	0.2000	0	92.2	75 - 125				
Cadmium	0.181	mg/L	E200.8	0.000193	0.000500	0.2000	0	90.7	75 - 125				
Chromium	0.185	mg/L	E200.8	0.00154	0.00200	0.2000	0	92.3	75 - 125				
Cobalt	0.185	mg/L	E200.8	0.0000434	0.00400	0.2000	0	92.7	75 - 125				
Copper	0.187	mg/L	E200.8	0.000692	0.00200	0.2000	0	93.5	75 - 125				
Iron	0.929	mg/L	E200.8	0.0118	0.100	1.000	0	92.9	75 - 125				
Lead	0.183	mg/L	E200.8	0.000264	0.00200	0.2000	0	91.5	75 - 125				
Manganese	0.186	mg/L	E200.8	0.00153	0.00200	0.2000	0	92.9	75 - 125				
Molybdenum	0.197	mg/L	E200.8	0.000206	0.00200	0.2000	0.00111	97.8	75 - 125				
Nickel	0.184	mg/L	E200.8	0.000754	0.00200	0.2000	0	92.1	75 - 125				
Selenium	0.196	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0118	92.1	75 - 125				
Silver	0.172	mg/L	E200.8	0.0000244	0.00200	0.2000	0	86.0	75 - 125				
Thallium	0.180	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000257	89.7	75 - 125				
Tin	0.987	mg/L	E200.8	0.000348	0.00200	1.000	0	98.7	75 - 125				
Uranium	0.203	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0104	96.4	75 - 125				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: 1411349-002EMS		Date Analyzed: 12/12/2014 2149h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1131h											
Zinc	0.978	mg/L	E200.8	0.00476	0.00500	1.000	0.0078	97.0	75 - 125				
Lab Sample ID: 1412120-002EMS		Date Analyzed: 12/12/2014 2234h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1131h											
Arsenic	0.208	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00296	103	75 - 125				
Beryllium	0.182	mg/L	E200.8	0.0000288	0.00200	0.2000	0	91.2	75 - 125				
Cadmium	0.186	mg/L	E200.8	0.000193	0.000500	0.2000	0.000268	92.9	75 - 125				
Chromium	0.195	mg/L	E200.8	0.00154	0.00200	0.2000	0.00555	94.8	75 - 125				
Cobalt	0.188	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000616	94.1	75 - 125				
Copper	0.189	mg/L	E200.8	0.000692	0.00200	0.2000	0	94.4	75 - 125				
Iron	0.942	mg/L	E200.8	0.0118	0.100	1.000	0	94.2	75 - 125				
Lead	0.185	mg/L	E200.8	0.000264	0.00200	0.2000	0	92.3	75 - 125				
Manganese	0.186	mg/L	E200.8	0.00153	0.00200	0.2000	0	93.2	75 - 125				
Molybdenum	0.225	mg/L	E200.8	0.000206	0.00200	0.2000	0.024	100	75 - 125				
Nickel	0.185	mg/L	E200.8	0.000754	0.00200	0.2000	0	92.7	75 - 125				
Selenium	0.185	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00212	91.4	75 - 125				
Silver	0.174	mg/L	E200.8	0.0000244	0.00200	0.2000	0	86.9	75 - 125				
Thallium	0.180	mg/L	E200.8	0.0000242	0.00200	0.2000	0	90.2	75 - 125				
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125				
Uranium	0.198	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0016	98.2	75 - 125				
Zinc	1.01	mg/L	E200.8	0.00476	0.00500	1.000	0	101	75 - 125				
Lab Sample ID: 1411349-001EMS		Date Analyzed: 11/26/2014 1313h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 11/25/2014 1250h											
Mercury	0.00343	mg/L	E245.1	0.00000519	0.000150	0.003330	0	103	85 - 115				

² - 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: 1411349
Project: 4th 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
Lab Sample ID: 1411349-001EMSD													
Date Analyzed:		12/02/2014 1104h											
Test Code:		200.7-DIS											
Date Prepared:		11/24/2014 1205h											
Calcium	194	mg/L	E200.7	4.01	100	10.00	200	-59.0	70 - 130	191	1.35	20	2
Sodium	177	mg/L	E200.7	3.30	100	10.00	178	-7.17	70 - 130	173	2.52	20	2
Lab Sample ID: 1411349-001EMSD													
Date Analyzed:		12/02/2014 1218h											
Test Code:		200.7-DIS											
Date Prepared:		11/24/2014 1205h											
Magnesium	78.7	mg/L	E200.7	0.294	10.0	10.00	71.1	75.1	70 - 130	76.4	2.87	20	
Lab Sample ID: 1411349-001EMSD													
Date Analyzed:		12/02/2014 1532h											
Test Code:		200.7-DIS											
Date Prepared:		11/24/2014 1205h											
Potassium	16.7	mg/L	E200.7	0.247	1.00	10.00	6.4	103	70 - 130	15.5	7.66	20	
Vanadium	0.197	mg/L	E200.7	0.00116	0.00500	0.2000	0	98.4	70 - 130	0.188	4.39	20	
Lab Sample ID: 1411349-002EMSD													
Date Analyzed:		12/12/2014 2152h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1131h											
Arsenic	0.209	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000335	104	75 - 125	0.202	3.47	20	
Beryllium	0.187	mg/L	E200.8	0.0000288	0.00200	0.2000	0	93.5	75 - 125	0.184	1.45	20	
Cadmium	0.187	mg/L	E200.8	0.000193	0.000500	0.2000	0	93.6	75 - 125	0.181	3.14	20	
Chromium	0.189	mg/L	E200.8	0.00154	0.00200	0.2000	0	94.5	75 - 125	0.185	2.36	20	
Cobalt	0.186	mg/L	E200.8	0.0000434	0.00400	0.2000	0	92.9	75 - 125	0.185	0.245	20	
Copper	0.187	mg/L	E200.8	0.000692	0.00200	0.2000	0	93.6	75 - 125	0.187	0.0860	20	
Iron	0.936	mg/L	E200.8	0.0118	0.100	1.000	0	93.6	75 - 125	0.929	0.742	20	
Lead	0.187	mg/L	E200.8	0.000264	0.00200	0.2000	0	93.3	75 - 125	0.183	1.92	20	
Manganese	0.188	mg/L	E200.8	0.00153	0.00200	0.2000	0	93.9	75 - 125	0.186	1.07	20	
Molybdenum	0.201	mg/L	E200.8	0.000206	0.00200	0.2000	0.00111	100	75 - 125	0.197	2.15	20	
Nickel	0.186	mg/L	E200.8	0.000754	0.00200	0.2000	0	93.1	75 - 125	0.184	1.02	20	
Selenium	0.198	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0118	92.9	75 - 125	0.196	0.868	20	
Silver	0.177	mg/L	E200.8	0.0000244	0.00200	0.2000	0	88.7	75 - 125	0.172	3.09	20	
Thallium	0.183	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000257	91.6	75 - 125	0.18	2.06	20	
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125	0.987	1.86	20	
Uranium	0.207	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0104	98.2	75 - 125	0.203	1.77	20	



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: 1411349-002EMSD													
Date Analyzed:		12/12/2014 2152h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1131h											
Zinc	0.992	mg/L	E200.8	0.00476	0.00500	1.000	0.0078	98.4	75 - 125	0.978	1.48	20	
Lab Sample ID: 1412120-002EMSD													
Date Analyzed:		12/12/2014 2237h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1131h											
Arsenic	0.205	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00296	101	75 - 125	0.208	1.71	20	
Beryllium	0.180	mg/L	E200.8	0.0000288	0.00200	0.2000	0	90.2	75 - 125	0.182	1.11	20	
Cadmium	0.184	mg/L	E200.8	0.000193	0.000500	0.2000	0.000268	91.9	75 - 125	0.186	1.06	20	
Chromium	0.193	mg/L	E200.8	0.00154	0.00200	0.2000	0.00555	93.8	75 - 125	0.195	1.06	20	
Cobalt	0.187	mg/L	E200.8	0.0000434	0.00400	0.2000	0.0000616	93.7	75 - 125	0.188	0.487	20	
Copper	0.188	mg/L	E200.8	0.000692	0.00200	0.2000	0	94.0	75 - 125	0.189	0.461	20	
Iron	0.933	mg/L	E200.8	0.0118	0.100	1.000	0	93.3	75 - 125	0.942	0.982	20	
Lead	0.185	mg/L	E200.8	0.000264	0.00200	0.2000	0	92.3	75 - 125	0.185	0.0464	20	
Manganese	0.183	mg/L	E200.8	0.00153	0.00200	0.2000	0	91.5	75 - 125	0.186	1.89	20	
Molybdenum	0.223	mg/L	E200.8	0.000206	0.00200	0.2000	0.024	99.7	75 - 125	0.225	0.658	20	
Nickel	0.187	mg/L	E200.8	0.000754	0.00200	0.2000	0	93.7	75 - 125	0.185	1.07	20	
Selenium	0.181	mg/L	E200.8	0.0000634	0.00200	0.2000	0.00212	89.5	75 - 125	0.185	2.06	20	
Silver	0.171	mg/L	E200.8	0.0000244	0.00200	0.2000	0	85.3	75 - 125	0.174	1.89	20	
Thallium	0.180	mg/L	E200.8	0.0000242	0.00200	0.2000	0	89.9	75 - 125	0.18	0.309	20	
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125	1.01	0.00958	20	
Uranium	0.198	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0016	98.0	75 - 125	0.198	0.251	20	
Zinc	1.00	mg/L	E200.8	0.00476	0.00500	1.000	0	100	75 - 125	1.01	0.774	20	
Lab Sample ID: 1411349-001EMSD													
Date Analyzed:		11/26/2014 1315h											
Test Code:		HG-DW-DIS-245.1											
Date Prepared:		11/25/2014 1250h											
Mercury	0.00339	mg/L	E245.1	0.00000519	0.000150	0.003330	0	102	85 - 115	0.00343	1.03	20	

² - 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: 1411349
Project: 4th 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
Lab Sample ID: 1411349-001CDUP		Date Analyzed: 11/21/2014 1700h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,390	mg/L	SM2540C	12.3	20.0					1360	2.03	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: LCS-R73506 Date Analyzed: 12/01/2014 1509h													
Test Code: 300.0-W													
Chloride	4.98	mg/L	E300.0	0.00751	0.100	5.000	0	99.6	90 - 110				
Sulfate	5.23	mg/L	E300.0	0.0211	0.750	5.000	0	105	90 - 110				
Lab Sample ID: LCS-R73578 Date Analyzed: 12/02/2014 1449h													
Test Code: 300.0-W													
Chloride	4.91	mg/L	E300.0	0.00751	0.100	5.000	0	98.2	90 - 110				
Fluoride	4.83	mg/L	E300.0	0.00681	0.100	5.000	0	96.7	90 - 110				
Lab Sample ID: LCS-R73635 Date Analyzed: 12/04/2014 1051h													
Test Code: 300.0-W													
Sulfate	5.20	mg/L	E300.0	0.0211	0.750	5.000	0	104	90 - 110				
Lab Sample ID: LCS-R73308 Date Analyzed: 11/24/2014 951h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	50,100	mg/L	SM2320B	0.504	1.00	50,000	0	100	90 - 110				
Lab Sample ID: LCS-R73598 Date Analyzed: 12/02/2014 1235h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.943	mg/L	E353.2	0.00833	0.0100	1.000	0	94.3	90 - 110				
Lab Sample ID: LCS-R73330 Date Analyzed: 11/21/2014 1700h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	212	mg/L	SM2540C	6.13	10.0	205.0	0	103	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: MB-R73506 Date Analyzed: 12/01/2014 1452h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
Lab Sample ID: MB-R73578 Date Analyzed: 12/02/2014 1432h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Lab Sample ID: MB-R73635 Date Analyzed: 12/04/2014 1034h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
Lab Sample ID: MB-R73308 Date Analyzed: 11/24/2014 951h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Lab Sample ID: MB-R73598 Date Analyzed: 12/02/2014 1234h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R73330 Date Analyzed: 11/21/2014 1700h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: 1411349-002BMS Date Analyzed: 12/01/2014 1732h													
Test Code: 300.0-W													
Sulfate	7,420	mg/L	E300.0	21.1	750	5,000	2130	106	90 - 110				
Lab Sample ID: 1411349-001BMS Date Analyzed: 12/01/2014 2054h													
Test Code: 300.0-W													
Sulfate	1,390	mg/L	E300.0	2.11	75.0	500.0	920	94.5	90 - 110				
Lab Sample ID: 1411349-003BMS Date Analyzed: 12/01/2014 2236h													
Test Code: 300.0-W													
Chloride	112	mg/L	E300.0	0.0751	1.00	50.00	58.5	106	90 - 110				
Lab Sample ID: 1411349-002BMS Date Analyzed: 12/02/2014 1647h													
Test Code: 300.0-W													
Chloride	11.1	mg/L	E300.0	0.00751	0.100	5.000	5.98	102	90 - 110				
Fluoride	4.99	mg/L	E300.0	0.00681	0.100	5.000	0.234	95.1	90 - 110				
Lab Sample ID: 1411349-001BMS Date Analyzed: 12/02/2014 1845h													
Test Code: 300.0-W													
Fluoride	4.92	mg/L	E300.0	0.00681	0.100	5.000	0.274	93.0	90 - 110				
Lab Sample ID: 1411349-006BMS Date Analyzed: 12/04/2014 1124h													
Test Code: 300.0-W													
Sulfate	7,570	mg/L	E300.0	21.1	750	5,000	2450	102	90 - 110				
Lab Sample ID: 1411349-001BMS Date Analyzed: 11/24/2014 951h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,730	mg/L	SM2320B	0.504	1.00	2,500	224	100	80 - 120				
Lab Sample ID: 1411349-001DMS Date Analyzed: 12/02/2014 1252h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.500	mg/L	E353.2	0.00833	0.0100	1.000	0	50.0	90 - 110				#

¹ - 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: 1411349
Project: 4th 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
Lab Sample ID: 1411349-002BMSD Date Analyzed: 12/01/2014 1749h													
Test Code: 300.0-W													
Sulfate	7,450	mg/L	E300.0	21.1	750	5,000	2130	106	90 - 110	7420	0.488	20	
Lab Sample ID: 1411349-001BMSD Date Analyzed: 12/01/2014 2111h													
Test Code: 300.0-W													
Sulfate	1,400	mg/L	E300.0	2.11	75.0	500.0	920	95.1	90 - 110	1390	0.208	20	
Lab Sample ID: 1411349-003BMSD Date Analyzed: 12/01/2014 2252h													
Test Code: 300.0-W													
Chloride	112	mg/L	E300.0	0.0751	1.00	50.00	58.5	107	90 - 110	112	0.488	20	
Lab Sample ID: 1411349-002BMSD Date Analyzed: 12/02/2014 1704h													
Test Code: 300.0-W													
Chloride	11.0	mg/L	E300.0	0.00751	0.100	5.000	5.98	101	90 - 110	11.1	0.444	20	
Fluoride	4.96	mg/L	E300.0	0.00681	0.100	5.000	0.234	94.5	90 - 110	4.99	0.601	20	
Lab Sample ID: 1411349-001BMSD Date Analyzed: 12/02/2014 1902h													
Test Code: 300.0-W													
Fluoride	4.79	mg/L	E300.0	0.00681	0.100	5.000	0.274	90.3	90 - 110	4.92	2.71	20	
Lab Sample ID: 1411349-006BMSD Date Analyzed: 12/04/2014 1141h													
Test Code: 300.0-W													
Sulfate	7,690	mg/L	E300.0	21.1	750	5,000	2450	105	90 - 110	7570	1.58	20	
Lab Sample ID: 1411349-001BMSD Date Analyzed: 11/24/2014 951h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,720	mg/L	SM2320B	0.504	1.00	2,500	224	99.9	80 - 120	2730	0.158	10	
Lab Sample ID: 1411349-001DMSD Date Analyzed: 12/02/2014 1253h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.770	mg/L	E353.2	0.00833	0.0100	1.000	0	77.0	90 - 110	0.5	42.6	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.

Report Date: 12/28/2014 Page 47 of 51



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: LCS VOC-3 112114A Date Analyzed: 11/21/2014 816h													
Test Code: 8260-W													
Benzene	17.9	µg/L	SW8260C	0.270	2.00	20.00	0	89.4	62 - 127				
Chloroform	18.8	µg/L	SW8260C	0.153	2.00	20.00	0	94.3	67 - 132				
Methylene chloride	16.0	µg/L	SW8260C	0.172	2.00	20.00	0	80.1	32 - 185				
Naphthalene	17.8	µg/L	SW8260C	0.587	2.00	20.00	0	89.0	28 - 136				
Tetrahydrofuran	14.4	µg/L	SW8260C	0.516	2.00	20.00	0	71.8	43 - 146				
Toluene	18.5	µg/L	SW8260C	0.183	2.00	20.00	0	92.4	64 - 129				
Xylenes, Total	58.2	µg/L	SW8260C	0.857	2.00	60.00	0	97.0	52 - 134				
Surr: 1,2-Dichloroethane-d4	50.4	µg/L	SW8260C			50.00		101	76 - 138				
Surr: 4-Bromofluorobenzene	51.5	µg/L	SW8260C			50.00		103	77 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.9	81 - 135				
Lab Sample ID: LCS VOC-3 112514A Date Analyzed: 11/25/2014 829h													
Test Code: 8260-W													
Chloroform	20.9	µg/L	SW8260C	0.153	2.00	20.00	0	105	67 - 132				
Surr: 1,2-Dichloroethane-d4	51.7	µg/L	SW8260C			50.00		103	76 - 138				
Surr: 4-Bromofluorobenzene	48.2	µg/L	SW8260C			50.00		96.4	77 - 121				
Surr: Dibromofluoromethane	49.8	µg/L	SW8260C			50.00		99.5	67 - 128				
Surr: Toluene-d8	47.4	µg/L	SW8260C			50.00		94.8	81 - 135				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: MB VOC-3 112114A		Date Analyzed: 11/21/2014 855h											
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	4.11	10.0								
Acetone	< 10.0	µg/L	SW8260C	1.70	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	53.3	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	52.5	µg/L	SW8260C			50.00		105	77 - 121				
Surr: Dibromofluoromethane	51.8	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	51.1	µg/L	SW8260C			50.00		102	81 - 135				
Lab Sample ID: MB VOC-3 112514A		Date Analyzed: 11/25/2014 908h											
Test Code: 8260-W													
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Surr: 1,2-Dichloroethane-d4	53.3	µg/L	SW8260C			50.00		107	76 - 138				
Surr: 4-Bromofluorobenzene	48.3	µg/L	SW8260C			50.00		96.7	77 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	47.1	µg/L	SW8260C			50.00		94.3	81 - 135				



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: 1411349-001AMS		Date Analyzed: 11/21/2014 1751h											
Test Code: 8260-W													
Benzene	17.5	µg/L	SW8260C	0.270	2.00	20.00	0	87.7	66 - 145				
Chloroform	19.9	µg/L	SW8260C	0.153	2.00	20.00	0	99.7	50 - 146				
Methylene chloride	14.2	µg/L	SW8260C	0.172	2.00	20.00	0	70.9	30 - 192				
Naphthalene	19.7	µg/L	SW8260C	0.587	2.00	20.00	0	98.3	41 - 131				
Tetrahydrofuran	19.9	µg/L	SW8260C	0.516	2.00	20.00	0	99.6	43 - 146				
Toluene	18.9	µg/L	SW8260C	0.183	2.00	20.00	0	94.7	18 - 192				
Xylenes, Total	60.5	µg/L	SW8260C	0.857	2.00	60.00	0	101	42 - 167				
Surr: 1,2-Dichloroethane-d4	55.4	µg/L	SW8260C			50.00		111	72 - 151				
Surr: 4-Bromofluorobenzene	54.5	µg/L	SW8260C			50.00		109	80 - 128				
Surr: Dibromofluoromethane	53.6	µg/L	SW8260C			50.00		107	80 - 124				
Surr: Toluene-d8	50.9	µg/L	SW8260C			50.00		102	77 - 129				
Lab Sample ID: 1411381-001AMS		Date Analyzed: 11/25/2014 1141h											
Test Code: 8260-W													
Chloroform	19.6	µg/L	SW8260C	0.153	2.00	20.00	0	98.0	50 - 146				
Surr: 1,2-Dichloroethane-d4	54.4	µg/L	SW8260C			50.00		109	72 - 151				
Surr: 4-Bromofluorobenzene	49.0	µg/L	SW8260C			50.00		98.0	80 - 128				
Surr: Dibromofluoromethane	50.6	µg/L	SW8260C			50.00		101	80 - 124				
Surr: Toluene-d8	46.3	µg/L	SW8260C			50.00		92.6	77 - 129				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411349
Project: 4th 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
Lab Sample ID: 1411349-001AMSD		Date Analyzed: 11/21/2014 1811h											
Test Code: 8260-W													
Benzene	17.2	µg/L	SW8260C	0.270	2.00	20.00	0	86.2	66 - 145	17.5	1.67	25	
Chloroform	19.8	µg/L	SW8260C	0.153	2.00	20.00	0	99.2	50 - 146	19.9	0.553	25	
Methylene chloride	13.8	µg/L	SW8260C	0.172	2.00	20.00	0	69.0	30 - 192	14.2	2.79	25	
Naphthalene	19.5	µg/L	SW8260C	0.587	2.00	20.00	0	97.5	41 - 131	19.7	0.868	25	
Tetrahydrofuran	18.6	µg/L	SW8260C	0.516	2.00	20.00	0	93.0	43 - 146	19.9	6.85	25	
Toluene	18.7	µg/L	SW8260C	0.183	2.00	20.00	0	93.6	18 - 192	18.9	1.17	25	
Xylenes, Total	60.5	µg/L	SW8260C	0.857	2.00	60.00	0	101	42 - 167	60.5	0.0165	25	
Surr: 1,2-Dichloroethane-d4	55.1	µg/L	SW8260C			50.00		110	72 - 151				
Surr: 4-Bromofluorobenzene	53.4	µg/L	SW8260C			50.00		107	80 - 128				
Surr: Dibromofluoromethane	52.5	µg/L	SW8260C			50.00		105	80 - 124				
Surr: Toluene-d8	51.6	µg/L	SW8260C			50.00		103	77 - 129				
Lab Sample ID: 1411381-001AMSD		Date Analyzed: 11/25/2014 1200h											
Test Code: 8260-W													
Chloroform	20.2	µg/L	SW8260C	0.153	2.00	20.00	0	101	50 - 146	19.6	2.92	25	
Surr: 1,2-Dichloroethane-d4	55.0	µg/L	SW8260C			50.00		110	72 - 151				
Surr: 4-Bromofluorobenzene	50.6	µg/L	SW8260C			50.00		101	80 - 128				
Surr: Dibromofluoromethane	51.2	µg/L	SW8260C			50.00		102	80 - 124				
Surr: Toluene-d8	47.4	µg/L	SW8260C			50.00		94.8	77 - 129				

American West Analytical Laboratories

REVISED: 11-24-14

UL
Denison

11-24-14 - NH3 sent to Chemtech due to instrument not working. DB

WORK ORDER Summary

Work Order: **1411349** Page 1 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 12/4/2014

Client ID: DEN100

Contact: Garrin Palmer

Project: 4th Quarter Groundwater 2014

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Metals have been field filtered. 11-24-14 - NH3 sent to Chemtech due to instrument not working.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1411349-001A	MW-01_11172014	11/17/2014 1245h	11/21/2014 1300h	8260-W	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411349-001B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL		df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>			
1411349-001C				TDS-W-2540C		ww - tds	
				<i>1 SEL Analytes: TDS</i>			
1411349-001D				NO2/NO3-W-353.2		df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1411349-001E				200.7-DIS		df - wc	
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR		df - wc	
				200.8-DIS		df - wc	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR		df - wc	
				HG-DW-DIS-245.1		df - wc	
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR		df - wc	
				IONBALANCE		df - wc	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411349-001F				OUTSIDE LAB		Chemtech-Ford	
1411349-002A	MW-02_11172014	11/17/2014 1435h	11/21/2014 1300h	8260-W	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411349-002B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL		df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>			

WORK ORDER Summary

Work Order: **1411349** Page 2 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 12/4/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1411349-002C	MW-02_11172014	11/17/2014 1435h	11/21/2014 1300h	TDS-W-2540C <i>1 SEL Analytes: TDS</i>	Aqueous	ww - tds	1
1411349-002D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1411349-002E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1411349-002F				OUTSIDE LAB		Chemtech-Ford	
1411349-003A	MW-03_11172014	11/17/2014 1410h	11/21/2014 1300h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	VOCFridge	3
1411349-003B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		df - wc	1
				ALK-W-2320B-1.L <i>2 SEL Analytes: ALKB ALKC</i>		df - wc	
1411349-003C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		ww - tds	
1411349-003D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		df - no2/no3 & nh3	
1411349-003E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		df-met	
				200.7-DIS-PR		df-met	
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		df-met	
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		df-met	
				HG-DW-DIS-PR		df-met	
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		df-met	
1411349-003F				OUTSIDE LAB		Chemtech-Ford	

WORK ORDER Summary

Work Order: **1411349** Page 3 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 12/4/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1411349-004A	MW-11_11172014	11/17/2014 1210h	11/21/2014 1300h	8260-W	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411349-004B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL		df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>			
1411349-004C				TDS-W-2540C		ww - tds	
				<i>1 SEL Analytes: TDS</i>			
1411349-004D				NO2/NO3-W-353.2		df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1411349-004E				200.7-DIS		df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR		df-met	
				HG-DW-DIS-245.1		df-met	
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR		df-met	
				IONBALANCE		df-met	
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411349-004F				OUTSIDE LAB		Chemtech-Ford	
1411349-005A	MW-22_11182014	11/18/2014 1215h	11/21/2014 1300h	8260-W	Aqueous	VOCFridge	3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411349-005B				300.0-W		df - wc	1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL		df - wc	
				<i>2 SEL Analytes: ALKB ALKC</i>			
1411349-005C				TDS-W-2540C		ww - tds	
				<i>1 SEL Analytes: TDS</i>			
1411349-005D				NO2/NO3-W-353.2		df - no2/no3 & nh3	
				<i>1 SEL Analytes: NO3NO2N</i>			
1411349-005E				200.7-DIS		df-met	
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR		df-met	
				200.8-DIS		df-met	
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR		df-met	

WORK ORDER Summary

Work Order: **1411349** Page 4 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 12/4/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411349-005E	MW-22_11182014	11/18/2014 1215h	11/21/2014 1300h	HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>	Aqueous		df-met 1
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411349-005F				OUTSIDE LAB			Chemtech-Ford
1411349-006A	MW-23_11192014	11/19/2014 1040h	11/21/2014 1300h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411349-006B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc
1411349-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			ww - tds
1411349-006D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3
1411349-006E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met
				200.7-DIS-PR			df-met
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411349-006F				OUTSIDE LAB			Chemtech-Ford
1411349-007A	MW-24_11192014	11/19/2014 1015h	11/21/2014 1300h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411349-007B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc
1411349-007C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			ww - tds
1411349-007D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3

WORK ORDER Summary

Work Order: **1411349** Page 5 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 12/4/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411349-007E	MW-24_11192014	11/19/2014 1015h	11/21/2014 1300h	200.7-DIS	Aqueous		df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411349-007F				OUTSIDE LAB			Chemtech-Ford
1411349-008A	MW-26_11182014	11/18/2014 1510h	11/21/2014 1300h	8260-W	Aqueous		VOCFridge
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411349-008B				300.0-W			df - wc
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1411349-008C				TDS-W-2540C			ww - tds
				<i>1 SEL Analytes: TDS</i>			
1411349-008D				NO2/NO3-W-353.2			df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
1411349-008E				200.7-DIS			df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411349-008F				OUTSIDE LAB			Chemtech-Ford
1411349-009A	MW-70_11182014	11/18/2014 1215h	11/21/2014 1300h	8260-W	Aqueous		VOCFridge
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411349-009B				300.0-W			df - wc
				<i>3 SEL Analytes: CL F SO4</i>			

WORK ORDER Summary

Work Order: **1411349** Page 6 of 6

Client: Energy Fuels Resources, Inc.

Due Date: 12/4/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411349-009B	MW-70_11182014	11/18/2014 1215h	11/21/2014 1300h	ALK-W-2320B-LL	Aqueous		df - wc
						2 SEL Analytes: ALKB ALKC	
1411349-009C				TDS-W-2540C			ww - tds
						1 SEL Analytes: TDS	
1411349-009D				NO2/NO3-W-353.2			df - no2/no3 & nh3
						1 SEL Analytes: NO3NO2N	
1411349-009E				200.7-DIS			df-met
							5 SEL Analytes: CA MG K NA V
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
							17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
							1 SEL Analytes: HG
	HG-DW-DIS-PR		df-met				
			IONBALANCE				
		5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc					
1411349-009F			OUTSIDE LAB			Chemtech-Ford	
1411349-010A	Trip Blank	11/17/2014	11/21/2014 1300h	8260-W	Aqueous		VOCFridge
							Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4



AMERICAN WEST ANALYTICAL LABORATORIES

3440 S 700 W SALT LAKE CITY, UT 84119
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 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.

14 11 349
 AWAL LAB SAMPLE SET #
 PAGE 1 OF 1

CLIENT: **Energy Fuels Resources, Inc.**
 ADDRESS: **6425 S. Hwy. 191**
Blanding, UT 84511
 CONTACT: **Garrin Palmer**
 PHONE #: **(435) 678-2221** CELL #:
gpalmer@energyfuels.com; KWeinel@energyfuels.com;
dturk@energyfuels.com
 PROJECT NAME: **4th 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													
# OF CONTAINERS	SAMPLE MATRIX	FOR COMPLIANCE WITH:												KNOWN HAZARDS & SAMPLE COMMENTS	
		N02/N03 (353.2)	NH3 (4500G or 350.1)	FI, CI, 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	LABORATORY USE ONLY		
7	W	X	X	X	X	X	X	X	X	X	X	X	X	<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 SHIPPED OR HAND-DELIVERED 2 AMBIENT OR CHILLED 3 TEMPERATURE: 2.3 °C 4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) 5 PROPERLY PRESERVED 6 RECEIVED WITHIN HOLDING TIMES
7	W	X	X	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
7	W	X	X	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
7	W	X	X	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
7	W	X	X	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
7	W	X	X	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
7	W	X	X	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	W												X		DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORDS?
1	W														

RELINQUISHED BY: SIGNATURE: <i>Tanner Holliday</i>	DATE: 11/20/2014	RECEIVED BY: SIGNATURE: <i>Elena Hayward</i>	DATE: 11/21/14
PRINT NAME: Tanner Holliday	TIME: 1000	PRINT NAME: Elena Hayward	TIME: 1300
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	4	5	6	7	8	9									
Ammonia	pH <2 H ₂ SO ₄	Yes																	
COD	pH <2 H ₂ SO ₄																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO ₃	Yes																	
NO ₂ & NO ₃	pH <2 H ₂ SO ₄	Yes																	
O & G	pH <2 HCL																		
Phenols	pH <2 H ₂ SO ₄																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H ₂ SO ₄																		
T PO ₄	pH <2 H ₂ SO ₄																		

- 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: 4th Quarter Groundwater 2014

Dear Garrin Palmer:

Lab Set ID: 1411097

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received 6 sample(s) on 11/7/2014 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.

Phone: (801) 263-8686
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e-mail: awal@awal-labs.com
web: www.awal-labs.com

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

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

This is a revision to a report originally issued 12/28/2014. Pages 1 and 10 have been revised.

Thank You,

Kyle F. Gross
Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=American West Analytical Lab, ou=Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2015.01.23 08:54:25 -0700

Approved by:

Laboratory Director or designee

Sample(s) were subcontracted for the following analyses:

Ammonia



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411097
Date Received: 11/7/2014 1000h

Contact: Garrin Palmer

3440 South 700 West
 Salt Lake City, UT 84119

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 web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411097-001A	MW-25_11042014	11/4/2014 1225h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411097-001B	MW-25_11042014	11/4/2014 1225h	Aqueous	Anions, E300.0
1411097-001B	MW-25_11042014	11/4/2014 1225h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411097-001C	MW-25_11042014	11/4/2014 1225h	Aqueous	Total Dissolved Solids, A2540C
1411097-001D	MW-25_11042014	11/4/2014 1225h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411097-001E	MW-25_11042014	11/4/2014 1225h	Aqueous	Ion Balance
1411097-001E	MW-25_11042014	11/4/2014 1225h	Aqueous	ICP Metals, Dissolved
1411097-001E	MW-25_11042014	11/4/2014 1225h	Aqueous	ICPMS Metals, Dissolved
1411097-001E	MW-25_11042014	11/4/2014 1225h	Aqueous	Mercury, Drinking Water Dissolved
1411097-001F	MW-25_11042014	11/4/2014 1225h	Aqueous	Analysis subcontracted to outside laboratory
1411097-002A	MW-27_11052014	11/5/2014 1135h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411097-002B	MW-27_11052014	11/5/2014 1135h	Aqueous	Anions, E300.0
1411097-002B	MW-27_11052014	11/5/2014 1135h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411097-002C	MW-27_11052014	11/5/2014 1135h	Aqueous	Total Dissolved Solids, A2540C
1411097-002D	MW-27_11052014	11/5/2014 1135h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411097-002E	MW-27_11052014	11/5/2014 1135h	Aqueous	Ion Balance
1411097-002E	MW-27_11052014	11/5/2014 1135h	Aqueous	ICP Metals, Dissolved
1411097-002E	MW-27_11052014	11/5/2014 1135h	Aqueous	ICPMS Metals, Dissolved
1411097-002E	MW-27_11052014	11/5/2014 1135h	Aqueous	Mercury, Drinking Water Dissolved
1411097-002F	MW-27_11052014	11/5/2014 1135h	Aqueous	Analysis subcontracted to outside laboratory
1411097-003A	MW-28_11052014	11/5/2014 1545h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411097-003B	MW-28_11052014	11/5/2014 1545h	Aqueous	Anions, E300.0
1411097-003B	MW-28_11052014	11/5/2014 1545h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411097-003C	MW-28_11052014	11/5/2014 1545h	Aqueous	Total Dissolved Solids, A2540C
1411097-003D	MW-28_11052014	11/5/2014 1545h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411097-003E	MW-28_11052014	11/5/2014 1545h	Aqueous	Ion Balance
1411097-003E	MW-28_11052014	11/5/2014 1545h	Aqueous	ICPMS Metals, Dissolved
1411097-003E	MW-28_11052014	11/5/2014 1545h	Aqueous	Mercury, Drinking Water Dissolved



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411097
Date Received: 11/7/2014 1000h

Contact: Garrin Palmer

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Salt Lake City, UT 84119

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411097-003E	MW-28_11052014	11/5/2014 1545h	Aqueous	ICP Metals, Dissolved
1411097-003F	MW-28_11052014	11/5/2014 1545h	Aqueous	Analysis subcontracted to outside laboratory
1411097-004A	MW-31_11042014	11/4/2014 1400h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411097-004B	MW-31_11042014	11/4/2014 1400h	Aqueous	Anions, E300.0
1411097-004B	MW-31_11042014	11/4/2014 1400h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411097-004C	MW-31_11042014	11/4/2014 1400h	Aqueous	Total Dissolved Solids, A2540C
1411097-004D	MW-31_11042014	11/4/2014 1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411097-004E	MW-31_11042014	11/4/2014 1400h	Aqueous	ICPMS Metals, Dissolved
1411097-004E	MW-31_11042014	11/4/2014 1400h	Aqueous	Mercury, Drinking Water Dissolved
1411097-004E	MW-31_11042014	11/4/2014 1400h	Aqueous	ICP Metals, Dissolved
1411097-004E	MW-31_11042014	11/4/2014 1400h	Aqueous	Ion Balance
1411097-004F	MW-31_11042014	11/4/2014 1400h	Aqueous	Analysis subcontracted to outside laboratory
1411097-005A	MW-32_11052014	11/5/2014 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411097-005B	MW-32_11052014	11/5/2014 1300h	Aqueous	Anions, E300.0
1411097-005B	MW-32_11052014	11/5/2014 1300h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411097-005C	MW-32_11052014	11/5/2014 1300h	Aqueous	Total Dissolved Solids, A2540C
1411097-005D	MW-32_11052014	11/5/2014 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411097-005E	MW-32_11052014	11/5/2014 1300h	Aqueous	Ion Balance
1411097-005E	MW-32_11052014	11/5/2014 1300h	Aqueous	ICP Metals, Dissolved
1411097-005E	MW-32_11052014	11/5/2014 1300h	Aqueous	ICPMS Metals, Dissolved
1411097-005E	MW-32_11052014	11/5/2014 1300h	Aqueous	Mercury, Drinking Water Dissolved
1411097-005F	MW-32_11052014	11/5/2014 1300h	Aqueous	Analysis subcontracted to outside laboratory
1411097-006A	Trip	11/4/2014	Aqueous	VOA by GC/MS Method 8260C/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411097

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 Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Sample Receipt Information:

Date of Receipt: 11/7/2014
Date(s) of Collection: 11/4- 11/5/2014
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
1411097-001E	Calcium	MS/MSD	High analyte concentration
1411097-001E	Manganese	MS	High analyte concentration
1411097-001E	Silver	MSD	Sample matrix interference

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits, with the following exception: on sample 1411097-001C, high RPDs were observed on Total Dissolved Solids due to suspected sample non-homogeneity of matrix interference.

Corrective Action: None required.



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411097

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 11/7/2014
Date(s) of Collection: 11/4- 11/5/2014
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: 1411097
Project: 4th 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
Lab Sample ID: LCS-34148													
Date Analyzed:		11/10/2014 1132h											
Test Code:		200.7-DIS											
Date Prepared:		11/07/2014 1132h											
Calcium	9.26	mg/L	E200.7	0.0401	1.00	10.00	0	92.6	85 - 115				
Magnesium	9.42	mg/L	E200.7	0.0294	1.00	10.00	0	94.2	85 - 115				
Potassium	9.45	mg/L	E200.7	0.247	1.00	10.00	0	94.5	85 - 115				
Sodium	9.39	mg/L	E200.7	0.0330	1.00	10.00	0	93.9	85 - 115				
Vanadium	0.185	mg/L	E200.7	0.00116	0.00500	0.2000	0	92.3	85 - 115				
Lab Sample ID: LCS-34149													
Date Analyzed:		11/17/2014 2125h											
Test Code:		200.8-DIS											
Date Prepared:		11/07/2014 1132h											
Arsenic	0.195	mg/L	E200.8	0.0000920	0.00500	0.2000	0	97.7	85 - 115				
Beryllium	0.211	mg/L	E200.8	0.0000288	0.00200	0.2000	0	105	85 - 115				
Cadmium	0.186	mg/L	E200.8	0.000193	0.000500	0.2000	0	93.1	85 - 115				
Chromium	0.192	mg/L	E200.8	0.00154	0.0250	0.2000	0	96.2	85 - 115				
Cobalt	0.192	mg/L	E200.8	0.0000434	0.0100	0.2000	0	95.8	85 - 115				
Copper	0.198	mg/L	E200.8	0.000692	0.0100	0.2000	0	99.0	85 - 115				
Lead	0.188	mg/L	E200.8	0.000264	0.00400	0.2000	0	93.9	85 - 115				
Manganese	0.194	mg/L	E200.8	0.00153	0.0100	0.2000	0	96.9	85 - 115				
Molybdenum	0.190	mg/L	E200.8	0.000206	0.0100	0.2000	0	94.9	85 - 115				
Nickel	0.190	mg/L	E200.8	0.000754	0.0200	0.2000	0	95.1	85 - 115				
Selenium	0.183	mg/L	E200.8	0.0000634	0.00500	0.2000	0	91.7	85 - 115				
Silver	0.177	mg/L	E200.8	0.0000244	0.0100	0.2000	0	88.6	85 - 115				
Thallium	0.181	mg/L	E200.8	0.0000242	0.00200	0.2000	0	90.3	85 - 115				
Tin	0.960	mg/L	E200.8	0.000348	0.100	1.000	0	96.0	85 - 115				
Uranium	0.194	mg/L	E200.8	0.0000112	0.00300	0.2000	0	96.8	85 - 115				
Lab Sample ID: LCS-34689													
Date Analyzed:		12/12/2014 1928h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1103h											
Iron	0.998	mg/L	E200.8	0.0118	0.100	1.000	0	99.8	85 - 115				
Zinc	1.00	mg/L	E200.8	0.00476	0.00500	1.000	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: 1411097
Project: 4th 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
Lab Sample ID: LCS-34190	Date Analyzed:		11/11/2014 931h										
Test Code: HG-DW-DIS-245.1	Date Prepared:		11/10/2014 1445h										
Mercury	0.00338	mg/L	E245.1	0.00000519	0.000150	0.003330	0	101	85 - 115				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: MB-34148	Date Analyzed:	11/10/2014 1130h											
Test Code: 200.7-DIS	Date Prepared:	11/07/2014 1132h											
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
Lab Sample ID: MB-34149	Date Analyzed:	11/17/2014 2122h											
Test Code: 200.8-DIS	Date Prepared:	11/07/2014 1132h											
Arsenic	< 0.00500	mg/L	E200.8	0.0000920	0.00500								
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Chromium	< 0.0250	mg/L	E200.8	0.00154	0.0250								
Cobalt	< 0.0100	mg/L	E200.8	0.0000434	0.0100								
Copper	< 0.0100	mg/L	E200.8	0.000692	0.0100								
Manganese	< 0.0100	mg/L	E200.8	0.00153	0.0100								
Molybdenum	< 0.0100	mg/L	E200.8	0.000206	0.0100								
Nickel	< 0.0200	mg/L	E200.8	0.000754	0.0200								
Selenium	< 0.00500	mg/L	E200.8	0.0000634	0.00500								
Silver	< 0.0100	mg/L	E200.8	0.0000244	0.0100								
Tin	< 0.100	mg/L	E200.8	0.000348	0.100								
Lab Sample ID: MB-34149	Date Analyzed:	11/17/2014 2216h											
Test Code: 200.8-DIS	Date Prepared:	11/07/2014 1132h											
Beryllium	< 0.000500	mg/L	E200.8	0.00000720	0.000500								
Lead	< 0.00100	mg/L	E200.8	0.0000660	0.00100								
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								
Lab Sample ID: MB-34149	Date Analyzed:	11/17/2014 2245h											
Test Code: 200.8-DIS	Date Prepared:	11/07/2014 1132h											
Uranium	< 0.000300	mg/L	E200.8	0.00000112	0.000300								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: MB-34689	Date Analyzed:	12/12/2014	1925h										
Test Code:	200.8-DIS	Date Prepared:	12/10/2014	1103h									
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								
Lab Sample ID: MB-34689	Date Analyzed:	12/12/2014	2250h										
Test Code:	200.8-DIS	Date Prepared:	12/10/2014	1103h									
Iron	< 0.0250	mg/L	E200.8	0.00296	0.0250								
Lab Sample ID: MB-34190	Date Analyzed:	11/11/2014	930h										
Test Code:	HG-DW-DIS-245.1	Date Prepared:	11/10/2014	1445h									
Mercury	< 0.000150	mg/L	E245.1	0.00000519	0.000150								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: 1411097-001EMS		Date Analyzed:	11/10/2014 1140h										
Test Code: 200.7-DIS		Date Prepared:	11/07/2014 1132h										
Calcium	334	mg/L	E200.7	4.01	100	10.00	331	33.3	70 - 130				2
Magnesium	123	mg/L	E200.7	2.94	100	10.00	112	111	70 - 130				
Sodium	283	mg/L	E200.7	3.30	100	10.00	272	111	70 - 130				
Lab Sample ID: 1411097-001EMS		Date Analyzed:	11/10/2014 1348h										
Test Code: 200.7-DIS		Date Prepared:	11/07/2014 1132h										
Potassium	19.3	mg/L	E200.7	0.247	1.00	10.00	9.43	98.8	70 - 130				
Vanadium	0.185	mg/L	E200.7	0.00116	0.00500	0.2000	0	92.7	70 - 130				
Lab Sample ID: 1411097-001EMS		Date Analyzed:	11/17/2014 2138h										
Test Code: 200.8-DIS		Date Prepared:	11/07/2014 1132h										
Arsenic	0.199	mg/L	E200.8	0.0000920	0.00500	0.2000	0.0002	99.3	75 - 125				
Beryllium	0.200	mg/L	E200.8	0.0000288	0.00200	0.2000	0	99.8	75 - 125				
Cadmium	0.185	mg/L	E200.8	0.000193	0.000500	0.2000	0.00157	91.9	75 - 125				
Chromium	0.184	mg/L	E200.8	0.00154	0.0250	0.2000	0	92.0	75 - 125				
Cobalt	0.193	mg/L	E200.8	0.0000434	0.0100	0.2000	0.00857	92.1	75 - 125				
Copper	0.184	mg/L	E200.8	0.000692	0.0100	0.2000	0	92.1	75 - 125				
Lead	0.182	mg/L	E200.8	0.000264	0.00400	0.2000	0.000299	90.7	75 - 125				
Manganese	1.67	mg/L	E200.8	0.00153	0.0100	0.2000	1.52	72.4	75 - 125				2
Molybdenum	0.209	mg/L	E200.8	0.000206	0.0100	0.2000	0.0119	98.8	75 - 125				
Nickel	0.188	mg/L	E200.8	0.000754	0.0200	0.2000	0.00488	91.6	75 - 125				
Selenium	0.184	mg/L	E200.8	0.0000634	0.00500	0.2000	0.000178	92.1	75 - 125				
Silver	0.152	mg/L	E200.8	0.0000244	0.0100	0.2000	0.0001	75.8	75 - 125				
Thallium	0.177	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000767	87.9	75 - 125				
Tin	0.984	mg/L	E200.8	0.000348	0.100	1.000	0.000823	98.3	75 - 125				
Uranium	0.197	mg/L	E200.8	0.0000112	0.00300	0.2000	0.00604	95.3	75 - 125				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: 1411097-002EMS		Date Analyzed: 12/12/2014 1957h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1103h											
Iron	0.980	mg/L	E200.8	0.0118	0.100	1.000	0	98.0	75 - 125				
Zinc	0.986	mg/L	E200.8	0.00476	0.00500	1.000	0	98.6	75 - 125				
Lab Sample ID: 1411223-002EMS		Date Analyzed: 12/12/2014 2029h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1103h											
Iron	0.971	mg/L	E200.8	0.0118	0.100	1.000	0.0386	93.2	75 - 125				
Zinc	0.995	mg/L	E200.8	0.00476	0.00500	1.000	0	99.5	75 - 125				
Lab Sample ID: 1411097-001EMS		Date Analyzed: 11/11/2014 938h											
Test Code: HG-DW-DIS-245.1		Date Prepared: 11/10/2014 1445h											
Mercury	0.00342	mg/L	E245.1	0.00000519	0.000150	0.003330	0	103	85 - 115				

² - 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: 1411097
Project: 4th 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
Lab Sample ID: 1411097-001EMSD		Date Analyzed:	11/10/2014 1142h										
Test Code: 200.7-DIS		Date Prepared:	11/07/2014 1132h										
Calcium	330	mg/L	E200.7	4.01	100	10.00	331	-9.67	70 - 130	334	1.29	20	2
Magnesium	121	mg/L	E200.7	2.94	100	10.00	112	88.8	70 - 130	123	1.85	20	
Sodium	279	mg/L	E200.7	3.30	100	10.00	272	72.0	70 - 130	283	1.38	20	
Lab Sample ID: 1411097-001EMSD		Date Analyzed:	11/10/2014 1350h										
Test Code: 200.7-DIS		Date Prepared:	11/07/2014 1132h										
Potassium	19.3	mg/L	E200.7	0.247	1.00	10.00	9.43	98.8	70 - 130	19.3	0.0127	20	
Vanadium	0.184	mg/L	E200.7	0.00116	0.00500	0.2000	0	91.9	70 - 130	0.185	0.857	20	
Lab Sample ID: 1411097-001EMSD		Date Analyzed:	11/17/2014 2141h										
Test Code: 200.8-DIS		Date Prepared:	11/07/2014 1132h										
Arsenic	0.197	mg/L	E200.8	0.0000920	0.00500	0.2000	0.0002	98.3	75 - 125	0.199	1.06	20	
Beryllium	0.198	mg/L	E200.8	0.0000288	0.00200	0.2000	0	99.1	75 - 125	0.2	0.774	20	
Cadmium	0.182	mg/L	E200.8	0.000193	0.000500	0.2000	0.00157	90.2	75 - 125	0.185	1.80	20	
Chromium	0.187	mg/L	E200.8	0.00154	0.0250	0.2000	0	93.7	75 - 125	0.184	1.80	20	
Cobalt	0.194	mg/L	E200.8	0.0000434	0.0100	0.2000	0.00857	92.8	75 - 125	0.193	0.731	20	
Copper	0.187	mg/L	E200.8	0.000692	0.0100	0.2000	0	93.7	75 - 125	0.184	1.76	20	
Lead	0.181	mg/L	E200.8	0.000264	0.00400	0.2000	0.000299	90.2	75 - 125	0.182	0.559	20	
Manganese	1.67	mg/L	E200.8	0.00153	0.0100	0.2000	1.52	75.6	75 - 125	1.67	0.382	20	
Molybdenum	0.207	mg/L	E200.8	0.000206	0.0100	0.2000	0.0119	97.5	75 - 125	0.209	1.26	20	
Nickel	0.190	mg/L	E200.8	0.000754	0.0200	0.2000	0.00488	92.5	75 - 125	0.188	0.952	20	
Selenium	0.183	mg/L	E200.8	0.0000634	0.00500	0.2000	0.000178	91.7	75 - 125	0.184	0.470	20	
Silver	0.134	mg/L	E200.8	0.0000244	0.0100	0.2000	0.0001	66.7	75 - 125	0.152	12.6	20	1
Thallium	0.175	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000767	87.2	75 - 125	0.177	0.753	20	
Tin	0.971	mg/L	E200.8	0.000348	0.100	1.000	0.000823	97.1	75 - 125	0.984	1.26	20	
Uranium	0.195	mg/L	E200.8	0.0000112	0.00300	0.2000	0.00604	94.4	75 - 125	0.197	0.922	20	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: 1411097-002EMSD	Date Analyzed:		12/12/2014 2001h										
Test Code:	Date Prepared:		200.8-DIS 12/10/2014 1103h										
Iron	0.972	mg/L	E200.8	0.0118	0.100	1.000	0	97.2	75 - 125	0.98	0.843	20	
Zinc	0.983	mg/L	E200.8	0.00476	0.00500	1.000	0	98.3	75 - 125	0.986	0.339	20	
Lab Sample ID: 1411223-002EMSD	Date Analyzed:		12/12/2014 2033h										
Test Code:	Date Prepared:		200.8-DIS 12/10/2014 1103h										
Iron	0.975	mg/L	E200.8	0.0118	0.100	1.000	0.0386	93.7	75 - 125	0.971	0.469	20	
Zinc	0.982	mg/L	E200.8	0.00476	0.00500	1.000	0	98.2	75 - 125	0.995	1.37	20	
Lab Sample ID: 1411097-001EMSD	Date Analyzed:		11/11/2014 947h										
Test Code:	Date Prepared:		HG-DW-DIS-245.1 11/10/2014 1445h										
Mercury	0.00352	mg/L	E245.1	0.00000519	0.000150	0.003330	0	106	85 - 115	0.00342	2.88	20	

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

² - 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: 1411097
Project: 4th 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
Lab Sample ID: 1411097-001CDUP		Date Analyzed: 11/07/2014 1230h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	2,930	mg/L	SM2540C	12.3	20.0					2670	9.43	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: 1411097
Project: 4th 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
Lab Sample ID: LCS-R72891		Date Analyzed: 11/10/2014 1808h											
Test Code: 300.0-W													
Chloride	5.13	mg/L	E300.0	0.00751	0.100	5.000	0	103	90 - 110				
Sulfate	5.29	mg/L	E300.0	0.0211	0.750	5.000	0	106	90 - 110				
Lab Sample ID: LCS-R72895		Date Analyzed: 11/11/2014 1458h											
Test Code: 300.0-W													
Fluoride	4.77	mg/L	E300.0	0.00681	0.100	5.000	0	95.3	90 - 110				
Lab Sample ID: LCS-R72812		Date Analyzed: 11/10/2014 852h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	50,200	mg/L	SM2320B	0.504	1.00	50,000	0	100	90 - 110				
Lab Sample ID: LCS-R72901		Date Analyzed: 11/11/2014 1126h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00833	0.0100	1.000	0	106	90 - 110				
Lab Sample ID: LCS-R72848		Date Analyzed: 11/07/2014 1230h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	210	mg/L	SM2540C	6.13	10.0	205.0	0	102	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: MB-R72891		Date Analyzed: 11/10/2014 1751h											
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
Lab Sample ID: MB-R72895		Date Analyzed: 11/11/2014 1441h											
Test Code: 300.0-W													
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Lab Sample ID: MB-R72812		Date Analyzed: 11/10/2014 852h											
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Lab Sample ID: MB-R72901		Date Analyzed: 11/11/2014 1123h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R72848		Date Analyzed: 11/07/2014 1230h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: 1411097-001BMS		Date Analyzed: 11/10/2014 1859h											
Test Code: 300.0-W													
Chloride	5,190	mg/L	E300.0	7.51	100	5,000	0	104	90 - 110				
Sulfate	6,870	mg/L	E300.0	21.1	750	5,000	1750	102	90 - 110				
Lab Sample ID: 1411097-001BMS		Date Analyzed: 11/11/2014 1531h											
Test Code: 300.0-W													
Fluoride	5.08	mg/L	E300.0	0.00681	0.100	5.000	0.237	96.8	90 - 110				
Lab Sample ID: 1411097-001BMS		Date Analyzed: 11/10/2014 852h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	2,880	mg/L	SM2320B	0.504	1.00	2,500	366	100	80 - 120				
Lab Sample ID: 1411097-001DMS		Date Analyzed: 11/11/2014 1131h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.03	mg/L	E353.2	0.00833	0.0100	1.000	0	103	90 - 110				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: 1411097-001BMSD		Date Analyzed: 11/10/2014 1916h											
Test Code: 300.0-W													
Chloride	5,200	mg/L	E300.0	7.51	100	5,000	0	104	90 - 110	5190	0.282	20	
Sulfate	7,100	mg/L	E300.0	21.1	750	5,000	1750	107	90 - 110	6870	3.32	20	
Lab Sample ID: 1411097-001BMSD		Date Analyzed: 11/11/2014 1548h											
Test Code: 300.0-W													
Fluoride	5.11	mg/L	E300.0	0.00681	0.100	5.000	0.237	97.4	90 - 110	5.08	0.543	20	
Lab Sample ID: 1411097-001BMSD		Date Analyzed: 11/10/2014 852h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,890	mg/L	SM2320B	0.504	1.00	2,500	366	101	80 - 120	2880	0.299	10	
Lab Sample ID: 1411097-001DMSD		Date Analyzed: 11/11/2014 1132h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00833	0.0100	1.000	0	104	90 - 110	1.03	0.965	10	



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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: LCS VOC-3 111014A	Date Analyzed: 11/10/2014 817h												
Test Code: 8260-W													
Benzene	21.1	µg/L	SW8260C	0.270	2.00	20.00	0	105	62 - 127				
Chloroform	21.2	µg/L	SW8260C	0.153	2.00	20.00	0	106	67 - 132				
Methylene chloride	19.5	µg/L	SW8260C	0.172	2.00	20.00	0	97.3	32 - 185				
Naphthalene	21.1	µg/L	SW8260C	0.587	2.00	20.00	0	105	28 - 136				
Tetrahydrofuran	20.3	µg/L	SW8260C	0.516	2.00	20.00	0	101	43 - 146				
Toluene	21.5	µg/L	SW8260C	0.183	2.00	20.00	0	108	64 - 129				
Xylenes, Total	66.1	µg/L	SW8260C	0.857	2.00	60.00	0	110	52 - 134				
Surr: 1,2-Dichloroethane-d4	54.9	µg/L	SW8260C			50.00		110	76 - 138				
Surr: 4-Bromofluorobenzene	52.2	µg/L	SW8260C			50.00		104	77 - 121				
Surr: Dibromofluoromethane	53.5	µg/L	SW8260C			50.00		107	67 - 128				
Surr: Toluene-d8	51.4	µg/L	SW8260C			50.00		103	81 - 135				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: MB VOC-3 111014A		Date Analyzed: 11/10/2014 856h											
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	4.11	10.0								
Acetone	< 10.0	µg/L	SW8260C	1.70	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	56.9	µg/L	SW8260C			50.00		114	76 - 138				
Surr: 4-Bromofluorobenzene	52.5	µg/L	SW8260C			50.00		105	77 - 121				
Surr: Dibromofluoromethane	53.2	µg/L	SW8260C			50.00		106	67 - 128				
Surr: Toluene-d8	51.0	µg/L	SW8260C			50.00		102	81 - 135				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: 1411097-001AMS		Date Analyzed: 11/10/2014 1034h											
Test Code: 8260-W													
Benzene	22.6	µg/L	SW8260C	0.270	2.00	20.00	0	113	66 - 145				
Chloroform	22.7	µg/L	SW8260C	0.153	2.00	20.00	0	113	50 - 146				
Methylene chloride	20.3	µg/L	SW8260C	0.172	2.00	20.00	0	101	30 - 192				
Naphthalene	21.0	µg/L	SW8260C	0.587	2.00	20.00	0	105	41 - 131				
Tetrahydrofuran	23.8	µg/L	SW8260C	0.516	2.00	20.00	0	119	43 - 146				
Toluene	22.4	µg/L	SW8260C	0.183	2.00	20.00	0	112	18 - 192				
Xylenes, Total	68.7	µg/L	SW8260C	0.857	2.00	60.00	0	115	42 - 167				
Surr: 1,2-Dichloroethane-d4	55.1	µg/L	SW8260C			50.00		110	72 - 151				
Surr: 4-Bromofluorobenzene	52.5	µg/L	SW8260C			50.00		105	80 - 128				
Surr: Dibromofluoromethane	53.6	µg/L	SW8260C			50.00		107	80 - 124				
Surr: Toluene-d8	50.8	µg/L	SW8260C			50.00		102	77 - 129				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411097
Project: 4th 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
Lab Sample ID: 1411097-001AMSD	Date Analyzed: 11/10/2014 1053h												
Test Code: 8260-W													
Benzene	22.5	µg/L	SW8260C	0.270	2.00	20.00	0	112	66 - 145	22.6	0.665	25	
Chloroform	22.6	µg/L	SW8260C	0.153	2.00	20.00	0	113	50 - 146	22.7	0.265	25	
Methylene chloride	20.2	µg/L	SW8260C	0.172	2.00	20.00	0	101	30 - 192	20.3	0.495	25	
Naphthalene	20.6	µg/L	SW8260C	0.587	2.00	20.00	0	103	41 - 131	21	2.11	25	
Tetrahydrofuran	24.8	µg/L	SW8260C	0.516	2.00	20.00	0	124	43 - 146	23.8	3.87	25	
Toluene	22.4	µg/L	SW8260C	0.183	2.00	20.00	0	112	18 - 192	22.4	0.0894	25	
Xylenes, Total	68.7	µg/L	SW8260C	0.857	2.00	60.00	0	115	42 - 167	68.7	0.0146	25	
Surr: 1,2-Dichloroethane-d4	57.1	µg/L	SW8260C			50.00		114	72 - 151				
Surr: 4-Bromofluorobenzene	54.0	µg/L	SW8260C			50.00		108	80 - 128				
Surr: Dibromofluoromethane	54.4	µg/L	SW8260C			50.00		109	80 - 124				
Surr: Toluene-d8	52.1	µg/L	SW8260C			50.00		104	77 - 129				

NH3 sent to Chemtech due to instrumentation not working. -DB

WORK ORDER Summary

Work Order: **1411097** Page 1 of 4

Client: Energy Fuels Resources, Inc. **Due Date:** 11/18/2014
Client ID: DEN100 **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014 **QC Level:** III **WO Type:** Project
Comments: PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Run Fe by 200.8 for necessary reporting limits. 11-19-14 - NH3 sent to Chemtech due to instrumentation not working;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411097-001A	MW-25_11042014	11/4/2014 1225h	11/7/2014 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge 3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411097-001B				300.0-W		<input checked="" type="checkbox"/>	df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			
				<i>2 SEL Analytes: ALKB ALKC</i>			
1411097-001C				TDS-W-2540C		<input checked="" type="checkbox"/>	ww - tds
				<i>1 SEL Analytes: TDS</i>			
1411097-001D				NO2/NO3-W-353.2		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
1411097-001E				200.7-DIS		<input checked="" type="checkbox"/>	df-mct
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			
				<input checked="" type="checkbox"/>			
				200.8-DIS			
				<input checked="" type="checkbox"/>			
				<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"/>			
				HG-DW-DIS-245.1			
				<input checked="" type="checkbox"/>			
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			
				<input checked="" type="checkbox"/>			
				IONBALANCE			
				<input checked="" type="checkbox"/>			
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411097-001F				OUTSIDE LAB		<input type="checkbox"/>	Chemtech-Ford
1411097-002A	MW-27_11052014	11/5/2014 1135h	11/7/2014 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge 3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411097-002B				300.0-W		<input checked="" type="checkbox"/>	df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			

WORK ORDER Summary

Work Order: **1411097** Page 2 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 11/18/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
1411097-002B	MW-27_11052014	11/5/2014 1135h	11/7/2014 1000h	ALK-W-2320B-LL	Aqueous	<input checked="" type="checkbox"/>	df - wc		
1411097-002C				TDS-W-2540C				<input checked="" type="checkbox"/>	ww - tds
1411097-002D				NO2/NO3-W-353.2				<input checked="" type="checkbox"/>	df - no2/no3 & nh3
1411097-002E				200.7-DIS				<input checked="" type="checkbox"/>	df-met
				200.7-DIS-PR				<input checked="" type="checkbox"/>	df-met
				200.8-DIS				<input checked="" type="checkbox"/>	df-met
				200.8-DIS-PR				<input checked="" type="checkbox"/>	df-met
	HG-DW-DIS-245.1				<input checked="" type="checkbox"/>	df-met			
	HG-DW-DIS-PR				<input checked="" type="checkbox"/>	df-met			
	IONBALANCE				<input checked="" type="checkbox"/>	df-met			
	OUTSIDE LAB				<input type="checkbox"/>	Chemtech-Ford			
1411097-002F									
1411097-003A	MW-28_11052014	11/5/2014 1545h	11/7/2014 1000h	8260-W	Aqueous	<input checked="" type="checkbox"/>	VOCFridge		
1411097-003B				300.0-W				<input checked="" type="checkbox"/>	df - wc
				ALK-W-2320B-LL				<input checked="" type="checkbox"/>	df - wc
1411097-003C				TDS-W-2540C				<input checked="" type="checkbox"/>	ww - tds
1411097-003D				NO2/NO3-W-353.2				<input checked="" type="checkbox"/>	df - no2/no3 & nh3
1411097-003E				200.7-DIS				<input checked="" type="checkbox"/>	df-met
				200.7-DIS-PR				<input checked="" type="checkbox"/>	df-met
	200.8-DIS				<input checked="" type="checkbox"/>	df-met			
	200.8-DIS-PR				<input checked="" type="checkbox"/>	df-met			
	HG-DW-DIS-245.1				<input checked="" type="checkbox"/>	df-met			
	HG-DW-DIS-PR				<input checked="" type="checkbox"/>	df-met			

WORK ORDER Summary

Work Order: **1411097** Page 3 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 11/18/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411097-003E	MW-28_11052014	11/5/2014 1545h	11/7/2014 1000h	IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>	Aqueous	<input checked="" type="checkbox"/>	df-mct
1411097-003F				OUTSIDE LAB		<input type="checkbox"/>	Chemtech-Ford
1411097-004A	MW-31_11042014	11/4/2014 1400h	11/7/2014 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge
1411097-004B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc
1411097-004C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds
1411097-004D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
1411097-004E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-mct
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-mct
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>		<input checked="" type="checkbox"/>	df-mct
				200.8-DIS-PR		<input checked="" type="checkbox"/>	df-mct
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>		<input checked="" type="checkbox"/>	df-mct
				HG-DW-DIS-PR		<input checked="" type="checkbox"/>	df-mct
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>		<input checked="" type="checkbox"/>	df-mct
1411097-004F				OUTSIDE LAB		<input type="checkbox"/>	Chemtech-Ford
1411097-005A	MW-32_11052014	11/5/2014 1300h	11/7/2014 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	VOCFridge
1411097-005B				300.0-W <i>3 SEL Analytes: CL F SO4</i>		<input checked="" type="checkbox"/>	df - wc
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>		<input checked="" type="checkbox"/>	df - wc
1411097-005C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>		<input checked="" type="checkbox"/>	ww - tds
1411097-005D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>		<input checked="" type="checkbox"/>	df - no2/no3 & nh3
1411097-005E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>		<input checked="" type="checkbox"/>	df-mct
				200.7-DIS-PR		<input checked="" type="checkbox"/>	df-mct

WORK ORDER Summary

Work Order: **1411097** Page 4 of 4

Client: Energy Fuels Resources, Inc.

Due Date: 11/18/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411097-005E	MW-32_11052014	11/5/2014 1300h	11/7/2014 1000h	200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>	Aqueous	<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
1411097-005F				OUTSIDE LAB		<input type="checkbox"/>	Chemtch-Ford
1411097-006A	Trip	11/4/2014	11/7/2014 1000h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous	<input checked="" type="checkbox"/>	3



**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.

1411097

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: **4th Quarter Groundwater 2014**
 Project #: _____
 PO #: _____
 Sampler Name: **Garrin Palmer**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:								
3		Standard												
Sample ID	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	FI, CI, 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, Ti, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
1 MW-25_11042014	11/4/2014	1225	7	W	X	X	X	X	X	X	X	X	X	
2 MW-27_11052014	11/5/2014	1135	7	W	X	X	X	X	X	X	X	X	X	
3 MW-28_11052014	11/5/2014	1545	7	W	X	X	X	X	X	X	X	X	X	
4 MW-31_11042014	11/4/2014	1400	7	W	X	X	X	X	X	X	X	X	X	
5 MW-32_11052014	11/5/2014	1300	7	W	X	X	X	X	X	X	X	X	X	
6 Trip Blank	11/4/2014		3	W									X	
7 Temp Blank			1	W										
8														
9														
10														
11														
12														

X Include EDD:
LOCUS UPLOAD
EXCEL
 X Field Filtered For:
Dissolved Metals

For Compliance With:
 NELAP
 RCRA
 CWA
 SDWA
 ELAP / A2LA
 NLLAP
 Non-Compliance
 Other:

Laboratory Use Only

Samples Were:

- 1 Shipped on hand delivered
- 2 Ambient or Chilled
- 3 Temperature 1.7 °C
- 4 Received Broken/Leaking (Improperly Sealed)
- 5 Properly Preserved
- 6 Received Within Holding Times

Checked at bench Y N

COC Tape Was:

- 1 Present on Outer Package Y N NA
- 2 Unbroken on Outer Package Y N NA
- 3 Present on Sample Y N NA
- 4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

Relinquished by: Signature <i>Garrin Palmer</i>	Date: 11/6/14	Received by: Signature <i>Denise Braun</i>	Date: 11/7/14
Print Name: Garrin Palmer	Time: 1200	Print Name: Denise Braun	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.

NH3 sent to Chemtech due to instrumentation not working -DB 11/19/14

DB 11/7/14



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

RE: 4th Quarter Groundwater 2014

Dear Garrin Palmer:

Lab Set ID: 1411223

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received 14 sample(s) on 11/14/2014 for the analyses presented in the following report.

Phone: (801) 263-8686
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Fax: (801) 263-8687
e-mail: awal@awal-labs.com
web: 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:

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha,
o=American West Analytical
Laboratories, ou,
email=jose@awal-labs.com,
c=US
Date: 2014.12.29 10:29:40
-07'00'

Jose G.
Rocha

Laboratory Director or designee

Sample(s) were subcontracted for the following analyses:

Ammonia



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411223
Date Received: 11/14/2014 1020h

Contact: Garrin Palmer

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411223-001A	MW-03A_11132014	11/13/2014 615h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-001B	MW-03A_11132014	11/13/2014 615h	Aqueous	Anions, E300.0
1411223-001B	MW-03A_11132014	11/13/2014 615h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-001C	MW-03A_11132014	11/13/2014 615h	Aqueous	Total Dissolved Solids, A2540C
1411223-001D	MW-03A_11132014	11/13/2014 615h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-001E	MW-03A_11132014	11/13/2014 615h	Aqueous	ICPMS Metals, Dissolved
1411223-001E	MW-03A_11132014	11/13/2014 615h	Aqueous	Mercury, Drinking Water Dissolved
1411223-001E	MW-03A_11132014	11/13/2014 615h	Aqueous	ICP Metals, Dissolved
1411223-001E	MW-03A_11132014	11/13/2014 615h	Aqueous	Ion Balance
1411223-001F	MW-03A_11132014	11/13/2014 615h	Aqueous	Analysis subcontracted to outside laboratory
1411223-002A	MW-05_11112014	11/11/2014 1000h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-002B	MW-05_11112014	11/11/2014 1000h	Aqueous	Anions, E300.0
1411223-002B	MW-05_11112014	11/11/2014 1000h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-002C	MW-05_11112014	11/11/2014 1000h	Aqueous	Total Dissolved Solids, A2540C
1411223-002D	MW-05_11112014	11/11/2014 1000h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-002E	MW-05_11112014	11/11/2014 1000h	Aqueous	Ion Balance
1411223-002E	MW-05_11112014	11/11/2014 1000h	Aqueous	Mercury, Drinking Water Dissolved
1411223-002E	MW-05_11112014	11/11/2014 1000h	Aqueous	ICP Metals, Dissolved
1411223-002E	MW-05_11112014	11/11/2014 1000h	Aqueous	ICPMS Metals, Dissolved
1411223-002F	MW-05_11112014	11/11/2014 1000h	Aqueous	Analysis subcontracted to outside laboratory
1411223-003A	MW-12_11112014	11/11/2014 1300h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-003B	MW-12_11112014	11/11/2014 1300h	Aqueous	Anions, E300.0
1411223-003B	MW-12_11112014	11/11/2014 1300h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-003C	MW-12_11112014	11/11/2014 1300h	Aqueous	Total Dissolved Solids, A2540C
1411223-003D	MW-12_11112014	11/11/2014 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-003E	MW-12_11112014	11/11/2014 1300h	Aqueous	Ion Balance
1411223-003E	MW-12_11112014	11/11/2014 1300h	Aqueous	ICP Metals, Dissolved
1411223-003E	MW-12_11112014	11/11/2014 1300h	Aqueous	ICPMS Metals, Dissolved



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411223
Date Received: 11/14/2014 1020h

Contact: Garrin Palmer

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Salt Lake City, UT 84119

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411223-003E	MW-12_11112014	11/11/2014 1300h	Aqueous	Mercury, Drinking Water Dissolved
1411223-003F	MW-12_11112014	11/11/2014 1300h	Aqueous	Analysis subcontracted to outside laboratory
1411223-004A	MW-14_11122014	11/12/2014 1255h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-004B	MW-14_11122014	11/12/2014 1255h	Aqueous	Anions, E300.0
1411223-004B	MW-14_11122014	11/12/2014 1255h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-004C	MW-14_11122014	11/12/2014 1255h	Aqueous	Total Dissolved Solids, A2540C
1411223-004D	MW-14_11122014	11/12/2014 1255h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-004E	MW-14_11122014	11/12/2014 1255h	Aqueous	Ion Balance
1411223-004E	MW-14_11122014	11/12/2014 1255h	Aqueous	ICP Metals, Dissolved
1411223-004E	MW-14_11122014	11/12/2014 1255h	Aqueous	ICPMS Metals, Dissolved
1411223-004E	MW-14_11122014	11/12/2014 1255h	Aqueous	Mercury, Drinking Water Dissolved
1411223-004F	MW-14_11122014	11/12/2014 1255h	Aqueous	Analysis subcontracted to outside laboratory
1411223-005A	MW-15_11122014	11/12/2014 1555h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-005B	MW-15_11122014	11/12/2014 1555h	Aqueous	Anions, E300.0
1411223-005B	MW-15_11122014	11/12/2014 1555h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-005C	MW-15_11122014	11/12/2014 1555h	Aqueous	Total Dissolved Solids, A2540C
1411223-005D	MW-15_11122014	11/12/2014 1555h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-005E	MW-15_11122014	11/12/2014 1555h	Aqueous	ICPMS Metals, Dissolved
1411223-005E	MW-15_11122014	11/12/2014 1555h	Aqueous	Mercury, Drinking Water Dissolved
1411223-005E	MW-15_11122014	11/12/2014 1555h	Aqueous	Ion Balance
1411223-005E	MW-15_11122014	11/12/2014 1555h	Aqueous	ICP Metals, Dissolved
1411223-005F	MW-15_11122014	11/12/2014 1555h	Aqueous	Analysis subcontracted to outside laboratory
1411223-006A	MW-17_11122014	11/12/2014 1110h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-006B	MW-17_11122014	11/12/2014 1110h	Aqueous	Anions, E300.0
1411223-006B	MW-17_11122014	11/12/2014 1110h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-006C	MW-17_11122014	11/12/2014 1110h	Aqueous	Total Dissolved Solids, A2540C
1411223-006D	MW-17_11122014	11/12/2014 1110h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-006E	MW-17_11122014	11/12/2014 1110h	Aqueous	Ion Balance



Client: Energy Fuels Resources, Inc.
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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411223-006E	MW-17_11122014	11/12/2014 1110h	Aqueous	Mercury, Drinking Water Dissolved
1411223-006E	MW-17_11122014	11/12/2014 1110h	Aqueous	ICP Metals, Dissolved
1411223-006E	MW-17_11122014	11/12/2014 1110h	Aqueous	ICPMS Metals, Dissolved
1411223-006F	MW-17_11122014	11/12/2014 1110h	Aqueous	Analysis subcontracted to outside laboratory
1411223-007A	MW-18_11102014	11/10/2014 1330h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-007B	MW-18_11102014	11/10/2014 1330h	Aqueous	Anions, E300.0
1411223-007B	MW-18_11102014	11/10/2014 1330h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-007C	MW-18_11102014	11/10/2014 1330h	Aqueous	Total Dissolved Solids, A2540C
1411223-007D	MW-18_11102014	11/10/2014 1330h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-007E	MW-18_11102014	11/10/2014 1330h	Aqueous	Ion Balance
1411223-007E	MW-18_11102014	11/10/2014 1330h	Aqueous	ICPMS Metals, Dissolved
1411223-007E	MW-18_11102014	11/10/2014 1330h	Aqueous	Mercury, Drinking Water Dissolved
1411223-007E	MW-18_11102014	11/10/2014 1330h	Aqueous	ICP Metals, Dissolved
1411223-007F	MW-18_11102014	11/10/2014 1330h	Aqueous	Analysis subcontracted to outside laboratory
1411223-008A	MW-19_11112014	11/11/2014 1520h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-008B	MW-19_11112014	11/11/2014 1520h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-008B	MW-19_11112014	11/11/2014 1520h	Aqueous	Anions, E300.0
1411223-008C	MW-19_11112014	11/11/2014 1520h	Aqueous	Total Dissolved Solids, A2540C
1411223-008D	MW-19_11112014	11/11/2014 1520h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-008E	MW-19_11112014	11/11/2014 1520h	Aqueous	Ion Balance
1411223-008E	MW-19_11112014	11/11/2014 1520h	Aqueous	ICP Metals, Dissolved
1411223-008E	MW-19_11112014	11/11/2014 1520h	Aqueous	ICPMS Metals, Dissolved
1411223-008E	MW-19_11112014	11/11/2014 1520h	Aqueous	Mercury, Drinking Water Dissolved
1411223-008F	MW-19_11112014	11/11/2014 1520h	Aqueous	Analysis subcontracted to outside laboratory
1411223-009A	MW-29_11102014	11/10/2014 1530h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-009B	MW-29_11102014	11/10/2014 1530h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-009B	MW-29_11102014	11/10/2014 1530h	Aqueous	Anions, E300.0
1411223-009C	MW-29_11102014	11/10/2014 1530h	Aqueous	Total Dissolved Solids, A2540C
1411223-009D	MW-29_11102014	11/10/2014 1530h	Aqueous	Nitrite/Nitrate (as N), E353.2



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411223
Date Received: 11/14/2014 1020h

Contact: Garrin Palmer

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web: www.awal-labs.com

Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411223-009E	MW-29_11102014	11/10/2014 1530h	Aqueous	Mercury, Drinking Water Dissolved
1411223-009E	MW-29_11102014	11/10/2014 1530h	Aqueous	Ion Balance
1411223-009E	MW-29_11102014	11/10/2014 1530h	Aqueous	ICP Metals, Dissolved
1411223-009E	MW-29_11102014	11/10/2014 1530h	Aqueous	ICPMS Metals, Dissolved
1411223-009F	MW-29_11102014	11/10/2014 1530h	Aqueous	Analysis subcontracted to outside laboratory
1411223-010A	MW-30_11102014	11/10/2014 1100h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-010B	MW-30_11102014	11/10/2014 1100h	Aqueous	Anions, E300.0
1411223-010B	MW-30_11102014	11/10/2014 1100h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-010C	MW-30_11102014	11/10/2014 1100h	Aqueous	Total Dissolved Solids, A2540C
1411223-010D	MW-30_11102014	11/10/2014 1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-010E	MW-30_11102014	11/10/2014 1100h	Aqueous	ICPMS Metals, Dissolved
1411223-010E	MW-30_11102014	11/10/2014 1100h	Aqueous	Mercury, Drinking Water Dissolved
1411223-010E	MW-30_11102014	11/10/2014 1100h	Aqueous	Ion Balance
1411223-010E	MW-30_11102014	11/10/2014 1100h	Aqueous	ICP Metals, Dissolved
1411223-010F	MW-30_11102014	11/10/2014 1100h	Aqueous	Analysis subcontracted to outside laboratory
1411223-011A	MW-35_11122014	11/12/2014 830h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-011B	MW-35_11122014	11/12/2014 830h	Aqueous	Anions, E300.0
1411223-011B	MW-35_11122014	11/12/2014 830h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-011C	MW-35_11122014	11/12/2014 830h	Aqueous	Total Dissolved Solids, A2540C
1411223-011D	MW-35_11122014	11/12/2014 830h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-011E	MW-35_11122014	11/12/2014 830h	Aqueous	Mercury, Drinking Water Dissolved
1411223-011E	MW-35_11122014	11/12/2014 830h	Aqueous	ICPMS Metals, Dissolved
1411223-011E	MW-35_11122014	11/12/2014 830h	Aqueous	Ion Balance
1411223-011E	MW-35_11122014	11/12/2014 830h	Aqueous	ICP Metals, Dissolved
1411223-011F	MW-35_11122014	11/12/2014 830h	Aqueous	Analysis subcontracted to outside laboratory
1411223-012A	MW-36_11122014	11/12/2014 955h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-012B	MW-36_11122014	11/12/2014 955h	Aqueous	Anions, E300.0
1411223-012B	MW-36_11122014	11/12/2014 955h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-012C	MW-36_11122014	11/12/2014 955h	Aqueous	Total Dissolved Solids, A2540C



Client: Energy Fuels Resources, Inc.
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411223
Date Received: 11/14/2014 1020h

Contact: Garrin Palmer

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1411223-012D	MW-36_11122014	11/12/2014 955h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-012E	MW-36_11122014	11/12/2014 955h	Aqueous	Ion Balance
1411223-012E	MW-36_11122014	11/12/2014 955h	Aqueous	ICP Metals, Dissolved
1411223-012E	MW-36_11122014	11/12/2014 955h	Aqueous	ICPMS Metals, Dissolved
1411223-012E	MW-36_11122014	11/12/2014 955h	Aqueous	Mercury, Drinking Water Dissolved
1411223-012F	MW-36_11122014	11/12/2014 955h	Aqueous	Analysis subcontracted to outside laboratory
1411223-013A	MW-65_11122014	11/12/2014 955h	Aqueous	VOA by GC/MS Method 8260C/5030C
1411223-013B	MW-65_11122014	11/12/2014 955h	Aqueous	Anions, E300.0
1411223-013B	MW-65_11122014	11/12/2014 955h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
1411223-013C	MW-65_11122014	11/12/2014 955h	Aqueous	Total Dissolved Solids, A2540C
1411223-013D	MW-65_11122014	11/12/2014 955h	Aqueous	Nitrite/Nitrate (as N), E353.2
1411223-013E	MW-65_11122014	11/12/2014 955h	Aqueous	Ion Balance
1411223-013E	MW-65_11122014	11/12/2014 955h	Aqueous	ICP Metals, Dissolved
1411223-013E	MW-65_11122014	11/12/2014 955h	Aqueous	ICPMS Metals, Dissolved
1411223-013E	MW-65_11122014	11/12/2014 955h	Aqueous	Mercury, Drinking Water Dissolved
1411223-013F	MW-65_11122014	11/12/2014 955h	Aqueous	Analysis subcontracted to outside laboratory
1411223-014A	Trip Blank	11/10/2014	Aqueous	VOA by GC/MS Method 8260C/5030C



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 4th Quarter Groundwater 2014
Lab Set ID: 1411223

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Sample Receipt Information:

Date of Receipt: 11/14/2014
Date(s) of Collection: 11/10- 11/13/2014
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
1411223-001E	Calcium	MS/MSD	High analyte concentration
1411223-001E	Magnesium	MS/MSD	High analyte concentration
1411223-001E	Sodium	MS/MSD	High analyte concentration
1411223-003B	Chloride	MS/MSD	Sample matrix interference
1411223-013E	Calcium	MS/MSD	High analyte concentration
1411223-013E	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: 4th Quarter Groundwater 2014
Lab Set ID: 1411223

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 11/14/2014
Date(s) of Collection: 11/10- 11/13/2014
Sample Condition: Intact
C-O-C Discrepancies: None
Method: SW-846 8260C/5030C
Analysis: Volatile Organic Compounds

General Set Comments: One analyte was 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: 1411223
Project: 4th 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
Lab Sample ID: LCS-34302													
Date Analyzed: 11/21/2014 1105h													
Test Code: 200.7-DIS													
Date Prepared: 11/17/2014 1223h													
Calcium	9.15	mg/L	E200.7	0.0401	1.00	10.00	0	91.5	85 - 115				
Magnesium	9.83	mg/L	E200.7	0.0294	1.00	10.00	0	98.3	85 - 115				
Potassium	9.56	mg/L	E200.7	0.247	1.00	10.00	0	95.6	85 - 115				
Sodium	9.96	mg/L	E200.7	0.0330	1.00	10.00	0	99.6	85 - 115				
Vanadium	0.187	mg/L	E200.7	0.00116	0.00500	0.2000	0	93.3	85 - 115				
Lab Sample ID: LCS-34689													
Date Analyzed: 12/12/2014 1928h													
Test Code: 200.8-DIS													
Date Prepared: 12/10/2014 1103h													
Arsenic	0.200	mg/L	E200.8	0.0000920	0.00200	0.2000	0	99.9	85 - 115				
Beryllium	0.202	mg/L	E200.8	0.0000288	0.00200	0.2000	0	101	85 - 115				
Cadmium	0.192	mg/L	E200.8	0.000193	0.000500	0.2000	0	96.2	85 - 115				
Chromium	0.197	mg/L	E200.8	0.00154	0.00200	0.2000	0	98.5	85 - 115				
Cobalt	0.197	mg/L	E200.8	0.0000434	0.00400	0.2000	0	98.5	85 - 115				
Copper	0.202	mg/L	E200.8	0.000692	0.00200	0.2000	0	101	85 - 115				
Iron	0.998	mg/L	E200.8	0.0118	0.100	1.000	0	99.8	85 - 115				
Lead	0.196	mg/L	E200.8	0.000264	0.00200	0.2000	0	98.2	85 - 115				
Manganese	0.196	mg/L	E200.8	0.00153	0.00200	0.2000	0	98.1	85 - 115				
Molybdenum	0.197	mg/L	E200.8	0.000206	0.00200	0.2000	0	98.6	85 - 115				
Nickel	0.195	mg/L	E200.8	0.000754	0.00200	0.2000	0	97.7	85 - 115				
Selenium	0.192	mg/L	E200.8	0.0000634	0.00200	0.2000	0	95.9	85 - 115				
Silver	0.185	mg/L	E200.8	0.0000244	0.00200	0.2000	0	92.4	85 - 115				
Thallium	0.193	mg/L	E200.8	0.0000242	0.00200	0.2000	0	96.3	85 - 115				
Tin	1.00	mg/L	E200.8	0.000348	0.00200	1.000	0	100	85 - 115				
Uranium	0.201	mg/L	E200.8	0.0000112	0.00200	0.2000	0	100	85 - 115				
Zinc	1.00	mg/L	E200.8	0.00476	0.00500	1.000	0	100	85 - 115				
Lab Sample ID: LCS-34346													
Date Analyzed: 11/19/2014 933h													
Test Code: HG-DW-DIS-245.1													
Date Prepared: 11/18/2014 1500h													
Mercury	0.00352	mg/L	E245.1	0.00000519	0.000150	0.003330	0	106	85 - 115				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: MB-34302	Date Analyzed:	11/21/2014 1102h											
Test Code:	Date Prepared:	200.7-DIS 11/17/2014 1223h											
Calcium	< 1.00	mg/L	E200.7	0.0401	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.0294	1.00								
Potassium	< 1.00	mg/L	E200.7	0.247	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0330	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00116	0.00500								
Lab Sample ID: MB-34689	Date Analyzed:	12/12/2014 1925h											
Test Code:	Date Prepared:	200.8-DIS 12/10/2014 1103h											
Arsenic	< 0.00200	mg/L	E200.8	0.0000920	0.00200								
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Chromium	< 0.00200	mg/L	E200.8	0.00154	0.00200								
Cobalt	< 0.00400	mg/L	E200.8	0.0000434	0.00400								
Copper	< 0.00200	mg/L	E200.8	0.000692	0.00200								
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								
Molybdenum	< 0.00200	mg/L	E200.8	0.000206	0.00200								
Nickel	< 0.00200	mg/L	E200.8	0.000754	0.00200								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
Silver	< 0.00200	mg/L	E200.8	0.0000244	0.00200								
Tin	< 0.00200	mg/L	E200.8	0.000348	0.00200								
Zinc	< 0.00500	mg/L	E200.8	0.00476	0.00500								
Lab Sample ID: MB-34689	Date Analyzed:	12/12/2014 2250h											
Test Code:	Date Prepared:	200.8-DIS 12/10/2014 1103h											
Beryllium	< 0.000500	mg/L	E200.8	0.00000720	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00296	0.0250								
Lead	< 0.000500	mg/L	E200.8	0.0000660	0.000500								
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: MB-34689	Date Analyzed:	12/16/2014	1841h										
Test Code: 200.8-DIS	Date Prepared:	12/10/2014	1103h										
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
Lab Sample ID: MB-34346	Date Analyzed:	11/19/2014	931h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	11/18/2014	1500h										
Mercury	< 0.000150	mg/L	E245.1	0.00000519	0.000150								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001EMS		Date Analyzed: 11/21/2014 1113h											
Test Code: 200.7-DIS		Date Prepared: 11/17/2014 1223h											
Calcium	579	mg/L	E200.7	2.00	50.0	10.00	580	-2.73	70 - 130				*
Magnesium	390	mg/L	E200.7	1.47	50.0	10.00	385	57.3	70 - 130				*
Sodium	947	mg/L	E200.7	1.65	50.0	10.00	977	-294	70 - 130				*
Lab Sample ID: 1411223-013EMS		Date Analyzed: 11/21/2014 1148h											
Test Code: 200.7-DIS		Date Prepared: 11/17/2014 1223h											
Calcium	544	mg/L	E200.7	2.00	50.0	10.00	546	-20.0	70 - 130				*
Magnesium	181	mg/L	E200.7	1.47	50.0	10.00	173	82.6	70 - 130				*
Sodium	858	mg/L	E200.7	1.65	50.0	10.00	860	-16.3	70 - 130				*
Lab Sample ID: 1411223-001EMS		Date Analyzed: 11/21/2014 1300h											
Test Code: 200.7-DIS		Date Prepared: 11/17/2014 1223h											
Potassium	36.7	mg/L	E200.7	0.247	1.00	10.00	26.5	102	70 - 130				
Vanadium	0.189	mg/L	E200.7	0.00116	0.00500	0.2000	0	94.3	70 - 130				
Lab Sample ID: 1411223-013EMS		Date Analyzed: 11/21/2014 1333h											
Test Code: 200.7-DIS		Date Prepared: 11/17/2014 1223h											
Potassium	19.4	mg/L	E200.7	0.247	1.00	10.00	9.66	97.8	70 - 130				
Vanadium	0.190	mg/L	E200.7	0.00116	0.00500	0.2000	0	95.2	70 - 130				
Lab Sample ID: 1411097-002EMS		Date Analyzed: 12/12/2014 1957h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1103h											
Arsenic	0.203	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000229	101	75 - 125				
Beryllium	0.201	mg/L	E200.8	0.0000288	0.00200	0.2000	0	100	75 - 125				
Cadmium	0.190	mg/L	E200.8	0.000193	0.000500	0.2000	0	95.0	75 - 125				
Chromium	0.195	mg/L	E200.8	0.00154	0.00200	0.2000	0	97.3	75 - 125				
Cobalt	0.193	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000364	96.1	75 - 125				
Copper	0.195	mg/L	E200.8	0.000692	0.00200	0.2000	0	97.4	75 - 125				
Iron	0.980	mg/L	E200.8	0.0118	0.100	1.000	0	98.0	75 - 125				
Lead	0.194	mg/L	E200.8	0.000264	0.00200	0.2000	0	97.0	75 - 125				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411097-002EMS		Date Analyzed: 12/12/2014 1957h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1103h											
Manganese	0.196	mg/L	E200.8	0.00153	0.00200	0.2000	0	97.9	75 - 125				
Molybdenum	0.205	mg/L	E200.8	0.000206	0.00200	0.2000	0.00344	101	75 - 125				
Nickel	0.193	mg/L	E200.8	0.000754	0.00200	0.2000	0	96.3	75 - 125				
Selenium	0.206	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0126	96.7	75 - 125				
Silver	0.183	mg/L	E200.8	0.0000244	0.00200	0.2000	0	91.3	75 - 125				
Thallium	0.192	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000182	95.8	75 - 125				
Tin	1.02	mg/L	E200.8	0.000348	0.00200	1.000	0	102	75 - 125				
Uranium	0.227	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0259	101	75 - 125				
Zinc	0.986	mg/L	E200.8	0.00476	0.00500	1.000	0	98.6	75 - 125				
Lab Sample ID: 1411223-002EMS		Date Analyzed: 12/12/2014 2029h											
Test Code: 200.8-DIS		Date Prepared: 12/10/2014 1103h											
Arsenic	0.202	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00119	101	75 - 125				
Beryllium	0.190	mg/L	E200.8	0.0000288	0.00200	0.2000	0	95.1	75 - 125				
Cadmium	0.182	mg/L	E200.8	0.000193	0.000500	0.2000	0	91.2	75 - 125				
Chromium	0.187	mg/L	E200.8	0.00154	0.00200	0.2000	0	93.4	75 - 125				
Cobalt	0.185	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000147	92.3	75 - 125				
Copper	0.187	mg/L	E200.8	0.000692	0.00200	0.2000	0	93.4	75 - 125				
Iron	0.971	mg/L	E200.8	0.0118	0.100	1.000	0.0386	93.2	75 - 125				
Lead	0.183	mg/L	E200.8	0.000264	0.00200	0.2000	0	91.3	75 - 125				
Manganese	0.417	mg/L	E200.8	0.00153	0.00200	0.2000	0.231	92.6	75 - 125				
Molybdenum	0.200	mg/L	E200.8	0.000206	0.00200	0.2000	0.00443	97.7	75 - 125				
Nickel	0.186	mg/L	E200.8	0.000754	0.00200	0.2000	0	93.2	75 - 125				
Selenium	0.184	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000148	91.8	75 - 125				
Silver	0.174	mg/L	E200.8	0.0000244	0.00200	0.2000	0	86.8	75 - 125				
Thallium	0.178	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000031	89.2	75 - 125				
Tin	0.985	mg/L	E200.8	0.000348	0.00200	1.000	0	98.5	75 - 125				
Uranium	0.228	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0362	95.6	75 - 125				
Zinc	0.995	mg/L	E200.8	0.00476	0.00500	1.000	0	99.5	75 - 125				



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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001EMS	Date Analyzed:	11/19/2014	941h										
Test Code: HG-DW-DIS-245.1	Date Prepared:	11/18/2014	1500h										
Mercury	0.00350	mg/L	E245.1	0.00000519	0.000150	0.003330	0	105	85 - 115				

² - 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: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001EMSD													
Date Analyzed:		11/21/2014 1114h											
Test Code:		200.7-DIS											
Date Prepared:		11/17/2014 1223h											
Calcium	601	mg/L	E200.7	2.00	50.0	10.00	580	219	70 - 130	579	3.76	20	3
Magnesium	411	mg/L	E200.7	1.47	50.0	10.00	385	260	70 - 130	390	5.07	20	3
Sodium	996	mg/L	E200.7	1.65	50.0	10.00	977	198	70 - 130	947	5.07	20	3
Lab Sample ID: 1411223-013EMSD													
Date Analyzed:		11/21/2014 1156h											
Test Code:		200.7-DIS											
Date Prepared:		11/17/2014 1223h											
Calcium	550	mg/L	E200.7	2.00	50.0	10.00	546	41.7	70 - 130	544	1.13	20	3
Magnesium	180	mg/L	E200.7	1.47	50.0	10.00	173	75.1	70 - 130	181	0.416	20	3
Sodium	861	mg/L	E200.7	1.65	50.0	10.00	860	4.66	70 - 130	858	0.243	20	3
Lab Sample ID: 1411223-001EMSD													
Date Analyzed:		11/21/2014 1302h											
Test Code:		200.7-DIS											
Date Prepared:		11/17/2014 1223h											
Potassium	37.0	mg/L	E200.7	0.247	1.00	10.00	26.5	105	70 - 130	36.7	0.804	20	
Vanadium	0.190	mg/L	E200.7	0.00116	0.00500	0.2000	0	94.8	70 - 130	0.189	0.569	20	
Lab Sample ID: 1411223-013EMSD													
Date Analyzed:		11/21/2014 1335h											
Test Code:		200.7-DIS											
Date Prepared:		11/17/2014 1223h											
Potassium	20.0	mg/L	E200.7	0.247	1.00	10.00	9.66	104	70 - 130	19.4	3.01	20	
Vanadium	0.190	mg/L	E200.7	0.00116	0.00500	0.2000	0	94.9	70 - 130	0.19	0.312	20	
Lab Sample ID: 1411097-002EMSD													
Date Analyzed:		12/12/2014 2001h											
Test Code:		200.8-DIS											
Date Prepared:		12/10/2014 1103h											
Arsenic	0.205	mg/L	E200.8	0.0000920	0.00200	0.2000	0.000229	102	75 - 125	0.203	0.875	20	
Beryllium	0.198	mg/L	E200.8	0.0000288	0.00200	0.2000	0	98.9	75 - 125	0.201	1.38	20	
Cadmium	0.189	mg/L	E200.8	0.000193	0.000500	0.2000	0	94.3	75 - 125	0.19	0.709	20	
Chromium	0.194	mg/L	E200.8	0.00154	0.00200	0.2000	0	96.9	75 - 125	0.195	0.407	20	
Cobalt	0.191	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000364	95.3	75 - 125	0.193	0.819	20	
Copper	0.194	mg/L	E200.8	0.000692	0.00200	0.2000	0	97.1	75 - 125	0.195	0.406	20	
Iron	0.972	mg/L	E200.8	0.0118	0.100	1.000	0	97.2	75 - 125	0.98	0.843	20	
Lead	0.191	mg/L	E200.8	0.000264	0.00200	0.2000	0	95.3	75 - 125	0.194	1.83	20	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411097-002EMSD		Date Analyzed:	12/12/2014 2001h										
Test Code: 200.8-DIS		Date Prepared:	12/10/2014 1103h										
Manganese	0.196	mg/L	E200.8	0.00153	0.00200	0.2000	0	97.9	75 - 125	0.196	0.0118	20	
Molybdenum	0.202	mg/L	E200.8	0.000206	0.00200	0.2000	0.00344	99.5	75 - 125	0.205	1.08	20	
Nickel	0.190	mg/L	E200.8	0.000754	0.00200	0.2000	0	94.9	75 - 125	0.193	1.45	20	
Selenium	0.204	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0126	95.5	75 - 125	0.206	1.20	20	
Silver	0.180	mg/L	E200.8	0.0000244	0.00200	0.2000	0	90.1	75 - 125	0.183	1.31	20	
Thallium	0.188	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000182	94.0	75 - 125	0.192	1.88	20	
Tin	1.01	mg/L	E200.8	0.000348	0.00200	1.000	0	101	75 - 125	1.02	1.05	20	
Uranium	0.224	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0259	98.8	75 - 125	0.227	1.67	20	
Zinc	0.983	mg/L	E200.8	0.00476	0.00500	1.000	0	98.3	75 - 125	0.986	0.339	20	
Lab Sample ID: 1411223-002EMSD		Date Analyzed:	12/12/2014 2033h										
Test Code: 200.8-DIS		Date Prepared:	12/10/2014 1103h										
Arsenic	0.201	mg/L	E200.8	0.0000920	0.00200	0.2000	0.00119	99.7	75 - 125	0.202	0.919	20	
Beryllium	0.191	mg/L	E200.8	0.0000288	0.00200	0.2000	0	95.3	75 - 125	0.19	0.246	20	
Cadmium	0.183	mg/L	E200.8	0.000193	0.000500	0.2000	0	91.3	75 - 125	0.182	0.0965	20	
Chromium	0.187	mg/L	E200.8	0.00154	0.00200	0.2000	0	93.7	75 - 125	0.187	0.295	20	
Cobalt	0.187	mg/L	E200.8	0.0000434	0.00400	0.2000	0.000147	93.2	75 - 125	0.185	0.949	20	
Copper	0.189	mg/L	E200.8	0.000692	0.00200	0.2000	0	94.5	75 - 125	0.187	1.18	20	
Iron	0.975	mg/L	E200.8	0.0118	0.100	1.000	0.0386	93.7	75 - 125	0.971	0.469	20	
Lead	0.185	mg/L	E200.8	0.000264	0.00200	0.2000	0	92.3	75 - 125	0.183	1.11	20	
Manganese	0.413	mg/L	E200.8	0.00153	0.00200	0.2000	0.231	90.8	75 - 125	0.417	0.903	20	
Molybdenum	0.199	mg/L	E200.8	0.000206	0.00200	0.2000	0.00443	97.4	75 - 125	0.2	0.251	20	
Nickel	0.186	mg/L	E200.8	0.000754	0.00200	0.2000	0	93.2	75 - 125	0.186	0.0764	20	
Selenium	0.185	mg/L	E200.8	0.0000634	0.00200	0.2000	0.000148	92.2	75 - 125	0.184	0.459	20	
Silver	0.174	mg/L	E200.8	0.0000244	0.00200	0.2000	0	87.1	75 - 125	0.174	0.292	20	
Thallium	0.180	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000031	90.1	75 - 125	0.178	0.949	20	
Tin	0.981	mg/L	E200.8	0.000348	0.00200	1.000	0	98.1	75 - 125	0.985	0.335	20	
Uranium	0.231	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0362	97.1	75 - 125	0.228	1.31	20	
Zinc	0.982	mg/L	E200.8	0.00476	0.00500	1.000	0	98.2	75 - 125	0.995	1.37	20	

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001EMSD	Date Analyzed:	11/19/2014 943h											
Test Code: HG-DW-DIS-245.1	Date Prepared:	11/18/2014 1500h											
Mercury	0.00353	mg/L	E245.1	0.00000519	0.000150	0.003330	0	106	85 - 115	0.0035	0.855	20	

² - 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: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001CDUP		Date Analyzed: 11/14/2014 1400h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	5,640	mg/L	SM2540C	12.3	20.0					5370	4.94	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: LCS-R73131		Date Analyzed: 11/17/2014 1607h											
Test Code: 300.0-W													
Chloride	4.89	mg/L	E300.0	0.00751	0.100	5.000	0	97.8	90 - 110				
Sulfate	4.66	mg/L	E300.0	0.0211	0.750	5.000	0	93.1	90 - 110				
Lab Sample ID: LCS-R73157		Date Analyzed: 11/18/2014 1731h											
Test Code: 300.0-W													
Chloride	5.07	mg/L	E300.0	0.00751	0.100	5.000	0	101	90 - 110				
Fluoride	5.03	mg/L	E300.0	0.00681	0.100	5.000	0	101	90 - 110				
Lab Sample ID: LCS-R73048		Date Analyzed: 11/17/2014 717h											
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	50,100	mg/L	SM2320B	0.504	1.00	50,000	0	100	90 - 110				
Lab Sample ID: LCS-R73212		Date Analyzed: 11/20/2014 1328h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.958	mg/L	E353.2	0.00833	0.0100	1.000	0	95.8	90 - 110				
Lab Sample ID: LCS-R73091		Date Analyzed: 11/14/2014 1400h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	196	mg/L	SM2540C	6.13	10.0	205.0	0	95.6	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: MB-R73131 Date Analyzed: 11/17/2014 1550h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
Lab Sample ID: MB-R73157 Date Analyzed: 11/18/2014 1714h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.00681	0.100								
Lab Sample ID: MB-R73048 Date Analyzed: 11/17/2014 717h													
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.504	1.00								
Lab Sample ID: MB-R73212 Date Analyzed: 11/20/2014 1327h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R73091 Date Analyzed: 11/14/2014 1400h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								
Lab Sample ID: MB-SPLP-34272 Date Analyzed: 11/14/2014 1400h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001BMS Date Analyzed: 11/17/2014 1641h													
Test Code: 300.0-W													
Sulfate	8,570	mg/L	E300.0	21.1	750	5,000	3770	95.9	90 - 110				
Lab Sample ID: 1411223-008BMS Date Analyzed: 11/17/2014 2127h													
Test Code: 300.0-W													
Chloride	504	mg/L	E300.0	0.751	10.0	500.0	30.5	94.7	90 - 110				
Sulfate	1,110	mg/L	E300.0	2.11	75.0	500.0	633	95.7	90 - 110				
Lab Sample ID: 1411223-003BMS Date Analyzed: 11/17/2014 2342h													
Test Code: 300.0-W													
Chloride	107	mg/L	E300.0	0.0751	1.00	50.00	62.5	89.3	90 - 110				
Lab Sample ID: 1411223-009BMS Date Analyzed: 11/18/2014 1805h													
Test Code: 300.0-W													
Chloride	89.9	mg/L	E300.0	0.0751	1.00	50.00	40.3	99.1	90 - 110				
Lab Sample ID: 1411223-001BMS Date Analyzed: 11/18/2014 2020h													
Test Code: 300.0-W													
Fluoride	5.87	mg/L	E300.0	0.00681	0.100	5.000	0.999	97.5	90 - 110				
Lab Sample ID: 1411223-011BMS Date Analyzed: 11/19/2014 016h													
Test Code: 300.0-W													
Fluoride	5.06	mg/L	E300.0	0.00681	0.100	5.000	0.279	95.7	90 - 110				
Lab Sample ID: 1411223-001BMS Date Analyzed: 11/17/2014 717h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,890	mg/L	SM2320B	0.504	1.00	2,500	370	101	80 - 120				
Lab Sample ID: 1411223-011BMS Date Analyzed: 11/17/2014 717h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,890	mg/L	SM2320B	0.504	1.00	2,500	370	101	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001DMS		Date Analyzed: 11/20/2014 1332h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.4	mg/L	E353.2	0.0833	0.100	10.00	1.11	102	90 - 110				
Lab Sample ID: 1411223-013DMS		Date Analyzed: 11/20/2014 1618h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.19	mg/L	E353.2	0.00833	0.0100	1.000	0.129	106	90 - 110				

¹ - 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: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001BMSD Date Analyzed: 11/17/2014 1658h													
Test Code: 300.0-W													
Sulfate	8,750	mg/L	E300.0	21.1	750	5,000	3770	99.5	90 - 110	8570	2.06	20	
Lab Sample ID: 1411223-008BMSD Date Analyzed: 11/17/2014 2144h													
Test Code: 300.0-W													
Chloride	506	mg/L	E300.0	0.751	10.0	500.0	30.5	95.1	90 - 110	504	0.425	20	
Sulfate	1,110	mg/L	E300.0	2.11	75.0	500.0	633	95.5	90 - 110	1110	0.102	20	
Lab Sample ID: 1411223-003BMSD Date Analyzed: 11/17/2014 2359h													
Test Code: 300.0-W													
Chloride	107	mg/L	E300.0	0.0751	1.00	50.00	62.5	89.2	90 - 110	107	0.0484	20	
Lab Sample ID: 1411223-009BMSD Date Analyzed: 11/18/2014 1822h													
Test Code: 300.0-W													
Chloride	91.0	mg/L	E300.0	0.0751	1.00	50.00	40.3	101	90 - 110	89.9	1.19	20	
Lab Sample ID: 1411223-001BMSD Date Analyzed: 11/18/2014 2037h													
Test Code: 300.0-W													
Fluoride	5.82	mg/L	E300.0	0.00681	0.100	5.000	0.999	96.5	90 - 110	5.87	0.827	20	
Lab Sample ID: 1411223-011BMSD Date Analyzed: 11/19/2014 032h													
Test Code: 300.0-W													
Fluoride	5.02	mg/L	E300.0	0.00681	0.100	5.000	0.279	94.8	90 - 110	5.06	0.928	20	
Lab Sample ID: 1411223-001BMSD Date Analyzed: 11/17/2014 717h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,890	mg/L	SM2320B	0.504	1.00	2,500	370	101	80 - 120	2890	0.149	10	
Lab Sample ID: 1411223-011BMSD Date Analyzed: 11/17/2014 717h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO ₃)	2,890	mg/L	SM2320B	0.504	1.00	2,500	370	101	80 - 120	2890	0	10	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001DMSD		Date Analyzed: 11/20/2014 1333h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.3	mg/L	E353.2	0.0833	0.100	10.00	1.11	102	90 - 110	11.4	0.707	10	
Lab Sample ID: 1411223-013DMSD		Date Analyzed: 11/20/2014 1619h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.20	mg/L	E353.2	0.00833	0.0100	1.000	0.129	107	90 - 110	1.19	0.419	10	

¹ - 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: 1411223
Project: 4th 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
Lab Sample ID: LCS VOC-3 111314A		Date Analyzed: 11/17/2014 1213h											
Test Code: 8260-W													
Benzene	20.8	µg/L	SW8260C	0.270	2.00	20.00	0	104	62 - 127				
Chloroform	21.4	µg/L	SW8260C	0.153	2.00	20.00	0	107	67 - 132				
Methylene chloride	18.9	µg/L	SW8260C	0.172	2.00	20.00	0	94.4	32 - 185				
Naphthalene	17.8	µg/L	SW8260C	0.587	2.00	20.00	0	89.0	28 - 136				
Tetrahydrofuran	15.0	µg/L	SW8260C	0.516	2.00	20.00	0	74.9	43 - 146				
Toluene	21.0	µg/L	SW8260C	0.183	2.00	20.00	0	105	64 - 129				
Xylenes, Total	65.0	µg/L	SW8260C	0.857	2.00	60.00	0	108	52 - 134				
Surr: 1,2-Dichloroethane-d4	54.1	µg/L	SW8260C			50.00		108	76 - 138				
Surr: 4-Bromofluorobenzene	49.6	µg/L	SW8260C			50.00		99.2	77 - 121				
Surr: Dibromofluoromethane	52.4	µg/L	SW8260C			50.00		105	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: 1411223
Project: 4th 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
Lab Sample ID: MB VOC-3 111314A	Date Analyzed: 11/17/2014 1251h												
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	4.11	10.0								
Acetone	< 10.0	µg/L	SW8260C	1.70	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.270	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.163	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.587	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.516	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.183	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.857	1.00								
Surr: 1,2-Dichloroethane-d4	57.0	µg/L	SW8260C			50.00		114	76 - 138				
Surr: 4-Bromofluorobenzene	52.4	µg/L	SW8260C			50.00		105	77 - 121				
Surr: Dibromofluoromethane	52.8	µg/L	SW8260C			50.00		106	67 - 128				
Surr: Toluene-d8	49.6	µg/L	SW8260C			50.00		99.2	81 - 135				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001AMS		Date Analyzed: 11/17/2014 1330h											
Test Code: 8260-W													
Benzene	17.9	µg/L	SW8260C	0.270	2.00	20.00	0	89.7	66 - 145				
Chloroform	20.3	µg/L	SW8260C	0.153	2.00	20.00	0	101	50 - 146				
Methylene chloride	18.3	µg/L	SW8260C	0.172	2.00	20.00	0	91.4	30 - 192				
Naphthalene	15.2	µg/L	SW8260C	0.587	2.00	20.00	0	76.2	41 - 131				
Tetrahydrofuran	17.9	µg/L	SW8260C	0.516	2.00	20.00	0	89.6	43 - 146				
Toluene	14.1	µg/L	SW8260C	0.183	2.00	20.00	0	70.7	18 - 192				
Xylenes, Total	33.7	µg/L	SW8260C	0.857	2.00	60.00	0	56.2	42 - 167				
Surr: 1,2-Dichloroethane-d4	57.4	µg/L	SW8260C			50.00		115	72 - 151				
Surr: 4-Bromofluorobenzene	51.7	µg/L	SW8260C			50.00		103	80 - 128				
Surr: Dibromofluoromethane	53.7	µg/L	SW8260C			50.00		107	80 - 124				
Surr: Toluene-d8	49.5	µg/L	SW8260C			50.00		99.0	77 - 129				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1411223
Project: 4th 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
Lab Sample ID: 1411223-001AMSD		Date Analyzed: 11/17/2014 1349h											
Test Code: 8260-W													
Benzene	16.9	µg/L	SW8260C	0.270	2.00	20.00	0	84.6	66 - 145	17.9	5.74	25	
Chloroform	19.3	µg/L	SW8260C	0.153	2.00	20.00	0	96.5	50 - 146	20.3	5.00	25	
Methylene chloride	17.2	µg/L	SW8260C	0.172	2.00	20.00	0	86.2	30 - 192	18.3	5.97	25	
Naphthalene	16.0	µg/L	SW8260C	0.587	2.00	20.00	0	79.8	41 - 131	15.3	4.55	25	
Tetrahydrofuran	21.0	µg/L	SW8260C	0.516	2.00	20.00	0	105	43 - 146	17.9	15.9	25	
Toluene	14.3	µg/L	SW8260C	0.183	2.00	20.00	0	71.6	18 - 192	14.1	1.20	25	
Xylenes, Total	36.3	µg/L	SW8260C	0.857	2.00	60.00	0	60.5	42 - 167	33.7	7.40	25	
Surr: 1,2-Dichloroethane-d4	57.2	µg/L	SW8260C			50.00		114	72 - 151				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260C			50.00		100	80 - 128				
Surr: Dibromofluoromethane	52.9	µg/L	SW8260C			50.00		106	80 - 124				
Surr: Toluene-d8	49.4	µg/L	SW8260C			50.00		98.8	77 - 129				

NH3 sent to Chemtech due to instrument not working. DB

WORK ORDER Summary

Work Order: **1411223** Page 1 of 8

Client: Energy Fuels Resources, Inc. **Due Date:** 11/25/2014
Client ID: DEN100 **Contact:** Garrin Palmer
Project: 4th Quarter Groundwater 2014 **QC Level:** III **WO Type:** Project
Comments: PA Rush. QC 3 (Summary/No chromatograms). Alkalinity must be run at full volume, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. 11-24-14 - NH3 sent to Chemtech due to instrument not working.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411223-001A	MW-03A_11132014	11/13/2014 0615h	11/14/2014 1020h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411223-001B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc
1411223-001C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			ww - tds
1411223-001D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3
1411223-001E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met
				200.7-DIS-PR			df-met
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met
				HG-DW-DIS-PR			df-met
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met
1411223-001F				OUTSIDE LAB			Chemtech-Ford
1411223-002A	MW-05_11112014	11/11/2014 1000h	11/14/2014 1020h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411223-002B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc

WORK ORDER Summary

Work Order: **1411223** Page 2 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 11/25/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411223-002C	MW-05_11112014	11/11/2014 1000h	11/14/2014 1020h	TDS-W-2540C	Aqueous		ww - tds 1
				1 SEL Analytes: TDS			
1411223-002D				NO2/NO3-W-353.2			df - no2/no3 & nh3
				1 SEL Analytes: NO3NO2N			
1411223-002E				200.7-DIS			df-met
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
				1 SEL Analytes: HG			
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
1411223-002F				OUTSIDE LAB			Chemtech-Ford
1411223-003A	MW-12_11112014	11/11/2014 1300h	11/14/2014 1020h	8260-W	Aqueous		VOCFridge 3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4			
1411223-003B				300.0-W			df - wc 1
				3 SEL Analytes: CL F SO4			
				ALK-W-2320B-LL			df - wc
				2 SEL Analytes: ALKB ALKC			
1411223-003C				TDS-W-2540C			ww - tds
				1 SEL Analytes: TDS			
1411223-003D				NO2/NO3-W-353.2			df - no2/no3 & nh3
				1 SEL Analytes: NO3NO2N			
1411223-003E				200.7-DIS			df-met
				5 SEL Analytes: CA MG K NA V			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN			
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
				1 SEL Analytes: HG			
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc			
1411223-003F				OUTSIDE LAB			Chemtech-Ford

WORK ORDER Summary

Work Order: **1411223** Page 4 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 11/25/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411223-005E	MW-15_11122014	11/12/2014 1555h	11/14/2014 1020h	HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>	Aqueous		df-met 1
				HG-DW-DIS-PR			df-met
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met
1411223-005F				OUTSIDE LAB			Chemtech-Ford
1411223-006A	MW-17_11122014	11/12/2014 1110h	11/14/2014 1020h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411223-006B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc
1411223-006C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			ww - tds
1411223-006D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3
1411223-006E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met
				200.7-DIS-PR			df-met
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met
				HG-DW-DIS-PR			df-met
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met
1411223-006F				OUTSIDE LAB			Chemtech-Ford
1411223-007A	MW-18_11102014	11/10/2014 1330h	11/14/2014 1020h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411223-007B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc
1411223-007C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			ww - tds
1411223-007D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3

WORK ORDER Summary

Work Order: **1411223** Page 5 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 11/25/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411223-007E	MW-18_11102014	11/10/2014 1330h	11/14/2014 1020h	200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>	Aqueous		df-met 1
				200.7-DIS-PR			df-met
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met
				HG-DW-DIS-PR			df-met
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met
1411223-007F				OUTSIDE LAB			Chemtech-Ford
1411223-008A	MW-19_11112014	11/11/2014 1520h	11/14/2014 1020h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411223-008B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1
				ALK-W-2320B-LL <i>2 SEL Analytes: ALKB ALKC</i>			df - wc
1411223-008C				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			ww - tds
1411223-008D				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			df - no2/no3 & nh3
1411223-008E				200.7-DIS <i>5 SEL Analytes: CA MG K NA V</i>			df-met
				200.7-DIS-PR			df-met
				200.8-DIS <i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			df-met
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1 <i>1 SEL Analytes: HG</i>			df-met
				HG-DW-DIS-PR			df-met
				IONBALANCE <i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			df-met
1411223-008F				OUTSIDE LAB			Chemtech-Ford
1411223-009A	MW-29_11102014	11/10/2014 1530h	11/14/2014 1020h	8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>	Aqueous		VOCFridge 3
1411223-009B				300.0-W <i>3 SEL Analytes: CL F SO4</i>			df - wc 1

WORK ORDER Summary

Work Order: **1411223** Page 6 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 11/25/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411223-009B	MW-29_11102014	11/10/2014 1530h	11/14/2014 1020h	ALK-W-2320B-LL	Aqueous		df - wc
						2 SEL Analytes: ALKB ALKC	
1411223-009C				TDS-W-2540C			ww - tds
						1 SEL Analytes: TDS	
1411223-009D				NO2/NO3-W-353.2			df - no2/no3 & nh3
						1 SEL Analytes: NO3NO2N	
1411223-009E				200.7-DIS			df-met
						5 SEL Analytes: CA MG K NA V	
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
						17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN	
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
						1 SEL Analytes: HG	
	HG-DW-DIS-PR		df-met				
	IONBALANCE		df-met				
		5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc					
1411223-009F				OUTSIDE LAB			Chemtech-Ford
1411223-010A	MW-30_11102014	11/10/2014 1100h	11/14/2014 1020h	8260-W	Aqueous		VOCFridge
						Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4	
1411223-010B				300.0-W			df - wc
						3 SEL Analytes: CL F SO4	
				ALK-W-2320B-LL			df - wc
						2 SEL Analytes: ALKB ALKC	
1411223-010C				TDS-W-2540C			ww - tds
						1 SEL Analytes: TDS	
1411223-010D				NO2/NO3-W-353.2			df - no2/no3 & nh3
						1 SEL Analytes: NO3NO2N	
1411223-010E				200.7-DIS			df-met
						5 SEL Analytes: CA MG K NA V	
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
		17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN					
	200.8-DIS-PR		df-met				
	HG-DW-DIS-245.1		df-met				
		1 SEL Analytes: HG					
	HG-DW-DIS-PR		df-met				
	IONBALANCE		df-met				
		5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc					

WORK ORDER Summary

Work Order: **1411223** Page 7 of 8

Client: Energy Fuels Resources, Inc.

Due Date: 11/25/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1411223-010F	MW-30_11102014	11/10/2014 1100h	11/14/2014 1020h	OUTSIDE LAB	Aqueous		Chemtech-Ford 1
1411223-011A	MW-35_11122014	11/12/2014 0830h	11/14/2014 1020h	8260-W	Aqueous		VOCFridge 3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411223-011B				300.0-W			df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1411223-011C				TDS-W-2540C			ww - tds
				<i>1 SEL Analytes: TDS</i>			
1411223-011D				NO2/NO3-W-353.2			df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
1411223-011E				200.7-DIS			df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			
				200.8-DIS-PR			df-met
				HG-DW-DIS-245.1			df-met
				<i>1 SEL Analytes: HG</i>			
				HG-DW-DIS-PR			df-met
				IONBALANCE			df-met
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>			
1411223-011F				OUTSIDE LAB			Chemtech-Ford
1411223-012A	MW-36_11122014	11/12/2014 0955h	11/14/2014 1020h	8260-W	Aqueous		VOCFridge 3
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>			
1411223-012B				300.0-W			df - wc 1
				<i>3 SEL Analytes: CL F SO4</i>			
				ALK-W-2320B-LL			df - wc
				<i>2 SEL Analytes: ALKB ALKC</i>			
1411223-012C				TDS-W-2540C			ww - tds
				<i>1 SEL Analytes: TDS</i>			
1411223-012D				NO2/NO3-W-353.2			df - no2/no3 & nh3
				<i>1 SEL Analytes: NO3NO2N</i>			
1411223-012E				200.7-DIS			df-met
				<i>5 SEL Analytes: CA MG K NA V</i>			
				200.7-DIS-PR			df-met
				200.8-DIS			df-met
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>			

WORK ORDER Summary

Work Order: **1411223** Page 8 of 8

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

Due Date: 11/25/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage		
1411223-012E	MW-36_11122014	11/12/2014 0955h	11/14/2014 1020h	200.8-DIS-PR	Aqueous		df-met	1	
				HG-DW-DIS-245.1			df-met		
				<i>1 SEL Analytes: HG</i>					
				HG-DW-DIS-PR			df-met		
				IONBALANCE			df-met		
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>					
1411223-012F				OUTSIDE LAB			Chemtech-Ford		
1411223-013A	MW-65_11122014	11/12/2014 0955h	11/14/2014 1020h	8260-W	Aqueous		VOCFridge	3	
				<i>Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4</i>					
1411223-013B				300.0-W			df - wc	1	
				<i>3 SEL Analytes: CL F SO4</i>					
				ALK-W-2320B-LL			df - wc		
				<i>2 SEL Analytes: ALKB ALKC</i>					
1411223-013C				TDS-W-2540C			ww - tds		
				<i>1 SEL Analytes: TDS</i>					
1411223-013D				NO2/NO3-W-353.2			df - no2/no3 & nh3		
				<i>1 SEL Analytes: NO3NO2N</i>					
1411223-013E				200.7-DIS			df-met		
				<i>5 SEL Analytes: CA MG K NA V</i>					
				200.7-DIS-PR			df-met		
				200.8-DIS			df-met		
				<i>17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN</i>					
				200.8-DIS-PR			df-met		
				HG-DW-DIS-245.1			df-met		
				<i>1 SEL Analytes: HG</i>					
				HG-DW-DIS-PR			df-met		
				IONBALANCE			df-met		
				<i>5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc</i>					
1411223-013F				OUTSIDE LAB			Chemtech-Ford		
1411223-014A	Trip Blank	11/10/2014	11/14/2014 1020h	8260-W	Aqueous		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.

1411223
 AWAL LAB SAMPLE SET #
 PAGE 1 OF 2

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

ADDRESS: **6425 S. Hwy. 191**
Blanding, UT 84511

CONTACT: **Garrin Palmer**

PHONE #: **(435) 678-2221** CELL #: _____
 EMAIL: **gpalmer@energyfuels.com; KWeinel@energyfuels.com;**
dturk@energyfuels.com

PROJECT NAME: **4TH QUARTER 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 (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		LABORATORY USE ONLY											
											FOR COMPLIANCE WITH:		KNOWN HAZARDS & SAMPLE COMMENTS		SAMPLES WERE:											
											<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 SHIPPED OR HAND DELIVERED	2 AMBIENT OR CHILLED	3 TEMPERATURE	4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)	5 PROPERLY PRESERVED	6 RECEIVED WITHIN HOLDING TIMES		
1	MW-03A_11132014	11/13/2014	615	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X				0.4 °C	Y	N	Y	N
2	MW-05_11122014	11/11/2014	1000	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
3	MW-12_11112014	11/11/2014	1300	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
4	MW-14_11122014	11/12/2014	1255	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
5	MW-15_11122014	11/12/2014	1555	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
6	MW-17_11122014	11/12/2014	1110	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
7	MW-18_11102014	11/10/2014	1330	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
8	MW-19_11112014	11/11/2014	1520	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
9	MW-29_11102014	11/10/2014	1530	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
10	MW-30_11102014	11/10/2014	1100	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
11	MW-35_11122014	11/12/2014	830	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N
12	MW-36_11122014	11/12/2014	955	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X					Y	N	Y	N

RELINQUISHED BY: SIGNATURE: <i>Tanner Holliday</i>	DATE: 11/13/2014	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: Tanner Holliday	TIME: 1000	PRINT NAME:	TIME:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE: <i>[Signature]</i>	DATE: 11-14-14	
PRINT NAME:	TIME:	PRINT NAME: Ethan [Signature]	TIME: 1026	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	



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.

14/1/2014

AWAL LAB SAMPLE SET #

PAGE 2 OF 2

CLIENT: **Energy Fuels Resources, Inc.**
 ADDRESS: **6425 S. Hwy. 191**
Blanding, UT 84511
 CONTACT: **Garrin Palmer**
 PHONE #: **(435) 678-2221** CELL #: _____
 EMAIL: **gpalmer@energyfuels.com; KWeinel@energyfuels.com; dturk@energyfuels.com**
 PROJECT NAME: **4TH QUARTER 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 (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		LABORATORY USE ONLY											
											FOR COMPLIANCE WITH:		KNOWN HAZARDS & SAMPLE COMMENTS		SAMPLES WERE:											
											<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 SHIPPED ON HAND DELIVERED	2 AMBIENT OR CHILLED	3 TEMPERATURE 0.4 °C	4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)	5 PROPERLY PRESERVED	6 RECEIVED WITHIN HOLDING TIMES		
1	MW-65_11122014	11/12/2004	955	7	W	X	X	X	X	X	X	X	X	X	X	X	X	X								
2	TRIP BLANK	11/10/2014		3	W																					
3	TEMP BLANK	11/13/2014		1	W																					
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

RELINQUISHED BY: SIGNATURE: <i>Jannice Holliday</i>	DATE: 11/13/2014	RECEIVED BY: SIGNATURE: <i>Elma Harper</i>	DATE: 11-14-14	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>Tanner Holliday</i>	TIME: 1000	PRINT NAME: <i>Elma Harper</i>	TIME: 1020	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE:	DATE:	
PRINT NAME:	TIME:	PRINT NAME:	TIME:	

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
Ammonia	pH <2 H ₂ SO ₄	yes																	
COD	pH <2 H ₂ SO ₄																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO ₃	yes																	
NO ₂ & NO ₃	pH <2 H ₂ SO ₄	yes																	
O & G	pH <2 HCL																		
Phenols	pH <2 H ₂ SO ₄																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H ₂ SO ₄																		
T PO ₄	pH <2 H ₂ SO ₄																		

- 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

Tab F

Laboratory Analytical Reports – Accelerated Monitoring

Tab F1

Laboratory Analytical Reports – Accelerated Monitoring

October 2014



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.

Contact: Garrin Palmer

Project: October Monthly GW 2014

Lab Sample ID: 1410137-001

Client Sample ID: MW-11_10062014

Collection Date: 10/6/2014 1600h

Received Date: 10/10/2014 1030h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	10/13/2014 1120h	10/31/2014 1603h	E200.8	0.0100	0.157	'@

@ - 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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web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: October Monthly GW 2014
Lab Sample ID: 1410137-002
Client Sample ID: MW-25_10062014
Collection Date: 10/6/2014 1110h
Received Date: 10/10/2014 1030h

Contact: Garrin Palmer

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/13/2014 1120h	10/31/2014 1618h	E200.8	0.000500	0.00141	
Uranium	mg/L	10/13/2014 1120h	10/31/2014 1621h	E200.8	0.000300	0.00667	

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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: October Monthly GW 2014

Lab Sample ID: 1410137-003

Client Sample ID: MW-26_10072014

Collection Date: 10/7/2014 1230h

Received Date: 10/10/2014 1030h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	10/13/2014 1120h	10/31/2014 1624h	E200.8	0.000300	0.0754	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: October Monthly GW 2014
Lab Sample ID: 1410137-003
Client Sample ID: MW-26_10072014
Collection Date: 10/7/2014 1230h
Received Date: 10/10/2014 1030h

Contact: Garrin Palmer

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/13/2014 1326h	SM4500-Cl-E	5.00	57.7	1
Nitrate/Nitrite (as N)	mg/L		10/10/2014 1711h	E353.2	0.100	0.704	

¹ - 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. **Contact:** Garrin Palmer
Project: October Monthly GW 2014
Lab Sample ID: 1410137-003D
Client Sample ID: MW-26_10072014
Collection Date: 10/7/2014 1230h
Received Date: 10/10/2014 1030h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/13/2014 1522h

Units: µg/L **Dilution Factor:** 20 **Method:** SW8260C

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	894	-

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e-mail: awal@awal-labs.com

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,080	1,000	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	1,040	1,000	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,030	1,000	103	80-124	
Surr: Toluene-d8	2037-26-5	1,000	1,000	100	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 10/13/2014 1443h

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	3.78	

Jose Rocha
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.6	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.7	50.00	101	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.1	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: October Monthly GW 2014
Lab Sample ID: 1410137-004
Client Sample ID: MW-30_10072014
Collection Date: 10/7/2014 1020h
Received Date: 10/10/2014 1030h

Contact: Garrin Palmer

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	10/13/2014 1120h	11/3/2014 2133h	E200.8	0.00500	0.0389	
Uranium	mg/L	10/13/2014 1120h	11/3/2014 2137h	E200.8	0.000300	0.00776	

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: October Monthly GW 2014
Lab Sample ID: 1410137-004
Client Sample ID: MW-30_10072014
Collection Date: 10/7/2014 1020h
Received Date: 10/10/2014 1030h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		10/13/2014 1356h	SM4500-Cl-E	50.0	136	
Nitrate/Nitrite (as N)	mg/L		10/10/2014 1737h	E353.2	1.00	11.0	

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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: October Monthly GW 2014
Lab Sample ID: 1410137-005
Client Sample ID: MW-31_10062014
Collection Date: 10/6/2014 1300h
Received Date: 10/10/2014 1030h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	10/13/2014 1120h	11/3/2014 2140h	E200.8	0.00500	0.0789	

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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: October Monthly GW 2014
Lab Sample ID: 1410137-005
Client Sample ID: MW-31_10062014
Collection Date: 10/6/2014 1300h
Received Date: 10/10/2014 1030h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		10/13/2014 1358h	SM4500-Cl-E	50.0	205	
Nitrate/Nitrite (as N)	mg/L		10/10/2014 1738h	E353.2	1.00	15.9	
Sulfate	mg/L		10/13/2014 821h	SM4500-SO4-E	5.00	606	
Total Dissolved Solids	mg/L		10/10/2014 1515h	SM2540C	20.0	1,420	@

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

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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: October Monthly GW 2014
Lab Sample ID: 1410137-006
Client Sample ID: MW-35_10062014
Collection Date: 10/6/2014 1430h
Received Date: 10/10/2014 1030h

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	10/13/2014 1120h	10/31/2014 1646h	E200.8	0.0100	0.228	
Selenium	mg/L	10/13/2014 1120h	11/3/2014 2143h	E200.8	0.00500	0.0155	
Thallium	mg/L	10/13/2014 1120h	10/31/2014 1649h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	10/13/2014 1120h	10/31/2014 1649h	E200.8	0.000750	0.0239	

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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: November 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_10062014	Project: DNMI00100
Sample ID: 358875001	Client ID: DNMI001
Matrix: Water	
Collect Date: 06-OCT-14 14:30	
Receive Date: 13-OCT-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		4.14	+/-0.624	0.890	1.00	pCi/L		CXP3	10/22/14	1115	1428782	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"			97.5	(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.

Contact: Garrin Palmer

Project: October Monthly GW 2014

Lab Sample ID: 1410137-008

Client Sample ID: MW-65_10062014

Collection Date: 10/6/2014 1430h

Received Date: 10/10/2014 1030h

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>
Manganese	mg/L	10/13/2014 1120h	10/31/2014 1656h	E200.8	0.0100	0.232	
Selenium	mg/L	10/13/2014 1120h	11/3/2014 2149h	E200.8	0.00500	0.0155	
Thallium	mg/L	10/13/2014 1120h	10/31/2014 1659h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	10/13/2014 1120h	10/31/2014 1659h	E200.8	0.000750	0.0245	

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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: November 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_10062014 Project: DNMI00100
Sample ID: 358875002 Client ID: DNMI001
Matrix: Water
Collect Date: 06-OCT-14 14:30
Receive Date: 13-OCT-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		4.15	+/-0.596	0.958	1.00	pCi/L		CXP3	10/22/14	1115	1428782	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"			99.3	(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.



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc.
Project: October Monthly GW 2014
Lab Sample ID: 1410137-007A
Client Sample ID: Trip Blank
Collection Date: 10/6/2014
Received Date: 10/10/2014 1030h

Contact: Garrin Palmer

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 10/13/2014 1502h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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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	51.3	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.6	50.00	97.1	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	80-124	
Surr: Toluene-d8	2037-26-5	48.4	50.00	96.7	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



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

RE: October Monthly GW 2014

Dear Garrin Palmer:

Lab Set ID: 1410137

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received 8 sample(s) on 10/10/2014 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:

Jose G. Rocha	Digitally signed by Jose G. Rocha
	DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou, email=jose@awal-labs.com, c=US Date: 2014.11.05 16:47:51 -07'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc.
Project: October Monthly GW 2014
Lab Set ID: 1410137
Date Received: 10/10/2014 1030h

Contact: Garrin Palmer

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross

Laboratory Director

Jose Rocha

QA Officer

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1410137-001A	MW-11_10062014	10/6/2014 1600h	Aqueous	ICPMS Metals, Dissolved
1410137-002A	MW-25_10062014	10/6/2014 1110h	Aqueous	ICPMS Metals, Dissolved
1410137-003A	MW-26_10072014	10/7/2014 1230h	Aqueous	ICPMS Metals, Dissolved
1410137-003B	MW-26_10072014	10/7/2014 1230h	Aqueous	Nitrite/Nitrate (as N), E353.2
1410137-003C	MW-26_10072014	10/7/2014 1230h	Aqueous	Chloride, Aqueous
1410137-003D	MW-26_10072014	10/7/2014 1230h	Aqueous	VOA by GC/MS Method 8260C/5030C
1410137-004A	MW-30_10072014	10/7/2014 1020h	Aqueous	ICPMS Metals, Dissolved
1410137-004B	MW-30_10072014	10/7/2014 1020h	Aqueous	Nitrite/Nitrate (as N), E353.2
1410137-004C	MW-30_10072014	10/7/2014 1020h	Aqueous	Chloride, Aqueous
1410137-005A	MW-31_10062014	10/6/2014 1300h	Aqueous	ICPMS Metals, Dissolved
1410137-005B	MW-31_10062014	10/6/2014 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1410137-005C	MW-31_10062014	10/6/2014 1300h	Aqueous	Chloride, Aqueous
1410137-005C	MW-31_10062014	10/6/2014 1300h	Aqueous	Sulfate, Aqueous
1410137-005C	MW-31_10062014	10/6/2014 1300h	Aqueous	Total Dissolved Solids, A2540C
1410137-006A	MW-35_10062014	10/6/2014 1430h	Aqueous	ICPMS Metals, Dissolved
1410137-007A	Trip Blank	10/6/2014	Aqueous	VOA by GC/MS Method 8260C/5030C
1410137-008A	MW-65_10062014	10/6/2014 1430h	Aqueous	ICPMS Metals, Dissolved



Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: October Monthly GW 2014
Lab Set ID: 1410137

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Kyle F. Gross
 Laboratory Director

Jose Rocha
 QA Officer

Sample Receipt Information:

Date of Receipt: 10/10/2014
Date(s) of Collection: 10/6-10/7/2014
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
1410137-001A	Cadmium	MSD/RPD	Sample non-homogeneity or matrix interference
1410137-001A	Manganese	MSD/RPD	Sample non-homogeneity or matrix interference
1410137-001A	Selenium	MSD/RPD	Sample non-homogeneity or matrix interference
1410137-001A	Thallium	MSD/RPD	Sample non-homogeneity or matrix interference
1410137-001A	Uranium	MSD/RPD	Sample non-homogeneity or matrix interference



1410137-003C	Chloride	MS/MSD	Sample matrix interference
1410138-001A	Chloride	MS/MSD	Sample matrix interference

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits, with the following exception: sample 1410137-005C for Total Dissolved Solids had a RPD outside of the control limit due to suspected sample non-homogeneity or matrix interference.

Corrective Action: None required.

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Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: October Monthly GW 2014
Lab Set ID: 1410137

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Sample Receipt Information:

Date of Receipt: 10/10/2014
Date(s) of Collection: 10/6-10/7/2014
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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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: LCS-33698	Date Analyzed:		10/31/2014 1600h										
Test Code: 200.8-DIS	Date Prepared:		10/13/2014 1120h										
Cadmium	0.206	mg/L	E200.8	0.000193	0.000500	0.2000	0	103	85 - 115				
Manganese	0.209	mg/L	E200.8	0.00153	0.00200	0.2000	0	105	85 - 115				
Selenium	0.203	mg/L	E200.8	0.0000634	0.00200	0.2000	0	101	85 - 115				
Thallium	0.210	mg/L	E200.8	0.0000242	0.00200	0.2000	0	105	85 - 115				
Uranium	0.218	mg/L	E200.8	0.0000112	0.00200	0.2000	0	109	85 - 115				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: MB-33698	Date Analyzed:	10/31/2014	1557h										
Test Code: 200.8-DIS	Date Prepared:	10/13/2014	1120h										
Cadmium	< 0.000500	mg/L	E200.8	0.0000193	0.0000500								
Manganese	< 0.000200	mg/L	E200.8	0.000153	0.000200								
Selenium	< 0.000200	mg/L	E200.8	0.00000634	0.000200								
Thallium	< 0.000200	mg/L	E200.8	0.00000242	0.000200								
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: 1410137-001AMS	Date Analyzed:		10/31/2014 1612h										
Test Code: 200.8-DIS	Date Prepared:		10/13/2014 1120h										
Cadmium	0.197	mg/L	E200.8	0.000193	0.000500	0.2000	0.000684	97.9	75 - 125				
Manganese	0.350	mg/L	E200.8	0.00153	0.00200	0.2000	0.157	96.5	75 - 125				
Selenium	0.197	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0000781	98.3	75 - 125				
Thallium	0.189	mg/L	E200.8	0.0000242	0.00200	0.2000	0	94.3	75 - 125				
Uranium	0.210	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000843	105	75 - 125				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: 1410137-001AMSD	Date Analyzed: 10/31/2014 1615h												
Test Code: 200.8-DIS	Date Prepared: 10/13/2014 1120h												
Cadmium	0.136	mg/L	E200.8	0.000193	0.000500	0.2000	0.000684	67.8	75 - 125	0.197	36.2	20	'@
Manganese	0.252	mg/L	E200.8	0.00153	0.00200	0.2000	0.157	47.5	75 - 125	0.35	32.6	20	'@
Selenium	0.145	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0000781	72.5	75 - 125	0.197	30.2	20	'@
Thallium	0.133	mg/L	E200.8	0.0000242	0.00200	0.2000	0	66.5	75 - 125	0.189	34.7	20	'@
Uranium	0.146	mg/L	E200.8	0.0000112	0.00200	0.2000	0.000843	72.5	75 - 125	0.21	36.1	20	'@

@ - 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: 1410137
Project: October Monthly GW 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
Lab Sample ID: 1410137-005CDUP	Date Analyzed: 10/10/2014 1515h												
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,510	mg/L	SM2540C	12.3	20.0					1420	5.99	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: 1410137

Project: October Monthly GW 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
Lab Sample ID: LCS-R71952													
Date Analyzed: 10/13/2014 1325h													
Test Code: CL-W-4500CLE													
Chloride	26.0	mg/L	SM4500-Cl-E	0.156	5.00	25.00	0	104	90 - 110				
Lab Sample ID: LCS-R71824													
Date Analyzed: 10/10/2014 1642h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.04	mg/L	E353.2	0.00613	0.0100	1.000	0	104	90 - 110				
Lab Sample ID: LCS-R71844													
Date Analyzed: 10/13/2014 821h													
Test Code: SO4-W-4500SO4E													
Sulfate	949	mg/L	SM4500-SO4-E	2.56	5.00	1,000	0	94.9	90 - 110				
Lab Sample ID: LCS-R71939													
Date Analyzed: 10/10/2014 1515h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	190	mg/L	SM2540C	6.13	10.0	205.0	0	92.7	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 1410137

Project: October Monthly GW 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
Lab Sample ID: LCSD-R71952	Date Analyzed: 10/13/2014 1346h												
Test Code: CL-W-4500CLE													
Chloride	26.2	mg/L	SM4500-Cl-E	0.156	5.00	25.00	0	105	90 - 110	26	0.804	10	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 1410137

Project: October Monthly GW 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
Lab Sample ID: MB-R71952	Date Analyzed:	10/13/2014	1324h										
Test Code: CL-W-4500CLE													
Chloride	< 5.00	mg/L	SM4500-Cl-E	0.156	5.00								
Lab Sample ID: MB-R71824	Date Analyzed:	10/10/2014	1710h										
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00613	0.0100								
Lab Sample ID: MB-R71844	Date Analyzed:	10/13/2014	821h										
Test Code: SO4-W-4500SO4E													
Sulfate	< 5.00	mg/L	SM4500-SO4-E	2.56	5.00								
Lab Sample ID: MBLK-R71939	Date Analyzed:	10/10/2014	1515h										
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: 1410137-003CMS Date Analyzed: 10/13/2014 1326h													
Test Code: CL-W-4500CLE													
Chloride	66.1	mg/L	SM4500-Cl-E	0.156	5.00	10.00	57.7	84.1	90 - 110				1
Lab Sample ID: 1410138-001AMS Date Analyzed: 10/13/2014 1333h													
Test Code: CL-W-4500CLE													
Chloride	14.6	mg/L	SM4500-Cl-E	0.156	5.00	10.00	5.93	86.3	90 - 110				1
Lab Sample ID: 1410138-001BMS Date Analyzed: 10/10/2014 1645h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.88	mg/L	E353.2	0.00613	0.0100	1.000	0.968	90.8	90 - 110				
Lab Sample ID: 1410137-003BMS Date Analyzed: 10/10/2014 1729h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.61	mg/L	E353.2	0.00613	0.0100	1.000	0.704	90.4	90 - 110				
Lab Sample ID: 1410137-005CMS Date Analyzed: 10/13/2014 821h													
Test Code: SO4-W-4500SO4E													
Sulfate	813	mg/L	SM4500-SO4-E	2.56	5.00	200.0	606	103	80 - 120				

¹ - 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: 1410137
Project: October Monthly GW 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
Lab Sample ID: 1410137-003CMSD Date Analyzed: 10/13/2014 1327h													
Test Code: CL-W-4500CLE													
Chloride	65.3	mg/L	SM4500-Cl-E	0.156	5.00	10.00	57.7	76.1	90 - 110	66.1	1.22	10	1
Lab Sample ID: 1410138-001AMSD Date Analyzed: 10/13/2014 1335h													
Test Code: CL-W-4500CLE													
Chloride	14.3	mg/L	SM4500-Cl-E	0.156	5.00	10.00	5.93	84.1	90 - 110	14.6	1.52	10	1
Lab Sample ID: 1410138-001BMSD Date Analyzed: 10/10/2014 1647h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.92	mg/L	E353.2	0.00613	0.0100	1.000	0.968	95.0	90 - 110	1.88	2.21	10	
Lab Sample ID: 1410137-003BMSD Date Analyzed: 10/10/2014 1735h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.61	mg/L	E353.2	0.00613	0.0100	1.000	0.704	90.6	90 - 110	1.61	0.124	10	
Lab Sample ID: 1410137-005CMSD Date Analyzed: 10/13/2014 821h													
Test Code: SO4-W-4500SO4E													
Sulfate	795	mg/L	SM4500-SO4-E	2.56	5.00	200.0	606	94.3	80 - 120	813	2.26	10	

¹ - 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: 1410137
Project: October Monthly GW 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
Lab Sample ID: LCS VOC-1 101314A	Date Analyzed: 10/13/2014 1345h												
Test Code: 8260-W													
Chloroform	16.8	µg/L	SW8260C	0.153	2.00	20.00	0	84.2	67 - 132				
Methylene chloride	16.5	µg/L	SW8260C	0.172	2.00	20.00	0	82.5	32 - 185				
Surr: 1,2-Dichloroethane-d4	50.1	µg/L	SW8260C			50.00		100	76 - 138				
Surr: 4-Bromofluorobenzene	49.0	µg/L	SW8260C			50.00		97.9	77 - 121				
Surr: Dibromofluoromethane	48.7	µg/L	SW8260C			50.00		97.4	67 - 128				
Surr: Toluene-d8	48.4	µg/L	SW8260C			50.00		96.7	81 - 135				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: MB VOC-1 101314A		Date Analyzed: 10/13/2014 1423h											
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	51.3	µg/L	SW8260C			50.00		103	76 - 138				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.6	77 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.4	67 - 128				
Surr: Toluene-d8	48.6	µg/L	SW8260C			50.00		97.2	81 - 135				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: 1410137-003DMS	Date Analyzed: 10/13/2014 1541h												
Test Code: 8260-W													
Chloroform	1,270	µg/L	SW8260C	3.06	40.0	400.0	894	94.8	50 - 146				
Methylene chloride	365	µg/L	SW8260C	3.44	40.0	400.0	3.78	90.4	30 - 192				
Surr: 1,2-Dichloroethane-d4	1,030	µg/L	SW8260C			1,000		103	72 - 151				
Surr: 4-Bromofluorobenzene	937	µg/L	SW8260C			1,000		93.7	80 - 128				
Surr: Dibromofluoromethane	1,000	µg/L	SW8260C			1,000		100	80 - 124				
Surr: Toluene-d8	969	µg/L	SW8260C			1,000		96.9	77 - 129				



3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1410137
Project: October Monthly GW 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
Lab Sample ID: 1410137-003DMSD		Date Analyzed: 10/13/2014 1601h											
Test Code: 8260-W													
Chloroform	1,180	µg/L	SW8260C	3.06	40.0	400.0	894	72.8	50 - 146	1270	7.16	25	
Methylene chloride	342	µg/L	SW8260C	3.44	40.0	400.0	3.78	84.7	30 - 192	365	6.44	25	
Surr: 1,2-Dichloroethane-d4	1,010	µg/L	SW8260C			1,000		101	72 - 151				
Surr: 4-Bromofluorobenzene	960	µg/L	SW8260C			1,000		96.0	80 - 128				
Surr: Dibromofluoromethane	992	µg/L	SW8260C			1,000		99.2	80 - 124				
Surr: Toluene-d8	973	µg/L	SW8260C			1,000		97.3	77 - 129				

American West Analytical Laboratories

REVISED: 10-13-14

UL
Denison

Added analysis for sample #8, per Kathy Weinel. EH

WORK ORDER Summary

Work Order: **1410137** Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 10/21/2014

Client ID: DEN100

Contact: Garrin Palmer

Project: October Monthly GW 2014

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Dissolved metals were field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1410137-001A	MW-11_10062014	10/6/2014 1600h	10/10/2014 1030h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous		Metals 1
				200.8-DIS-PR			Metals
1410137-002A	MW-25_10062014	10/6/2014 1110h	10/10/2014 1030h	200.8-DIS <i>2 SEL Analytes: CD U</i>	Aqueous		Metals 1
				200.8-DIS-PR			Metals
1410137-003A	MW-26_10072014	10/7/2014 1230h	10/10/2014 1030h	200.8-DIS <i>1 SEL Analytes: U</i>	Aqueous		Metals 1
				200.8-DIS-PR			Metals
1410137-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			NO2/NO3
1410137-003C				CL-W-4500CLE			WC
1410137-003D				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>			VOC Fridge 3
1410137-004A	MW-30_10072014	10/7/2014 1020h	10/10/2014 1030h	200.8-DIS <i>2 SEL Analytes: SE U</i>	Aqueous		Metals 1
				200.8-DIS-PR			Metals
1410137-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			NO2/NO3
1410137-004C				CL-W-4500CLE			WC
1410137-005A	MW-31_10062014	10/6/2014 1300h	10/10/2014 1030h	200.8-DIS <i>1 SEL Analytes: SE</i>	Aqueous		Metals 1
				200.8-DIS-PR			Metals
1410137-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			NO2/NO3
1410137-005C				CL-W-4500CLE			WC
				SO4-W-4500SO4E			WC
				TDS-W-2540C <i>1 SEL Analytes: TDS</i>			WC
1410137-006A	MW-35_10062014	10/6/2014 1430h	10/10/2014 1030h	200.8-DIS <i>4 SEL Analytes: MN SE TL U</i>	Aqueous		Metals 1

WORK ORDER SummaryWork Order: **1410137** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 10/21/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1410137-006A	MW-35_10062014	10/6/2014 1430h	10/10/2014 1030h	200.8-DIS-PR	Aqueous		Metals
1410137-007A	Trip Blank	10/6/2014	10/10/2014 1030h	8260-W	Aqueous		VOC Fridge
<i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>							
1410137-008A	MW-65_10062014	10/6/2014 1430h	10/10/2014 1030h	200.8-DIS	Aqueous		Metals
<i>4 SEL Analytes: MN SE TL U</i>							
				200.8-DIS-PR			Metals

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1410137**

Page 1 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 10/21/2014

Client ID: DEN100

Contact: Garrin Palmer

Project: October Monthly GW 2014

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Dissolved metals were field filtered.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1410137-001A	MW-11_10062014	10/6/2014 1600h	10/10/2014 1030h	200.8-DIS <i>1 SEL Analytes: MN</i> 200.8-DIS-PR	Aqueous		Metals 1
1410137-002A	MW-25_10062014	10/6/2014 1110h	10/10/2014 1030h	200.8-DIS <i>2 SEL Analytes: CD U</i> 200.8-DIS-PR	Aqueous		Metals 1
1410137-003A	MW-26_10072014	10/7/2014 1230h	10/10/2014 1030h	200.8-DIS <i>1 SEL Analytes: U</i> 200.8-DIS-PR	Aqueous		Metals 1
1410137-003B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			NO2/NO3
1410137-003C				CL-W-4500CLE			WC
1410137-003D				8260-W <i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>			VOC Fridge 3
1410137-004A	MW-30_10072014	10/7/2014 1020h	10/10/2014 1030h	200.8-DIS <i>2 SEL Analytes: SE U</i> 200.8-DIS-PR	Aqueous		Metals 1
1410137-004B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			NO2/NO3
1410137-004C				CL-W-4500CLE			WC
1410137-005A	MW-31_10062014	10/6/2014 1300h	10/10/2014 1030h	200.8-DIS <i>1 SEL Analytes: SE</i> 200.8-DIS-PR	Aqueous		Metals 1
1410137-005B				NO2/NO3-W-353.2 <i>1 SEL Analytes: NO3NO2N</i>			NO2/NO3
1410137-005C				CL-W-4500CLE SO4-W-4500SO4E TDS-W-2540C <i>1 SEL Analytes: TDS</i>			WC WC WC
1410137-006A	MW-35_10062014	10/6/2014 1430h	10/10/2014 1030h	200.8-DIS <i>4 SEL Analytes: MN SE TL U</i> 200.8-DIS-PR	Aqueous		Metals 1

WORK ORDER Summary

Work Order: **1410137** Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 10/21/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1410137-007A	Trip Blank	10/6/2014	10/10/2014 1030h	8260-W	Aqueous	VOC Fridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>							
1410137-008A	MW-65_10062014	10/6/2014 1430h	10/10/2014 1030h			HOLD	1



American West Analytical Laboratories
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 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.

1410137

AWAL Lab Sample Set #

Page 1 of 1

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Garrin Palmer**
 Phone #: **(435) 678-2221** Cell #:
gpalmer@energyfuels.com; kweinel@energyfuels.com;
dturk@energyfuels.com
 Project Name: **October monthly GW 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		<input checked="" type="checkbox"/> Include EDD: LOCUS UPLOAD EXCEL <input checked="" type="checkbox"/> Field Filtered For: Dissolved Metals	Laboratory Use Only Samples Were: FedEx 1. Shipped or hand delivered 2. Ambient or Chilled 3. Temperature: 31°C 4. Received Broken/Leaking (Improperly Sealed)? Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. Properly Preserved? Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Checked at bench Y <input type="checkbox"/> N <input type="checkbox"/> 6. Received Within Holding Times Y <input type="checkbox"/> N <input type="checkbox"/>
Sample Matrix			
NO2/NO3 (353.2)		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
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)			
SO4 (4500 or 300.0)			
VOCs Chloroform, Dichloromethane, Carbon tetrachloride (8260C)			

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)	SO4 (4500 or 300.0)	VOCs Chloroform, Dichloromethane, Carbon tetrachloride (8260C)	Known Hazards & Sample Comments
1 MW-11_10062014	10/6/2014	1600	1	w		X									
2 MW-25_10062014	10/6/2014	1110	1	w					X	X					
3 MW-26_10072014	10/7/2014	1230	6	w	X		X		X				X		
4 MW-30_10072014	10/7/2014	1020	3	w	X		X		X		X				
5 MW-31_10062014	10/6/2014	1300	3	w	X		X	X			X		X		
6 MW-35_10062014	10/6/2014	1430	1	w		X			X		X	X			
7 Trip Blank	10/6/2014		3	w										X	
Temp Blank															
8 MW-65_10062014	10/6/2014	1430	1	w		X			X	X	X				10/13/14 added per Kathy Weir!

Relinquished by: Signature Garrin Palmer	Date: 10/9/14	Received by: 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: Garrin Palmer	Time: 1300	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:	
Relinquished by: Signature	Date:	Received by: Signature Denise Bruun	Date: 10/10/14	
Print Name:	Time:	Print Name: Denise Bruun	Time: 10:30	

pk 10/10/14

Blue



October 29, 2014

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 358875

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 13, 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. 4487.

Sincerely,

Sylainna Rivers
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 358875**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 358875**

October 29, 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 October 13, 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:

<u>Laboratory ID</u>	<u>Client ID</u>
358875001	MW-35_10062014
358875002	MW-65_10062014

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.



Sylainna Rivers
Project Manager



SAMPLE RECEIPT & REVIEW FORM

Client: <u>DWME</u>		SDG/AR/COC/Work Order: <u>358875</u>	
Received By: <u>PS</u>		Date Received: <u>10/13/14</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"/>

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"/>		<u>24°C</u> Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius
2a	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <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>8015 5301 6829</u>

Comments (Use Continuation Form if needed):

GEL Laboratories LLC – Login Review Report

Report Date: 29-OCT-14
 Work Order: 358875
 Page 1 of 2

GEL Work Order/SDG: 358875 October Monthly GW
 Client SDG: 358875
 Project Manager: Sylainna Rivers
 Project Name: DNMI00100 White Mesa Mill GW
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 10-NOV-14
 Package Due Date: 07-NOV-14
 EDD Due Date: 10-NOV-14
 Due Date: 10-NOV-14
 SXX1

Collector: C
 Prelogin #: 20141022519
 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
358875001	MW-35_10062014		06-OCT-14 14:30	13-OCT-14 10:05	-2	1	WATER		20		1		
358875002	MW-65_10062014		06-OCT-14 14:30	13-OCT-14 10:05	-2	1	WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-35_10062014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 24	
-002 MW-65_10062014	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 24	

Product: GFCTORAL Workdef ID: 1297250 In Product Group? No Group Name: Group Reference:

Method: EPA 900.1 Modified Path: Standard

Product Description: GFPC, Total Alpha Radium, Liquid Product Reference: Gross Alpha

Samples: 001, 002 Moisture Correction: "As Received"

Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	Yes

Action	Product Name	Description	Samples
--------	--------------	-------------	---------

Contingent Tests

Login Requirements:

Requirement	Include?	Comments
-------------	----------	----------

GEL Laboratories LLC – Login Review Report

Report Date: 29-OCT-14

Work Order: 358875

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 29 October 2014

State	Certification
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	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12
Wisconsin	999887790

**Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 358875**

Method/Analysis Information

Product: GFPC, Total Alpha Radium, Liquid
Analytical Method: EPA 900.1 Modified
Analytical Batch Number: 1428782

Sample ID	Client ID
358875001	MW-35_10062014
358875002	MW-65_10062014
1203191014	MB for batch 1428782
1203191018	Laboratory Control Sample (LCS)
1203191015	358875002(MW-65_10062014) Sample Duplicate (DUP)
1203191016	358875002(MW-65_10062014) Matrix Spike (MS)
1203191017	358875002(MW-65_10062014) 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: 358875002 (MW-65_10062014).

QC Information

All of the QC samples meet the required acceptance limits with the following exceptions: The sample and the duplicate, 1203191015 (MW-65_10062014) and 358875002 (MW-65_10062014) , did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with a value of 1.7078.

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, 1203191016 (MW-65_10062014) and 1203191017 (MW-65_10062014), 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: 358875 GEL Work Order: 358875

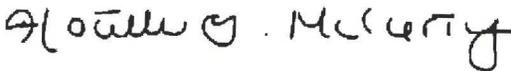
The Qualifiers in this report are defined as follows:

- * 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: 04 NOV 2014

Title: Analyst II

GEL LABORATORIES LLC

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

QC Summary

Report Date: November 4, 2014

Page 1 of 2

Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 358875

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1428782										
QC1203191015	358875002	DUP									
Gross Radium Alpha		4.15		6.06	pCi/L	37.3*		(0%-20%)	CXP3	10/22/14	11:16
	Uncertainty	+/-0.596		+/-0.690							
QC1203191018	LCS										
Gross Radium Alpha	413			425	pCi/L		103	(75%-125%)		10/22/14	12:01
	Uncertainty			+/-6.07							
QC1203191014	MB										
Gross Radium Alpha			U	-0.0136	pCi/L					10/22/14	11:16
	Uncertainty			+/-0.235							
QC1203191016	358875002	MS									
Gross Radium Alpha	1660	4.15		1570	pCi/L		94.3	(75%-125%)		10/22/14	12:01
	Uncertainty	+/-0.596		+/-23.3							
QC1203191017	358875002	MSD									
Gross Radium Alpha	1660	4.15		1800	pCi/L	13.4	108	(0%-20%)		10/22/14	12:01
	Uncertainty	+/-0.596		+/-26.5							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

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QC Summary

Workorder: 358875

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.

EF Exchange server options

EF - onsite lakewood, single server

Single server (Lakewood on-site)

0 ?	Server (none, will run as VM under efuscorph01				
2000 estimate	Backup - will get agent for Backup Exec with support (assume APP & DB)				
8000	Drobo x2 @ 4000				
668	Exchg 2013 Std (CDW @668)				
7800	Exchg 2013 Std user CALs x100 (CDW @78)				
796	W2012 Server Std R2 (Dell pricing)				
<u>1000</u>	W2012 server CALs x100 (CDW @10)				
20264					
5775	Labor 35 hrs setup Ron @ 165/hr - includes data migration				
<u>2400</u>	Labor 20 hrs client side, migration @120 (Steve, Marc)				
<u>28439</u>					
		week	month	year	
	Ongoing support, aprox. 3 hrs/week @120		360	1560	18720
	Spam email filtering (Analytics)				

Option 2nd server (remote, redundancy)

6000	Server - estimate Dell R320, Raid6, (4) 900Gb SAS hot swap drives, 16Gb RAM, dual PS				
668	Exchg 2013 Std (CDW @668)				
<u>796</u>	W2012 Server Std R2 (Dell pricing)				
7464					
1980	Labor 12 hrs setup Ron @ 165/hr				
<u>960</u>	Labor - 8 hrs setup Ron @ 165 Exchg Redundancy, VPN, including test/verification				
<u>11200</u>					
		week	month	year	
	Ongoing support, aprox. 1 hrs/week @120		120	520	6240

Tab F2

Laboratory Analytical Reports – Accelerated Monitoring

December 2014



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly Ground Water 2014
Lab Sample ID: 1412240-001
Client Sample ID: MW-11_12102014
Collection Date: 12/10/2014 1120h
Received Date: 12/11/2014 900h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	12/11/2014 1313h	12/17/2014 1933h	E200.8	0.0100	0.186	

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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: December Monthly Ground Water 2014
Lab Sample ID: 1412240-002
Client Sample ID: MW-25_12092014
Collection Date: 12/9/2014 1055h
Received Date: 12/11/2014 900h

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/11/2014 1313h	12/16/2014 2042h	E200.8	0.000500	0.00127	
Uranium	mg/L	12/11/2014 1313h	12/16/2014 2127h	E200.8	0.000300	0.00575	

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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: December Monthly Ground Water 2014
Lab Sample ID: 1412240-003
Client Sample ID: MW-26_12102014
Collection Date: 12/10/2014 1445h
Received Date: 12/11/2014 900h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Uranium	mg/L	12/11/2014 1313h	12/16/2014 2130h	E200.8	0.000300	0.0425	

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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: December Monthly Ground Water 2014
Lab Sample ID: 1412240-003
Client Sample ID: MW-26_12102014
Collection Date: 12/10/2014 1445h
Received Date: 12/11/2014 900h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		12/12/2014 2059h	E300.0	10.0	65.5	
Nitrate/Nitrite (as N)	mg/L		12/15/2014 1438h	E353.2	0.100	< 0.100	†

[†] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly GW 2014 Re Sample
Lab Sample ID: 1412317-001A
Client Sample ID: MW-26_12152014
Collection Date: 12/15/2014 1000h
Received Date: 12/16/2014 1020h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 12/16/2014 1706h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	2,280	

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Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	4,830	5,000	96.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	4,910	5,000	98.1	80-128	
Surr: Dibromofluoromethane	1868-53-7	4,840	5,000	96.9	80-124	
Surr: Toluene-d8	2037-26-5	4,700	5,000	93.9	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

web: www.awal-labs.com

Analyzed: 12/16/2014 1548h

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	28.4	

Jose Rocha
QA Officer

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.2	50.00	98.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.3	50.00	96.7	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.0	50.00	97.9	80-124	
Surr: Toluene-d8	2037-26-5	46.8	50.00	93.7	77-129	



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly Ground Water 2014
Lab Sample ID: 1412240-004
Client Sample ID: MW-30_12102014
Collection Date: 12/10/2014 1035h
Received Date: 12/11/2014 900h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	12/11/2014 1313h	12/17/2014 1936h	E200.8	0.00500	0.0375	
Uranium	mg/L	12/11/2014 1313h	12/16/2014 2133h	E200.8	0.000300	0.00767	

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Laboratory Director

Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly Ground Water 2014
Lab Sample ID: 1412240-004
Client Sample ID: MW-30_12102014
Collection Date: 12/10/2014 1035h
Received Date: 12/11/2014 900h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		12/12/2014 1827h	E300.0	100	138	
Nitrate/Nitrite (as N)	mg/L		12/15/2014 1442h	E353.2	1.00	17.1	

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Jose Rocha
QA Officer



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly Ground Water 2014
Lab Sample ID: 1412240-005
Client Sample ID: MW-31_12092014
Collection Date: 12/9/2014 1300h
Received Date: 12/11/2014 900h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	12/11/2014 1313h	12/16/2014 2046h	E200.8	0.00500	0.0711	

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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: December Monthly Ground Water 2014
Lab Sample ID: 1412240-005
Client Sample ID: MW-31_12092014
Collection Date: 12/9/2014 1300h
Received Date: 12/11/2014 900h

Analytical Results

3440 South 700 West
Salt Lake City, UT 84119

<u>Compound</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method Used</u>	<u>Reporting Limit</u>	<u>Analytical Result</u>	<u>Qual</u>
Chloride	mg/L		12/12/2014 1844h	E300.0	100	215	
Nitrate/Nitrite (as N)	mg/L		12/15/2014 1444h	E353.2	10.0	17.0	
Sulfate	mg/L		12/12/2014 1844h	E300.0	100	687	
Total Dissolved Solids	mg/L		12/12/2014 1200h	SM2540C	20.0	1,450	

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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: December Monthly Ground Water 2014
Lab Sample ID: 1412240-006
Client Sample ID: MW-35_12092014
Collection Date: 12/9/2014 1440h
Received Date: 12/11/2014 900h

Analytical Results

DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	12/11/2014 1313h	12/17/2014 1939h	E200.8	0.0100	0.232	
Selenium	mg/L	12/11/2014 1313h	12/16/2014 2049h	E200.8	0.00500	0.00750	
Thallium	mg/L	12/11/2014 1313h	12/16/2014 2121h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	12/11/2014 1313h	12/16/2014 2137h	E200.8	0.000300	0.0203	

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Laboratory Director

Jose Rocha
QA Officer

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: January 28, 2015

Company : Energy Fuels Resources (USA), Inc.
 Address : 225 Union Boulevard
 Suite 600
 Lakewood, Colorado 80228
 Contact: Ms. Kathy Weinel
 Project: White Mesa Mill GW

Client Sample ID: MW-35_12092014	Project: DNMI00100
Sample ID: 365596001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 09-DEC-14 14:40	
Receive Date: 22-JAN-15	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		4.54	+/-0.477	0.588	1.00	pCi/L		AF1	01/28/15	1026	1452170	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments										
1	EPA 900.1 Modified											

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.6	(25%-125%)

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

SRL = Sample Reporting Limit. For metals analysis only. When the sample is U qualified and ND, the SRL column reports the value which is the greater of either the adjusted MDL or the CRDL.



INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly Ground Water 2014
Lab Sample ID: 1412240-007
Client Sample ID: MW-65_12102014
Collection Date: 12/10/2014 1120h
Received Date: 12/11/2014 900h

Analytical Results

DISSOLVED METALS

3440 South 700 West
Salt Lake City, UT 84119

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	12/11/2014 1313h	12/17/2014 1949h	E200.8	0.0100	0.186	

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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: December Monthly GW 2014 Re Sample
Lab Sample ID: 1412317-002A
Client Sample ID: MW-65_12152014
Collection Date: 12/15/2014 1000h
Received Date: 12/16/2014 1020h

Test Code: 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 12/16/2014 1804h

Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

3440 South 700 West
Salt Lake City, UT 84119

Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Chloroform	67-66-3	100	3,210	-		
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	4,930	5,000	98.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	4,810	5,000	96.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	4,910	5,000	98.1	80-124	
Surr: Toluene-d8	2037-26-5	4,770	5,000	95.4	77-129	

~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 12/16/2014 1607h

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

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual		
Carbon tetrachloride	56-23-5	1.00	< 1.00			
Methylene chloride	75-09-2	1.00	22.8			
Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	48.8	50.00	97.5	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.5	50.00	97.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	48.9	50.00	97.8	80-124	
Surr: Toluene-d8	2037-26-5	46.5	50.00	93.0	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly GW 2014 Re Sample
Lab Sample ID: 1412317-003A
Client Sample ID: Trip Blank
Collection Date: 12/15/2014
Received Date: 12/16/2014 1020h **Test Code:** 8260-W

Analytical Results

VOAs by GC/MS Method 8260C/5030C

Analyzed: 12/16/2014 1529h

Units: µg/L

Dilution Factor: 1

Method: SW8260C

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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	49.8	50.00	99.6	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.9	50.00	99.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.3	50.00	98.7	80-124	
Surr: Toluene-d8	2037-26-5	46.8	50.00	93.7	77-129	

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



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

RE: December Monthly Ground Water 2014

Dear Garrin Palmer:

Lab Set ID: 1412240

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received 8 sample(s) on 12/11/2014 for the analyses presented in the following report.

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web: 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, email=jose@awal-labs.com, c=US Date: 2014.12.29 11:55:09 -07'00'
--------------------------	--

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly Ground Water 2014
Lab Set ID: 1412240
Date Received: 12/11/2014 900h

Lab Sample ID	Client Sample ID	Date Collected	Matrix	Analysis
1412240-001A	MW-11_12102014	12/10/2014 1120h	Aqueous	ICPMS Metals, Dissolved
1412240-002A	MW-25_12092014	12/9/2014 1055h	Aqueous	ICPMS Metals, Dissolved
1412240-003A	MW-26_12102014	12/10/2014 1445h	Aqueous	ICPMS Metals, Dissolved
1412240-003B	MW-26_12102014	12/10/2014 1445h	Aqueous	Nitrite/Nitrate (as N), E353.2
1412240-003C	MW-26_12102014	12/10/2014 1445h	Aqueous	Anions, E300.0
1412240-004A	MW-30_12102014	12/10/2014 1035h	Aqueous	ICPMS Metals, Dissolved
1412240-004B	MW-30_12102014	12/10/2014 1035h	Aqueous	Nitrite/Nitrate (as N), E353.2
1412240-004C	MW-30_12102014	12/10/2014 1035h	Aqueous	Anions, E300.0
1412240-005A	MW-31_12092014	12/9/2014 1300h	Aqueous	ICPMS Metals, Dissolved
1412240-005B	MW-31_12092014	12/9/2014 1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1412240-005C	MW-31_12092014	12/9/2014 1300h	Aqueous	Anions, E300.0
1412240-005D	MW-31_12092014	12/9/2014 1300h	Aqueous	Total Dissolved Solids, A2540C
1412240-006A	MW-35_12092014	12/9/2014 1440h	Aqueous	ICPMS Metals, Dissolved
1412240-007A	MW-65_12102014	12/10/2014 1120h	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: December Monthly Ground Water 2014
Lab Set ID: 1412240

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Jose Rocha
 QA Officer

Sample Receipt Information:

Date of Receipt: 12/11/2014
Date(s) of Collection: 12/9 – 12/10/2014
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
1412120-001D	Nitrate-Nitrite (as N)	MS/MSD /RPD	Sample matrix interference or sample non-homogeneity
1412240-003B	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.



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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412240
Project: December 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
Lab Sample ID: LCS-34713	Date Analyzed: 12/16/2014 2026h												
Test Code: 200.8-DIS	Date Prepared: 12/11/2014 1313h												
Cadmium	0.188	mg/L	E200.8	0.000193	0.000500	0.2000	0	94.2	85 - 115				
Selenium	0.199	mg/L	E200.8	0.0000634	0.00200	0.2000	0	99.3	85 - 115				
Thallium	0.182	mg/L	E200.8	0.0000242	0.00200	0.2000	0	91.2	85 - 115				
Uranium	0.187	mg/L	E200.8	0.0000112	0.00200	0.2000	0	93.3	85 - 115				
Lab Sample ID: LCS-34713	Date Analyzed: 12/17/2014 1930h												
Test Code: 200.8-DIS	Date Prepared: 12/11/2014 1313h												
Manganese	0.199	mg/L	E200.8	0.00153	0.00200	0.2000	0	99.6	85 - 115				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412240
Project: December 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
Lab Sample ID: MB-34713	Date Analyzed:	12/16/2014	2023h										
Test Code: 200.8-DIS	Date Prepared:	12/11/2014	1313h										
Cadmium	< 0.000500	mg/L	E200.8	0.000193	0.000500								
Selenium	< 0.00200	mg/L	E200.8	0.0000634	0.00200								
Lab Sample ID: MB-34713	Date Analyzed:	12/16/2014	2117h										
Test Code: 200.8-DIS	Date Prepared:	12/11/2014	1313h										
Thallium	< 0.000500	mg/L	E200.8	0.00000605	0.000500								
Lab Sample ID: MB-34713	Date Analyzed:	12/16/2014	2124h										
Test Code: 200.8-DIS	Date Prepared:	12/11/2014	1313h										
Uranium	< 0.000200	mg/L	E200.8	0.00000112	0.000200								
Lab Sample ID: MB-34713	Date Analyzed:	12/17/2014	1927h										
Test Code: 200.8-DIS	Date Prepared:	12/11/2014	1313h										
Manganese	< 0.00200	mg/L	E200.8	0.00153	0.00200								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412240
Project: December 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
Lab Sample ID: 1412240-006AMS		Date Analyzed: 12/16/2014 2058h											
Test Code: 200.8-DIS		Date Prepared: 12/11/2014 1313h											
Cadmium	0.173	mg/L	E200.8	0.000193	0.000500	0.2000	0	86.6	75 - 125				
Selenium	0.191	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0075	91.6	75 - 125				
Thallium	0.171	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000303	85.2	75 - 125				
Uranium	0.187	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0203	83.4	75 - 125				
Lab Sample ID: 1412240-006AMS		Date Analyzed: 12/17/2014 1942h											
Test Code: 200.8-DIS		Date Prepared: 12/11/2014 1313h											
Manganese	0.419	mg/L	E200.8	0.00153	0.00200	0.2000	0.232	93.6	75 - 125				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 1412240

Project: December 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
Lab Sample ID: 1412240-006AMSD	Date Analyzed:	12/16/2014	2101h										
Test Code:	200.8-DIS	Date Prepared:	12/11/2014	1313h									
Cadmium	0.177	mg/L	E200.8	0.000193	0.000500	0.2000	0	88.4	75 - 125	0.173	2.05	20	
Selenium	0.211	mg/L	E200.8	0.0000634	0.00200	0.2000	0.0075	102	75 - 125	0.191	10.0	20	
Thallium	0.172	mg/L	E200.8	0.0000242	0.00200	0.2000	0.000303	86.0	75 - 125	0.171	0.912	20	
Uranium	0.190	mg/L	E200.8	0.0000112	0.00200	0.2000	0.0203	84.7	75 - 125	0.187	1.46	20	
Lab Sample ID: 1412240-006AMSD	Date Analyzed:	12/17/2014	1946h										
Test Code:	200.8-DIS	Date Prepared:	12/11/2014	1313h									
Manganese	0.454	mg/L	E200.8	0.00153	0.00200	0.2000	0.232	111	75 - 125	0.419	7.87	20	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412240
Project: December 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
Lab Sample ID: 1412240-005DDUP	Date Analyzed: 12/12/2014 1200h												
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,430	mg/L	SM2540C	12.3	20.0					1450	1.39	5	



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412240
Project: December 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
Lab Sample ID: LCS-R74005		Date Analyzed: 12/12/2014 1358h											
Test Code: 300.0-W													
Chloride	5.13	mg/L	E300.0	0.00751	0.100	5.000	0	103	90 - 110				
Sulfate	5.34	mg/L	E300.0	0.0211	0.750	5.000	0	107	90 - 110				
Lab Sample ID: LCS-R74059		Date Analyzed: 12/15/2014 1422h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.03	mg/L	E353.2	0.00833	0.0100	1.000	0	103	90 - 110				
Lab Sample ID: LCS-R74034		Date Analyzed: 12/12/2014 1200h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	180	mg/L	SM2540C	6.13	10.0	205.0	0	87.8	80 - 120				



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412240
Project: December 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
Lab Sample ID: MB-R74005	Date Analyzed: 12/12/2014 1341h												
Test Code:	300.0-W												
Chloride	< 0.100	mg/L	E300.0	0.00751	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.0211	0.750								
Lab Sample ID: MB-R74059	Date Analyzed: 12/15/2014 1420h												
Test Code:	NO2/NO3-W-353.2												
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00833	0.0100								
Lab Sample ID: MB-R74034	Date Analyzed: 12/12/2014 1200h												
Test Code:	TDS-W-2540C												
Total Dissolved Solids	< 10.0	mg/L	SM2540C	6.13	10.0								



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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1412240
Project: December 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
Lab Sample ID: 1412240-003CMS		Date Analyzed: 12/12/2014 1630h											
Test Code: 300.0-W													
Chloride	5,120	mg/L	E300.0	7.51	100	5,000	65.5	101	90 - 110				
Sulfate	6,980	mg/L	E300.0	21.1	750	5,000	1860	102	90 - 110				
Lab Sample ID: 1412120-001DMS		Date Analyzed: 12/15/2014 1424h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.139	mg/L	E353.2	0.00833	0.0100	1.000	0	13.9	90 - 110				
Lab Sample ID: 1412240-003BMS		Date Analyzed: 12/15/2014 1440h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.19	mg/L	E353.2	0.00833	0.0100	1.000	0.0106	118	90 - 110				

¹ - 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: 1412240
Project: December 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
Lab Sample ID: 1412240-003CMSD		Date Analyzed: 12/12/2014 1646h											
Test Code: 300.0-W													
Chloride	5,180	mg/L	E300.0	7.51	100	5,000	65.5	102	90 - 110	5120	1.14	20	
Sulfate	7,270	mg/L	E300.0	21.1	750	5,000	1860	108	90 - 110	6980	4.04	20	
Lab Sample ID: 1412120-001DMSD		Date Analyzed: 12/15/2014 1426h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.303	mg/L	E353.2	0.00833	0.0100	1.000	0	30.3	90 - 110	0.139	74.4	10	'@
Lab Sample ID: 1412240-003BMSD		Date Analyzed: 12/15/2014 1441h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.24	mg/L	E353.2	0.00833	0.0100	1.000	0.0106	123	90 - 110	1.19	4.61	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.

American West Analytical Laboratories

REVISED
 12-16-14
 took off
 trip blank

UL
 Denison

WORK ORDER Summary

Work Order: **1412240** Page 1 of 2

Client: Energy Fuels Resources, Inc. **Due Date:** 12/22/2014
Client ID: DEN100 **Contact:** Garrin Palmer
Project: December 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, use ALK-W-2320B-LL test code. Groundwater project specific DL's: Assumes dilution of 2 for U, 5 for Be, Fe, Pb, and Tl, and 20X for others for required 200.8 PQLs. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Metals were field filtered;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1412240-001A	MW-11_12102014	12/10/2014 1120h	12/11/2014 0900h	200.8-DIS 1 SEL Analytes: MN	Aqueous	df / dis metals	1
				200.8-DIS-PR		df / dis metals	
1412240-002A	MW-25_12092014	12/9/2014 1055h	12/11/2014 0900h	200.8-DIS 2 SEL Analytes: CD U	Aqueous	df / dis metals	1
				200.8-DIS-PR		df / dis metals	
1412240-003A	MW-26_12102014	12/10/2014 1445h	12/11/2014 0900h	200.8-DIS 1 SEL Analytes: U	Aqueous	df / dis metals	1
				200.8-DIS-PR		df / dis metals	
1412240-003B				NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N		df / no2/no3	
1412240-003C				300.0-W 1 SEL Analytes: CL		df / cl	
1412240-003D						vOC	3
1412240-004A	MW-30_12102014	12/10/2014 1035h	12/11/2014 0900h	200.8-DIS 2 SEL Analytes: SE U	Aqueous	df / dis metals	1
				200.8-DIS-PR		df / dis metals	
1412240-004B				NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N		df / no2/no3	
1412240-004C				300.0-W 1 SEL Analytes: CL		df / cl	
1412240-005A	MW-31_12092014	12/9/2014 1300h	12/11/2014 0900h	200.8-DIS 1 SEL Analytes: SE	Aqueous	df / dis metals	1
				200.8-DIS-PR		df / dis metals	
1412240-005B				NO2/NO3-W-353.2 1 SEL Analytes: NO3NO2N		df / no2/no3	
1412240-005C				300.0-W 2 SEL Analytes: CL SO4		df / cl	
1412240-005D				TDS-W-2540C 1 SEL Analytes: TDS		df / tds	

WORK ORDER Summary

Work Order: **1412240**

Page 2 of 2

Client: Energy Fuels Resources, Inc.

Due Date: 12/22/2014

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1412240-006A	MW-35_12092014	12/9/2014 1440h	12/11/2014 0900h	200.8-DIS <i>4 SEL Analytes: MN SE TL U</i>	Aqueous	df / dis metals	1
				200.8-DIS-PR		df / dis metals	
1412240-007A	MW-65_12102014	12/10/2014 1120h	12/11/2014 0900h	200.8-DIS <i>1 SEL Analytes: MN</i>	Aqueous	df / dis metals	1
				200.8-DIS-PR		df / dis metals	
1412240-008A	Trip Blank	12/10/2014	12/11/2014 0900h		Aqueous	vOC	3



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.

1412240
 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; KWeinck@energyfuels.com; dturk@energyfuels.com**
 PROJECT NAME: **December 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 ₄ (4500 or 300.0)	VOCs Chloroform, Dichloromethane, Carbon tetrachloride (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	LABORATORY USE ONLY	
																1	2
1 MW-11_12102014	12/10/2014	1120	1	W		X										1 SHIPPED OR HAND DELIVERED	
3 MW-25_12092014	12/09/2014	1055	1	W					X	X						2 AMBIENT OR CHILLED	
4 MW-26_12102014	12/10/2014	1445	6	W	X	X	X	X					X		3 TEMPERATURE 3.5 °C	4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED)	
5 MW-30_12102014	12/10/2014	1035	3	W	X	X	X	X	X							5 PROPERLY PRESERVED	
6 MW-31_12092014	12/09/2014	1300	4	W	X	X	X		X			X				6 CHECKED AT BENCH	
7 MW-35_12092014	12/09/2014	1440	1	W		X		X	X	X						6 RECEIVED WITHIN HOLDING TIMES	
8 MW-65_12102014	12/10/2014	1120	1	W		X										1 PRESENT ON OUTER PACKAGE	
9 TRIP BLANK	12/10/2014		3	W										X		2 UNBROKEN ON OUTER PACKAGE	
10 TEMP BLANK	12/10/2014		1	W												3 PRESENT ON SAMPLE	
11																4 UNBROKEN ON SAMPLE	
12																DISCREPANCIES BETWEEN SAMPLE LABELS AND COC RECORD?	

RELINQUISHED BY: SIGNATURE <i>Garrin Palmer</i>	DATE: 12/11/14	RECEIVED BY: SIGNATURE <i>Tanner Holliday</i>	DATE: 12/11/14	SPECIAL INSTRUCTIONS: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list. 12/16/14 cancelled trip blank per Kathy site we just voc sample in analysis.
PRINT NAME: Garrin Palmer	TIME: 0900	PRINT NAME: Tanner Holliday	TIME: 900	
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:	

el

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7										
Ammonia	pH <2 H ₂ SO ₄																	
COD	pH <2 H ₂ SO ₄																	
Cyanide	pH >12 NaOH																	
Metals	pH <2 HNO ₃	yes																
NO ₂ & NO ₃	pH <2 H ₂ SO ₄			yes	yes	yes												
O & G	pH <2 HCL																	
Phenols	pH <2 H ₂ SO ₄																	
Sulfide	pH > 9NaOH, Zn Acetate																	
TKN	pH <2 H ₂ SO ₄																	
T PO ₄	pH <2 H ₂ SO ₄																	

- 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: December Monthly GW 2014 Re Sample

Dear Garrin Palmer:

Lab Set ID: 1412317

3440 South 700 West
Salt Lake City, UT 84119

American West Analytical Laboratories received 3 sample(s) on 12/16/2014 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
web: 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, email=jose@awal-labs.com, c=US Date: 2014.12.29 11:50:23 -07'00'

Laboratory Director or designee



SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: December Monthly GW 2014 Re Sample
Lab Set ID: 1412317
Date Received: 12/16/2014 1020h

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Date Collected</u>	<u>Matrix</u>	<u>Analysis</u>
1412317-001A	MW-26_12152014	12/15/2014 1000h	Aqueous	VOA by GC/MS Method 8260C/5030C
1412317-002A	MW-65_12152014	12/15/2014 1000h	Aqueous	VOA by GC/MS Method 8260C/5030C
1412317-003A	Trip Blank	12/15/2014	Aqueous	VOA by GC/MS Method 8260C/5030C

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer



Volatile Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: December Monthly GW 2014 Re Sample
Lab Set ID: 1412317

3440 South 700 West
Salt Lake City, UT 84119

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 12/16/2014
Date of Collection: 12/15/2014
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: 1412317

Project: December Monthly GW 2014 Re Sample

Contact: Garrin Palmer

Dept: MSVOA

QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-1 121614A		Date Analyzed: 12/16/2014 743h											
Test Code: 8260-W													
Chloroform	16.5	µg/L	SW8260C	0.153	2.00	20.00	0	82.3	67 - 132				
Methylene chloride	14.2	µg/L	SW8260C	0.172	2.00	20.00	0	71.2	32 - 185				
Surr: 1,2-Dichloroethane-d4	45.8	µg/L	SW8260C			50.00		91.6	76 - 138				
Surr: 4-Bromofluorobenzene	48.1	µg/L	SW8260C			50.00		96.2	77 - 121				
Surr: Dibromofluoromethane	47.7	µg/L	SW8260C			50.00		95.4	67 - 128				
Surr: Toluene-d8	47.7	µg/L	SW8260C			50.00		95.5	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: 1412317

Project: December Monthly GW 2014 Re Sample

Contact: Garrin Palmer

Dept: MSVOA

QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-1 121614A		Date Analyzed: 12/16/2014 822h											
Test Code: 8260-W													
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.504	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.153	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.172	1.00								
Surr: 1,2-Dichloroethane-d4	48.0	µg/L	SW8260C			50.00		96.1	76 - 138				
Surr: 4-Bromofluorobenzene	49.3	µg/L	SW8260C			50.00		98.6	77 - 121				
Surr: Dibromofluoromethane	48.0	µg/L	SW8260C			50.00		95.9	67 - 128				
Surr: Toluene-d8	47.3	µg/L	SW8260C			50.00		94.7	81 - 135				



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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.

Lab Set ID: 1412317

Project: December Monthly GW 2014 Re Sample

Contact: Garrin Palmer

Dept: MSVOA

QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 1412317-001AMS		Date Analyzed: 12/16/2014 1725h											
Test Code: 8260-W													
Chloroform	3,710	µg/L	SW8260C	15.3	200	2,000	2280	71.9	50 - 146				
Methylene chloride	1,490	µg/L	SW8260C	17.2	200	2,000	28.4	73.0	30 - 192				
Surr: 1,2-Dichloroethane-d4	4,730	µg/L	SW8260C			5,000		94.7	72 - 151				
Surr: 4-Bromofluorobenzene	4,800	µg/L	SW8260C			5,000		95.9	80 - 128				
Surr: Dibromofluoromethane	4,790	µg/L	SW8260C			5,000		95.8	80 - 124				
Surr: Toluene-d8	4,600	µg/L	SW8260C			5,000		92.1	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: 1412317

Project: December Monthly GW 2014 Re Sample

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
Lab Sample ID: 1412317-001AMSD		Date Analyzed: 12/16/2014 1745h											
Test Code: 8260-W													
Chloroform	3,740	µg/L	SW8260C	15.3	200	2,000	2280	73.4	50 - 146	3710	0.805	25	
Methylene chloride	1,520	µg/L	SW8260C	17.2	200	2,000	28.4	74.8	30 - 192	1490	2.39	25	
Surr: 1,2-Dichloroethane-d4	4,650	µg/L	SW8260C			5,000		93.0	72 - 151				
Surr: 4-Bromofluorobenzene	4,710	µg/L	SW8260C			5,000		94.3	80 - 128				
Surr: Dibromofluoromethane	4,720	µg/L	SW8260C			5,000		94.4	80 - 124				
Surr: Toluene-d8	4,630	µg/L	SW8260C			5,000		92.6	77 - 129				

American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1412317**

Page 1 of 1

Client: Energy Fuels Resources, Inc.

Due Date: 12/26/2014

Client ID: DEN100

Contact: Garrin Palmer

Project: December Monthly GW 2014 Re Sample

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). EDD-Denison and EIM-Locus. Email Group. No Charge.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel Storage	
1412317-001A	MW-26_12152014	12/15/2014 1000h	12/16/2014 1020h	8260-W	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>							
1412317-002A	MW-65_12152014	12/15/2014 1000h	12/16/2014 1020h	8260-W	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 3 / # of Surr: 4</i>							
1412317-003A	Trip Blank	12/15/2014	12/16/2014 1020h	8260-W	Aqueous	VOCFridge	3
<i>Test Group: 8260-W-Custom; # of Analytes: 3 / # 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.

14/12317
 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; KWeinle@energyfuels.com; dturk@energyfuels.com**
 Project Name: **December Monthly GW 2014 Re Sample**
 Project #:
 PO #:
 Sampler Name: **Garrin Palmer**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:											
3		Standard															
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 ₄ (4500 or 300.0)	VOCs Chloroform, Dichloromethane, Carbon tetrachloride (8260C)	Known Hazards & Sample Comments	Laboratory Use Only	
																Samples Were: 1. Shipped or hand delivered? <u>WPS</u> 2. Ambient or Chilled? <u>Chilled</u> 3. Temperature <u>4.0 °C</u> 4. Received Broken/Leaking (Improperly Sealed)? <u>N</u> 5. Properly Preserved? <u>Y</u> Checked at bench? <u>Y</u> 6. Received Within Holding Times? <u>Y</u>	
MW-26_12152014	12/15/14	1000												X		1. Present on Outer Package? <u>Y</u> N NA 2. Unbroken on Outer Package? <u>Y</u> N NA 3. Present on Sample? <u>Y</u> N NA 4. Unbroken on Sample? <u>Y</u> N NA Discrepancies Between Sample Labels and CGC Record? <u>Y</u> N	
MW-65_12152014	12/15/14	1000												X			
Trip Blank	12/15/14													X			

Relinquished by: Signature: <i>Garrin Palmer</i>	Date: 12/15/14	Received by: Signature: <i>Elina Ampico</i>	Date: 12/16/14
Print Name: Garrin Palmer	Time: 1100	Print Name: Elina Ampico	Time: 1020
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.



a member of **The GEL Group** INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

January 28, 2015

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 365596

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 22, 2015. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4487.

Sincerely,

Sylainna Rivers
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 365596**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 365596**

January 28, 2015

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The sample arrived at GEL Laboratories LLC, Charleston, South Carolina on January 22, 2015 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
365596001	MW-35_12092014

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.



Sylainna Rivers
Project Manager

365596



CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories **Contact:** Garrin Palmer
2040 Savage Road Ph: 435 678 2221
Charleston, SC 29407 gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name		Samplers Signature
December Monthly GW 2014	Garrin Palmer		<i>Garrin Palmer</i>
Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-35_12092014	12/9/2014	1440	Gross Alpha
			* Please rush sample results. Thanks
Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com			

Relinquished By:(Signature) <i>Garrin Palmer</i>	Date/Time 11/21/15/1100	Received By:(Signature) <i>[Signature]</i>	Date/Time 11/22/15 0915
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DNMI</u>		SDG/AR/COC/Work Order: <u>345596 / 345597</u>
Received By: <u>Jacob Melone</u>		Date Received: <u>1/22/15</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"/>

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"/>	10°C Preservation Method: Ice bags Blue ice Dry ice <u>None</u> Other (describe) *all temperatures are recorded in Celsius
2a Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): <u>130462862</u>
3 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 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"/>		<input checked="" type="checkbox"/>	<u>DNMI 1/22/15</u>
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 <u>UPS</u> Field Services Courier Other <u>1Z 187 Y4Y 01 9886 2735</u>

Comments (Use Continuation Form if needed):

GEL Laboratories LLC – Login Review Report

Report Date: 28-JAN-15
 Work Order: 365596
 Page 1 of 2

GEL Work Order/SDG: 365596

Work Order Due Date: 29-JAN-15

Collector: C

Client SDG: 365596

Package Due Date: 28-JAN-15

Prelogin #: 20150126374

Project Manager: Sylainna Rivers

EDD Due Date: 29-JAN-15

Project Workdef ID: 1294356

Project Name: DNMI00100 White Mesa Mill GW

Due Date: 29-JAN-15

SDG Status: Closed

Purchase Order: DW16138

SXK1

Logged by:

Package Level: LEVEL3

EDD Format: EIM_DNMI

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
365596001	MW-35_12092014		09-DEC-14 14:40	22-JAN-15 09:15	-2	1	GROUND WATER		7		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-35_12092014	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Temperature (C) 10	

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: 28-JAN-15
Work Order: 365596
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 28 January 2015

State	Certification
Alaska	UST-110
Arkansas	88-0651
CLIA	42D0904046
California	2940 Interim
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 SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA150001
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	SC000122014-16
Vermont	VT87156
Virginia NELAP	460202
Washington	C780-12

**Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 365596**

Method/Analysis Information

Product: GFPC, Total Alpha Radium, Liquid
Analytical Method: EPA 900.1 Modified
Analytical Batch Number: 1452170

Sample ID	Client ID
365596001	MW-35_12092014
1203249591	MB for batch 1452170
1203249595	Laboratory Control Sample (LCS)
1203249592	365596001(MW-35_12092014) Sample Duplicate (DUP)
1203249593	365596001(MW-35_12092014) Matrix Spike (MS)
1203249594	365596001(MW-35_12092014) 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: 365596001 (MW-35_12092014).

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, 1203249593 (MW-35_12092014MS) and 1203249594 (MW-35_12092014MSD), 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

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Qualifier Definition Report for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 365596 GEL Work Order: 365596

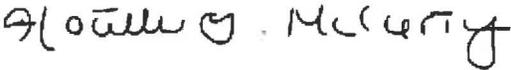
The Qualifiers in this report are defined as follows:

- * 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: 28 JAN 2015

Title: Analyst II

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QC Summary

Report Date: January 28, 2015

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Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado

Contact: Ms. Kathy Weinel

Workorder: 365596

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	1452170										
QC1203249592	365596001	DUP									
Gross Radium Alpha		4.54		5.02	pCi/L	10.0		(0%-20%)	AF1	01/28/15	10:26
	Uncertainty	+/-0.477		+/-0.544							
QC1203249595	LCS										
Gross Radium Alpha	413			421	pCi/L		102	(75%-125%)		01/28/15	10:26
	Uncertainty			+/-4.40							
QC1203249591	MB										
Gross Radium Alpha			U	-0.0849	pCi/L					01/28/15	10:26
	Uncertainty			+/-0.107							
QC1203249593	365596001	MS									
Gross Radium Alpha	1690	4.54		1560	pCi/L		92.3	(75%-125%)		01/28/15	10:26
	Uncertainty	+/-0.477		+/-17.0							
QC1203249594	365596001	MSD									
Gross Radium Alpha	1690	4.54		1560	pCi/L	0.0292	92.3	(0%-20%)		01/28/15	10:26
	Uncertainty	+/-0.477		+/-17.0							

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

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QC Summary

Workorder: 365596

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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	11/17/2014	181.80	210	Y	1909	1909	0.00	6.86	6.87	0.15	14.04	14.04	0.00	118	116	1.71	0	0	N	0.00
MW-02	11/17/2014	113.74	125	Y	1440	1435	0.35	6.77	6.78	0.15	13.73	13.71	0.15	246	246	0.00	0	0	N	0.00
MW-03	11/17/2014	49.93	50	Y	5477	5415	1.14	6.39	6.37	0.31	14.20	14.30	0.70	258	259	0.39	0	0	N	0.00
MW-03A	11/12/2014	65.55	70	Pumped dry	5920	5963	0.72	6.37	6.41	0.63	13.98	14.10	0.85	NM	NC	NC	NM	NM	N	NC
MW-05	11/11/2014	195.29	200	Y	3001	3003	0.07	6.92	6.94	0.29	14.95	14.98	0.20	250	242	3.25	2.1	2.2	N	4.65
MW-11	11/17/2014	261.50	270	Y	2825	2828	0.11	7.16	7.16	0.00	14.55	14.52	0.21	36	36	0.00	0	0	N	0.00
MW-12	11/11/2014	133.78	135	Y	4288	4292	0.09	6.24	6.25	0.16	14.72	14.70	0.14	280	279	0.36	0	0	N	0.00
MW-14	11/12/2014	154.13	160	Y	3973	3970	0.08	6.25	6.25	0.00	14.51	14.50	0.07	292	291	0.34	0	0	N	0.00
MW-15	11/12/2014	186.87	190	Y	4341	4341	0.00	6.42	6.41	0.16	14.64	14.65	0.07	299	298	0.34	0	0	N	0.00
MW-17	11/12/2014	240.25	245	Y	3968	3968	0.00	6.54	6.53	0.15	14.46	14.43	0.21	285	285	0.00	0	0	N	0.00
MW-18	11/10/2014	379.16	390	Y	3526	3529	0.09	6.14	6.10	0.65	14.45	14.47	0.14	293	290	1.03	6.8	6.8	Y	0.00
MW-19	11/11/2014	537.74	540	Y	1553	1555	0.13	6.33	6.33	0.00	15.18	15.16	0.13	266	266	0.00	5.3	5.4	Y	1.87
MW-20	12/3/2014	N/A	N/A	Bailed dry	5831	5994	2.76	7.90	7.86	0.51	14.23	14.25	0.14	NM	NC	NC	NM	NM	N	NC
MW-22	11/18/2014	283.10	300	Y	7344	7343	0.01	4.49	4.50	0.22	14.51	14.53	0.14	382	383	0.26	0	0	N	0.00
MW-23	11/19/2014	112.39	150	Pumped dry	3885	3890	0.13	6.70	6.69	0.15	14.06	14.00	0.43	NM	NC	NC	NM	NM	N	NC
MW-24	11/19/2014	42.71	60	Pumped dry	4423	4430	0.16	5.75	5.69	1.05	15.10	15.20	0.66	NM	NC	NC	NM	NM	N	NC
MW-25	11/4/2014	240.13	250	Y	3166	3164	0.06	6.31	6.31	0.00	14.67	14.72	0.34	288	286	0.70	12.2	12.0	Y	1.65
MW-26	11/18/2014		NA		3469		NC	6.09		NC	15.08		NC	278		NC	0		N	NC
MW-27	11/5/2014	247.95	250	Y	1492	1492	0.00	6.65	6.70	0.75	14.80	14.83	0.20	281	280	0.36	1.4	1.5	N	6.90
MW-28	11/5/2014	206.67	210	Y	4051	4045	0.15	5.72	5.72	0.00	14.70	14.71	0.07	300	296	1.34	2.1	2.1	N	0.00
MW-29	11/10/2014	157.98	180	Y	4731	4731	0.00	6.14	6.11	0.49	14.89	14.87	0.13	236	230	2.58	9.3	9.5	Y	2.13
MW-30	11/10/2014	210.94	220	Y	2030	2010	0.99	6.20	6.22	0.32	16.65	16.70	0.30	294	290	1.37	0	0	N	0.00
MW-31	11/4/2014	370.69	375	Y	2113	2113	0.00	6.69	6.69	0.00	14.57	14.57	0.00	264	264	0.00	4.1	4.0	N	2.47
MW-32	11/5/2014	337.93	345	Y	3739	3794	1.46	6.10	6.08	0.33	15.40	15.30	0.65	142	139	2.14	2.1	2.1	N	0.00
MW-35	11/12/2014	74.62	80	Y	4226	4226	0.00	6.35	6.35	0.00	14.42	14.40	0.14	277	279	0.72	4.8	4.8	N	0.00
MW-36	11/12/2014	67.94	70	Y	5004	5004	0.00	6.56	6.55	0.15	14.49	14.53	0.28	283	283	0.00	0	0	N	0.00
MW-37	12/3/2014	N/A	N/A	Bailed dry	4425	4437	0.27	6.77	6.75	0.30	14.68	14.64	0.27	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(%)
Accelerated October Monthly																				
MW-11	10/6/2014	261.80	270	Y	2879	2883	0.14	7.48	7.45	0.40	15.45	15.50	0.32	164	159	3.10	2.0	2.0	Y	0.00
MW-14	10/7/2014	152.86	155	Y	3859	3859	0.00	6.47	6.46	0.15	14.69	14.65	0.27	304	304	0.00	0	0	Y	0.00
MW-25	10/6/2014	241.64	250	Y	3108	3101	0.23	6.49	6.49	0.00	14.90	14.89	0.07	315	313	0.64	17	16	N	6.06
MW-26	10/7/2014		NA		3265		NC	6.85		NC	16.77		NC	240		NC	1.5		Y	NC
MW-30	10/7/2014	208.53	210	Y	2038	2030	0.39	6.94	6.92	0.29	14.84	14.78	0.41	272	270	0.74	0	0	Y	0.00
MW-31	10/6/2014	371.45	375	Y	2004	2004	0.00	6.99	6.97	0.29	15.83	15.75	0.51	265	264	0.38	38	38	N	0.00
MW-35	10/6/2014	73.18	75	Y	4123	4130	0.17	6.53	6.54	0.15	15.11	15.18	0.46	248	240	3.28	4.7	4.6	Y	2.15
Accelerated December Monthly																				
MW-11	12/10/2014	262.46	270	Y	2942	2945	0.10	7.25	7.24	0.14	14.20	14.18	0.14	221	217	1.83	1.0	1.0	Y	0.00
MW-14	12/10/2014	152.50	155	Y	3852	3856	0.10	6.40	6.40	0.00	14.00	14.02	0.14	262	265	1.14	0	0	Y	0.00
MW-25	12/9/2014	238.45	240	Y	3179	3180	0.03	6.35	6.36	0.16	14.87	14.85	0.13	372	370	0.54	0	0	Y	0.00
MW-26	12/10/2014		NA		3416		NC	6.25		NC	14.31		NC	308		NC	0.0		Y	NC
MW-26 Resample	12/15/2014		NA		3451		NC	6.44		NC	15.06		NC	266		NC	0.1		Y	NC
MW-30	12/10/2014	211.84	215	Y	2050	2041	0.44	6.78	6.77	0.15	14.65	14.61	0.27	348	346	0.58	0	0	Y	0.00
MW-31	12/9/2014	370.43	380	Y	2117	2116	0.05	6.70	6.73	0.45	14.30	14.35	0.35	355	355	0.00	0	0	Y	0.00
MW-35	12/9/2014	74.50	75	Y	4120	4123	0.07	6.25	6.25	0.00	14.32	14.30	0.14	294	292	0.68	0	0	Y	0.00

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only. MW-26 is a continuously pumped well.

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Toluene	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Tetrahydrofuran	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Xylenes, Total	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Carbon tetrachloride	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Acetone	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Chloroform	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Benzene	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Chloromethane	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Methylene chloride	11/4/2014	11/10/2014	6	14	OK
Trip Blank	2-Butanone	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Naphthalene	11/4/2014	11/10/2014	6	14	OK
Trip Blank	Toluene	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Tetrahydrofuran	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Xylenes, Total	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Carbon tetrachloride	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Acetone	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Chloroform	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Benzene	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Chloromethane	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Methylene chloride	11/10/2014	11/17/2014	7	14	OK
Trip Blank	2-Butanone	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Naphthalene	11/10/2014	11/17/2014	7	14	OK
Trip Blank	Toluene	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Tetrahydrofuran	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Xylenes, Total	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Carbon tetrachloride	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Acetone	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Chloroform	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Benzene	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Chloromethane	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Methylene chloride	11/17/2014	11/21/2014	4	14	OK
Trip Blank	2-Butanone	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Naphthalene	11/17/2014	11/21/2014	4	14	OK
Trip Blank	Toluene	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Tetrahydrofuran	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Xylenes, Total	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Carbon tetrachloride	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Acetone	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Chloroform	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Benzene	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Chloromethane	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Methylene chloride	12/3/2014	12/5/2014	2	14	OK
Trip Blank	2-Butanone	12/3/2014	12/5/2014	2	14	OK
Trip Blank	Naphthalene	12/3/2014	12/5/2014	2	14	OK
MW-01	Bicarbonate (as CaCO ₃)	11/17/2014	11/24/2014	7	14	OK
MW-01	Carbonate (as CaCO ₃)	11/17/2014	11/24/2014	7	14	OK
MW-01	Nitrate/Nitrite (as N)	11/17/2014	12/2/2014	15	28	OK
MW-01	Total Dissolved Solids	11/17/2014	11/21/2014	4	7	OK
MW-01	Benzene	11/17/2014	11/21/2014	4	14	OK
MW-01	Chloromethane	11/17/2014	11/21/2014	4	14	OK
MW-01	Iron	11/17/2014	12/16/2014	29	180	OK
MW-01	Lead	11/17/2014	12/16/2014	29	180	OK
MW-01	Magnesium	11/17/2014	12/2/2014	15	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-01	Manganese	11/17/2014	12/12/2014	25	180	OK
MW-01	Mercury	11/17/2014	11/26/2014	9	180	OK
MW-01	Molybdenum	11/17/2014	12/12/2014	25	180	OK
MW-01	Nickel	11/17/2014	12/12/2014	25	180	OK
MW-01	Potassium	11/17/2014	12/2/2014	15	180	OK
MW-01	Silver	11/17/2014	12/12/2014	25	180	OK
MW-01	Sodium	11/17/2014	12/2/2014	15	180	OK
MW-01	Thallium	11/17/2014	12/16/2014	29	180	OK
MW-01	Tin	11/17/2014	12/12/2014	25	180	OK
MW-01	Arsenic	11/17/2014	12/12/2014	25	180	OK
MW-01	Beryllium	11/17/2014	12/16/2014	29	180	OK
MW-01	Cadmium	11/17/2014	12/12/2014	25	180	OK
MW-01	Chromium	11/17/2014	12/12/2014	25	180	OK
MW-01	Cobalt	11/17/2014	12/12/2014	25	180	OK
MW-01	Copper	11/17/2014	12/12/2014	25	180	OK
MW-01	Uranium	11/17/2014	12/16/2014	29	180	OK
MW-01	Vanadium	11/17/2014	12/2/2014	15	180	OK
MW-01	Zinc	11/17/2014	12/12/2014	25	180	OK
MW-01	Calcium	11/17/2014	12/2/2014	15	180	OK
MW-01	Methylene chloride	11/17/2014	11/21/2014	4	14	OK
MW-01	Selenium	11/17/2014	12/12/2014	25	180	OK
MW-01	2-Butanone	11/17/2014	11/21/2014	4	14	OK
MW-01	Naphthalene	11/17/2014	11/21/2014	4	14	OK
MW-01	Toluene	11/17/2014	11/21/2014	4	14	OK
MW-01	Tetrahydrofuran	11/17/2014	11/21/2014	4	14	OK
MW-01	Xylenes, Total	11/17/2014	11/21/2014	4	14	OK
MW-01	Sulfate	11/17/2014	12/1/2014	14	28	OK
MW-01	Chloride	11/17/2014	12/1/2014	14	28	OK
MW-01	Fluoride	11/17/2014	12/2/2014	15	27	OK
MW-01	Carbon tetrachloride	11/17/2014	11/21/2014	4	14	OK
MW-01	Acetone	11/17/2014	11/21/2014	4	14	OK
MW-01	Chloroform	11/17/2014	11/21/2014	4	14	OK
MW-01	Gross Radium Alpha	11/17/2014	12/18/2014	31	180	OK
MW-01	Ammonia as N	11/17/2014	11/28/2014	11	28	OK
MW-02	Toluene	11/17/2014	11/21/2014	4	14	OK
MW-02	Tetrahydrofuran	11/17/2014	11/21/2014	4	14	OK
MW-02	Xylenes, Total	11/17/2014	11/21/2014	4	14	OK
MW-02	Sulfate	11/17/2014	12/1/2014	14	28	OK
MW-02	Chloride	11/17/2014	12/2/2014	15	28	OK
MW-02	Fluoride	11/17/2014	12/2/2014	15	27	OK
MW-02	Carbon tetrachloride	11/17/2014	11/21/2014	4	14	OK
MW-02	Acetone	11/17/2014	11/21/2014	4	14	OK
MW-02	Chloroform	11/17/2014	11/21/2014	4	14	OK
MW-02	Benzene	11/17/2014	11/21/2014	4	14	OK
MW-02	Chloromethane	11/17/2014	11/21/2014	4	14	OK
MW-02	Molybdenum	11/17/2014	12/12/2014	25	180	OK
MW-02	Nickel	11/17/2014	12/12/2014	25	180	OK
MW-02	Potassium	11/17/2014	12/2/2014	15	180	OK
MW-02	Silver	11/17/2014	12/12/2014	25	180	OK
MW-02	Sodium	11/17/2014	12/2/2014	15	180	OK
MW-02	Thallium	11/17/2014	12/16/2014	29	180	OK
MW-02	Tin	11/17/2014	12/12/2014	25	180	OK
MW-02	Arsenic	11/17/2014	12/12/2014	25	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-02	Beryllium	11/17/2014	12/16/2014	29	180	OK
MW-02	Cadmium	11/17/2014	12/12/2014	25	180	OK
MW-02	Chromium	11/17/2014	12/12/2014	25	180	OK
MW-02	Cobalt	11/17/2014	12/12/2014	25	180	OK
MW-02	Copper	11/17/2014	12/12/2014	25	180	OK
MW-02	Uranium	11/17/2014	12/16/2014	29	180	OK
MW-02	Vanadium	11/17/2014	12/2/2014	15	180	OK
MW-02	Zinc	11/17/2014	12/12/2014	25	180	OK
MW-02	Calcium	11/17/2014	12/2/2014	15	180	OK
MW-02	Methylene chloride	11/17/2014	11/21/2014	4	14	OK
MW-02	Selenium	11/17/2014	12/12/2014	25	180	OK
MW-02	2-Butanone	11/17/2014	11/21/2014	4	14	OK
MW-02	Naphthalene	11/17/2014	11/21/2014	4	14	OK
MW-02	Bicarbonate (as CaCO3)	11/17/2014	11/24/2014	7	14	OK
MW-02	Carbonate (as CaCO3)	11/17/2014	11/24/2014	7	14	OK
MW-02	Nitrate/Nitrite (as N)	11/17/2014	12/2/2014	15	28	OK
MW-02	Total Dissolved Solids	11/17/2014	11/21/2014	4	7	OK
MW-02	Iron	11/17/2014	12/16/2014	29	180	OK
MW-02	Lead	11/17/2014	12/16/2014	29	180	OK
MW-02	Magnesium	11/17/2014	12/2/2014	15	180	OK
MW-02	Manganese	11/17/2014	12/12/2014	25	180	OK
MW-02	Mercury	11/17/2014	11/26/2014	9	180	OK
MW-02	Gross Radium Alpha	11/17/2014	12/18/2014	31	180	OK
MW-02	Ammonia as N	11/17/2014	11/28/2014	11	28	OK
MW-03	Nitrate/Nitrite (as N)	11/17/2014	12/2/2014	15	28	OK
MW-03	Total Dissolved Solids	11/17/2014	11/21/2014	4	7	OK
MW-03	Toluene	11/17/2014	11/21/2014	4	14	OK
MW-03	Tetrahydrofuran	11/17/2014	11/21/2014	4	14	OK
MW-03	Xylenes, Total	11/17/2014	11/21/2014	4	14	OK
MW-03	Sulfate	11/17/2014	12/1/2014	14	28	OK
MW-03	Chloride	11/17/2014	12/1/2014	14	28	OK
MW-03	Fluoride	11/17/2014	12/2/2014	15	27	OK
MW-03	Carbon tetrachloride	11/17/2014	11/21/2014	4	14	OK
MW-03	Acetone	11/17/2014	11/21/2014	4	14	OK
MW-03	Chloroform	11/17/2014	11/21/2014	4	14	OK
MW-03	Benzene	11/17/2014	11/21/2014	4	14	OK
MW-03	Chloromethane	11/17/2014	11/21/2014	4	14	OK
MW-03	Iron	11/17/2014	12/16/2014	29	180	OK
MW-03	Lead	11/17/2014	12/16/2014	29	180	OK
MW-03	Magnesium	11/17/2014	12/2/2014	15	180	OK
MW-03	Manganese	11/17/2014	12/12/2014	25	180	OK
MW-03	Mercury	11/17/2014	11/26/2014	9	180	OK
MW-03	Molybdenum	11/17/2014	12/12/2014	25	180	OK
MW-03	Nickel	11/17/2014	12/12/2014	25	180	OK
MW-03	Potassium	11/17/2014	12/2/2014	15	180	OK
MW-03	Silver	11/17/2014	12/12/2014	25	180	OK
MW-03	Sodium	11/17/2014	12/2/2014	15	180	OK
MW-03	Thallium	11/17/2014	12/16/2014	29	180	OK
MW-03	Tin	11/17/2014	12/12/2014	25	180	OK
MW-03	Arsenic	11/17/2014	12/12/2014	25	180	OK
MW-03	Beryllium	11/17/2014	12/16/2014	29	180	OK
MW-03	Cadmium	11/17/2014	12/12/2014	25	180	OK
MW-03	Chromium	11/17/2014	12/12/2014	25	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-03	Cobalt	11/17/2014	12/12/2014	25	180	OK
MW-03	Copper	11/17/2014	12/12/2014	25	180	OK
MW-03	Uranium	11/17/2014	12/16/2014	29	180	OK
MW-03	Vanadium	11/17/2014	12/2/2014	15	180	OK
MW-03	Zinc	11/17/2014	12/12/2014	25	180	OK
MW-03	Calcium	11/17/2014	12/2/2014	15	180	OK
MW-03	Methylene chloride	11/17/2014	11/21/2014	4	14	OK
MW-03	Selenium	11/17/2014	12/12/2014	25	180	OK
MW-03	2-Butanone	11/17/2014	11/21/2014	4	14	OK
MW-03	Naphthalene	11/17/2014	11/21/2014	4	14	OK
MW-03	Bicarbonate (as CaCO3)	11/17/2014	11/24/2014	7	14	OK
MW-03	Carbonate (as CaCO3)	11/17/2014	11/24/2014	7	14	OK
MW-03	Gross Radium Alpha	11/17/2014	12/18/2014	31	180	OK
MW-03	Ammonia as N	11/17/2014	11/28/2014	11	28	OK
MW-03a	Toluene	11/13/2014	11/17/2014	4	14	OK
MW-03a	Tetrahydrofuran	11/13/2014	11/17/2014	4	14	OK
MW-03a	Xylenes, Total	11/13/2014	11/17/2014	4	14	OK
MW-03a	Sulfate	11/13/2014	11/17/2014	4	28	OK
MW-03a	Chloride	11/13/2014	11/17/2014	4	28	OK
MW-03a	Fluoride	11/13/2014	11/18/2014	5	27	OK
MW-03a	Carbon tetrachloride	11/13/2014	11/17/2014	4	14	OK
MW-03a	Acetone	11/13/2014	11/17/2014	4	14	OK
MW-03a	Chloroform	11/13/2014	11/17/2014	4	14	OK
MW-03a	Benzene	11/13/2014	11/17/2014	4	14	OK
MW-03a	Chloromethane	11/13/2014	11/17/2014	4	14	OK
MW-03a	Iron	11/13/2014	12/12/2014	29	180	OK
MW-03a	Lead	11/13/2014	12/12/2014	29	180	OK
MW-03a	Magnesium	11/13/2014	11/21/2014	8	180	OK
MW-03a	Manganese	11/13/2014	12/12/2014	29	180	OK
MW-03a	Mercury	11/13/2014	11/19/2014	6	180	OK
MW-03a	Molybdenum	11/13/2014	12/12/2014	29	180	OK
MW-03a	Nickel	11/13/2014	12/12/2014	29	180	OK
MW-03a	Potassium	11/13/2014	11/21/2014	8	180	OK
MW-03a	Silver	11/13/2014	12/12/2014	29	180	OK
MW-03a	Sodium	11/13/2014	11/21/2014	8	180	OK
MW-03a	Thallium	11/13/2014	12/12/2014	29	180	OK
MW-03a	Tin	11/13/2014	12/12/2014	29	180	OK
MW-03a	Arsenic	11/13/2014	12/12/2014	29	180	OK
MW-03a	Beryllium	11/13/2014	12/12/2014	29	180	OK
MW-03a	Cadmium	11/13/2014	12/12/2014	29	180	OK
MW-03a	Chromium	11/13/2014	12/12/2014	29	180	OK
MW-03a	Cobalt	11/13/2014	12/12/2014	29	180	OK
MW-03a	Copper	11/13/2014	12/12/2014	29	180	OK
MW-03a	Uranium	11/13/2014	12/16/2014	33	180	OK
MW-03a	Vanadium	11/13/2014	11/21/2014	8	180	OK
MW-03a	Zinc	11/13/2014	12/12/2014	29	180	OK
MW-03a	Calcium	11/13/2014	11/21/2014	8	180	OK
MW-03a	Methylene chloride	11/13/2014	11/17/2014	4	14	OK
MW-03a	Selenium	11/13/2014	12/12/2014	29	180	OK
MW-03a	2-Butanone	11/13/2014	11/17/2014	4	14	OK
MW-03a	Naphthalene	11/13/2014	11/17/2014	4	14	OK
MW-03a	Bicarbonate (as CaCO3)	11/13/2014	11/17/2014	4	14	OK
MW-03a	Carbonate (as CaCO3)	11/13/2014	11/17/2014	4	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-03a	Nitrate/Nitrite (as N)	11/13/2014	11/20/2014	7	28	OK
MW-03a	Total Dissolved Solids	11/13/2014	11/14/2014	1	7	OK
MW-03a	Gross Radium Alpha	11/13/2014	12/18/2014	35	180	OK
MW-03A	Ammonia as N	11/13/2014	11/28/2014	15	28	OK
MW-05	Toluene	11/11/2014	11/17/2014	6	14	OK
MW-05	Tetrahydrofuran	11/11/2014	11/17/2014	6	14	OK
MW-05	Xylenes, Total	11/11/2014	11/17/2014	6	14	OK
MW-05	Sulfate	11/11/2014	11/17/2014	6	28	OK
MW-05	Chloride	11/11/2014	11/17/2014	6	28	OK
MW-05	Sodium	11/11/2014	11/21/2014	10	180	OK
MW-05	Thallium	11/11/2014	12/12/2014	31	180	OK
MW-05	Tin	11/11/2014	12/12/2014	31	180	OK
MW-05	Arsenic	11/11/2014	12/12/2014	31	180	OK
MW-05	Beryllium	11/11/2014	12/12/2014	31	180	OK
MW-05	Cadmium	11/11/2014	12/12/2014	31	180	OK
MW-05	Chromium	11/11/2014	12/12/2014	31	180	OK
MW-05	Cobalt	11/11/2014	12/12/2014	31	180	OK
MW-05	Copper	11/11/2014	12/12/2014	31	180	OK
MW-05	Uranium	11/11/2014	12/16/2014	35	180	OK
MW-05	Vanadium	11/11/2014	11/21/2014	10	180	OK
MW-05	Zinc	11/11/2014	12/12/2014	31	180	OK
MW-05	Calcium	11/11/2014	11/21/2014	10	180	OK
MW-05	Methylene chloride	11/11/2014	11/17/2014	6	14	OK
MW-05	Selenium	11/11/2014	12/12/2014	31	180	OK
MW-05	2-Butanone	11/11/2014	11/17/2014	6	14	OK
MW-05	Naphthalene	11/11/2014	11/17/2014	6	14	OK
MW-05	Total Dissolved Solids	11/11/2014	11/14/2014	3	7	OK
MW-05	Nitrate/Nitrite (as N)	11/11/2014	11/20/2014	9	28	OK
MW-05	Carbonate (as CaCO3)	11/11/2014	11/17/2014	6	14	OK
MW-05	Bicarbonate (as CaCO3)	11/11/2014	11/17/2014	6	14	OK
MW-05	Silver	11/11/2014	12/12/2014	31	180	OK
MW-05	Potassium	11/11/2014	11/21/2014	10	180	OK
MW-05	Nickel	11/11/2014	12/12/2014	31	180	OK
MW-05	Molybdenum	11/11/2014	12/12/2014	31	180	OK
MW-05	Mercury	11/11/2014	11/19/2014	8	180	OK
MW-05	Manganese	11/11/2014	12/12/2014	31	180	OK
MW-05	Magnesium	11/11/2014	11/21/2014	10	180	OK
MW-05	Lead	11/11/2014	12/12/2014	31	180	OK
MW-05	Iron	11/11/2014	12/12/2014	31	180	OK
MW-05	Chloromethane	11/11/2014	11/17/2014	6	14	OK
MW-05	Benzene	11/11/2014	11/17/2014	6	14	OK
MW-05	Chloroform	11/11/2014	11/17/2014	6	14	OK
MW-05	Acetone	11/11/2014	11/17/2014	6	14	OK
MW-05	Carbon tetrachloride	11/11/2014	11/17/2014	6	14	OK
MW-05	Fluoride	11/11/2014	11/18/2014	7	27	OK
MW-05	Gross Radium Alpha	11/11/2014	12/7/2014	26	180	OK
MW-05	Ammonia as N	11/11/2014	11/28/2014	17	28	OK
MW-11	Iron	11/17/2014	12/16/2014	29	180	OK
MW-11	Lead	11/17/2014	12/16/2014	29	180	OK
MW-11	Magnesium	11/17/2014	12/2/2014	15	180	OK
MW-11	Manganese	11/17/2014	12/12/2014	25	180	OK
MW-11	Mercury	11/17/2014	11/26/2014	9	180	OK
MW-11	Molybdenum	11/17/2014	12/12/2014	25	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-11	Nickel	11/17/2014	12/12/2014	25	180	OK
MW-11	Potassium	11/17/2014	12/2/2014	15	180	OK
MW-11	Silver	11/17/2014	12/12/2014	25	180	OK
MW-11	Sodium	11/17/2014	12/2/2014	15	180	OK
MW-11	Thallium	11/17/2014	12/16/2014	29	180	OK
MW-11	Tin	11/17/2014	12/12/2014	25	180	OK
MW-11	Arsenic	11/17/2014	12/12/2014	25	180	OK
MW-11	Beryllium	11/17/2014	12/16/2014	29	180	OK
MW-11	Cadmium	11/17/2014	12/12/2014	25	180	OK
MW-11	Chromium	11/17/2014	12/12/2014	25	180	OK
MW-11	Cobalt	11/17/2014	12/12/2014	25	180	OK
MW-11	Copper	11/17/2014	12/12/2014	25	180	OK
MW-11	Uranium	11/17/2014	12/16/2014	29	180	OK
MW-11	Vanadium	11/17/2014	12/2/2014	15	180	OK
MW-11	Zinc	11/17/2014	12/12/2014	25	180	OK
MW-11	Calcium	11/17/2014	12/2/2014	15	180	OK
MW-11	Methylene chloride	11/17/2014	11/21/2014	4	14	OK
MW-11	Toluene	11/17/2014	11/21/2014	4	14	OK
MW-11	Tetrahydrofuran	11/17/2014	11/21/2014	4	14	OK
MW-11	Xylenes, Total	11/17/2014	11/21/2014	4	14	OK
MW-11	Sulfate	11/17/2014	12/1/2014	14	28	OK
MW-11	Chloride	11/17/2014	12/1/2014	14	28	OK
MW-11	Fluoride	11/17/2014	12/2/2014	15	27	OK
MW-11	Carbon tetrachloride	11/17/2014	11/21/2014	4	14	OK
MW-11	Acetone	11/17/2014	11/21/2014	4	14	OK
MW-11	Chloroform	11/17/2014	11/21/2014	4	14	OK
MW-11	Benzene	11/17/2014	11/21/2014	4	14	OK
MW-11	Chloromethane	11/17/2014	11/21/2014	4	14	OK
MW-11	Selenium	11/17/2014	12/12/2014	25	180	OK
MW-11	2-Butanone	11/17/2014	11/21/2014	4	14	OK
MW-11	Naphthalene	11/17/2014	11/21/2014	4	14	OK
MW-11	Bicarbonate (as CaCO3)	11/17/2014	11/24/2014	7	14	OK
MW-11	Carbonate (as CaCO3)	11/17/2014	11/24/2014	7	14	OK
MW-11	Nitrate/Nitrite (as N)	11/17/2014	12/2/2014	15	28	OK
MW-11	Total Dissolved Solids	11/17/2014	11/21/2014	4	7	OK
MW-11	Gross Radium Alpha	11/17/2014	12/18/2014	31	180	OK
MW-11	Ammonia as N	11/17/2014	11/28/2014	11	28	OK
MW-12	Total Dissolved Solids	11/11/2014	11/14/2014	3	7	OK
MW-12	Nitrate/Nitrite (as N)	11/11/2014	11/20/2014	9	28	OK
MW-12	Carbonate (as CaCO3)	11/11/2014	11/17/2014	6	14	OK
MW-12	Bicarbonate (as CaCO3)	11/11/2014	11/17/2014	6	14	OK
MW-12	Naphthalene	11/11/2014	11/17/2014	6	14	OK
MW-12	2-Butanone	11/11/2014	11/17/2014	6	14	OK
MW-12	Selenium	11/11/2014	12/12/2014	31	180	OK
MW-12	Methylene chloride	11/11/2014	11/17/2014	6	14	OK
MW-12	Calcium	11/11/2014	11/21/2014	10	180	OK
MW-12	Zinc	11/11/2014	12/12/2014	31	180	OK
MW-12	Vanadium	11/11/2014	11/21/2014	10	180	OK
MW-12	Uranium	11/11/2014	12/16/2014	35	180	OK
MW-12	Copper	11/11/2014	12/12/2014	31	180	OK
MW-12	Cadmium	11/11/2014	12/12/2014	31	180	OK
MW-12	Beryllium	11/11/2014	12/12/2014	31	180	OK
MW-12	Arsenic	11/11/2014	12/12/2014	31	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	Tin	11/11/2014	12/12/2014	31	180	OK
MW-12	Thallium	11/11/2014	12/12/2014	31	180	OK
MW-12	Sodium	11/11/2014	11/21/2014	10	180	OK
MW-12	Silver	11/11/2014	12/12/2014	31	180	OK
MW-12	Potassium	11/11/2014	11/21/2014	10	180	OK
MW-12	Nickel	11/11/2014	12/12/2014	31	180	OK
MW-12	Molybdenum	11/11/2014	12/12/2014	31	180	OK
MW-12	Mercury	11/11/2014	11/19/2014	8	180	OK
MW-12	Manganese	11/11/2014	12/12/2014	31	180	OK
MW-12	Magnesium	11/11/2014	11/21/2014	10	180	OK
MW-12	Chloromethane	11/11/2014	11/17/2014	6	14	OK
MW-12	Benzene	11/11/2014	11/17/2014	6	14	OK
MW-12	Chloroform	11/11/2014	11/17/2014	6	14	OK
MW-12	Acetone	11/11/2014	11/17/2014	6	14	OK
MW-12	Carbon tetrachloride	11/11/2014	11/17/2014	6	14	OK
MW-12	Fluoride	11/11/2014	11/18/2014	7	27	OK
MW-12	Chloride	11/11/2014	11/17/2014	6	28	OK
MW-12	Sulfate	11/11/2014	11/17/2014	6	28	OK
MW-12	Xylenes, Total	11/11/2014	11/17/2014	6	14	OK
MW-12	Tetrahydrofuran	11/11/2014	11/17/2014	6	14	OK
MW-12	Toluene	11/11/2014	11/17/2014	6	14	OK
MW-12	Cobalt	11/11/2014	12/12/2014	31	180	OK
MW-12	Chromium	11/11/2014	12/12/2014	31	180	OK
MW-12	Lead	11/11/2014	12/12/2014	31	180	OK
MW-12	Iron	11/11/2014	12/12/2014	31	180	OK
MW-12	Gross Radium Alpha	11/11/2014	12/7/2014	26	180	OK
MW-12	Ammonia as N	11/11/2014	11/28/2014	17	28	OK
MW-14	Lead	11/12/2014	12/12/2014	30	180	OK
MW-14	Iron	11/12/2014	12/12/2014	30	180	OK
MW-14	Total Dissolved Solids	11/12/2014	11/14/2014	2	7	OK
MW-14	Nitrate/Nitrite (as N)	11/12/2014	11/20/2014	8	28	OK
MW-14	Carbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-14	Bicarbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-14	Naphthalene	11/12/2014	11/17/2014	5	14	OK
MW-14	2-Butanone	11/12/2014	11/17/2014	5	14	OK
MW-14	Selenium	11/12/2014	12/12/2014	30	180	OK
MW-14	Methylene chloride	11/12/2014	11/17/2014	5	14	OK
MW-14	Calcium	11/12/2014	11/21/2014	9	180	OK
MW-14	Zinc	11/12/2014	12/12/2014	30	180	OK
MW-14	Vanadium	11/12/2014	11/21/2014	9	180	OK
MW-14	Uranium	11/12/2014	12/16/2014	34	180	OK
MW-14	Copper	11/12/2014	12/12/2014	30	180	OK
MW-14	Chloromethane	11/12/2014	11/17/2014	5	14	OK
MW-14	Benzene	11/12/2014	11/17/2014	5	14	OK
MW-14	Chloroform	11/12/2014	11/17/2014	5	14	OK
MW-14	Acetone	11/12/2014	11/17/2014	5	14	OK
MW-14	Carbon tetrachloride	11/12/2014	11/17/2014	5	14	OK
MW-14	Fluoride	11/12/2014	11/18/2014	6	27	OK
MW-14	Chloride	11/12/2014	11/18/2014	6	28	OK
MW-14	Sulfate	11/12/2014	11/17/2014	5	28	OK
MW-14	Xylenes, Total	11/12/2014	11/17/2014	5	14	OK
MW-14	Tetrahydrofuran	11/12/2014	11/17/2014	5	14	OK
MW-14	Toluene	11/12/2014	11/17/2014	5	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	Cobalt	11/12/2014	12/12/2014	30	180	OK
MW-14	Chromium	11/12/2014	12/12/2014	30	180	OK
MW-14	Cadmium	11/12/2014	12/12/2014	30	180	OK
MW-14	Beryllium	11/12/2014	12/12/2014	30	180	OK
MW-14	Arsenic	11/12/2014	12/12/2014	30	180	OK
MW-14	Tin	11/12/2014	12/12/2014	30	180	OK
MW-14	Thallium	11/12/2014	12/12/2014	30	180	OK
MW-14	Sodium	11/12/2014	11/21/2014	9	180	OK
MW-14	Silver	11/12/2014	12/12/2014	30	180	OK
MW-14	Potassium	11/12/2014	11/21/2014	9	180	OK
MW-14	Nickel	11/12/2014	12/12/2014	30	180	OK
MW-14	Molybdenum	11/12/2014	12/12/2014	30	180	OK
MW-14	Mercury	11/12/2014	11/19/2014	7	180	OK
MW-14	Manganese	11/12/2014	12/16/2014	34	180	OK
MW-14	Magnesium	11/12/2014	11/21/2014	9	180	OK
MW-14	Gross Radium Alpha	11/12/2014	12/7/2014	25	180	OK
MW-14	Ammonia as N	11/12/2014	11/28/2014	16	28	OK
MW-15	Chromium	11/12/2014	12/12/2014	30	180	OK
MW-15	Cadmium	11/12/2014	12/12/2014	30	180	OK
MW-15	Beryllium	11/12/2014	12/12/2014	30	180	OK
MW-15	Arsenic	11/12/2014	12/12/2014	30	180	OK
MW-15	Tin	11/12/2014	12/12/2014	30	180	OK
MW-15	Thallium	11/12/2014	12/12/2014	30	180	OK
MW-15	Sodium	11/12/2014	11/21/2014	9	180	OK
MW-15	Silver	11/12/2014	12/12/2014	30	180	OK
MW-15	Potassium	11/12/2014	11/21/2014	9	180	OK
MW-15	Nickel	11/12/2014	12/12/2014	30	180	OK
MW-15	Molybdenum	11/12/2014	12/12/2014	30	180	OK
MW-15	Mercury	11/12/2014	11/19/2014	7	180	OK
MW-15	Manganese	11/12/2014	12/12/2014	30	180	OK
MW-15	Magnesium	11/12/2014	11/21/2014	9	180	OK
MW-15	Lead	11/12/2014	12/12/2014	30	180	OK
MW-15	Iron	11/12/2014	12/12/2014	30	180	OK
MW-15	Total Dissolved Solids	11/12/2014	11/14/2014	2	7	OK
MW-15	Nitrate/Nitrite (as N)	11/12/2014	11/20/2014	8	28	OK
MW-15	Carbonate (as CaCO ₃)	11/12/2014	11/17/2014	5	14	OK
MW-15	Bicarbonate (as CaCO ₃)	11/12/2014	11/17/2014	5	14	OK
MW-15	Naphthalene	11/12/2014	11/17/2014	5	14	OK
MW-15	2-Butanone	11/12/2014	11/17/2014	5	14	OK
MW-15	Selenium	11/12/2014	12/12/2014	30	180	OK
MW-15	Methylene chloride	11/12/2014	11/17/2014	5	14	OK
MW-15	Calcium	11/12/2014	11/21/2014	9	180	OK
MW-15	Zinc	11/12/2014	12/12/2014	30	180	OK
MW-15	Vanadium	11/12/2014	11/21/2014	9	180	OK
MW-15	Uranium	11/12/2014	12/16/2014	34	180	OK
MW-15	Copper	11/12/2014	12/12/2014	30	180	OK
MW-15	Cobalt	11/12/2014	12/12/2014	30	180	OK
MW-15	Chloromethane	11/12/2014	11/17/2014	5	14	OK
MW-15	Benzene	11/12/2014	11/17/2014	5	14	OK
MW-15	Chloroform	11/12/2014	11/17/2014	5	14	OK
MW-15	Acetone	11/12/2014	11/17/2014	5	14	OK
MW-15	Carbon tetrachloride	11/12/2014	11/17/2014	5	14	OK
MW-15	Fluoride	11/12/2014	11/18/2014	6	27	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	Chloride	11/12/2014	11/18/2014	6	28	OK
MW-15	Sulfate	11/12/2014	11/17/2014	5	28	OK
MW-15	Xylenes, Total	11/12/2014	11/17/2014	5	14	OK
MW-15	Tetrahydrofuran	11/12/2014	11/17/2014	5	14	OK
MW-15	Toluene	11/12/2014	11/17/2014	5	14	OK
MW-15	Gross Radium Alpha	11/12/2014	12/7/2014	25	180	OK
MW-15	Ammonia as N	11/12/2014	11/28/2014	16	28	OK
MW-17	Potassium	11/12/2014	11/21/2014	9	180	OK
MW-17	Silver	11/12/2014	12/12/2014	30	180	OK
MW-17	Sodium	11/12/2014	11/21/2014	9	180	OK
MW-17	Thallium	11/12/2014	12/12/2014	30	180	OK
MW-17	Tin	11/12/2014	12/12/2014	30	180	OK
MW-17	Arsenic	11/12/2014	12/12/2014	30	180	OK
MW-17	Beryllium	11/12/2014	12/12/2014	30	180	OK
MW-17	Cadmium	11/12/2014	12/12/2014	30	180	OK
MW-17	Chromium	11/12/2014	12/12/2014	30	180	OK
MW-17	Cobalt	11/12/2014	12/12/2014	30	180	OK
MW-17	Copper	11/12/2014	12/12/2014	30	180	OK
MW-17	Uranium	11/12/2014	12/16/2014	34	180	OK
MW-17	Vanadium	11/12/2014	11/21/2014	9	180	OK
MW-17	Zinc	11/12/2014	12/12/2014	30	180	OK
MW-17	Calcium	11/12/2014	11/21/2014	9	180	OK
MW-17	Methylene chloride	11/12/2014	11/17/2014	5	14	OK
MW-17	Selenium	11/12/2014	12/12/2014	30	180	OK
MW-17	2-Butanone	11/12/2014	11/17/2014	5	14	OK
MW-17	Naphthalene	11/12/2014	11/17/2014	5	14	OK
MW-17	Bicarbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-17	Carbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-17	Nitrate/Nitrite (as N)	11/12/2014	11/20/2014	8	28	OK
MW-17	Total Dissolved Solids	11/12/2014	11/14/2014	2	7	OK
MW-17	Nickel	11/12/2014	12/12/2014	30	180	OK
MW-17	Molybdenum	11/12/2014	12/12/2014	30	180	OK
MW-17	Mercury	11/12/2014	11/19/2014	7	180	OK
MW-17	Manganese	11/12/2014	12/12/2014	30	180	OK
MW-17	Magnesium	11/12/2014	11/21/2014	9	180	OK
MW-17	Lead	11/12/2014	12/12/2014	30	180	OK
MW-17	Iron	11/12/2014	12/12/2014	30	180	OK
MW-17	Chloromethane	11/12/2014	11/17/2014	5	14	OK
MW-17	Benzene	11/12/2014	11/17/2014	5	14	OK
MW-17	Chloroform	11/12/2014	11/17/2014	5	14	OK
MW-17	Acetone	11/12/2014	11/17/2014	5	14	OK
MW-17	Carbon tetrachloride	11/12/2014	11/17/2014	5	14	OK
MW-17	Fluoride	11/12/2014	11/18/2014	6	27	OK
MW-17	Chloride	11/12/2014	11/18/2014	6	28	OK
MW-17	Sulfate	11/12/2014	11/17/2014	5	28	OK
MW-17	Xylenes, Total	11/12/2014	11/17/2014	5	14	OK
MW-17	Tetrahydrofuran	11/12/2014	11/17/2014	5	14	OK
MW-17	Toluene	11/12/2014	11/17/2014	5	14	OK
MW-17	Gross Radium Alpha	11/12/2014	12/7/2014	25	180	OK
MW-17	Ammonia as N	11/12/2014	11/28/2014	16	28	OK
MW-18	Manganese	11/10/2014	12/12/2014	32	180	OK
MW-18	Mercury	11/10/2014	11/19/2014	9	180	OK
MW-18	Molybdenum	11/10/2014	12/12/2014	32	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-18	Nickel	11/10/2014	12/12/2014	32	180	OK
MW-18	Potassium	11/10/2014	11/21/2014	11	180	OK
MW-18	Silver	11/10/2014	12/12/2014	32	180	OK
MW-18	Sodium	11/10/2014	11/21/2014	11	180	OK
MW-18	Thallium	11/10/2014	12/12/2014	32	180	OK
MW-18	Tin	11/10/2014	12/12/2014	32	180	OK
MW-18	Arsenic	11/10/2014	12/12/2014	32	180	OK
MW-18	Beryllium	11/10/2014	12/12/2014	32	180	OK
MW-18	Cadmium	11/10/2014	12/12/2014	32	180	OK
MW-18	Chromium	11/10/2014	12/12/2014	32	180	OK
MW-18	Cobalt	11/10/2014	12/12/2014	32	180	OK
MW-18	Total Dissolved Solids	11/10/2014	11/14/2014	4	7	OK
MW-18	Nitrate/Nitrite (as N)	11/10/2014	11/20/2014	10	28	OK
MW-18	Carbonate (as CaCO3)	11/10/2014	11/17/2014	7	14	OK
MW-18	Bicarbonate (as CaCO3)	11/10/2014	11/17/2014	7	14	OK
MW-18	Naphthalene	11/10/2014	11/17/2014	7	14	OK
MW-18	2-Butanone	11/10/2014	11/17/2014	7	14	OK
MW-18	Selenium	11/10/2014	12/12/2014	32	180	OK
MW-18	Methylene chloride	11/10/2014	11/17/2014	7	14	OK
MW-18	Calcium	11/10/2014	11/21/2014	11	180	OK
MW-18	Zinc	11/10/2014	12/12/2014	32	180	OK
MW-18	Vanadium	11/10/2014	11/21/2014	11	180	OK
MW-18	Uranium	11/10/2014	12/16/2014	36	180	OK
MW-18	Copper	11/10/2014	12/12/2014	32	180	OK
MW-18	Chloromethane	11/10/2014	11/17/2014	7	14	OK
MW-18	Benzene	11/10/2014	11/17/2014	7	14	OK
MW-18	Chloroform	11/10/2014	11/17/2014	7	14	OK
MW-18	Acetone	11/10/2014	11/17/2014	7	14	OK
MW-18	Carbon tetrachloride	11/10/2014	11/17/2014	7	14	OK
MW-18	Fluoride	11/10/2014	11/18/2014	8	27	OK
MW-18	Chloride	11/10/2014	11/18/2014	8	28	OK
MW-18	Sulfate	11/10/2014	11/17/2014	7	28	OK
MW-18	Xylenes, Total	11/10/2014	11/17/2014	7	14	OK
MW-18	Tetrahydrofuran	11/10/2014	11/17/2014	7	14	OK
MW-18	Toluene	11/10/2014	11/17/2014	7	14	OK
MW-18	Magnesium	11/10/2014	11/21/2014	11	180	OK
MW-18	Lead	11/10/2014	12/12/2014	32	180	OK
MW-18	Iron	11/10/2014	12/12/2014	32	180	OK
MW-18	Gross Radium Alpha	11/10/2014	12/7/2014	27	180	OK
MW-18	Ammonia as N	11/10/2014	11/28/2014	18	28	OK
MW-19	Bicarbonate (as CaCO3)	11/11/2014	11/17/2014	6	14	OK
MW-19	Naphthalene	11/11/2014	11/17/2014	6	14	OK
MW-19	2-Butanone	11/11/2014	11/17/2014	6	14	OK
MW-19	Selenium	11/11/2014	12/12/2014	31	180	OK
MW-19	Methylene chloride	11/11/2014	11/17/2014	6	14	OK
MW-19	Calcium	11/11/2014	11/21/2014	10	180	OK
MW-19	Zinc	11/11/2014	12/12/2014	31	180	OK
MW-19	Vanadium	11/11/2014	11/21/2014	10	180	OK
MW-19	Uranium	11/11/2014	12/16/2014	35	180	OK
MW-19	Copper	11/11/2014	12/12/2014	31	180	OK
MW-19	Cobalt	11/11/2014	12/12/2014	31	180	OK
MW-19	Chromium	11/11/2014	12/12/2014	31	180	OK
MW-19	Cadmium	11/11/2014	12/12/2014	31	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-19	Beryllium	11/11/2014	12/12/2014	31	180	OK
MW-19	Arsenic	11/11/2014	12/12/2014	31	180	OK
MW-19	Tin	11/11/2014	12/12/2014	31	180	OK
MW-19	Thallium	11/11/2014	12/12/2014	31	180	OK
MW-19	Sodium	11/11/2014	11/21/2014	10	180	OK
MW-19	Silver	11/11/2014	12/12/2014	31	180	OK
MW-19	Potassium	11/11/2014	11/21/2014	10	180	OK
MW-19	Nickel	11/11/2014	12/12/2014	31	180	OK
MW-19	Molybdenum	11/11/2014	12/12/2014	31	180	OK
MW-19	Mercury	11/11/2014	11/19/2014	8	180	OK
MW-19	Manganese	11/11/2014	12/12/2014	31	180	OK
MW-19	Magnesium	11/11/2014	11/21/2014	10	180	OK
MW-19	Lead	11/11/2014	12/12/2014	31	180	OK
MW-19	Iron	11/11/2014	12/12/2014	31	180	OK
MW-19	Chloromethane	11/11/2014	11/17/2014	6	14	OK
MW-19	Benzene	11/11/2014	11/17/2014	6	14	OK
MW-19	Chloroform	11/11/2014	11/17/2014	6	14	OK
MW-19	Acetone	11/11/2014	11/17/2014	6	14	OK
MW-19	Carbon tetrachloride	11/11/2014	11/17/2014	6	14	OK
MW-19	Fluoride	11/11/2014	11/18/2014	7	27	OK
MW-19	Chloride	11/11/2014	11/18/2014	7	28	OK
MW-19	Sulfate	11/11/2014	11/17/2014	6	28	OK
MW-19	Xylenes, Total	11/11/2014	11/17/2014	6	14	OK
MW-19	Tetrahydrofuran	11/11/2014	11/17/2014	6	14	OK
MW-19	Toluene	11/11/2014	11/17/2014	6	14	OK
MW-19	Total Dissolved Solids	11/11/2014	11/14/2014	3	7	OK
MW-19	Nitrate/Nitrite (as N)	11/11/2014	11/20/2014	9	28	OK
MW-19	Carbonate (as CaCO3)	11/11/2014	11/17/2014	6	14	OK
MW-19	Gross Radium Alpha	11/11/2014	12/7/2014	26	180	OK
MW-19	Ammonia as N	11/11/2014	11/28/2014	17	28	OK
MW-20	Toluene	12/3/2014	12/5/2014	2	14	OK
MW-20	Tetrahydrofuran	12/3/2014	12/5/2014	2	14	OK
MW-20	Xylenes, Total	12/3/2014	12/5/2014	2	14	OK
MW-20	Sulfate	12/3/2014	12/8/2014	5	28	OK
MW-20	Chloride	12/3/2014	12/8/2014	5	28	OK
MW-20	Fluoride	12/3/2014	12/8/2014	5	27	OK
MW-20	Carbon tetrachloride	12/3/2014	12/5/2014	2	14	OK
MW-20	Acetone	12/3/2014	12/5/2014	2	14	OK
MW-20	Chloroform	12/3/2014	12/5/2014	2	14	OK
MW-20	Benzene	12/3/2014	12/5/2014	2	14	OK
MW-20	Chloromethane	12/3/2014	12/5/2014	2	14	OK
MW-20	Iron	12/3/2014	12/16/2014	13	180	OK
MW-20	Lead	12/3/2014	12/16/2014	13	180	OK
MW-20	Magnesium	12/3/2014	12/11/2014	8	180	OK
MW-20	Manganese	12/3/2014	12/12/2014	9	180	OK
MW-20	Mercury	12/3/2014	12/9/2014	6	180	OK
MW-20	Molybdenum	12/3/2014	12/12/2014	9	180	OK
MW-20	Nickel	12/3/2014	12/12/2014	9	180	OK
MW-20	Potassium	12/3/2014	12/11/2014	8	180	OK
MW-20	Silver	12/3/2014	12/12/2014	9	180	OK
MW-20	Sodium	12/3/2014	12/11/2014	8	180	OK
MW-20	Thallium	12/3/2014	12/16/2014	13	180	OK
MW-20	Tin	12/3/2014	12/12/2014	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-20	Arsenic	12/3/2014	12/12/2014	9	180	OK
MW-20	Beryllium	12/3/2014	12/16/2014	13	180	OK
MW-20	Cadmium	12/3/2014	12/12/2014	9	180	OK
MW-20	Chromium	12/3/2014	12/12/2014	9	180	OK
MW-20	Cobalt	12/3/2014	12/12/2014	9	180	OK
MW-20	Copper	12/3/2014	12/12/2014	9	180	OK
MW-20	Uranium	12/3/2014	12/16/2014	13	180	OK
MW-20	Vanadium	12/3/2014	12/11/2014	8	180	OK
MW-20	Zinc	12/3/2014	12/12/2014	9	180	OK
MW-20	Calcium	12/3/2014	12/11/2014	8	180	OK
MW-20	Methylene chloride	12/3/2014	12/5/2014	2	14	OK
MW-20	Selenium	12/3/2014	12/12/2014	9	180	OK
MW-20	2-Butanone	12/3/2014	12/5/2014	2	14	OK
MW-20	Naphthalene	12/3/2014	12/5/2014	2	14	OK
MW-20	Bicarbonate (as CaCO3)	12/3/2014	12/8/2014	5	14	OK
MW-20	Carbonate (as CaCO3)	12/3/2014	12/8/2014	5	14	OK
MW-20	Nitrate/Nitrite (as N)	12/3/2014	12/15/2014	12	28	OK
MW-20	Total Dissolved Solids	12/3/2014	12/8/2014	5	7	OK
MW-20	Gross Radium Alpha	12/3/2014	1/2/2015	30	180	OK
MW-20	Ammonia as N	12/3/2014	12/14/2014	11	28	OK
MW-22	Toluene	11/18/2014	11/21/2014	3	14	OK
MW-22	Tetrahydrofuran	11/18/2014	11/21/2014	3	14	OK
MW-22	Xylenes, Total	11/18/2014	11/21/2014	3	14	OK
MW-22	Sulfate	11/18/2014	12/1/2014	13	28	OK
MW-22	Chloride	11/18/2014	12/1/2014	13	28	OK
MW-22	Fluoride	11/18/2014	12/2/2014	14	27	OK
MW-22	Carbon tetrachloride	11/18/2014	11/21/2014	3	14	OK
MW-22	Acetone	11/18/2014	11/21/2014	3	14	OK
MW-22	Chloroform	11/18/2014	11/21/2014	3	14	OK
MW-22	Benzene	11/18/2014	11/21/2014	3	14	OK
MW-22	Chloromethane	11/18/2014	11/21/2014	3	14	OK
MW-22	Iron	11/18/2014	12/16/2014	28	180	OK
MW-22	Lead	11/18/2014	12/16/2014	28	180	OK
MW-22	Magnesium	11/18/2014	12/2/2014	14	180	OK
MW-22	Manganese	11/18/2014	12/16/2014	28	180	OK
MW-22	Mercury	11/18/2014	11/26/2014	8	180	OK
MW-22	Molybdenum	11/18/2014	12/12/2014	24	180	OK
MW-22	Nickel	11/18/2014	12/12/2014	24	180	OK
MW-22	Potassium	11/18/2014	12/2/2014	14	180	OK
MW-22	Silver	11/18/2014	12/12/2014	24	180	OK
MW-22	Sodium	11/18/2014	12/2/2014	14	180	OK
MW-22	Thallium	11/18/2014	12/16/2014	28	180	OK
MW-22	Tin	11/18/2014	12/12/2014	24	180	OK
MW-22	Arsenic	11/18/2014	12/12/2014	24	180	OK
MW-22	Beryllium	11/18/2014	12/16/2014	28	180	OK
MW-22	Cadmium	11/18/2014	12/12/2014	24	180	OK
MW-22	Chromium	11/18/2014	12/12/2014	24	180	OK
MW-22	Cobalt	11/18/2014	12/12/2014	24	180	OK
MW-22	Copper	11/18/2014	12/12/2014	24	180	OK
MW-22	Uranium	11/18/2014	12/16/2014	28	180	OK
MW-22	Vanadium	11/18/2014	12/2/2014	14	180	OK
MW-22	Zinc	11/18/2014	12/12/2014	24	180	OK
MW-22	Calcium	11/18/2014	12/2/2014	14	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	Methylene chloride	11/18/2014	11/21/2014	3	14	OK
MW-22	Selenium	11/18/2014	12/12/2014	24	180	OK
MW-22	2-Butanone	11/18/2014	11/21/2014	3	14	OK
MW-22	Naphthalene	11/18/2014	11/21/2014	3	14	OK
MW-22	Bicarbonate (as CaCO3)	11/18/2014	11/24/2014	6	14	OK
MW-22	Carbonate (as CaCO3)	11/18/2014	11/24/2014	6	14	OK
MW-22	Nitrate/Nitrite (as N)	11/18/2014	12/2/2014	14	28	OK
MW-22	Total Dissolved Solids	11/18/2014	11/21/2014	3	7	OK
MW-22	Gross Radium Alpha	11/18/2014	12/18/2014	30	180	OK
MW-22	Ammonia as N	11/18/2014	11/28/2014	10	28	OK
MW-23	Arsenic	11/19/2014	12/12/2014	23	180	OK
MW-23	Beryllium	11/19/2014	12/16/2014	27	180	OK
MW-23	Cadmium	11/19/2014	12/12/2014	23	180	OK
MW-23	Chromium	11/19/2014	12/12/2014	23	180	OK
MW-23	Cobalt	11/19/2014	12/12/2014	23	180	OK
MW-23	Copper	11/19/2014	12/12/2014	23	180	OK
MW-23	Uranium	11/19/2014	12/16/2014	27	180	OK
MW-23	Vanadium	11/19/2014	12/2/2014	13	180	OK
MW-23	Zinc	11/19/2014	12/12/2014	23	180	OK
MW-23	Calcium	11/19/2014	12/2/2014	13	180	OK
MW-23	Methylene chloride	11/19/2014	11/21/2014	2	14	OK
MW-23	Selenium	11/19/2014	12/12/2014	23	180	OK
MW-23	2-Butanone	11/19/2014	11/21/2014	2	14	OK
MW-23	Naphthalene	11/19/2014	11/21/2014	2	14	OK
MW-23	Bicarbonate (as CaCO3)	11/19/2014	11/24/2014	5	14	OK
MW-23	Carbonate (as CaCO3)	11/19/2014	11/24/2014	5	14	OK
MW-23	Nitrate/Nitrite (as N)	11/19/2014	12/2/2014	13	28	OK
MW-23	Total Dissolved Solids	11/19/2014	11/21/2014	2	7	OK
MW-23	Toluene	11/19/2014	11/21/2014	2	14	OK
MW-23	Tetrahydrofuran	11/19/2014	11/21/2014	2	14	OK
MW-23	Xylenes, Total	11/19/2014	11/21/2014	2	14	OK
MW-23	Sulfate	11/19/2014	12/4/2014	15	28	OK
MW-23	Chloride	11/19/2014	12/2/2014	13	28	OK
MW-23	Fluoride	11/19/2014	12/2/2014	13	27	OK
MW-23	Carbon tetrachloride	11/19/2014	11/21/2014	2	14	OK
MW-23	Acetone	11/19/2014	11/21/2014	2	14	OK
MW-23	Chloroform	11/19/2014	11/21/2014	2	14	OK
MW-23	Benzene	11/19/2014	11/21/2014	2	14	OK
MW-23	Chloromethane	11/19/2014	11/21/2014	2	14	OK
MW-23	Iron	11/19/2014	12/16/2014	27	180	OK
MW-23	Lead	11/19/2014	12/16/2014	27	180	OK
MW-23	Magnesium	11/19/2014	12/2/2014	13	180	OK
MW-23	Manganese	11/19/2014	12/12/2014	23	180	OK
MW-23	Mercury	11/19/2014	11/26/2014	7	180	OK
MW-23	Molybdenum	11/19/2014	12/12/2014	23	180	OK
MW-23	Nickel	11/19/2014	12/12/2014	23	180	OK
MW-23	Potassium	11/19/2014	12/2/2014	13	180	OK
MW-23	Silver	11/19/2014	12/12/2014	23	180	OK
MW-23	Sodium	11/19/2014	12/2/2014	13	180	OK
MW-23	Thallium	11/19/2014	12/16/2014	27	180	OK
MW-23	Tin	11/19/2014	12/12/2014	23	180	OK
MW-23	Gross Radium Alpha	11/19/2014	12/18/2014	29	180	OK
MW-23	Ammonia as N	11/19/2014	11/28/2014	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-24	Toluene	11/19/2014	11/21/2014	2	14	OK
MW-24	Tetrahydrofuran	11/19/2014	11/21/2014	2	14	OK
MW-24	Xylenes, Total	11/19/2014	11/21/2014	2	14	OK
MW-24	Sulfate	11/19/2014	12/1/2014	12	28	OK
MW-24	Chloride	11/19/2014	12/1/2014	12	28	OK
MW-24	Fluoride	11/19/2014	12/2/2014	13	27	OK
MW-24	Carbon tetrachloride	11/19/2014	11/21/2014	2	14	OK
MW-24	Acetone	11/19/2014	11/21/2014	2	14	OK
MW-24	Chloroform	11/19/2014	11/21/2014	2	14	OK
MW-24	Benzene	11/19/2014	11/21/2014	2	14	OK
MW-24	Chloromethane	11/19/2014	11/21/2014	2	14	OK
MW-24	Iron	11/19/2014	12/16/2014	27	180	OK
MW-24	Lead	11/19/2014	12/16/2014	27	180	OK
MW-24	Magnesium	11/19/2014	12/2/2014	13	180	OK
MW-24	Manganese	11/19/2014	12/16/2014	27	180	OK
MW-24	Mercury	11/19/2014	11/26/2014	7	180	OK
MW-24	Molybdenum	11/19/2014	12/12/2014	23	180	OK
MW-24	Nickel	11/19/2014	12/12/2014	23	180	OK
MW-24	Potassium	11/19/2014	12/2/2014	13	180	OK
MW-24	Silver	11/19/2014	12/12/2014	23	180	OK
MW-24	Sodium	11/19/2014	12/2/2014	13	180	OK
MW-24	Thallium	11/19/2014	12/16/2014	27	180	OK
MW-24	Tin	11/19/2014	12/12/2014	23	180	OK
MW-24	Arsenic	11/19/2014	12/12/2014	23	180	OK
MW-24	Beryllium	11/19/2014	12/16/2014	27	180	OK
MW-24	Cadmium	11/19/2014	12/12/2014	23	180	OK
MW-24	Chromium	11/19/2014	12/12/2014	23	180	OK
MW-24	Cobalt	11/19/2014	12/12/2014	23	180	OK
MW-24	Copper	11/19/2014	12/12/2014	23	180	OK
MW-24	Uranium	11/19/2014	12/16/2014	27	180	OK
MW-24	Vanadium	11/19/2014	12/2/2014	13	180	OK
MW-24	Zinc	11/19/2014	12/12/2014	23	180	OK
MW-24	Calcium	11/19/2014	12/2/2014	13	180	OK
MW-24	Methylene chloride	11/19/2014	11/21/2014	2	14	OK
MW-24	Selenium	11/19/2014	12/12/2014	23	180	OK
MW-24	2-Butanone	11/19/2014	11/21/2014	2	14	OK
MW-24	Naphthalene	11/19/2014	11/21/2014	2	14	OK
MW-24	Bicarbonate (as CaCO3)	11/19/2014	11/24/2014	5	14	OK
MW-24	Carbonate (as CaCO3)	11/19/2014	11/24/2014	5	14	OK
MW-24	Nitrate/Nitrite (as N)	11/19/2014	12/2/2014	13	28	OK
MW-24	Total Dissolved Solids	11/19/2014	11/21/2014	2	7	OK
MW-24	Gross Radium Alpha	11/19/2014	12/18/2014	29	180	OK
MW-24	Ammonia as N	11/19/2014	11/28/2014	9	28	OK
MW-25	Toluene	11/4/2014	11/10/2014	6	14	OK
MW-25	Tetrahydrofuran	11/4/2014	11/10/2014	6	14	OK
MW-25	Xylenes, Total	11/4/2014	11/10/2014	6	14	OK
MW-25	Sulfate	11/4/2014	11/10/2014	6	28	OK
MW-25	Chloride	11/4/2014	11/11/2014	7	28	OK
MW-25	Fluoride	11/4/2014	11/11/2014	7	27	OK
MW-25	Carbon tetrachloride	11/4/2014	11/10/2014	6	14	OK
MW-25	Acetone	11/4/2014	11/10/2014	6	14	OK
MW-25	Chloroform	11/4/2014	11/10/2014	6	14	OK
MW-25	Benzene	11/4/2014	11/10/2014	6	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-25	Chloromethane	11/4/2014	11/10/2014	6	14	OK
MW-25	Iron	11/4/2014	12/12/2014	38	180	OK
MW-25	Lead	11/4/2014	11/17/2014	13	180	OK
MW-25	Magnesium	11/4/2014	11/10/2014	6	180	OK
MW-25	Manganese	11/4/2014	11/17/2014	13	180	OK
MW-25	Mercury	11/4/2014	11/11/2014	7	180	OK
MW-25	Molybdenum	11/4/2014	11/17/2014	13	180	OK
MW-25	Nickel	11/4/2014	11/17/2014	13	180	OK
MW-25	Potassium	11/4/2014	11/10/2014	6	180	OK
MW-25	Silver	11/4/2014	11/17/2014	13	180	OK
MW-25	Sodium	11/4/2014	11/10/2014	6	180	OK
MW-25	Thallium	11/4/2014	11/17/2014	13	180	OK
MW-25	Tin	11/4/2014	11/17/2014	13	180	OK
MW-25	Arsenic	11/4/2014	11/17/2014	13	180	OK
MW-25	Beryllium	11/4/2014	11/17/2014	13	180	OK
MW-25	Cadmium	11/4/2014	11/17/2014	13	180	OK
MW-25	Chromium	11/4/2014	11/17/2014	13	180	OK
MW-25	Cobalt	11/4/2014	11/17/2014	13	180	OK
MW-25	Copper	11/4/2014	11/17/2014	13	180	OK
MW-25	Uranium	11/4/2014	11/17/2014	13	180	OK
MW-25	Vanadium	11/4/2014	11/10/2014	6	180	OK
MW-25	Zinc	11/4/2014	12/12/2014	38	180	OK
MW-25	Calcium	11/4/2014	11/10/2014	6	180	OK
MW-25	Methylene chloride	11/4/2014	11/10/2014	6	14	OK
MW-25	Selenium	11/4/2014	11/17/2014	13	180	OK
MW-25	2-Butanone	11/4/2014	11/10/2014	6	14	OK
MW-25	Naphthalene	11/4/2014	11/10/2014	6	14	OK
MW-25	Bicarbonate (as CaCO3)	11/4/2014	11/10/2014	6	14	OK
MW-25	Carbonate (as CaCO3)	11/4/2014	11/10/2014	6	14	OK
MW-25	Nitrate/Nitrite (as N)	11/4/2014	11/11/2014	7	28	OK
MW-25	Total Dissolved Solids	11/4/2014	11/7/2014	3	7	OK
MW-25	Gross Radium Alpha	11/4/2014	12/5/2014	31	180	OK
MW-25	Ammonia as N	11/4/2014	11/23/2014	19	28	OK
MW-26	Toluene	11/18/2014	11/21/2014	3	14	OK
MW-26	Tetrahydrofuran	11/18/2014	11/21/2014	3	14	OK
MW-26	Xylenes, Total	11/18/2014	11/21/2014	3	14	OK
MW-26	Sulfate	11/18/2014	12/1/2014	13	28	OK
MW-26	Chloride	11/18/2014	12/2/2014	14	28	OK
MW-26	Fluoride	11/18/2014	12/2/2014	14	27	OK
MW-26	Carbon tetrachloride	11/18/2014	11/21/2014	3	14	OK
MW-26	Acetone	11/18/2014	11/21/2014	3	14	OK
MW-26	Chloroform	11/18/2014	11/25/2014	7	14	OK
MW-26	Benzene	11/18/2014	11/21/2014	3	14	OK
MW-26	Chloromethane	11/18/2014	11/21/2014	3	14	OK
MW-26	Iron	11/18/2014	12/16/2014	28	180	OK
MW-26	Lead	11/18/2014	12/16/2014	28	180	OK
MW-26	Magnesium	11/18/2014	12/2/2014	14	180	OK
MW-26	Manganese	11/18/2014	12/12/2014	24	180	OK
MW-26	Mercury	11/18/2014	11/26/2014	8	180	OK
MW-26	Molybdenum	11/18/2014	12/12/2014	24	180	OK
MW-26	Nickel	11/18/2014	12/12/2014	24	180	OK
MW-26	Potassium	11/18/2014	12/2/2014	14	180	OK
MW-26	Silver	11/18/2014	12/12/2014	24	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-26	Sodium	11/18/2014	12/2/2014	14	180	OK
MW-26	Thallium	11/18/2014	12/16/2014	28	180	OK
MW-26	Tin	11/18/2014	12/12/2014	24	180	OK
MW-26	Arsenic	11/18/2014	12/12/2014	24	180	OK
MW-26	Beryllium	11/18/2014	12/16/2014	28	180	OK
MW-26	Cadmium	11/18/2014	12/12/2014	24	180	OK
MW-26	Chromium	11/18/2014	12/12/2014	24	180	OK
MW-26	Cobalt	11/18/2014	12/12/2014	24	180	OK
MW-26	Copper	11/18/2014	12/12/2014	24	180	OK
MW-26	Uranium	11/18/2014	12/16/2014	28	180	OK
MW-26	Vanadium	11/18/2014	12/2/2014	14	180	OK
MW-26	Zinc	11/18/2014	12/12/2014	24	180	OK
MW-26	Calcium	11/18/2014	12/2/2014	14	180	OK
MW-26	Methylene chloride	11/18/2014	11/21/2014	3	14	OK
MW-26	Selenium	11/18/2014	12/12/2014	24	180	OK
MW-26	2-Butanone	11/18/2014	11/21/2014	3	14	OK
MW-26	Naphthalene	11/18/2014	11/21/2014	3	14	OK
MW-26	Bicarbonate (as CaCO3)	11/18/2014	11/24/2014	6	14	OK
MW-26	Carbonate (as CaCO3)	11/18/2014	11/24/2014	6	14	OK
MW-26	Nitrate/Nitrite (as N)	11/18/2014	12/2/2014	14	28	OK
MW-26	Total Dissolved Solids	11/18/2014	11/21/2014	3	7	OK
MW-26	Gross Radium Alpha	11/18/2014	12/18/2014	30	180	OK
MW-26	Ammonia as N	11/18/2014	11/28/2014	10	28	OK
MW-27	Toluene	11/5/2014	11/10/2014	5	14	OK
MW-27	Tetrahydrofuran	11/5/2014	11/10/2014	5	14	OK
MW-27	Xylenes, Total	11/5/2014	11/10/2014	5	14	OK
MW-27	Sulfate	11/5/2014	11/10/2014	5	28	OK
MW-27	Chloride	11/5/2014	11/11/2014	6	28	OK
MW-27	Fluoride	11/5/2014	11/11/2014	6	27	OK
MW-27	Carbon tetrachloride	11/5/2014	11/10/2014	5	14	OK
MW-27	Acetone	11/5/2014	11/10/2014	5	14	OK
MW-27	Chloroform	11/5/2014	11/10/2014	5	14	OK
MW-27	Benzene	11/5/2014	11/10/2014	5	14	OK
MW-27	Chloromethane	11/5/2014	11/10/2014	5	14	OK
MW-27	Iron	11/5/2014	12/12/2014	37	180	OK
MW-27	Lead	11/5/2014	11/17/2014	12	180	OK
MW-27	Magnesium	11/5/2014	11/10/2014	5	180	OK
MW-27	Manganese	11/5/2014	11/17/2014	12	180	OK
MW-27	Mercury	11/5/2014	11/11/2014	6	180	OK
MW-27	Molybdenum	11/5/2014	11/17/2014	12	180	OK
MW-27	Nickel	11/5/2014	11/17/2014	12	180	OK
MW-27	Potassium	11/5/2014	11/10/2014	5	180	OK
MW-27	Silver	11/5/2014	11/17/2014	12	180	OK
MW-27	Sodium	11/5/2014	11/10/2014	5	180	OK
MW-27	Thallium	11/5/2014	11/17/2014	12	180	OK
MW-27	Tin	11/5/2014	11/17/2014	12	180	OK
MW-27	Arsenic	11/5/2014	11/17/2014	12	180	OK
MW-27	Beryllium	11/5/2014	11/17/2014	12	180	OK
MW-27	Cadmium	11/5/2014	11/17/2014	12	180	OK
MW-27	Chromium	11/5/2014	11/17/2014	12	180	OK
MW-27	Cobalt	11/5/2014	11/17/2014	12	180	OK
MW-27	Copper	11/5/2014	11/17/2014	12	180	OK
MW-27	Uranium	11/5/2014	11/17/2014	12	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	Vanadium	11/5/2014	11/10/2014	5	180	OK
MW-27	Zinc	11/5/2014	12/12/2014	37	180	OK
MW-27	Calcium	11/5/2014	11/10/2014	5	180	OK
MW-27	Methylene chloride	11/5/2014	11/10/2014	5	14	OK
MW-27	Selenium	11/5/2014	11/17/2014	12	180	OK
MW-27	2-Butanone	11/5/2014	11/10/2014	5	14	OK
MW-27	Naphthalene	11/5/2014	11/10/2014	5	14	OK
MW-27	Bicarbonate (as CaCO3)	11/5/2014	11/10/2014	5	14	OK
MW-27	Carbonate (as CaCO3)	11/5/2014	11/10/2014	5	14	OK
MW-27	Nitrate/Nitrite (as N)	11/5/2014	11/11/2014	6	28	OK
MW-27	Total Dissolved Solids	11/5/2014	11/7/2014	2	7	OK
MW-27	Gross Radium Alpha	11/5/2014	12/5/2014	30	180	OK
MW-27	Ammonia as N	11/5/2014	11/23/2014	18	28	OK
MW-28	Toluene	11/5/2014	11/10/2014	5	14	OK
MW-28	Tetrahydrofuran	11/5/2014	11/10/2014	5	14	OK
MW-28	Xylenes, Total	11/5/2014	11/10/2014	5	14	OK
MW-28	Sulfate	11/5/2014	11/10/2014	5	28	OK
MW-28	Chloride	11/5/2014	11/10/2014	5	28	OK
MW-28	Fluoride	11/5/2014	11/11/2014	6	27	OK
MW-28	Carbon tetrachloride	11/5/2014	11/10/2014	5	14	OK
MW-28	Acetone	11/5/2014	11/10/2014	5	14	OK
MW-28	Chloroform	11/5/2014	11/10/2014	5	14	OK
MW-28	Benzene	11/5/2014	11/10/2014	5	14	OK
MW-28	Chloromethane	11/5/2014	11/10/2014	5	14	OK
MW-28	Iron	11/5/2014	12/12/2014	37	180	OK
MW-28	Lead	11/5/2014	11/17/2014	12	180	OK
MW-28	Magnesium	11/5/2014	11/10/2014	5	180	OK
MW-28	Manganese	11/5/2014	11/17/2014	12	180	OK
MW-28	Mercury	11/5/2014	11/11/2014	6	180	OK
MW-28	Molybdenum	11/5/2014	11/17/2014	12	180	OK
MW-28	Nickel	11/5/2014	11/17/2014	12	180	OK
MW-28	Potassium	11/5/2014	11/10/2014	5	180	OK
MW-28	Silver	11/5/2014	11/17/2014	12	180	OK
MW-28	Sodium	11/5/2014	11/10/2014	5	180	OK
MW-28	Thallium	11/5/2014	11/17/2014	12	180	OK
MW-28	Tin	11/5/2014	11/17/2014	12	180	OK
MW-28	Arsenic	11/5/2014	11/17/2014	12	180	OK
MW-28	Beryllium	11/5/2014	11/17/2014	12	180	OK
MW-28	Cadmium	11/5/2014	11/17/2014	12	180	OK
MW-28	Chromium	11/5/2014	11/17/2014	12	180	OK
MW-28	Cobalt	11/5/2014	11/17/2014	12	180	OK
MW-28	Copper	11/5/2014	11/17/2014	12	180	OK
MW-28	Uranium	11/5/2014	11/17/2014	12	180	OK
MW-28	Vanadium	11/5/2014	11/10/2014	5	180	OK
MW-28	Zinc	11/5/2014	12/12/2014	37	180	OK
MW-28	Calcium	11/5/2014	11/10/2014	5	180	OK
MW-28	Methylene chloride	11/5/2014	11/10/2014	5	14	OK
MW-28	Selenium	11/5/2014	11/17/2014	12	180	OK
MW-28	2-Butanone	11/5/2014	11/10/2014	5	14	OK
MW-28	Naphthalene	11/5/2014	11/10/2014	5	14	OK
MW-28	Bicarbonate (as CaCO3)	11/5/2014	11/10/2014	5	14	OK
MW-28	Carbonate (as CaCO3)	11/5/2014	11/10/2014	5	14	OK
MW-28	Nitrate/Nitrite (as N)	11/5/2014	11/11/2014	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-28	Total Dissolved Solids	11/5/2014	11/7/2014	2	7	OK
MW-28	Gross Radium Alpha	11/5/2014	12/5/2014	30	180	OK
MW-28	Ammonia as N	11/5/2014	11/23/2014	18	28	OK
MW-29	Toluene	11/10/2014	11/17/2014	7	14	OK
MW-29	Tetrahydrofuran	11/10/2014	11/17/2014	7	14	OK
MW-29	Xylenes, Total	11/10/2014	11/17/2014	7	14	OK
MW-29	Sulfate	11/10/2014	11/17/2014	7	28	OK
MW-29	Chloride	11/10/2014	11/18/2014	8	28	OK
MW-29	Fluoride	11/10/2014	11/18/2014	8	27	OK
MW-29	Carbon tetrachloride	11/10/2014	11/17/2014	7	14	OK
MW-29	Acetone	11/10/2014	11/17/2014	7	14	OK
MW-29	Chloroform	11/10/2014	11/17/2014	7	14	OK
MW-29	Benzene	11/10/2014	11/17/2014	7	14	OK
MW-29	Chloromethane	11/10/2014	11/17/2014	7	14	OK
MW-29	Iron	11/10/2014	12/12/2014	32	180	OK
MW-29	Lead	11/10/2014	12/12/2014	32	180	OK
MW-29	Magnesium	11/10/2014	11/21/2014	11	180	OK
MW-29	Manganese	11/10/2014	12/16/2014	36	180	OK
MW-29	Mercury	11/10/2014	11/19/2014	9	180	OK
MW-29	Molybdenum	11/10/2014	12/12/2014	32	180	OK
MW-29	Nickel	11/10/2014	12/12/2014	32	180	OK
MW-29	Potassium	11/10/2014	11/21/2014	11	180	OK
MW-29	Vanadium	11/10/2014	11/21/2014	11	180	OK
MW-29	Zinc	11/10/2014	12/12/2014	32	180	OK
MW-29	Calcium	11/10/2014	11/21/2014	11	180	OK
MW-29	Methylene chloride	11/10/2014	11/17/2014	7	14	OK
MW-29	Selenium	11/10/2014	12/12/2014	32	180	OK
MW-29	2-Butanone	11/10/2014	11/17/2014	7	14	OK
MW-29	Naphthalene	11/10/2014	11/17/2014	7	14	OK
MW-29	Bicarbonate (as CaCO3)	11/10/2014	11/17/2014	7	14	OK
MW-29	Carbonate (as CaCO3)	11/10/2014	11/17/2014	7	14	OK
MW-29	Nitrate/Nitrite (as N)	11/10/2014	11/20/2014	10	28	OK
MW-29	Total Dissolved Solids	11/10/2014	11/14/2014	4	7	OK
MW-29	Uranium	11/10/2014	12/16/2014	36	180	OK
MW-29	Copper	11/10/2014	12/12/2014	32	180	OK
MW-29	Cobalt	11/10/2014	12/12/2014	32	180	OK
MW-29	Chromium	11/10/2014	12/12/2014	32	180	OK
MW-29	Cadmium	11/10/2014	12/12/2014	32	180	OK
MW-29	Beryllium	11/10/2014	12/12/2014	32	180	OK
MW-29	Arsenic	11/10/2014	12/12/2014	32	180	OK
MW-29	Tin	11/10/2014	12/12/2014	32	180	OK
MW-29	Thallium	11/10/2014	12/12/2014	32	180	OK
MW-29	Sodium	11/10/2014	11/21/2014	11	180	OK
MW-29	Silver	11/10/2014	12/12/2014	32	180	OK
MW-29	Gross Radium Alpha	11/10/2014	12/7/2014	27	180	OK
MW-29	Ammonia as N	11/10/2014	11/28/2014	18	28	OK
MW-30	Total Dissolved Solids	11/10/2014	11/14/2014	4	7	OK
MW-30	Nitrate/Nitrite (as N)	11/10/2014	11/20/2014	10	28	OK
MW-30	Carbonate (as CaCO3)	11/10/2014	11/17/2014	7	14	OK
MW-30	Bicarbonate (as CaCO3)	11/10/2014	11/17/2014	7	14	OK
MW-30	Naphthalene	11/10/2014	11/17/2014	7	14	OK
MW-30	2-Butanone	11/10/2014	11/17/2014	7	14	OK
MW-30	Selenium	11/10/2014	12/12/2014	32	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-30	Methylene chloride	11/10/2014	11/17/2014	7	14	OK
MW-30	Calcium	11/10/2014	11/21/2014	11	180	OK
MW-30	Zinc	11/10/2014	12/12/2014	32	180	OK
MW-30	Vanadium	11/10/2014	11/21/2014	11	180	OK
MW-30	Uranium	11/10/2014	12/16/2014	36	180	OK
MW-30	Copper	11/10/2014	12/12/2014	32	180	OK
MW-30	Cobalt	11/10/2014	12/12/2014	32	180	OK
MW-30	Chromium	11/10/2014	12/12/2014	32	180	OK
MW-30	Cadmium	11/10/2014	12/12/2014	32	180	OK
MW-30	Beryllium	11/10/2014	12/12/2014	32	180	OK
MW-30	Arsenic	11/10/2014	12/12/2014	32	180	OK
MW-30	Tin	11/10/2014	12/12/2014	32	180	OK
MW-30	Thallium	11/10/2014	12/12/2014	32	180	OK
MW-30	Sodium	11/10/2014	11/21/2014	11	180	OK
MW-30	Silver	11/10/2014	12/12/2014	32	180	OK
MW-30	Potassium	11/10/2014	11/21/2014	11	180	OK
MW-30	Nickel	11/10/2014	12/12/2014	32	180	OK
MW-30	Molybdenum	11/10/2014	12/12/2014	32	180	OK
MW-30	Mercury	11/10/2014	11/19/2014	9	180	OK
MW-30	Manganese	11/10/2014	12/12/2014	32	180	OK
MW-30	Magnesium	11/10/2014	11/21/2014	11	180	OK
MW-30	Lead	11/10/2014	12/12/2014	32	180	OK
MW-30	Iron	11/10/2014	12/12/2014	32	180	OK
MW-30	Chloromethane	11/10/2014	11/17/2014	7	14	OK
MW-30	Benzene	11/10/2014	11/17/2014	7	14	OK
MW-30	Chloroform	11/10/2014	11/17/2014	7	14	OK
MW-30	Acetone	11/10/2014	11/17/2014	7	14	OK
MW-30	Carbon tetrachloride	11/10/2014	11/17/2014	7	14	OK
MW-30	Fluoride	11/10/2014	11/18/2014	8	27	OK
MW-30	Chloride	11/10/2014	11/17/2014	7	28	OK
MW-30	Sulfate	11/10/2014	11/17/2014	7	28	OK
MW-30	Xylenes, Total	11/10/2014	11/17/2014	7	14	OK
MW-30	Tetrahydrofuran	11/10/2014	11/17/2014	7	14	OK
MW-30	Toluene	11/10/2014	11/17/2014	7	14	OK
MW-30	Gross Radium Alpha	11/10/2014	12/7/2014	27	180	OK
MW-30	Ammonia as N	11/10/2014	11/28/2014	18	28	OK
MW-31	Toluene	11/4/2014	11/10/2014	6	14	OK
MW-31	Tetrahydrofuran	11/4/2014	11/10/2014	6	14	OK
MW-31	Xylenes, Total	11/4/2014	11/10/2014	6	14	OK
MW-31	Sulfate	11/4/2014	11/10/2014	6	28	OK
MW-31	Chloride	11/4/2014	11/10/2014	6	28	OK
MW-31	Fluoride	11/4/2014	11/11/2014	7	27	OK
MW-31	Carbon tetrachloride	11/4/2014	11/10/2014	6	14	OK
MW-31	Acetone	11/4/2014	11/10/2014	6	14	OK
MW-31	Chloroform	11/4/2014	11/10/2014	6	14	OK
MW-31	Benzene	11/4/2014	11/10/2014	6	14	OK
MW-31	Chloromethane	11/4/2014	11/10/2014	6	14	OK
MW-31	Iron	11/4/2014	12/12/2014	38	180	OK
MW-31	Lead	11/4/2014	11/17/2014	13	180	OK
MW-31	Magnesium	11/4/2014	11/10/2014	6	180	OK
MW-31	Manganese	11/4/2014	11/17/2014	13	180	OK
MW-31	Mercury	11/4/2014	11/11/2014	7	180	OK
MW-31	Molybdenum	11/4/2014	11/17/2014	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-31	Nickel	11/4/2014	11/17/2014	13	180	OK
MW-31	Potassium	11/4/2014	11/10/2014	6	180	OK
MW-31	Silver	11/4/2014	11/17/2014	13	180	OK
MW-31	Sodium	11/4/2014	11/10/2014	6	180	OK
MW-31	Thallium	11/4/2014	11/17/2014	13	180	OK
MW-31	Tin	11/4/2014	11/17/2014	13	180	OK
MW-31	Arsenic	11/4/2014	11/17/2014	13	180	OK
MW-31	Beryllium	11/4/2014	11/17/2014	13	180	OK
MW-31	Cadmium	11/4/2014	11/17/2014	13	180	OK
MW-31	Chromium	11/4/2014	11/17/2014	13	180	OK
MW-31	Cobalt	11/4/2014	11/17/2014	13	180	OK
MW-31	Copper	11/4/2014	11/17/2014	13	180	OK
MW-31	Uranium	11/4/2014	11/17/2014	13	180	OK
MW-31	Vanadium	11/4/2014	11/10/2014	6	180	OK
MW-31	Zinc	11/4/2014	12/12/2014	38	180	OK
MW-31	Calcium	11/4/2014	11/10/2014	6	180	OK
MW-31	Methylene chloride	11/4/2014	11/10/2014	6	14	OK
MW-31	Selenium	11/4/2014	11/17/2014	13	180	OK
MW-31	2-Butanone	11/4/2014	11/10/2014	6	14	OK
MW-31	Naphthalene	11/4/2014	11/10/2014	6	14	OK
MW-31	Bicarbonate (as CaCO3)	11/4/2014	11/10/2014	6	14	OK
MW-31	Carbonate (as CaCO3)	11/4/2014	11/10/2014	6	14	OK
MW-31	Nitrate/Nitrite (as N)	11/4/2014	11/11/2014	7	28	OK
MW-31	Total Dissolved Solids	11/4/2014	11/7/2014	3	7	OK
MW-31	Gross Radium Alpha	11/4/2014	12/5/2014	31	180	OK
MW-31	Ammonia as N	11/4/2014	11/23/2014	19	28	OK
MW-32	Toluene	11/5/2014	11/10/2014	5	14	OK
MW-32	Tetrahydrofuran	11/5/2014	11/10/2014	5	14	OK
MW-32	Xylenes, Total	11/5/2014	11/10/2014	5	14	OK
MW-32	Sulfate	11/5/2014	11/10/2014	5	28	OK
MW-32	Chloride	11/5/2014	11/11/2014	6	28	OK
MW-32	Fluoride	11/5/2014	11/11/2014	6	27	OK
MW-32	Carbon tetrachloride	11/5/2014	11/10/2014	5	14	OK
MW-32	Acetone	11/5/2014	11/10/2014	5	14	OK
MW-32	Chloroform	11/5/2014	11/10/2014	5	14	OK
MW-32	Benzene	11/5/2014	11/10/2014	5	14	OK
MW-32	Chloromethane	11/5/2014	11/10/2014	5	14	OK
MW-32	Iron	11/5/2014	12/16/2014	41	180	OK
MW-32	Lead	11/5/2014	11/17/2014	12	180	OK
MW-32	Magnesium	11/5/2014	11/10/2014	5	180	OK
MW-32	Manganese	11/5/2014	12/16/2014	41	180	OK
MW-32	Mercury	11/5/2014	11/11/2014	6	180	OK
MW-32	Molybdenum	11/5/2014	11/17/2014	12	180	OK
MW-32	Nickel	11/5/2014	11/17/2014	12	180	OK
MW-32	Potassium	11/5/2014	11/10/2014	5	180	OK
MW-32	Silver	11/5/2014	11/17/2014	12	180	OK
MW-32	Sodium	11/5/2014	11/10/2014	5	180	OK
MW-32	Thallium	11/5/2014	11/17/2014	12	180	OK
MW-32	Tin	11/5/2014	11/17/2014	12	180	OK
MW-32	Arsenic	11/5/2014	11/17/2014	12	180	OK
MW-32	Beryllium	11/5/2014	11/17/2014	12	180	OK
MW-32	Cadmium	11/5/2014	11/17/2014	12	180	OK
MW-32	Chromium	11/5/2014	11/17/2014	12	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-32	Cobalt	11/5/2014	11/17/2014	12	180	OK
MW-32	Copper	11/5/2014	11/17/2014	12	180	OK
MW-32	Uranium	11/5/2014	11/17/2014	12	180	OK
MW-32	Vanadium	11/5/2014	1/21/2015	77	180	OK
MW-32	Zinc	11/5/2014	12/12/2014	37	180	OK
MW-32	Calcium	11/5/2014	11/10/2014	5	180	OK
MW-32	Methylene chloride	11/5/2014	11/10/2014	5	14	OK
MW-32	Selenium	11/5/2014	11/17/2014	12	180	OK
MW-32	2-Butanone	11/5/2014	11/10/2014	5	14	OK
MW-32	Naphthalene	11/5/2014	11/10/2014	5	14	OK
MW-32	Bicarbonate (as CaCO3)	11/5/2014	11/10/2014	5	14	OK
MW-32	Carbonate (as CaCO3)	11/5/2014	11/10/2014	5	14	OK
MW-32	Nitrate/Nitrite (as N)	11/5/2014	11/11/2014	6	28	OK
MW-32	Total Dissolved Solids	11/5/2014	11/7/2014	2	7	OK
MW-32	Gross Radium Alpha	11/5/2014	12/5/2014	30	180	OK
MW-32	Ammonia as N	11/5/2014	11/23/2014	18	28	OK
MW-35	Total Dissolved Solids	11/12/2014	11/14/2014	2	7	OK
MW-35	Nitrate/Nitrite (as N)	11/12/2014	11/20/2014	8	28	OK
MW-35	Carbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-35	Bicarbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-35	Naphthalene	11/12/2014	11/17/2014	5	14	OK
MW-35	2-Butanone	11/12/2014	11/17/2014	5	14	OK
MW-35	Selenium	11/12/2014	12/12/2014	30	180	OK
MW-35	Methylene chloride	11/12/2014	11/17/2014	5	14	OK
MW-35	Calcium	11/12/2014	11/21/2014	9	180	OK
MW-35	Lead	11/12/2014	12/12/2014	30	180	OK
MW-35	Iron	11/12/2014	12/12/2014	30	180	OK
MW-35	Chloromethane	11/12/2014	11/17/2014	5	14	OK
MW-35	Benzene	11/12/2014	11/17/2014	5	14	OK
MW-35	Chloroform	11/12/2014	11/17/2014	5	14	OK
MW-35	Acetone	11/12/2014	11/17/2014	5	14	OK
MW-35	Carbon tetrachloride	11/12/2014	11/17/2014	5	14	OK
MW-35	Fluoride	11/12/2014	11/18/2014	6	27	OK
MW-35	Chloride	11/12/2014	11/18/2014	6	28	OK
MW-35	Sulfate	11/12/2014	11/17/2014	5	28	OK
MW-35	Xylenes, Total	11/12/2014	11/17/2014	5	14	OK
MW-35	Tetrahydrofuran	11/12/2014	11/17/2014	5	14	OK
MW-35	Toluene	11/12/2014	11/17/2014	5	14	OK
MW-35	Zinc	11/12/2014	12/12/2014	30	180	OK
MW-35	Vanadium	11/12/2014	11/21/2014	9	180	OK
MW-35	Uranium	11/12/2014	12/16/2014	34	180	OK
MW-35	Copper	11/12/2014	12/12/2014	30	180	OK
MW-35	Cobalt	11/12/2014	12/12/2014	30	180	OK
MW-35	Chromium	11/12/2014	12/12/2014	30	180	OK
MW-35	Cadmium	11/12/2014	12/12/2014	30	180	OK
MW-35	Beryllium	11/12/2014	12/12/2014	30	180	OK
MW-35	Arsenic	11/12/2014	12/12/2014	30	180	OK
MW-35	Tin	11/12/2014	12/12/2014	30	180	OK
MW-35	Thallium	11/12/2014	12/12/2014	30	180	OK
MW-35	Sodium	11/12/2014	11/21/2014	9	180	OK
MW-35	Silver	11/12/2014	12/12/2014	30	180	OK
MW-35	Potassium	11/12/2014	11/21/2014	9	180	OK
MW-35	Nickel	11/12/2014	12/12/2014	30	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	Molybdenum	11/12/2014	12/12/2014	30	180	OK
MW-35	Mercury	11/12/2014	11/19/2014	7	180	OK
MW-35	Manganese	11/12/2014	12/12/2014	30	180	OK
MW-35	Magnesium	11/12/2014	11/21/2014	9	180	OK
MW-35	Gross Radium Alpha	11/12/2014	2/1/2015	81	180	OK
MW-35	Ammonia as N	11/12/2014	11/28/2014	16	28	OK
MW-36	Bicarbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-36	Naphthalene	11/12/2014	11/17/2014	5	14	OK
MW-36	2-Butanone	11/12/2014	11/17/2014	5	14	OK
MW-36	Selenium	11/12/2014	12/12/2014	30	180	OK
MW-36	Methylene chloride	11/12/2014	11/17/2014	5	14	OK
MW-36	Calcium	11/12/2014	11/21/2014	9	180	OK
MW-36	Zinc	11/12/2014	12/12/2014	30	180	OK
MW-36	Lead	11/12/2014	12/12/2014	30	180	OK
MW-36	Iron	11/12/2014	12/12/2014	30	180	OK
MW-36	Chloromethane	11/12/2014	11/17/2014	5	14	OK
MW-36	Benzene	11/12/2014	11/17/2014	5	14	OK
MW-36	Chloroform	11/12/2014	11/17/2014	5	14	OK
MW-36	Acetone	11/12/2014	11/17/2014	5	14	OK
MW-36	Carbon tetrachloride	11/12/2014	11/17/2014	5	14	OK
MW-36	Fluoride	11/12/2014	11/19/2014	7	27	OK
MW-36	Chloride	11/12/2014	11/18/2014	6	28	OK
MW-36	Sulfate	11/12/2014	11/17/2014	5	28	OK
MW-36	Xylenes, Total	11/12/2014	11/17/2014	5	14	OK
MW-36	Tetrahydrofuran	11/12/2014	11/17/2014	5	14	OK
MW-36	Toluene	11/12/2014	11/17/2014	5	14	OK
MW-36	Carbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-36	Nitrate/Nitrite (as N)	11/12/2014	11/20/2014	8	28	OK
MW-36	Total Dissolved Solids	11/12/2014	11/14/2014	2	7	OK
MW-36	Vanadium	11/12/2014	11/21/2014	9	180	OK
MW-36	Uranium	11/12/2014	12/16/2014	34	180	OK
MW-36	Copper	11/12/2014	12/12/2014	30	180	OK
MW-36	Cobalt	11/12/2014	12/12/2014	30	180	OK
MW-36	Chromium	11/12/2014	12/12/2014	30	180	OK
MW-36	Cadmium	11/12/2014	12/12/2014	30	180	OK
MW-36	Beryllium	11/12/2014	12/12/2014	30	180	OK
MW-36	Arsenic	11/12/2014	12/12/2014	30	180	OK
MW-36	Tin	11/12/2014	12/12/2014	30	180	OK
MW-36	Thallium	11/12/2014	12/12/2014	30	180	OK
MW-36	Sodium	11/12/2014	11/21/2014	9	180	OK
MW-36	Silver	11/12/2014	12/12/2014	30	180	OK
MW-36	Potassium	11/12/2014	11/21/2014	9	180	OK
MW-36	Nickel	11/12/2014	12/12/2014	30	180	OK
MW-36	Molybdenum	11/12/2014	12/12/2014	30	180	OK
MW-36	Mercury	11/12/2014	11/19/2014	7	180	OK
MW-36	Manganese	11/12/2014	12/12/2014	30	180	OK
MW-36	Magnesium	11/12/2014	11/21/2014	9	180	OK
MW-36	Gross Radium Alpha	11/12/2014	2/2/2015	82	180	OK
MW-36	Ammonia as N	11/12/2014	11/28/2014	16	28	OK
MW-37	Toluene	12/3/2014	12/5/2014	2	14	OK
MW-37	Tetrahydrofuran	12/3/2014	12/5/2014	2	14	OK
MW-37	Xylenes, Total	12/3/2014	12/5/2014	2	14	OK
MW-37	Sulfate	12/3/2014	12/8/2014	5	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-37	Chloride	12/3/2014	12/8/2014	5	28	OK
MW-37	Fluoride	12/3/2014	12/8/2014	5	27	OK
MW-37	Carbon tetrachloride	12/3/2014	12/5/2014	2	14	OK
MW-37	Acetone	12/3/2014	12/5/2014	2	14	OK
MW-37	Chloroform	12/3/2014	12/5/2014	2	14	OK
MW-37	Benzene	12/3/2014	12/5/2014	2	14	OK
MW-37	Chloromethane	12/3/2014	12/5/2014	2	14	OK
MW-37	Iron	12/3/2014	12/16/2014	13	180	OK
MW-37	Lead	12/3/2014	12/16/2014	13	180	OK
MW-37	Magnesium	12/3/2014	12/11/2014	8	180	OK
MW-37	Manganese	12/3/2014	12/12/2014	9	180	OK
MW-37	Mercury	12/3/2014	12/9/2014	6	180	OK
MW-37	Molybdenum	12/3/2014	12/12/2014	9	180	OK
MW-37	Nickel	12/3/2014	12/12/2014	9	180	OK
MW-37	Potassium	12/3/2014	12/11/2014	8	180	OK
MW-37	Silver	12/3/2014	12/12/2014	9	180	OK
MW-37	Sodium	12/3/2014	12/11/2014	8	180	OK
MW-37	Thallium	12/3/2014	12/16/2014	13	180	OK
MW-37	Tin	12/3/2014	12/12/2014	9	180	OK
MW-37	Arsenic	12/3/2014	12/12/2014	9	180	OK
MW-37	Beryllium	12/3/2014	12/16/2014	13	180	OK
MW-37	Cadmium	12/3/2014	12/12/2014	9	180	OK
MW-37	Chromium	12/3/2014	12/12/2014	9	180	OK
MW-37	Cobalt	12/3/2014	12/12/2014	9	180	OK
MW-37	Copper	12/3/2014	12/12/2014	9	180	OK
MW-37	Uranium	12/3/2014	12/16/2014	13	180	OK
MW-37	Vanadium	12/3/2014	12/11/2014	8	180	OK
MW-37	Zinc	12/3/2014	12/12/2014	9	180	OK
MW-37	Calcium	12/3/2014	12/11/2014	8	180	OK
MW-37	Methylene chloride	12/3/2014	12/5/2014	2	14	OK
MW-37	Selenium	12/3/2014	12/12/2014	9	180	OK
MW-37	2-Butanone	12/3/2014	12/5/2014	2	14	OK
MW-37	Naphthalene	12/3/2014	12/5/2014	2	14	OK
MW-37	Bicarbonate (as CaCO3)	12/3/2014	12/8/2014	5	14	OK
MW-37	Carbonate (as CaCO3)	12/3/2014	12/8/2014	5	14	OK
MW-37	Nitrate/Nitrite (as N)	12/3/2014	12/24/2014	21	28	OK
MW-37	Total Dissolved Solids	12/3/2014	12/8/2014	5	7	OK
MW-37	Gross Radium Alpha	12/3/2014	1/2/2015	30	180	OK
MW-37	Ammonia as N	12/3/2014	12/14/2014	11	28	OK
MW-65	Toluene	11/12/2014	11/17/2014	5	14	OK
MW-65	Tetrahydrofuran	11/12/2014	11/17/2014	5	14	OK
MW-65	Xylenes, Total	11/12/2014	11/17/2014	5	14	OK
MW-65	Sulfate	11/12/2014	11/17/2014	5	28	OK
MW-65	Chloride	11/12/2014	11/18/2014	6	28	OK
MW-65	Fluoride	11/12/2014	11/19/2014	7	27	OK
MW-65	Carbon tetrachloride	11/12/2014	11/17/2014	5	14	OK
MW-65	Acetone	11/12/2014	11/17/2014	5	14	OK
MW-65	Chloroform	11/12/2014	11/17/2014	5	14	OK
MW-65	Benzene	11/12/2014	11/17/2014	5	14	OK
MW-65	Chloromethane	11/12/2014	11/17/2014	5	14	OK
MW-65	Iron	11/12/2014	12/12/2014	30	180	OK
MW-65	Lead	11/12/2014	12/12/2014	30	180	OK
MW-65	Magnesium	11/12/2014	11/21/2014	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-65	Manganese	11/12/2014	12/12/2014	30	180	OK
MW-65	Mercury	11/12/2014	11/19/2014	7	180	OK
MW-65	Molybdenum	11/12/2014	12/12/2014	30	180	OK
MW-65	Nickel	11/12/2014	12/12/2014	30	180	OK
MW-65	Potassium	11/12/2014	11/21/2014	9	180	OK
MW-65	Silver	11/12/2014	12/12/2014	30	180	OK
MW-65	Sodium	11/12/2014	11/21/2014	9	180	OK
MW-65	Thallium	11/12/2014	12/12/2014	30	180	OK
MW-65	Tin	11/12/2014	12/12/2014	30	180	OK
MW-65	Arsenic	11/12/2014	12/12/2014	30	180	OK
MW-65	Beryllium	11/12/2014	12/12/2014	30	180	OK
MW-65	Cadmium	11/12/2014	12/12/2014	30	180	OK
MW-65	Chromium	11/12/2014	12/12/2014	30	180	OK
MW-65	Cobalt	11/12/2014	12/12/2014	30	180	OK
MW-65	Copper	11/12/2014	12/12/2014	30	180	OK
MW-65	Uranium	11/12/2014	12/16/2014	34	180	OK
MW-65	Vanadium	11/12/2014	11/21/2014	9	180	OK
MW-65	Zinc	11/12/2014	12/12/2014	30	180	OK
MW-65	Calcium	11/12/2014	11/21/2014	9	180	OK
MW-65	Methylene chloride	11/12/2014	11/17/2014	5	14	OK
MW-65	Selenium	11/12/2014	12/12/2014	30	180	OK
MW-65	2-Butanone	11/12/2014	11/17/2014	5	14	OK
MW-65	Naphthalene	11/12/2014	11/17/2014	5	14	OK
MW-65	Bicarbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-65	Carbonate (as CaCO3)	11/12/2014	11/17/2014	5	14	OK
MW-65	Nitrate/Nitrite (as N)	11/12/2014	11/20/2014	8	28	OK
MW-65	Total Dissolved Solids	11/12/2014	11/14/2014	2	7	OK
MW-65	Gross Radium Alpha	11/12/2014	2/1/2015	81	180	OK
MW-65	Ammonia as N	11/12/2014	11/28/2014	16	28	OK
MW-70	Toluene	11/18/2014	11/21/2014	3	14	OK
MW-70	Tetrahydrofuran	11/18/2014	11/21/2014	3	14	OK
MW-70	Xylenes, Total	11/18/2014	11/21/2014	3	14	OK
MW-70	Sulfate	11/18/2014	12/1/2014	13	28	OK
MW-70	Chloride	11/18/2014	12/2/2014	14	28	OK
MW-70	Fluoride	11/18/2014	12/2/2014	14	27	OK
MW-70	Carbon tetrachloride	11/18/2014	11/21/2014	3	14	OK
MW-70	Acetone	11/18/2014	11/21/2014	3	14	OK
MW-70	Chloroform	11/18/2014	11/21/2014	3	14	OK
MW-70	Benzene	11/18/2014	11/21/2014	3	14	OK
MW-70	Chloromethane	11/18/2014	11/21/2014	3	14	OK
MW-70	Iron	11/18/2014	12/16/2014	28	180	OK
MW-70	Lead	11/18/2014	12/16/2014	28	180	OK
MW-70	Magnesium	11/18/2014	12/2/2014	14	180	OK
MW-70	Manganese	11/18/2014	12/16/2014	28	180	OK
MW-70	Mercury	11/18/2014	11/26/2014	8	180	OK
MW-70	Molybdenum	11/18/2014	12/12/2014	24	180	OK
MW-70	Nickel	11/18/2014	12/12/2014	24	180	OK
MW-70	Potassium	11/18/2014	12/2/2014	14	180	OK
MW-70	Silver	11/18/2014	12/12/2014	24	180	OK
MW-70	Sodium	11/18/2014	12/2/2014	14	180	OK
MW-70	Thallium	11/18/2014	12/16/2014	28	180	OK
MW-70	Tin	11/18/2014	12/12/2014	24	180	OK
MW-70	Arsenic	11/18/2014	12/12/2014	24	180	OK

G-2A: Quarterly Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-70	Beryllium	11/18/2014	12/16/2014	28	180	OK
MW-70	Cadmium	11/18/2014	12/12/2014	24	180	OK
MW-70	Chromium	11/18/2014	12/12/2014	24	180	OK
MW-70	Cobalt	11/18/2014	12/12/2014	24	180	OK
MW-70	Copper	11/18/2014	12/12/2014	24	180	OK
MW-70	Uranium	11/18/2014	12/16/2014	28	180	OK
MW-70	Vanadium	11/18/2014	12/2/2014	14	180	OK
MW-70	Zinc	11/18/2014	12/12/2014	24	180	OK
MW-70	Calcium	11/18/2014	12/2/2014	14	180	OK
MW-70	Methylene chloride	11/18/2014	11/21/2014	3	14	OK
MW-70	Selenium	11/18/2014	12/12/2014	24	180	OK
MW-70	2-Butanone	11/18/2014	11/21/2014	3	14	OK
MW-70	Naphthalene	11/18/2014	11/21/2014	3	14	OK
MW-70	Bicarbonate (as CaCO ₃)	11/18/2014	11/24/2014	6	14	OK
MW-70	Carbonate (as CaCO ₃)	11/18/2014	11/24/2014	6	14	OK
MW-70	Nitrate/Nitrite (as N)	11/18/2014	12/2/2014	14	28	OK
MW-70	Total Dissolved Solids	11/18/2014	11/21/2014	3	7	OK
MW-70	Gross Radium Alpha	11/18/2014	12/18/2014	30	180	OK
MW-70	Ammonia as N	11/18/2014	11/28/2014	10	28	OK

G-2B: Accelerated Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Carbon tetrachloride	10/6/2014	10/13/2014	7	14	OK
Trip Blank	Chloroform	10/6/2014	10/13/2014	7	14	OK
Trip Blank	Methylene chloride	10/6/2014	10/13/2014	7	14	OK
Trip Blank	Carbon tetrachloride	12/15/2014	12/16/2014	1	14	OK
Trip Blank	Chloroform	12/15/2014	12/16/2014	1	14	OK
Trip Blank	Methylene chloride	12/15/2014	12/16/2014	1	14	OK
MW-11	Manganese	10/6/2014	10/31/2014	25	180	OK
MW-11	Manganese	12/10/2014	12/17/2014	7	180	OK
MW-25	Cadmium	10/6/2014	10/31/2014	25	180	OK
MW-25	Uranium	10/6/2014	10/31/2014	25	180	OK
MW-25	Cadmium	12/9/2014	12/16/2014	7	180	OK
MW-25	Uranium	12/9/2014	12/16/2014	7	180	OK
MW-26	Chloride	10/7/2014	10/13/2014	6	28	OK
MW-26	Carbon tetrachloride	10/7/2014	10/13/2014	6	14	OK
MW-26	Chloroform	10/7/2014	10/13/2014	6	14	OK
MW-26	Uranium	10/7/2014	10/31/2014	24	180	OK
MW-26	Methylene chloride	10/7/2014	10/13/2014	6	14	OK
MW-26	Nitrate/Nitrite (as N)	10/7/2014	10/10/2014	3	28	OK
MW-26	Chloride	12/10/2014	12/12/2014	2	28	OK
MW-26	Uranium	12/10/2014	12/16/2014	6	180	OK
MW-26	Nitrate/Nitrite (as N)	12/10/2014	12/15/2014	5	28	OK
MW-26	Carbon tetrachloride	12/15/2014	12/16/2014	1	14	OK
MW-26	Chloroform	12/15/2014	12/16/2014	1	14	OK
MW-26	Methylene chloride	12/15/2014	12/16/2014	1	14	OK
MW-30	Chloride	10/7/2014	10/13/2014	6	28	OK
MW-30	Uranium	10/7/2014	11/3/2014	27	180	OK
MW-30	Selenium	10/7/2014	11/3/2014	27	180	OK
MW-30	Nitrate/Nitrite (as N)	10/7/2014	10/10/2014	3	28	OK
MW-30	Chloride	12/10/2014	12/12/2014	2	28	OK
MW-30	Uranium	12/10/2014	12/16/2014	6	180	OK
MW-30	Selenium	12/10/2014	12/17/2014	7	180	OK
MW-30	Nitrate/Nitrite (as N)	12/10/2014	12/15/2014	5	28	OK
MW-31	Sulfate	10/6/2014	10/13/2014	7	28	OK
MW-31	Chloride	10/6/2014	10/13/2014	7	28	OK
MW-31	Selenium	10/6/2014	11/3/2014	28	180	OK
MW-31	Nitrate/Nitrite (as N)	10/6/2014	10/10/2014	4	28	OK
MW-31	Total Dissolved Solids	10/6/2014	10/10/2014	4	7	OK
MW-31	Sulfate	12/9/2014	12/12/2014	3	28	OK
MW-31	Chloride	12/9/2014	12/12/2014	3	28	OK
MW-31	Selenium	12/9/2014	12/16/2014	7	180	OK
MW-31	Nitrate/Nitrite (as N)	12/9/2014	12/15/2014	6	28	OK
MW-31	Total Dissolved Solids	12/9/2014	12/12/2014	3	7	OK
MW-35	Gross Radium Alpha	12/9/2014	1/28/2015	50	180	OK
MW-35	Manganese	10/6/2014	10/31/2014	25	180	OK
MW-35	Thallium	10/6/2014	10/31/2014	25	180	OK
MW-35	Uranium	10/6/2014	10/31/2014	25	180	OK
MW-35	Selenium	10/6/2014	11/3/2014	28	180	OK
MW-35	Gross Radium Alpha	10/6/2014	10/22/2014	16	180	OK
MW-35	Manganese	12/9/2014	12/17/2014	8	180	OK
MW-35	Thallium	12/9/2014	12/16/2014	7	180	OK
MW-35	Uranium	12/9/2014	12/16/2014	7	180	OK
MW-35	Selenium	12/9/2014	12/16/2014	7	180	OK
MW-65	Manganese	10/6/2014	10/31/2014	25	180	OK

G-2B: Accelerated Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Thallium	10/6/2014	10/31/2014	25	180	OK
MW-65	Uranium	10/6/2014	10/31/2014	25	180	OK
MW-65	Selenium	10/6/2014	11/3/2014	28	180	OK
MW-65	Gross Radium Alpha	10/6/2014	10/22/2014	16	180	OK
MW-65	Manganese	12/10/2014	12/17/2014	7	180	OK
MW-65	Carbon tetrachloride	12/15/2014	12/16/2014	1	14	OK
MW-65	Chloroform	12/15/2014	12/16/2014	1	14	OK
MW-65	Methylene chloride	12/15/2014	12/16/2014	1	14	OK

G-3A: Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
AWAL 1412120	MW-20, MW-37	3.2 °C
AWAL 1411349	MW-01, MW-02, MW-03, MW-11, MW-22, MW-23, MW-24, MW-26, MW-70	2.3 °C
AWAL 1411097	MW-25, MW-27, MW-28, MW-31, MW-32	1.7 °C
AWAL 1411223	MW-03A, MW-05, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-29, MW-30, MW-35, MW-36, MW-65	0.4 °C
GEL 360919	MW-25, MW-27, MW-28, MW-31, MW-32	N/A
GEL 361392	MW-05, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-29, MW-30	N/A
GEL 361952	MW-01, MW-02, MW-03, MW-03A, MW-11, MW-22, MW-23, MW-24, MW-26, MW-70	N/A
GEL 366166	MW-35, MW-36, MW-65	N/A
GEL 362602	MW-20, MW-37	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 1410137	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65, Trip Blank	3.1 °C
GEL 358875	MW-35, MW-65	NA
AWAL 1412240	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65	3.5 °C
AWAL 1412317	MW-26 Resample, MW-65 Resample, Trip Blank	4.0 °C
GEL	MW-35	N/A

N/A = These shipments contained samples for the analysis of gross alpha only. Per Table 1 in the approved QAP, samples submitted for gross alpha analyses do not have a sample temperature requirement.

G-4A: Analytical Method Check

Parameter	QAP Method*	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	A4500-NH3 D
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 ₃ , Bicarbonate as HCO ₃	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 Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
Trip Blank	2-Butanone	20	ug/L	U	1	20	OK
Trip Blank	Acetone	20	ug/L	U	1	20	OK
Trip Blank	Benzene	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Chloromethane	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Naphthalene	1	ug/L	U	1	1	OK
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	1	OK
Trip Blank	Toluene	1	ug/L	U	1	1	OK
Trip Blank	Xylenes, Total	1	ug/L	U	1	1	OK
MW-01	2-Butanone	20	ug/L	U	1	20	OK
MW-01	Acetone	20	ug/L	U	1	20	OK
MW-01	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-01	Arsenic	5	ug/L	U	20	5	OK
MW-01	Benzene	1	ug/L	U	1	1	OK
MW-01	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-01	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-01	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-01	Calcium	100	mg/L		100	0.5	OK
MW-01	Carbon tetrachloride	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-01	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-01	Chloride	10	mg/L		10	1	OK
MW-01	Chloroform	1	ug/L	U	1	1	OK
MW-01	Chloromethane	1	ug/L	U	1	1	OK
MW-01	Chromium	25	ug/L	U	20	25	OK
MW-01	Cobalt	10	ug/L	U	20	10	OK
MW-01	Copper	10	ug/L	U	20	10	OK
MW-01	Fluoride	0.1	mg/L		1	0.1	OK
MW-01	Gross Radium Alpha	0.734	pCi/L	U	1	1	OK
MW-01	Iron	30	ug/L		5	30	OK
MW-01	Lead	1	ug/L	U	5	1	OK
MW-01	Magnesium	10	mg/L		10	0.5	OK
MW-01	Manganese	10	ug/L		20	10	OK
MW-01	Mercury	0.5	ug/L	U	1	0.5	OK
MW-01	Methylene chloride	1	ug/L	U	1	1	OK
MW-01	Molybdenum	10	ug/L	U	20	10	OK
MW-01	Naphthalene	1	ug/L	U	1	1	OK
MW-01	Nickel	20	ug/L	U	20	20	OK
MW-01	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-01	Potassium	1	mg/L		1	0.5	OK
MW-01	Selenium	5	ug/L	U	20	5	OK
MW-01	Silver	10	ug/L	U	20	10	OK
MW-01	Sodium	100	mg/L		100	0.5	OK
MW-01	Sulfate	100	mg/L		100	1	OK
MW-01	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-01	Thallium	0.5	ug/L	U	5	0.5	OK
MW-01	Tin	100	ug/L	U	20	100	OK
MW-01	Toluene	1	ug/L	U	1	1	OK
MW-01	Total Dissolved Solids	20	MG/L		2	10	OK
MW-01	Uranium	0.3	ug/L		2	0.3	OK
MW-01	Vanadium	15	ug/L	U	1	15	OK
MW-01	Xylenes, Total	1	ug/L	U	1	1	OK
MW-01	Zinc	10	ug/L	U	20	10	OK
MW-02	2-Butanone	20	ug/L	U	1	20	OK
MW-02	Acetone	20	ug/L	U	1	20	OK
MW-02	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-02	Arsenic	5	ug/L	U	20	5	OK
MW-02	Benzene	1	ug/L	U	1	1	OK
MW-02	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-02	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-02	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-02	Calcium	100	mg/L		100	0.5	OK
MW-02	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-02	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-02	Chloride	1	mg/L		1	1	OK
MW-02	Chloroform	1	ug/L	U	1	1	OK
MW-02	Chloromethane	1	ug/L	U	1	1	OK
MW-02	Chromium	25	ug/L	U	20	25	OK
MW-02	Cobalt	10	ug/L	U	20	10	OK
MW-02	Copper	10	ug/L	U	20	10	OK
MW-02	Fluoride	0.1	mg/L		1	0.1	OK
MW-02	Gross Radium Alpha	0.732	pCi/L	U	1	1	OK
MW-02	Iron	30	ug/L	U	5	30	OK
MW-02	Lead	1	ug/L	U	5	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-02	Magnesium	10	mg/L		10	0.5	OK
MW-02	Manganese	10	ug/L	U	20	10	OK
MW-02	Mercury	0.5	ug/L	U	1	0.5	OK
MW-02	Methylene chloride	1	ug/L	U	1	1	OK
MW-02	Molybdenum	10	ug/L	U	20	10	OK
MW-02	Naphthalene	1	ug/L	U	1	1	OK
MW-02	Nickel	20	ug/L	U	20	20	OK
MW-02	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-02	Potassium	1	mg/L		1	0.5	OK
MW-02	Selenium	5	ug/L		20	5	OK
MW-02	Silver	10	ug/L	U	20	10	OK
MW-02	Sodium	100	mg/L		100	0.5	OK
MW-02	Sulfate	1000	mg/L		1000	1	OK
MW-02	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-02	Thallium	0.5	ug/L	U	5	0.5	OK
MW-02	Tin	100	ug/L	U	20	100	OK
MW-02	Toluene	1	ug/L	U	1	1	OK
MW-02	Total Dissolved Solids	20	MG/L		2	10	OK
MW-02	Uranium	0.3	ug/L		2	0.3	OK
MW-02	Vanadium	15	ug/L	U	1	15	OK
MW-02	Xylenes, Total	1	ug/L	U	1	1	OK
MW-02	Zinc	10	ug/L	U	20	10	OK
MW-03	2-Butanone	20	ug/L	U	1	20	OK
MW-03	Acetone	20	ug/L	U	1	20	OK
MW-03	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-03	Arsenic	5	ug/L	U	20	5	OK
MW-03	Benzene	1	ug/L	U	1	1	OK
MW-03	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-03	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-03	Cadmium	0.5	ug/L		20	0.5	OK
MW-03	Calcium	100	mg/L		100	0.5	OK
MW-03	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-03	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-03	Chloride	10	mg/L		10	1	OK
MW-03	Chloroform	1	ug/L	U	1	1	OK
MW-03	Chloromethane	1	ug/L	U	1	1	OK
MW-03	Chromium	25	ug/L	U	20	25	OK
MW-03	Cobalt	10	ug/L	U	20	10	OK
MW-03	Copper	10	ug/L	U	20	10	OK
MW-03	Fluoride	0.1	mg/L		1	0.1	OK
MW-03	Gross Radium Alpha	0.988	pCi/L	U	1	1	OK
MW-03	Iron	30	ug/L	U	5	30	OK
MW-03	Lead	1	ug/L	U	5	1	OK
MW-03	Magnesium	100	mg/L		100	0.5	OK
MW-03	Manganese	10	ug/L		20	10	OK
MW-03	Mercury	0.5	ug/L	U	1	0.5	OK
MW-03	Methylene chloride	1	ug/L	U	1	1	OK
MW-03	Molybdenum	10	ug/L	U	20	10	OK
MW-03	Naphthalene	1	ug/L	U	1	1	OK
MW-03	Nickel	20	ug/L	U	20	20	OK
MW-03	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-03	Potassium	10	mg/L		10	0.5	OK
MW-03	Selenium	5	ug/L		20	5	OK
MW-03	Silver	10	ug/L	U	20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-03	Sodium	100	mg/L		100	0.5	OK
MW-03	Sulfate	1000	mg/L		1000	1	OK
MW-03	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-03	Thallium	0.5	ug/L		5	0.5	OK
MW-03	Tin	100	ug/L	U	20	100	OK
MW-03	Toluene	1	ug/L	U	1	1	OK
MW-03	Total Dissolved Solids	20	MG/L		2	10	OK
MW-03	Uranium	0.3	ug/L		2	0.3	OK
MW-03	Vanadium	15	ug/L	U	1	15	OK
MW-03	Xylenes, Total	1	ug/L	U	1	1	OK
MW-03	Zinc	10	ug/L		20	10	OK
MW-03A	2-Butanone	20	ug/L	U	1	20	OK
MW-03A	Acetone	20	ug/L	U	1	20	OK
MW-03a	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-03A	Arsenic	5	ug/L	U	20	5	OK
MW-03A	Benzene	1	ug/L	U	1	1	OK
MW-03A	Beryllium	0.5	ug/L		5	0.5	OK
MW-03A	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-03A	Cadmium	0.5	ug/L		20	0.5	OK
MW-03A	Calcium	50	mg/L		50	0.5	OK
MW-03A	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-03A	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-03A	Chloride	10	mg/L		10	1	OK
MW-03A	Chloroform	1	ug/L	U	1	1	OK
MW-03A	Chloromethane	1	ug/L	U	1	1	OK
MW-03A	Chromium	25	ug/L	U	20	25	OK
MW-03A	Cobalt	10	ug/L	U	20	10	OK
MW-03A	Copper	10	ug/L	U	20	10	OK
MW-03A	Fluoride	0.1	mg/L		1	0.1	OK
MW-03A	Gross Radium Alpha	0.93	pCi/L	U	1	1	OK
MW-03A	Iron	30	ug/L	U	5	30	OK
MW-03A	Lead	1	ug/L	U	5	1	OK
MW-03A	Magnesium	50	mg/L		50	0.5	OK
MW-03A	Manganese	10	ug/L		20	10	OK
MW-03A	Mercury	0.5	ug/L	U	1	0.5	OK
MW-03A	Methylene chloride	1	ug/L	U	1	1	OK
MW-03A	Molybdenum	10	ug/L	U	20	10	OK
MW-03A	Naphthalene	1	ug/L	U	1	1	OK
MW-03A	Nickel	20	ug/L	U	20	20	OK
MW-03A	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-03A	Potassium	1	mg/L		1	0.5	OK
MW-03A	Selenium	5	ug/L		20	5	OK
MW-03A	Silver	10	ug/L	U	20	10	OK
MW-03A	Sodium	50	mg/L		50	0.5	OK
MW-03A	Sulfate	1000	mg/L		1000	1	OK
MW-03A	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-03A	Thallium	0.5	ug/L		5	0.5	OK
MW-03A	Tin	100	ug/L	U	20	100	OK
MW-03A	Toluene	1	ug/L	U	1	1	OK
MW-03A	Total Dissolved Solids	20	MG/L		2	10	OK
MW-03A	Uranium	0.3	ug/L		2	0.3	OK
MW-03A	Vanadium	15	ug/L	U	1	15	OK
MW-03A	Xylenes, Total	1	ug/L	U	1	1	OK
MW-03A	Zinc	10	ug/L		20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-05	2-Butanone	20	ug/L	U	1	20	OK
MW-05	Acetone	20	ug/L	U	1	20	OK
MW-05	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-05	Arsenic	5	ug/L	U	20	5	OK
MW-05	Benzene	1	ug/L	U	1	1	OK
MW-05	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-05	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-05	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-05	Calcium	50	mg/L		50	0.5	OK
MW-05	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-05	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-05	Chloride	10	mg/L		10	1	OK
MW-05	Chloroform	1	ug/L	U	1	1	OK
MW-05	Chloromethane	1	ug/L	U	1	1	OK
MW-05	Chromium	25	ug/L	U	20	25	OK
MW-05	Cobalt	10	ug/L	U	20	10	OK
MW-05	Copper	10	ug/L	U	20	10	OK
MW-05	Fluoride	0.1	mg/L		1	0.1	OK
MW-05	Gross Radium Alpha	0.686	pCi/L	U	1	1	OK
MW-05	Iron	30	ug/L		5	30	OK
MW-05	Lead	1	ug/L	U	5	1	OK
MW-05	Magnesium	50	mg/L		50	0.5	OK
MW-05	Manganese	10	ug/L		20	10	OK
MW-05	Mercury	0.5	ug/L	U	1	0.5	OK
MW-05	Methylene chloride	1	ug/L	U	1	1	OK
MW-05	Molybdenum	10	ug/L	U	20	10	OK
MW-05	Naphthalene	1	ug/L	U	1	1	OK
MW-05	Nickel	20	ug/L	U	20	20	OK
MW-05	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-05	Potassium	1	mg/L		1	0.5	OK
MW-05	Selenium	5	ug/L	U	20	5	OK
MW-05	Silver	10	ug/L	U	20	10	OK
MW-05	Sodium	50	mg/L		50	0.5	OK
MW-05	Sulfate	1000	mg/L		1000	1	OK
MW-05	Tetrahydrofuran	1	ug/L		1	1	OK
MW-05	Thallium	0.5	ug/L	U	5	0.5	OK
MW-05	Tin	100	ug/L	U	20	100	OK
MW-05	Toluene	1	ug/L	U	1	1	OK
MW-05	Total Dissolved Solids	20	MG/L		2	10	OK
MW-05	Uranium	0.3	ug/L		2	0.3	OK
MW-05	Vanadium	15	ug/L	U	1	15	OK
MW-05	Xylenes, Total	1	ug/L	U	1	1	OK
MW-05	Zinc	10	ug/L	U	20	10	OK
MW-11	2-Butanone	20	ug/L	U	1	20	OK
MW-11	Acetone	20	ug/L	U	1	20	OK
MW-11	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-11	Arsenic	5	ug/L	U	20	5	OK
MW-11	Benzene	1	ug/L	U	1	1	OK
MW-11	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-11	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-11	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-11	Calcium	10	mg/L		10	0.5	OK
MW-11	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-11	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-11	Chloride	10	mg/L		10	1	OK
MW-11	Chloroform	1	ug/L	U	1	1	OK
MW-11	Chloromethane	1	ug/L	U	1	1	OK
MW-11	Chromium	25	ug/L	U	20	25	OK
MW-11	Cobalt	10	ug/L	U	20	10	OK
MW-11	Copper	10	ug/L	U	20	10	OK
MW-11	Fluoride	0.1	mg/L		1	0.1	OK
MW-11	Gross Radium Alpha	0.989	pCi/L	U	1	1	OK
MW-11	Iron	30	ug/L		5	30	OK
MW-11	Lead	1	ug/L	U	5	1	OK
MW-11	Magnesium	1	mg/L		1	0.5	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-11	Mercury	0.5	ug/L	U	1	0.5	OK
MW-11	Methylene chloride	1	ug/L	U	1	1	OK
MW-11	Molybdenum	10	ug/L	U	20	10	OK
MW-11	Naphthalene	1	ug/L	U	1	1	OK
MW-11	Nickel	20	ug/L	U	20	20	OK
MW-11	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-11	Potassium	1	mg/L		1	0.5	OK
MW-11	Selenium	5	ug/L	U	20	5	OK
MW-11	Silver	10	ug/L	U	20	10	OK
MW-11	Sodium	100	mg/L		100	0.5	OK
MW-11	Sulfate	1000	mg/L		1000	1	OK
MW-11	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-11	Thallium	0.5	ug/L	U	5	0.5	OK
MW-11	Tin	100	ug/L	U	20	100	OK
MW-11	Toluene	1	ug/L	U	1	1	OK
MW-11	Total Dissolved Solids	20	MG/L		2	10	OK
MW-11	Uranium	0.3	ug/L		2	0.3	OK
MW-11	Vanadium	15	ug/L	U	1	15	OK
MW-11	Xylenes, Total	1	ug/L	U	1	1	OK
MW-11	Zinc	10	ug/L		20	10	OK
MW-12	2-Butanone	20	ug/L	U	1	20	OK
MW-12	Acetone	20	ug/L	U	1	20	OK
MW-12	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-12	Arsenic	5	ug/L	U	20	5	OK
MW-12	Benzene	1	ug/L	U	1	1	OK
MW-12	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-12	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-12	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-12	Calcium	50	mg/L		50	0.5	OK
MW-12	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-12	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-12	Chloride	10	mg/L		10	1	OK
MW-12	Chloroform	1	ug/L	U	1	1	OK
MW-12	Chloromethane	1	ug/L	U	1	1	OK
MW-12	Chromium	25	ug/L	U	20	25	OK
MW-12	Cobalt	10	ug/L	U	20	10	OK
MW-12	Copper	10	ug/L	U	20	10	OK
MW-12	Fluoride	0.1	mg/L		1	0.1	OK
MW-12	Gross Radium Alpha	0.71	pCi/L	U	1	1	OK
MW-12	Iron	30	ug/L	U	5	30	OK
MW-12	Lead	1	ug/L	U	5	1	OK
MW-12	Magnesium	50	mg/L		50	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-12	Manganese	10	ug/L		20	10	OK
MW-12	Mercury	0.5	ug/L	U	1	0.5	OK
MW-12	Methylene chloride	1	ug/L	U	1	1	OK
MW-12	Molybdenum	10	ug/L	U	20	10	OK
MW-12	Naphthalene	1	ug/L	U	1	1	OK
MW-12	Nickel	20	ug/L	U	20	20	OK
MW-12	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-12	Potassium	1	mg/L		1	0.5	OK
MW-12	Selenium	5	ug/L		20	5	OK
MW-12	Silver	10	ug/L	U	20	10	OK
MW-12	Sodium	50	mg/L		50	0.5	OK
MW-12	Sulfate	1000	mg/L		1000	1	OK
MW-12	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-12	Thallium	0.5	ug/L	U	5	0.5	OK
MW-12	Tin	100	ug/L	U	20	100	OK
MW-12	Toluene	1	ug/L	U	1	1	OK
MW-12	Total Dissolved Solids	20	MG/L		2	10	OK
MW-12	Uranium	0.3	ug/L		2	0.3	OK
MW-12	Vanadium	15	ug/L	U	1	15	OK
MW-12	Xylenes, Total	1	ug/L	U	1	1	OK
MW-12	Zinc	10	ug/L	U	20	10	OK
MW-14	2-Butanone	20	ug/L	U	1	20	OK
MW-14	Acetone	20	ug/L	U	1	20	OK
MW-14	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-14	Arsenic	5	ug/L	U	20	5	OK
MW-14	Benzene	1	ug/L	U	1	1	OK
MW-14	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-14	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-14	Cadmium	0.5	ug/L		20	0.5	OK
MW-14	Calcium	50	mg/L		50	0.5	OK
MW-14	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-14	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-14	Chloride	10	mg/L		10	1	OK
MW-14	Chloroform	1	ug/L	U	1	1	OK
MW-14	Chloromethane	1	ug/L	U	1	1	OK
MW-14	Chromium	25	ug/L	U	20	25	OK
MW-14	Cobalt	10	ug/L	U	20	10	OK
MW-14	Copper	10	ug/L	U	20	10	OK
MW-14	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-14	Gross Radium Alpha	0.765	pCi/L	U	1	1	OK
MW-14	Iron	30	ug/L	U	5	30	OK
MW-14	Lead	1	ug/L	U	5	1	OK
MW-14	Magnesium	50	mg/L		50	0.5	OK
MW-14	Manganese	50	ug/L		100	10	OK
MW-14	Mercury	0.5	ug/L	U	1	0.5	OK
MW-14	Methylene chloride	1	ug/L	U	1	1	OK
MW-14	Molybdenum	10	ug/L	U	20	10	OK
MW-14	Naphthalene	1	ug/L	U	1	1	OK
MW-14	Nickel	20	ug/L	U	20	20	OK
MW-14	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-14	Potassium	1	mg/L		1	0.5	OK
MW-14	Selenium	5	ug/L	U	20	5	OK
MW-14	Silver	10	ug/L	U	20	10	OK
MW-14	Sodium	50	mg/L		50	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-14	Sulfate	1000	mg/L		1000	1	OK
MW-14	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-14	Thallium	0.5	ug/L	U	5	0.5	OK
MW-14	Tin	100	ug/L	U	20	100	OK
MW-14	Toluene	1	ug/L	U	1	1	OK
MW-14	Total Dissolved Solids	20	MG/L		2	10	OK
MW-14	Uranium	0.3	ug/L		2	0.3	OK
MW-14	Vanadium	15	ug/L	U	1	15	OK
MW-14	Xylenes, Total	1	ug/L	U	1	1	OK
MW-14	Zinc	10	ug/L		20	10	OK
MW-15	2-Butanone	20	ug/L	U	1	20	OK
MW-15	Acetone	20	ug/L	U	1	20	OK
MW-15	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-15	Arsenic	5	ug/L	U	20	5	OK
MW-15	Benzene	1	ug/L	U	1	1	OK
MW-15	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-15	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-15	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-15	Calcium	50	mg/L		50	0.5	OK
MW-15	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-15	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-15	Chloride	10	mg/L		10	1	OK
MW-15	Chloroform	1	ug/L	U	1	1	OK
MW-15	Chloromethane	1	ug/L	U	1	1	OK
MW-15	Chromium	25	ug/L	U	20	25	OK
MW-15	Cobalt	10	ug/L	U	20	10	OK
MW-15	Copper	10	ug/L	U	20	10	OK
MW-15	Fluoride	0.1	mg/L		1	0.1	OK
MW-15	Gross Radium Alpha	0.813	pCi/L	U	1	1	OK
MW-15	Iron	30	ug/L	U	5	30	OK
MW-15	Lead	1	ug/L	U	5	1	OK
MW-15	Magnesium	50	mg/L		50	0.5	OK
MW-15	Manganese	10	ug/L	U	20	10	OK
MW-15	Mercury	0.5	ug/L	U	1	0.5	OK
MW-15	Methylene chloride	1	ug/L	U	1	1	OK
MW-15	Molybdenum	10	ug/L	U	20	10	OK
MW-15	Naphthalene	1	ug/L	U	1	1	OK
MW-15	Nickel	20	ug/L	U	20	20	OK
MW-15	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-15	Potassium	1	mg/L		1	0.5	OK
MW-15	Selenium	5	ug/L		20	5	OK
MW-15	Silver	10	ug/L	U	20	10	OK
MW-15	Sodium	50	mg/L		50	0.5	OK
MW-15	Sulfate	1000	mg/L		1000	1	OK
MW-15	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-15	Thallium	0.5	ug/L	U	5	0.5	OK
MW-15	Tin	100	ug/L	U	20	100	OK
MW-15	Toluene	1	ug/L	U	1	1	OK
MW-15	Total Dissolved Solids	20	MG/L		2	10	OK
MW-15	Uranium	0.3	ug/L		2	0.3	OK
MW-15	Vanadium	15	ug/L	U	1	15	OK
MW-15	Xylenes, Total	1	ug/L	U	1	1	OK
MW-15	Zinc	10	ug/L	U	20	10	OK
MW-17	2-Butanone	20	ug/L	U	1	20	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-17	Acetone	20	ug/L	U	1	20	OK
MW-17	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-17	Arsenic	5	ug/L	U	20	5	OK
MW-17	Benzene	1	ug/L	U	1	1	OK
MW-17	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-17	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-17	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-17	Calcium	50	mg/L		50	0.5	OK
MW-17	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-17	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-17	Chloride	10	mg/L		10	1	OK
MW-17	Chloroform	1	ug/L	U	1	1	OK
MW-17	Chloromethane	1	ug/L	U	1	1	OK
MW-17	Chromium	25	ug/L	U	20	25	OK
MW-17	Cobalt	10	ug/L	U	20	10	OK
MW-17	Copper	10	ug/L	U	20	10	OK
MW-17	Fluoride	0.1	mg/L		1	0.1	OK
MW-17	Gross Radium Alpha	0.77	pCi/L	U	1	1	OK
MW-17	Iron	30	ug/L	U	5	30	OK
MW-17	Lead	1	ug/L	U	5	1	OK
MW-17	Magnesium	50	mg/L		50	0.5	OK
MW-17	Manganese	10	ug/L		20	10	OK
MW-17	Mercury	0.5	ug/L	U	1	0.5	OK
MW-17	Methylene chloride	1	ug/L	U	1	1	OK
MW-17	Molybdenum	10	ug/L	U	20	10	OK
MW-17	Naphthalene	1	ug/L	U	1	1	OK
MW-17	Nickel	20	ug/L	U	20	20	OK
MW-17	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-17	Potassium	1	mg/L		1	0.5	OK
MW-17	Selenium	5	ug/L		20	5	OK
MW-17	Silver	10	ug/L	U	20	10	OK
MW-17	Sodium	50	mg/L		50	0.5	OK
MW-17	Sulfate	1000	mg/L		1000	1	OK
MW-17	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-17	Thallium	0.5	ug/L	U	5	0.5	OK
MW-17	Tin	100	ug/L	U	20	100	OK
MW-17	Toluene	1	ug/L	U	1	1	OK
MW-17	Total Dissolved Solids	20	MG/L		2	10	OK
MW-17	Uranium	0.3	ug/L		2	0.3	OK
MW-17	Vanadium	15	ug/L	U	1	15	OK
MW-17	Xylenes, Total	1	ug/L	U	1	1	OK
MW-17	Zinc	10	ug/L	U	20	10	OK
MW-18	2-Butanone	20	ug/L	U	1	20	OK
MW-18	Acetone	20	ug/L	U	1	20	OK
MW-18	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-18	Arsenic	5	ug/L	U	20	5	OK
MW-18	Benzene	1	ug/L	U	1	1	OK
MW-18	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-18	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-18	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-18	Calcium	50	mg/L		50	0.5	OK
MW-18	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-18	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-18	Chloride	10	mg/L		10	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-18	Chloroform	1	ug/L	U	1	1	OK
MW-18	Chloromethane	1	ug/L	U	1	1	OK
MW-18	Chromium	25	ug/L	U	20	25	OK
MW-18	Cobalt	10	ug/L	U	20	10	OK
MW-18	Copper	10	ug/L	U	20	10	OK
MW-18	Fluoride	0.1	mg/L		1	0.1	OK
MW-18	Gross Radium Alpha	0.791	pCi/L	U	1	1	OK
MW-18	Iron	30	ug/L	U	5	30	OK
MW-18	Lead	1	ug/L	U	5	1	OK
MW-18	Magnesium	50	mg/L		50	0.5	OK
MW-18	Manganese	10	ug/L		20	10	OK
MW-18	Mercury	0.5	ug/L	U	1	0.5	OK
MW-18	Methylene chloride	1	ug/L	U	1	1	OK
MW-18	Molybdenum	10	ug/L	U	20	10	OK
MW-18	Naphthalene	1	ug/L	U	1	1	OK
MW-18	Nickel	20	ug/L	U	20	20	OK
MW-18	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-18	Potassium	1	mg/L		1	0.5	OK
MW-18	Selenium	5	ug/L	U	20	5	OK
MW-18	Silver	10	ug/L	U	20	10	OK
MW-18	Sodium	50	mg/L		50	0.5	OK
MW-18	Sulfate	1000	mg/L		1000	1	OK
MW-18	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-18	Thallium	0.5	ug/L		5	0.5	OK
MW-18	Tin	100	ug/L	U	20	100	OK
MW-18	Toluene	1	ug/L	U	1	1	OK
MW-18	Total Dissolved Solids	20	MG/L		2	10	OK
MW-18	Uranium	0.3	ug/L		2	0.3	OK
MW-18	Vanadium	15	ug/L	U	1	15	OK
MW-18	Xylenes, Total	1	ug/L	U	1	1	OK
MW-18	Zinc	10	ug/L	U	20	10	OK
MW-19	2-Butanone	20	ug/L	U	1	20	OK
MW-19	Acetone	20	ug/L	U	1	20	OK
MW-19	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-19	Arsenic	5	ug/L	U	20	5	OK
MW-19	Benzene	1	ug/L	U	1	1	OK
MW-19	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-19	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-19	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-19	Calcium	10	mg/L		10	0.5	OK
MW-19	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-19	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-19	Chloride	10	mg/L		10	1	OK
MW-19	Chloroform	1	ug/L	U	1	1	OK
MW-19	Chloromethane	1	ug/L	U	1	1	OK
MW-19	Chromium	25	ug/L	U	20	25	OK
MW-19	Cobalt	10	ug/L	U	20	10	OK
MW-19	Copper	10	ug/L	U	20	10	OK
MW-19	Fluoride	0.1	mg/L		1	0.1	OK
MW-19	Gross Radium Alpha	0.763	pCi/L	U	1	1	OK
MW-19	Iron	30	ug/L	U	5	30	OK
MW-19	Lead	1	ug/L	U	5	1	OK
MW-19	Magnesium	10	mg/L		10	0.5	OK
MW-19	Manganese	10	ug/L		20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-19	Mercury	0.5	ug/L	U	1	0.5	OK
MW-19	Methylene chloride	1	ug/L	U	1	1	OK
MW-19	Molybdenum	10	ug/L	U	20	10	OK
MW-19	Naphthalene	1	ug/L	U	1	1	OK
MW-19	Nickel	20	ug/L	U	20	20	OK
MW-19	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-19	Potassium	1	mg/L		1	0.5	OK
MW-19	Selenium	5	ug/L		20	5	OK
MW-19	Silver	10	ug/L	U	20	10	OK
MW-19	Sodium	10	mg/L		10	0.5	OK
MW-19	Sulfate	100	mg/L		100	1	OK
MW-19	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-19	Thallium	0.5	ug/L	U	5	0.5	OK
MW-19	Tin	100	ug/L	U	20	100	OK
MW-19	Toluene	1	ug/L	U	1	1	OK
MW-19	Total Dissolved Solids	20	MG/L		2	10	OK
MW-19	Uranium	0.3	ug/L		2	0.3	OK
MW-19	Vanadium	15	ug/L	U	1	15	OK
MW-19	Xylenes, Total	1	ug/L	U	1	1	OK
MW-19	Zinc	10	ug/L	U	20	10	OK
MW-20	2-Butanone	20	ug/L	U	1	20	OK
MW-20	Acetone	20	ug/L	U	1	20	OK
MW-20	Ammonia as N	0.1	mg/L		2	0.05	OK
MW-20	Arsenic	5	ug/L	U	20	5	OK
MW-20	Benzene	1	ug/L	U	1	1	OK
MW-20	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-20	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-20	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-20	Calcium	100	mg/L		100	0.5	OK
MW-20	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-20	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-20	Chloride	10	mg/L		10	1	OK
MW-20	Chloroform	1	ug/L	U	1	1	OK
MW-20	Chloromethane	1	ug/L	U	1	1	OK
MW-20	Chromium	25	ug/L	U	20	25	OK
MW-20	Cobalt	10	ug/L	U	20	10	OK
MW-20	Copper	10	ug/L	U	20	10	OK
MW-20	Fluoride	0.1	mg/L		1	0.1	OK
MW-20	Gross Radium Alpha	0.858	pCi/L	U	1	1	OK
MW-20	Iron	30	ug/L	U	5	30	OK
MW-20	Lead	1	ug/L	U	5	1	OK
MW-20	Magnesium	1	mg/L		1	0.5	OK
MW-20	Manganese	10	ug/L	U	20	10	OK
MW-20	Mercury	0.5	ug/L	U	1	0.5	OK
MW-20	Methylene chloride	1	ug/L	U	1	1	OK
MW-20	Molybdenum	10	ug/L		20	10	OK
MW-20	Naphthalene	1	ug/L	U	1	1	OK
MW-20	Nickel	20	ug/L	U	20	20	OK
MW-20	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-20	Potassium	10	mg/L		10	0.5	OK
MW-20	Selenium	5	ug/L	U	20	5	OK
MW-20	Silver	10	ug/L	U	20	10	OK
MW-20	Sodium	100	mg/L		100	0.5	OK
MW-20	Sulfate	1000	mg/L		1000	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-20	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-20	Thallium	0.5	ug/L	U	5	0.5	OK
MW-20	Tin	100	ug/L	U	20	100	OK
MW-20	Toluene	1	ug/L	U	1	1	OK
MW-20	Total Dissolved Solids	20	MG/L		2	10	OK
MW-20	Uranium	0.3	ug/L		2	0.3	OK
MW-20	Vanadium	15	ug/L	U	1	15	OK
MW-20	Xylenes, Total	1	ug/L	U	1	1	OK
MW-20	Zinc	10	ug/L	U	20	10	OK
MW-22	2-Butanone	20	ug/L	U	1	20	OK
MW-22	Acetone	20	ug/L	U	1	20	OK
MW-22	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-22	Arsenic	5	ug/L	U	20	5	OK
MW-22	Benzene	1	ug/L	U	1	1	OK
MW-22	Beryllium	0.5	ug/L		5	0.5	OK
MW-22	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-22	Cadmium	0.5	ug/L		20	0.5	OK
MW-22	Calcium	100	mg/L		100	0.5	OK
MW-22	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-22	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-22	Chloride	10	mg/L		10	1	OK
MW-22	Chloroform	1	ug/L	U	1	1	OK
MW-22	Chloromethane	1	ug/L	U	1	1	OK
MW-22	Chromium	25	ug/L	U	20	25	OK
MW-22	Cobalt	10	ug/L		20	10	OK
MW-22	Copper	10	ug/L		20	10	OK
MW-22	Fluoride	0.1	mg/L		1	0.1	OK
MW-22	Gross Radium Alpha	0.865	pCi/L		1	1	OK
MW-22	Iron	30	ug/L		5	30	OK
MW-22	Lead	1	ug/L		5	1	OK
MW-22	Magnesium	100	mg/L		100	0.5	OK
MW-22	Manganese	250	ug/L		500	10	OK
MW-22	Mercury	0.5	ug/L	U	1	0.5	OK
MW-22	Methylene chloride	1	ug/L	U	1	1	OK
MW-22	Molybdenum	10	ug/L		20	10	OK
MW-22	Naphthalene	1	ug/L	U	1	1	OK
MW-22	Nickel	20	ug/L		20	20	OK
MW-22	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-22	Potassium	10	mg/L		10	0.5	OK
MW-22	Selenium	5	ug/L		20	5	OK
MW-22	Silver	10	ug/L	U	20	10	OK
MW-22	Sodium	100	mg/L		100	0.5	OK
MW-22	Sulfate	1000	mg/L		1000	1	OK
MW-22	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-22	Thallium	0.5	ug/L		5	0.5	OK
MW-22	Tin	100	ug/L	U	20	100	OK
MW-22	Toluene	1	ug/L	U	1	1	OK
MW-22	Total Dissolved Solids	20	MG/L		2	10	OK
MW-22	Uranium	0.3	ug/L		2	0.3	OK
MW-22	Vanadium	15	ug/L	U	1	15	OK
MW-22	Xylenes, Total	1	ug/L	U	1	1	OK
MW-22	Zinc	10	ug/L		20	10	OK
MW-23	2-Butanone	20	ug/L	U	1	20	OK
MW-23	Acetone	20	ug/L	U	1	20	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-23	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-23	Arsenic	5	ug/L	U	20	5	OK
MW-23	Benzene	1	ug/L	U	1	1	OK
MW-23	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-23	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-23	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-23	Calcium	100	mg/L		100	0.5	OK
MW-23	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-23	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-23	Chloride	1	mg/L		1	1	OK
MW-23	Chloroform	1	ug/L	U	1	1	OK
MW-23	Chloromethane	1	ug/L	U	1	1	OK
MW-23	Chromium	25	ug/L	U	20	25	OK
MW-23	Cobalt	10	ug/L	U	20	10	OK
MW-23	Copper	10	ug/L	U	20	10	OK
MW-23	Fluoride	0.1	mg/L		1	0.1	OK
MW-23	Gross Radium Alpha	0.895	pCi/L		1	1	OK
MW-23	Iron	30	ug/L	U	5	30	OK
MW-23	Lead	1	ug/L	U	5	1	OK
MW-23	Magnesium	10	mg/L		10	0.5	OK
MW-23	Manganese	10	ug/L		20	10	OK
MW-23	Mercury	0.5	ug/L	U	1	0.5	OK
MW-23	Methylene chloride	1	ug/L	U	1	1	OK
MW-23	Molybdenum	10	ug/L	U	20	10	OK
MW-23	Naphthalene	1	ug/L	U	1	1	OK
MW-23	Nickel	20	ug/L	U	20	20	OK
MW-23	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-23	Potassium	1	mg/L		1	0.5	OK
MW-23	Selenium	5	ug/L	U	20	5	OK
MW-23	Silver	10	ug/L	U	20	10	OK
MW-23	Sodium	100	mg/L		100	0.5	OK
MW-23	Sulfate	1000	mg/L		1000	1	OK
MW-23	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-23	Thallium	0.5	ug/L	U	5	0.5	OK
MW-23	Tin	100	ug/L	U	20	100	OK
MW-23	Toluene	1	ug/L	U	1	1	OK
MW-23	Total Dissolved Solids	20	MG/L		2	10	OK
MW-23	Uranium	0.3	ug/L		2	0.3	OK
MW-23	Vanadium	15	ug/L	U	1	15	OK
MW-23	Xylenes, Total	1	ug/L	U	1	1	OK
MW-23	Zinc	10	ug/L		20	10	OK
MW-24	2-Butanone	20	ug/L	U	1	20	OK
MW-24	Acetone	20	ug/L	U	1	20	OK
MW-24	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-24	Arsenic	5	ug/L	U	20	5	OK
MW-24	Benzene	1	ug/L	U	1	1	OK
MW-24	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-24	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-24	Cadmium	0.5	ug/L		20	0.5	OK
MW-24	Calcium	100	mg/L		100	0.5	OK
MW-24	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-24	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-24	Chloride	10	mg/L		10	1	OK
MW-24	Chloroform	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-24	Chloromethane	1	ug/L	U	1	1	OK
MW-24	Chromium	25	ug/L	U	20	25	OK
MW-24	Cobalt	10	ug/L	U	20	10	OK
MW-24	Copper	10	ug/L	U	20	10	OK
MW-24	Fluoride	0.1	mg/L		1	0.1	OK
MW-24	Gross Radium Alpha	0.742	pCi/L	U	1	1	OK
MW-24	Iron	30	ug/L		5	30	OK
MW-24	Lead	1	ug/L	U	5	1	OK
MW-24	Magnesium	10	mg/L		10	0.5	OK
MW-24	Manganese	50	ug/L		100	10	OK
MW-24	Mercury	0.5	ug/L	U	1	0.5	OK
MW-24	Methylene chloride	1	ug/L	U	1	1	OK
MW-24	Molybdenum	10	ug/L	U	20	10	OK
MW-24	Naphthalene	1	ug/L	U	1	1	OK
MW-24	Nickel	20	ug/L	U	20	20	OK
MW-24	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-24	Potassium	1	mg/L		1	0.5	OK
MW-24	Selenium	5	ug/L	U	20	5	OK
MW-24	Silver	10	ug/L	U	20	10	OK
MW-24	Sodium	100	mg/L		100	0.5	OK
MW-24	Sulfate	1000	mg/L		1000	1	OK
MW-24	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-24	Thallium	0.5	ug/L		5	0.5	OK
MW-24	Tin	100	ug/L	U	20	100	OK
MW-24	Toluene	1	ug/L	U	1	1	OK
MW-24	Total Dissolved Solids	20	MG/L		2	10	OK
MW-24	Uranium	0.3	ug/L		2	0.3	OK
MW-24	Vanadium	15	ug/L	U	1	15	OK
MW-24	Xylenes, Total	1	ug/L	U	1	1	OK
MW-24	Zinc	10	ug/L		20	10	OK
MW-25	2-Butanone	20	ug/L	U	1	20	OK
MW-25	Acetone	20	ug/L	U	1	20	OK
MW-25	Ammonia as N	0.1	mg/L		2	0.05	OK
MW-25	Arsenic	5	ug/L	U	20	5	OK
MW-25	Benzene	1	ug/L	U	1	1	OK
MW-25	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-25	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Calcium	100	mg/L		100	0.5	OK
MW-25	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-25	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-25	Chloride	10	mg/L		10	1	OK
MW-25	Chloroform	1	ug/L	U	1	1	OK
MW-25	Chloromethane	1	ug/L	U	1	1	OK
MW-25	Chromium	25	ug/L	U	20	25	OK
MW-25	Cobalt	10	ug/L	U	20	10	OK
MW-25	Copper	10	ug/L	U	20	10	OK
MW-25	Fluoride	0.1	mg/L		1	0.1	OK
MW-25	Gross Radium Alpha	0.98	pCi/L	U	1	1	OK
MW-25	Iron	30	ug/L	U	5	30	OK
MW-25	Lead	1	ug/L	U	5	1	OK
MW-25	Magnesium	100	mg/L		100	0.5	OK
MW-25	Manganese	10	ug/L		20	10	OK
MW-25	Mercury	0.5	ug/L	U	1	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-25	Methylene chloride	1	ug/L	U	1	1	OK
MW-25	Molybdenum	10	ug/L		20	10	OK
MW-25	Naphthalene	1	ug/L	U	1	1	OK
MW-25	Nickel	20	ug/L	U	20	20	OK
MW-25	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-25	Potassium	1	mg/L		1	0.5	OK
MW-25	Selenium	5	ug/L	U	20	5	OK
MW-25	Silver	10	ug/L	U	20	10	OK
MW-25	Sodium	100	mg/L		100	0.5	OK
MW-25	Sulfate	1000	mg/L		1000	1	OK
MW-25	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-25	Thallium	0.5	ug/L		5	0.5	OK
MW-25	Tin	100	ug/L	U	20	100	OK
MW-25	Toluene	1	ug/L	U	1	1	OK
MW-25	Total Dissolved Solids	20	MG/L		2	10	OK
MW-25	Uranium	0.3	ug/L		2	0.3	OK
MW-25	Vanadium	15	ug/L	U	1	15	OK
MW-25	Xylenes, Total	1	ug/L	U	1	1	OK
MW-25	Zinc	10	ug/L	U	20	10	OK
MW-26	2-Butanone	20	ug/L	U	1	20	OK
MW-26	Acetone	20	ug/L	U	1	20	OK
MW-26	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-26	Arsenic	5	ug/L	U	20	5	OK
MW-26	Benzene	1	ug/L	U	1	1	OK
MW-26	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-26	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-26	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-26	Calcium	100	mg/L		100	0.5	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-26	Chloride	10	mg/L		10	1	OK
MW-26	Chloroform	50	ug/L		50	1	OK
MW-26	Chloromethane	1	ug/L	U	1	1	OK
MW-26	Chromium	25	ug/L	U	20	25	OK
MW-26	Cobalt	10	ug/L	U	20	10	OK
MW-26	Copper	10	ug/L	U	20	10	OK
MW-26	Fluoride	0.1	mg/L		1	0.1	OK
MW-26	Gross Radium Alpha	0.987	pCi/L		1	1	OK
MW-26	Iron	30	ug/L		5	30	OK
MW-26	Lead	1	ug/L	U	5	1	OK
MW-26	Magnesium	10	mg/L		10	0.5	OK
MW-26	Manganese	10	ug/L		20	10	OK
MW-26	Mercury	0.5	ug/L	U	1	0.5	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Molybdenum	10	ug/L	U	20	10	OK
MW-26	Naphthalene	1	ug/L	U	1	1	OK
MW-26	Nickel	20	ug/L	U	20	20	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-26	Potassium	1	mg/L		1	0.5	OK
MW-26	Selenium	5	ug/L		20	5	OK
MW-26	Silver	10	ug/L	U	20	10	OK
MW-26	Sodium	10	mg/L		10	0.5	OK
MW-26	Sulfate	1000	mg/L		1000	1	OK
MW-26	Tetrahydrofuran	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-26	Thallium	0.5	ug/L	U	5	0.5	OK
MW-26	Tin	100	ug/L	U	20	100	OK
MW-26	Toluene	1	ug/L	U	1	1	OK
MW-26	Total Dissolved Solids	20	MG/L		2	10	OK
MW-26	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Vanadium	15	ug/L	U	1	15	OK
MW-26	Xylenes, Total	1	ug/L	U	1	1	OK
MW-26	Zinc	10	ug/L	U	20	10	OK
MW-27	2-Butanone	20	ug/L	U	1	20	OK
MW-27	Acetone	20	ug/L	U	1	20	OK
MW-27	Ammonia as N	0.1	mg/L		2	0.05	OK
MW-27	Arsenic	5	ug/L	U	20	5	OK
MW-27	Benzene	1	ug/L	U	1	1	OK
MW-27	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-27	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-27	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-27	Calcium	50	mg/L		50	0.5	OK
MW-27	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-27	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-27	Chloride	10	mg/L		10	1	OK
MW-27	Chloroform	1	ug/L	U	1	1	OK
MW-27	Chloromethane	1	ug/L	U	1	1	OK
MW-27	Chromium	25	ug/L	U	20	25	OK
MW-27	Cobalt	10	ug/L	U	20	10	OK
MW-27	Copper	10	ug/L	U	20	10	OK
MW-27	Fluoride	0.1	mg/L		1	0.1	OK
MW-27	Gross Radium Alpha	0.994	pCi/L	U	1	1	OK
MW-27	Iron	30	ug/L	U	5	30	OK
MW-27	Lead	1	ug/L	U	5	1	OK
MW-27	Magnesium	50	mg/L		50	0.5	OK
MW-27	Manganese	10	ug/L	U	20	10	OK
MW-27	Mercury	0.5	ug/L	U	1	0.5	OK
MW-27	Methylene chloride	1	ug/L	U	1	1	OK
MW-27	Molybdenum	10	ug/L	U	20	10	OK
MW-27	Naphthalene	1	ug/L	U	1	1	OK
MW-27	Nickel	20	ug/L	U	20	20	OK
MW-27	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-27	Potassium	1	mg/L		1	0.5	OK
MW-27	Selenium	5	ug/L		20	5	OK
MW-27	Silver	10	ug/L	U	20	10	OK
MW-27	Sodium	50	mg/L		50	0.5	OK
MW-27	Sulfate	100	mg/L		100	1	OK
MW-27	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-27	Thallium	0.5	ug/L	U	5	0.5	OK
MW-27	Tin	100	ug/L	U	20	100	OK
MW-27	Toluene	1	ug/L	U	1	1	OK
MW-27	Total Dissolved Solids	20	MG/L		2	10	OK
MW-27	Uranium	0.3	ug/L		2	0.3	OK
MW-27	Vanadium	15	ug/L	U	1	15	OK
MW-27	Xylenes, Total	1	ug/L	U	1	1	OK
MW-27	Zinc	10	ug/L	U	20	10	OK
MW-28	2-Butanone	20	ug/L	U	1	20	OK
MW-28	Acetone	20	ug/L	U	1	20	OK
MW-28	Ammonia as N	0.1	mg/L		2	0.05	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-28	Arsenic	5	ug/L		20	5	OK
MW-28	Benzene	1	ug/L	U	1	1	OK
MW-28	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-28	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-28	Cadmium	0.5	ug/L		20	0.5	OK
MW-28	Calcium	100	mg/L		100	0.5	OK
MW-28	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-28	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-28	Chloride	100	mg/L		100	1	OK
MW-28	Chloroform	1	ug/L	U	1	1	OK
MW-28	Chloromethane	1	ug/L	U	1	1	OK
MW-28	Chromium	25	ug/L	U	20	25	OK
MW-28	Cobalt	10	ug/L		20	10	OK
MW-28	Copper	10	ug/L	U	20	10	OK
MW-28	Fluoride	0.1	mg/L		1	0.1	OK
MW-28	Gross Radium Alpha	0.993	pCi/L		1	1	OK
MW-28	Iron	30	ug/L	U	5	30	OK
MW-28	Lead	1	ug/L		5	1	OK
MW-28	Magnesium	100	mg/L		100	0.5	OK
MW-28	Manganese	10	ug/L		20	10	OK
MW-28	Mercury	0.5	ug/L	U	1	0.5	OK
MW-28	Methylene chloride	1	ug/L	U	1	1	OK
MW-28	Molybdenum	10	ug/L	U	20	10	OK
MW-28	Naphthalene	1	ug/L	U	1	1	OK
MW-28	Nickel	20	ug/L		20	20	OK
MW-28	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-28	Potassium	1	mg/L		1	0.5	OK
MW-28	Selenium	5	ug/L	U	20	5	OK
MW-28	Silver	10	ug/L	U	20	10	OK
MW-28	Sodium	100	mg/L		100	0.5	OK
MW-28	Sulfate	1000	mg/L		1000	1	OK
MW-28	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-28	Thallium	0.5	ug/L		5	0.5	OK
MW-28	Tin	100	ug/L	U	20	100	OK
MW-28	Toluene	1	ug/L	U	1	1	OK
MW-28	Total Dissolved Solids	20	MG/L		2	10	OK
MW-28	Uranium	0.3	ug/L		2	0.3	OK
MW-28	Vanadium	15	ug/L		1	15	OK
MW-28	Xylenes, Total	1	ug/L	U	1	1	OK
MW-28	Zinc	10	ug/L		20	10	OK
MW-29	2-Butanone	20	ug/L	U	1	20	OK
MW-29	Acetone	20	ug/L	U	1	20	OK
MW-29	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-29	Arsenic	5	ug/L	U	20	5	OK
MW-29	Benzene	1	ug/L	U	1	1	OK
MW-29	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-29	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-29	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-29	Calcium	50	mg/L		50	0.5	OK
MW-29	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-29	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-29	Chloride	10	mg/L		10	1	OK
MW-29	Chloroform	1	ug/L	U	1	1	OK
MW-29	Chloromethane	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-29	Chromium	25	ug/L	U	20	25	OK
MW-29	Cobalt	10	ug/L	U	20	10	OK
MW-29	Copper	10	ug/L	U	20	10	OK
MW-29	Fluoride	0.1	mg/L		1	0.1	OK
MW-29	Gross Radium Alpha	0.765	pCi/L		1	1	OK
MW-29	Iron	120	ug/L		20	30	OK
MW-29	Lead	1	ug/L	U	5	1	OK
MW-29	Magnesium	50	mg/L		50	0.5	OK
MW-29	Manganese	50	ug/L		100	10	OK
MW-29	Mercury	0.5	ug/L	U	1	0.5	OK
MW-29	Methylene chloride	1	ug/L	U	1	1	OK
MW-29	Molybdenum	10	ug/L	U	20	10	OK
MW-29	Naphthalene	1	ug/L	U	1	1	OK
MW-29	Nickel	20	ug/L	U	20	20	OK
MW-29	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-29	Potassium	1	mg/L		1	0.5	OK
MW-29	Selenium	5	ug/L	U	20	5	OK
MW-29	Silver	10	ug/L	U	20	10	OK
MW-29	Sodium	50	mg/L		50	0.5	OK
MW-29	Sulfate	1000	mg/L		1000	1	OK
MW-29	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-29	Thallium	0.5	ug/L	U	5	0.5	OK
MW-29	Tin	100	ug/L	U	20	100	OK
MW-29	Toluene	1	ug/L	U	1	1	OK
MW-29	Total Dissolved Solids	20	MG/L		2	10	OK
MW-29	Uranium	0.3	ug/L		2	0.3	OK
MW-29	Vanadium	15	ug/L	U	1	15	OK
MW-29	Xylenes, Total	1	ug/L	U	1	1	OK
MW-29	Zinc	10	ug/L	U	20	10	OK
MW-30	2-Butanone	20	ug/L	U	1	20	OK
MW-30	Acetone	20	ug/L	U	1	20	OK
MW-30	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-30	Arsenic	5	ug/L	U	20	5	OK
MW-30	Benzene	1	ug/L	U	1	1	OK
MW-30	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-30	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-30	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-30	Calcium	20	mg/L		20	0.5	OK
MW-30	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-30	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-30	Chloride	100	mg/L		100	1	OK
MW-30	Chloroform	1	ug/L	U	1	1	OK
MW-30	Chloromethane	1	ug/L	U	1	1	OK
MW-30	Chromium	25	ug/L	U	20	25	OK
MW-30	Cobalt	10	ug/L	U	20	10	OK
MW-30	Copper	10	ug/L	U	20	10	OK
MW-30	Fluoride	0.1	mg/L		1	0.1	OK
MW-30	Gross Radium Alpha	0.817	pCi/L	U	1	1	OK
MW-30	Iron	30	ug/L	U	5	30	OK
MW-30	Lead	1	ug/L	U	5	1	OK
MW-30	Magnesium	20	mg/L		20	0.5	OK
MW-30	Manganese	10	ug/L		20	10	OK
MW-30	Mercury	0.5	ug/L	U	1	0.5	OK
MW-30	Methylene chloride	1	ug/L	U	1	1	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-30	Molybdenum	10	ug/L	U	20	10	OK
MW-30	Naphthalene	1	ug/L	U	1	1	OK
MW-30	Nickel	20	ug/L	U	20	20	OK
MW-30	Nitrate/Nitrite (as N)	10	mg/L		100	0.1	OK
MW-30	Potassium	1	mg/L		1	0.5	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Silver	10	ug/L	U	20	10	OK
MW-30	Sodium	20	mg/L		20	0.5	OK
MW-30	Sulfate	100	mg/L		100	1	OK
MW-30	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-30	Thallium	0.5	ug/L	U	5	0.5	OK
MW-30	Tin	100	ug/L	U	20	100	OK
MW-30	Toluene	1	ug/L	U	1	1	OK
MW-30	Total Dissolved Solids	20	MG/L		2	10	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Vanadium	15	ug/L	U	1	15	OK
MW-30	Xylenes, Total	1	ug/L	U	1	1	OK
MW-30	Zinc	10	ug/L	U	20	10	OK
MW-31	2-Butanone	20	ug/L	U	1	20	OK
MW-31	Acetone	20	ug/L	U	1	20	OK
MW-31	Ammonia as N	0.1	mg/L		2	0.05	OK
MW-31	Arsenic	5	ug/L	U	20	5	OK
MW-31	Benzene	1	ug/L	U	1	1	OK
MW-31	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-31	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-31	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-31	Calcium	50	mg/L		50	0.5	OK
MW-31	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-31	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-31	Chloride	100	mg/L		100	1	OK
MW-31	Chloroform	1	ug/L	U	1	1	OK
MW-31	Chloromethane	1	ug/L	U	1	1	OK
MW-31	Chromium	25	ug/L	U	20	25	OK
MW-31	Cobalt	10	ug/L	U	20	10	OK
MW-31	Copper	10	ug/L	U	20	10	OK
MW-31	Fluoride	0.1	mg/L		1	0.1	OK
MW-31	Gross Radium Alpha	0.987	pCi/L	U	1	1	OK
MW-31	Iron	30	ug/L	U	5	30	OK
MW-31	Lead	1	ug/L	U	5	1	OK
MW-31	Magnesium	50	mg/L		50	0.5	OK
MW-31	Manganese	10	ug/L	U	20	10	OK
MW-31	Mercury	0.5	ug/L	U	1	0.5	OK
MW-31	Methylene chloride	1	ug/L	U	1	1	OK
MW-31	Molybdenum	10	ug/L	U	20	10	OK
MW-31	Naphthalene	1	ug/L	U	1	1	OK
MW-31	Nickel	20	ug/L	U	20	20	OK
MW-31	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-31	Potassium	1	mg/L		1	0.5	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Silver	10	ug/L	U	20	10	OK
MW-31	Sodium	50	mg/L		50	0.5	OK
MW-31	Sulfate	100	mg/L		100	1	OK
MW-31	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-31	Thallium	0.5	ug/L	U	5	0.5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-31	Tin	100	ug/L	U	20	100	OK
MW-31	Toluene	1	ug/L	U	1	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Uranium	0.3	ug/L		2	0.3	OK
MW-31	Vanadium	15	ug/L	U	1	15	OK
MW-31	Xylenes, Total	1	ug/L	U	1	1	OK
MW-31	Zinc	10	ug/L	U	20	10	OK
MW-32	2-Butanone	20	ug/L	U	1	20	OK
MW-32	Acetone	20	ug/L	U	1	20	OK
MW-32	Ammonia as N	0.1	mg/L		2	0.05	OK
MW-32	Arsenic	5	ug/L	U	20	5	OK
MW-32	Benzene	1	ug/L	U	1	1	OK
MW-32	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-32	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-32	Cadmium	0.5	ug/L		20	0.5	OK
MW-32	Calcium	100	mg/L		100	0.5	OK
MW-32	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-32	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-32	Chloride	10	mg/L		10	1	OK
MW-32	Chloroform	1	ug/L	U	1	1	OK
MW-32	Chloromethane	1	ug/L	U	1	1	OK
MW-32	Chromium	25	ug/L	U	20	25	OK
MW-32	Cobalt	10	ug/L		20	10	OK
MW-32	Copper	10	ug/L	U	20	10	OK
MW-32	Fluoride	0.1	mg/L		1	0.1	OK
MW-32	Gross Radium Alpha	0.98	pCi/L		1	1	OK
MW-32	Iron	600	ug/L		100	30	OK
MW-32	Lead	1	ug/L	U	5	1	OK
MW-32	Magnesium	100	mg/L		100	0.5	OK
MW-32	Manganese	50	ug/L		100	10	OK
MW-32	Mercury	0.5	ug/L	U	1	0.5	OK
MW-32	Methylene chloride	1	ug/L	U	1	1	OK
MW-32	Molybdenum	10	ug/L	U	20	10	OK
MW-32	Naphthalene	1	ug/L	U	1	1	OK
MW-32	Nickel	20	ug/L		20	20	OK
MW-32	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-32	Potassium	1	mg/L		1	0.5	OK
MW-32	Selenium	5	ug/L	U	20	5	OK
MW-32	Silver	10	ug/L	U	20	10	OK
MW-32	Sodium	100	mg/L		100	0.5	OK
MW-32	Sulfate	1000	mg/L		1000	1	OK
MW-32	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-32	Thallium	0.5	ug/L	U	5	0.5	OK
MW-32	Tin	100	ug/L	U	20	100	OK
MW-32	Toluene	1	ug/L	U	1	1	OK
MW-32	Total Dissolved Solids	20	MG/L		2	10	OK
MW-32	Uranium	0.3	ug/L		2	0.3	OK
MW-32	Vanadium	15	ug/L	U	1	15	OK
MW-32	Xylenes, Total	1	ug/L	U	1	1	OK
MW-32	Zinc	10	ug/L		20	10	OK
MW-35	2-Butanone	20	ug/L	U	1	20	OK
MW-35	Acetone	20	ug/L	U	1	20	OK
MW-35	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-35	Arsenic	5	ug/L	U	20	5	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-35	Benzene	1	ug/L	U	1	1	OK
MW-35	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-35	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-35	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-35	Calcium	50	mg/L		50	0.5	OK
MW-35	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-35	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-35	Chloride	10	mg/L		10	1	OK
MW-35	Chloroform	1	ug/L	U	1	1	OK
MW-35	Chloromethane	1	ug/L	U	1	1	OK
MW-35	Chromium	25	ug/L	U	20	25	OK
MW-35	Cobalt	10	ug/L	U	20	10	OK
MW-35	Copper	10	ug/L	U	20	10	OK
MW-35	Fluoride	0.1	mg/L		1	0.1	OK
MW-35	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-35	Iron	30	ug/L		5	30	OK
MW-35	Lead	1	ug/L	U	5	1	OK
MW-35	Magnesium	50	mg/L		50	0.5	OK
MW-35	Manganese	10	ug/L		20	10	OK
MW-35	Mercury	0.5	ug/L	U	1	0.5	OK
MW-35	Methylene chloride	1	ug/L	U	1	1	OK
MW-35	Molybdenum	10	ug/L	U	20	10	OK
MW-35	Naphthalene	1	ug/L	U	1	1	OK
MW-35	Nickel	20	ug/L	U	20	20	OK
MW-35	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-35	Potassium	1	mg/L		1	0.5	OK
MW-35	Selenium	5	ug/L		20	5	OK
MW-35	Silver	10	ug/L	U	20	10	OK
MW-35	Sodium	50	mg/L		50	0.5	OK
MW-35	Sulfate	1000	mg/L		1000	1	OK
MW-35	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-35	Thallium	0.5	ug/L	U	5	0.5	OK
MW-35	Tin	100	ug/L	U	20	100	OK
MW-35	Toluene	1	ug/L	U	1	1	OK
MW-35	Total Dissolved Solids	20	MG/L		2	10	OK
MW-35	Uranium	0.3	ug/L		2	0.3	OK
MW-35	Vanadium	15	ug/L	U	1	15	OK
MW-35	Xylenes, Total	1	ug/L	U	1	1	OK
MW-35	Zinc	10	ug/L	U	20	10	OK
MW-36	2-Butanone	20	ug/L	U	1	20	OK
MW-36	Acetone	20	ug/L	U	1	20	OK
MW-36	Ammonia as N	0.2	mg/L		1	0.05	OK
MW-36	Arsenic	5	ug/L	U	20	5	OK
MW-36	Benzene	1	ug/L	U	1	1	OK
MW-36	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-36	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-36	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-36	Calcium	50	mg/L		50	0.5	OK
MW-36	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-36	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-36	Chloride	10	mg/L		10	1	OK
MW-36	Chloroform	1	ug/L	U	1	1	OK
MW-36	Chloromethane	1	ug/L	U	1	1	OK
MW-36	Chromium	25	ug/L	U	20	25	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-36	Cobalt	10	ug/L	U	20	10	OK
MW-36	Copper	10	ug/L	U	20	10	OK
MW-36	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-36	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-36	Iron	30	ug/L	U	5	30	OK
MW-36	Lead	1	ug/L	U	5	1	OK
MW-36	Magnesium	50	mg/L		50	0.5	OK
MW-36	Manganese	10	ug/L	U	20	10	OK
MW-36	Mercury	0.5	ug/L	U	1	0.5	OK
MW-36	Methylene chloride	1	ug/L	U	1	1	OK
MW-36	Molybdenum	10	ug/L	U	20	10	OK
MW-36	Naphthalene	1	ug/L	U	1	1	OK
MW-36	Nickel	20	ug/L	U	20	20	OK
MW-36	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-36	Potassium	1	mg/L		1	0.5	OK
MW-36	Selenium	5	ug/L		20	5	OK
MW-36	Silver	10	ug/L	U	20	10	OK
MW-36	Sodium	50	mg/L		50	0.5	OK
MW-36	Sulfate	1000	mg/L		1000	1	OK
MW-36	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-36	Thallium	0.5	ug/L		5	0.5	OK
MW-36	Tin	100	ug/L	U	20	100	OK
MW-36	Toluene	1	ug/L	U	1	1	OK
MW-36	Total Dissolved Solids	20	MG/L		2	10	OK
MW-36	Uranium	0.3	ug/L		2	0.3	OK
MW-36	Vanadium	15	ug/L	U	1	15	OK
MW-36	Xylenes, Total	1	ug/L	U	1	1	OK
MW-36	Zinc	10	ug/L	U	20	10	OK
MW-37	2-Butanone	20	ug/L	U	1	20	OK
MW-37	Acetone	20	ug/L	U	1	20	OK
MW-37	Ammonia as N	0.1	mg/L		2	0.05	OK
MW-37	Arsenic	5	ug/L	U	20	5	OK
MW-37	Benzene	1	ug/L	U	1	1	OK
MW-37	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-37	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-37	Cadmium	0.5	ug/L		20	0.5	OK
MW-37	Calcium	100	mg/L		100	0.5	OK
MW-37	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-37	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-37	Chloride	10	mg/L		10	1	OK
MW-37	Chloroform	1	ug/L	U	1	1	OK
MW-37	Chloromethane	1	ug/L	U	1	1	OK
MW-37	Chromium	25	ug/L	U	20	25	OK
MW-37	Cobalt	10	ug/L	U	20	10	OK
MW-37	Copper	10	ug/L	U	20	10	OK
MW-37	Fluoride	0.1	mg/L		1	0.1	OK
MW-37	Gross Radium Alpha	0.772	pCi/L	U	1	1	OK
MW-37	Iron	30	ug/L	U	5	30	OK
MW-37	Lead	1	ug/L	U	5	1	OK
MW-37	Magnesium	10	mg/L		10	0.5	OK
MW-37	Manganese	10	ug/L		20	10	OK
MW-37	Mercury	0.5	ug/L	U	1	0.5	OK
MW-37	Methylene chloride	1	ug/L	U	1	1	OK
MW-37	Molybdenum	10	ug/L	U	20	10	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-37	Naphthalene	1	ug/L	U	1	1	OK
MW-37	Nickel	20	ug/L	U	20	20	OK
MW-37	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-37	Potassium	1	mg/L		1	0.5	OK
MW-37	Selenium	5	ug/L		20	5	OK
MW-37	Silver	10	ug/L	U	20	10	OK
MW-37	Sodium	10	mg/L		10	0.5	OK
MW-37	Sulfate	1000	mg/L		1000	1	OK
MW-37	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-37	Thallium	0.5	ug/L		5	0.5	OK
MW-37	Tin	100	ug/L	U	20	100	OK
MW-37	Toluene	1	ug/L	U	1	1	OK
MW-37	Total Dissolved Solids	20	MG/L		2	10	OK
MW-37	Uranium	0.3	ug/L		2	0.3	OK
MW-37	Vanadium	15	ug/L	U	1	15	OK
MW-37	Xylenes, Total	1	ug/L	U	1	1	OK
MW-37	Zinc	10	ug/L		20	10	OK
MW-65	2-Butanone	20	ug/L	U	1	20	OK
MW-65	Acetone	20	ug/L	U	1	20	OK
MW-65	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-65	Arsenic	5	ug/L	U	20	5	OK
MW-65	Benzene	1	ug/L	U	1	1	OK
MW-65	Beryllium	0.5	ug/L	U	5	0.5	OK
MW-65	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-65	Cadmium	0.5	ug/L	U	20	0.5	OK
MW-65	Calcium	50	mg/L		50	0.5	OK
MW-65	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-65	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-65	Chloride	10	mg/L		10	1	OK
MW-65	Chloroform	1	ug/L	U	1	1	OK
MW-65	Chloromethane	1	ug/L	U	1	1	OK
MW-65	Chromium	25	ug/L	U	20	25	OK
MW-65	Cobalt	10	ug/L	U	20	10	OK
MW-65	Copper	10	ug/L	U	20	10	OK
MW-65	Fluoride	0.1	mg/L	U	1	0.1	OK
MW-65	Gross Radium Alpha	1	pCi/L	U	1	1	OK
MW-65	Iron	30	ug/L	U	5	30	OK
MW-65	Lead	1	ug/L	U	5	1	OK
MW-65	Magnesium	50	mg/L		50	0.5	OK
MW-65	Manganese	10	ug/L	U	20	10	OK
MW-65	Mercury	0.5	ug/L	U	1	0.5	OK
MW-65	Methylene chloride	1	ug/L	U	1	1	OK
MW-65	Molybdenum	10	ug/L	U	20	10	OK
MW-65	Naphthalene	1	ug/L	U	1	1	OK
MW-65	Nickel	20	ug/L	U	20	20	OK
MW-65	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-65	Potassium	1	mg/L		1	0.5	OK
MW-65	Selenium	5	ug/L		20	5	OK
MW-65	Silver	10	ug/L	U	20	10	OK
MW-65	Sodium	50	mg/L		50	0.5	OK
MW-65	Sulfate	1000	mg/L		1000	1	OK
MW-65	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-65	Thallium	0.5	ug/L		5	0.5	OK
MW-65	Tin	100	ug/L	U	20	100	OK

G-5A Quarterly Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-65	Toluene	1	ug/L	U	1	1	OK
MW-65	Total Dissolved Solids	20	MG/L		2	10	OK
MW-65	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Vanadium	15	ug/L	U	1	15	OK
MW-65	Xylenes, Total	1	ug/L	U	1	1	OK
MW-65	Zinc	10	ug/L	U	20	10	OK
MW-70	2-Butanone	20	ug/L	U	1	20	OK
MW-70	Acetone	20	ug/L	U	1	20	OK
MW-70	Ammonia as N	0.2	mg/L		2	0.05	OK
MW-70	Arsenic	5	ug/L	U	20	5	OK
MW-70	Benzene	1	ug/L	U	1	1	OK
MW-70	Beryllium	0.5	ug/L		5	0.5	OK
MW-70	Bicarbonate (as CaCO3)	1	mg/L		1	1	OK
MW-70	Cadmium	0.5	ug/L		20	0.5	OK
MW-70	Calcium	100	mg/L		100	0.5	OK
MW-70	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-70	Carbonate (as CaCO3)	1	mg/L	U	1	1	OK
MW-70	Chloride	10	mg/L		10	1	OK
MW-70	Chloroform	1	ug/L	U	1	1	OK
MW-70	Chloromethane	1	ug/L	U	1	1	OK
MW-70	Chromium	25	ug/L	U	20	25	OK
MW-70	Cobalt	10	ug/L		20	10	OK
MW-70	Copper	10	ug/L		20	10	OK
MW-70	Fluoride	0.1	mg/L		1	0.1	OK
MW-70	Gross Radium Alpha	0.75	pCi/L		1	1	OK
MW-70	Iron	30	ug/L		5	30	OK
MW-70	Lead	1	ug/L		5	1	OK
MW-70	Magnesium	100	mg/L		100	0.5	OK
MW-70	Manganese	250	ug/L		500	10	OK
MW-70	Mercury	0.5	ug/L	U	1	0.5	OK
MW-70	Methylene chloride	1	ug/L	U	1	1	OK
MW-70	Molybdenum	10	ug/L		20	10	OK
MW-70	Naphthalene	1	ug/L	U	1	1	OK
MW-70	Nickel	20	ug/L		20	20	OK
MW-70	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-70	Potassium	10	mg/L		10	0.5	OK
MW-70	Selenium	5	ug/L		20	5	OK
MW-70	Silver	10	ug/L	U	20	10	OK
MW-70	Sodium	10	mg/L		10	0.5	OK
MW-70	Sulfate	1000	mg/L		1000	1	OK
MW-70	Tetrahydrofuran	1	ug/L	U	1	1	OK
MW-70	Thallium	0.5	ug/L		5	0.5	OK
MW-70	Tin	100	ug/L	U	20	100	OK
MW-70	Toluene	1	ug/L	U	1	1	OK
MW-70	Total Dissolved Solids	20	MG/L		2	10	OK
MW-70	Uranium	0.3	ug/L		2	0.3	OK
MW-70	Vanadium	15	ug/L	U	1	15	OK
MW-70	Xylenes, Total	1	ug/L	U	1	1	OK
MW-70	Zinc	10	ug/L		20	10	OK

G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	1	OK
Trip Blank	Chloroform	1	ug/L	U	1	1	OK
Trip Blank	Methylene chloride	1	ug/L	U	1	1	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-11	Manganese	10	ug/L		20	10	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Uranium	0.3	ug/L		2	0.3	OK
MW-25	Cadmium	0.5	ug/L		20	0.5	OK
MW-25	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Chloride	5	mg/L		5	1	OK
MW-26	Chloroform	20	ug/L		20	1	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L		1	0.1	OK
MW-26	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Chloride	10	mg/L		10	1	OK
MW-26	Nitrate/Nitrite (as N)	0.1	mg/L	U	1	0.1	OK
MW-26	Uranium	0.3	ug/L		2	0.3	OK
MW-26	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-26	Chloroform	100	ug/L		100	1	OK
MW-26	Methylene chloride	1	ug/L		1	1	OK
MW-30	Chloride	50	mg/L		10	1	OK
MW-30	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-30	Chloride	100	mg/L		100	1	OK
MW-30	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-30	Selenium	5	ug/L		20	5	OK
MW-30	Uranium	0.3	ug/L		2	0.3	OK
MW-31	Chloride	50	mg/L		10	1	OK
MW-31	Nitrate/Nitrite (as N)	1	mg/L		10	0.1	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Sulfate	5	mg/L		5	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-31	Chloride	100	mg/L		100	1	OK
MW-31	Nitrate/Nitrite (as N)	10	mg/L		100	0.1	OK
MW-31	Selenium	5	ug/L		20	5	OK
MW-31	Sulfate	100	mg/L		100	1	OK
MW-31	Total Dissolved Solids	20	MG/L		2	10	OK
MW-35	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-35	Manganese	10	ug/L		20	10	OK
MW-35	Selenium	5	ug/L		20	5	OK
MW-35	Thallium	0.5	ug/L	U	5	0.5	OK
MW-35	Uranium	0.75	ug/L		5	0.3	OK
MW-35	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-35	Manganese	10	ug/L		20	10	OK
MW-35	Selenium	5	ug/L		20	5	OK
MW-35	Thallium	0.5	ug/L	U	5	0.5	OK
MW-35	Uranium	0.3	ug/L		2	0.3	OK
MW-65	Gross Radium Alpha	1	pCi/L		1	1	OK
MW-65	Manganese	10	ug/L		20	10	OK

G-5B Accelerated Sample Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Dilution Factor	Required Reporting Limit	RL Check
MW-65	Selenium	5	ug/L		20	5	OK
MW-65	Thallium	0.5	ug/L	U	5	0.5	OK
MW-65	Uranium	0.75	ug/L		5	0.3	OK
MW-65	Manganese	10	ug/L		20	10	OK
MW-65	Carbon tetrachloride	1	ug/L	U	1	1	OK
MW-65	Chloroform	100	ug/L		100	1	OK
MW-65	Methylene chloride	1	ug/L		1	1	OK

U = Analyte not detected.

G-6A: Trip Blank Evaluation

All trip blanks for the Quarter were non detect.

Blank	Sample Date	Laboratory
AWAL 1412120	12/3/2014	American West Analytical Laboratories
AWAL 1411349	11/17/2014	American West Analytical Laboratories
AWAL 1411097	11/4/2014	American West Analytical Laboratories
AWAL 1411223	11/10/2014	American West Analytical Laboratories

G-6B: Trip Blank Evaluation

All trip blanks for the Accelerated samples were non detect.

Blank	Sample Date	Laboratory
AWAL 1410137	10/6/2014	American West Analytical Laboratories
AWAL 1412317	12/15/2014	American West Analytical Laboratories

G-7A: QA/QC Evaluation for Routine Sample Duplicates

Constituent	MW-36 11/12/14	MW-65 11/12/14	%RPD
Ammonia (as N)	0.2	0.2	0.00
Bicarbonate as HCO ₃ (mg/L)	310	344	10.40
Calcium (mg/L)	549	546	0.55
Chloride (mg/L)	61.2	60.9	0.49
Magnesium (mg/L)	175	173	1.15
Nitrate + Nitrite (as N) (mg/L)	0.143	0.129	10.29
Potassium (mg/L)	9.7	9.66	0.41
Selenium (mg/L)	0.23	0.233	1.30
Sodium (mg/L)	879	860	2.19
Sulfate (mg/L)	2700	2560	5.32
TDS (mg/L)	4140	4220	1.91
Thallium (mg/L)	0.000663	0.000659	0.61
Uranium (mg/L)	0.0195	0.0209	6.93

Radiologic Duplicate Tests

Gross Alpha minus Rn & U*	<1.0	<1.0	NC
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* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.

Constituent	MW-22 11/18/14	MW-70 11/18/14	%RPD
Ammonia (as N) (mg/L)	0.8	0.7	13.33
Beryllium (mg/L)	0.0111	0.0108	2.74
Bicarbonate as HCO ₃	21.5	27.1	23.05
Cadmium (mg/L)	0.148	0.145	2.05
Calcium (mg/L)	422	411	2.64
Chloride (mg/L)	47.3	46.4	1.92
Cobalt (mg/L)	0.461	0.451	2.19
Copper (mg/L)	0.0692	0.0665	3.98
Fluoride (mg/L)	7.10	7.00	1.42
Iron (mg/L)	0.0688	0.0684	0.58
Lead (mg/L)	0.00485	0.00487	0.41
Magnesium (mg/L)	1090	1050	3.74
Manganese (mg/L)	43.4	46.5	6.90
Molybdenum (mg/L)	0.212	0.212	0.00
Nickel (mg/L)	0.271	0.261	3.76
Nitrate + Nitrite (as N) (mg/L)	1.85	1.53	18.93
Potassium (mg/L)	20.6	20.4	0.98
Selenium (mg/L)	0.0105	0.0107	1.89
Sodium (mg/L)	268	268	0.00
Sulfate (mg/L)	6600	6310	4.49
TDS (mg/L)	7670	8000	4.21
Thallium (mg/L)	0.00148	0.0015	1.34
Uranium (mg/L)	0.0207	0.0201	2.94
Zinc (mg/L)	1.19	1.17	1.69

Radiologic Duplicate Tests

Gross Alpha minus Rn & U MDC	3.58	3.91	0.43
Gross Alpha minus Rn & U*	0.532	0.554	

* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.

Per the approved QAP, an RPD greater than 20% is acceptable if the reported results are less than 5 times the RL. These results are provided for information only.

RPD exceeds the QAP limit of 20%.

G-7B: QA/QC Evaluation for Accelerated Sample Duplicates

Constituent	MW-35 10/6/14	MW-65 10/6/14	%RPD*
Manganese (mg/L)	0.228	0.232	1.74
Selenium (mg/L)	0.0155	0.0155	0.00
Thallium (mg/L)	<0.0005	<0.0005	N/A
Uranium (mg/L)	0.0239	0.0245	2.48
Radiologic RPD Tests			
Gross Alpha minus Rn & U	4.14	4.15	0.012
Gross Alpha minus Rn & U Precision (±)	0.624	0.596	
Constituent	MW-11 12/10/14	MW-65 12/10/14	%RPD
Manganese (mg/L)	0.186	0.186	0.00
Constituent	MW-26 Resample 12/15/14	MW-65 Resample 12/15/14	%RPD
Carbon Tetrachloride (ug/L)	< 1.0	< 1.0	N/A
Chloroform (ug/L)	2280	3210	33.88
Dichloromethane (Methylene Chloride) (ug/L)	28.4	22.8	21.88

* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved QAP.

Per the approved QAP, an RPD greater than 20% is acceptable if the reported results are less than 5 times the RL. These results are provided for information only.

RPD exceeds the QAP limit of 20%.

G-8A: Radiologics Counting Error

Well	Sample Date	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error ≤ 20%	GWCL	Within GWCL?
MW-01	11/17/2014	1.00 U	0.217	NC	3.75	NC
MW-02	11/17/2014	1.00 U	0.278	NC	3.2	NC
MW-03	11/17/2014	1.00 U	0.244	NC	1	NC
MW-03A	11/12/2014	1.00 U	0.309	NC	7.5	NC
MW-05	11/11/2014	1.00 U	0.197	NC	3.75	NC
MW-11	11/17/2014	1.00 U	0.227	NC	3.75	NC
MW-12	11/11/2014	1.00 U	0.166	NC	7.5	NC
MW-14	11/12/2014	1.00 U	0.272	NC	7.5	NC
MW-15	11/12/2014	1.00 U	0.222	NC	7.5	NC
MW-17	11/12/2014	1.00 U	0.288	NC	2.8	NC
MW-18	11/10/2014	1.00 U	0.200	NC	7.5	NC
MW-19	11/11/2014	1.00 U	0.266	NC	2.36	NC
MW-20	12/3/2014	1.00 U	0.281	NC	-	-
MW-22	11/18/2014	3.58	0.532	Y	-	-
MW-23	11/19/2014	1.01	0.344	N	2.86	Y
MW-24	11/19/2014	1.00 U	0.253	NC	7.5	NC
MW-25	11/4/2014	1.00 U	0.275	NC	7.5	NC
MW-26	11/18/2014	1.83	0.420	N	4.69	Y
MW-27	11/5/2014	1.00 U	0.339	NC	2	NC
MW-28	11/5/2014	1.25	0.408	N	2.42	Y
MW-29	11/10/2014	1.50	0.333	NC	2	NC
MW-30	11/10/2014	1.00 U	0.217	NC	3.75	NC
MW-31	11/4/2014	1.00 U	0.273	NC	7.5	NC
MW-32	11/5/2014	2.56	0.439	Y	3.33	N/A
MW-35	11/12/2014	3.92	0.633	Y	3.75	N/A
MW-36	11/12/2014	1.00 U	0.930	NC	-	-
MW-37	12/3/2014	1.00 U	0.297	NC	-	-
MW-65	11/12/2014	1.00 U	0.368	NC	-	-
MW-70	11/18/2014	3.91	0.544	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

Well	Sample Date	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error \leq 20%	GWCL	Within GWCL?
MW-35	10/6/2014	4.14	0.624	Y	3.75	N/A
MW-35	12/9/2014	4.54	0.588	Y	3.75	N/A
MW-65	10/6/2014	4.15	0.596	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
1412120	MW-37	Sodium *	NC	NC	70-130	NC	20
1412120	MW-37	Calcium *	NC	NC	70-130	NC	20
1412120	MW-37	Nitrate/Nitrite (as N)	13.9	30.3	90-110	74.4	10
1412120	N/A	Nitrate/Nitrite (as N)	118	123	90-110	4.61	10
1411349	MW-01	Calcium*	NC	NC	70-130	NC	20
1411349	MW-01	Sodium *	NC	NC	70-130	NC	20
1411349	MW-01	Magnesium *	NC	NC	70-130	NC	20
1411349	MW-01	Nitrate/Nitrite (as N)	50	77	90-110	42.6	10
1411349	MW-01	Calcium*	NC	NC	70-130	NC	20
1411097	MW-25	Manganese*	NC	NC	70-130	NC	20
1411097	MW-25	Calcium*	NC	NC	70-130	NC	20
1411097	MW-25	Silver	75.8	66.7	75-125	12.6	20
1411223	MW-03A	Calcium*	NC	NC	70-130	NC	20
1411223	MW-03A	Manganese*	NC	NC	70-130	NC	20
1411223	MW-03A	Sodium *	NC	NC	70-130	NC	20
1411223	MW-65 (duplicate of MW-36)	Calcium*	NC	NC	70-130	NC	20
1411223	MW-65 (duplicate of MW-36)	Sodium *	NC	NC	70-130	NC	20
1411223	MW-12	Chloride	62.5	62.5	90-110	0.05	10

N/A = QC was not performed on an EFRI sample.

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

Laboratory Duplicate % Recovery Comparison

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
1411097	MW-25	Total Dissolved Solids	2930	2670	9.43	5

Method Blank Detections

Lab Report	Well/Sample	Analyte	Reported Concentration	QAP Required RL
CTF - 1413223	N/A	Ammonia	0.2 mg/L	0.05 mg/L
CTF - 1413223	N/A	Ammonia	0.1 mg/L	0.05 mg/L
CTF - 1412298	N/A	Ammonia	0.1 mg/L	0.05 mg/L
CTF - 1412298	N/A	Ammonia	0.1 mg/L	0.05 mg/L
CTF - 1413217	N/A	Ammonia	0.2 mg/L	0.05 mg/L
CTF - 1413217	N/A	Ammonia	0.1 mg/L	0.05 mg/L
CTF - 1413608	N/A	Ammonia	0.2 mg/L	0.05 mg/L
CTF - 1413608	N/A	Ammonia	0.1 mg/L	0.05 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 %
1410137 - October Accelerated	MW-11	Cadmium	97.9	67.8	75 - 125	36.2	20
1410137 - October Accelerated	MW-11	Manganese	96.5	47.5	75 - 125	32.60	20
1410137 - October Accelerated	MW-11	Selenium	98.3	72.5	75 - 125	30.20	20
1410137 - October Accelerated	MW-11	Thallium	94.3	66.5	75 - 125	34.70	20
1410137 - October Accelerated	MW-11	Uranium	105	72.5	75 - 125	36.10	20
1410137 - October Accelerated	MW-26	Choride	84.1	76.1	90-110	1.22	10
1410137 - October Accelerated	N/A	Choride	86.3	84.1	90-110	1.52	10
1412120 - december Accelerated	MW-26	Nitrate	13.9	30.3	90-110	74.4	10
1412120 - december Accelerated	N/A	Nitrate	118	123	90-110	4.61	10

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

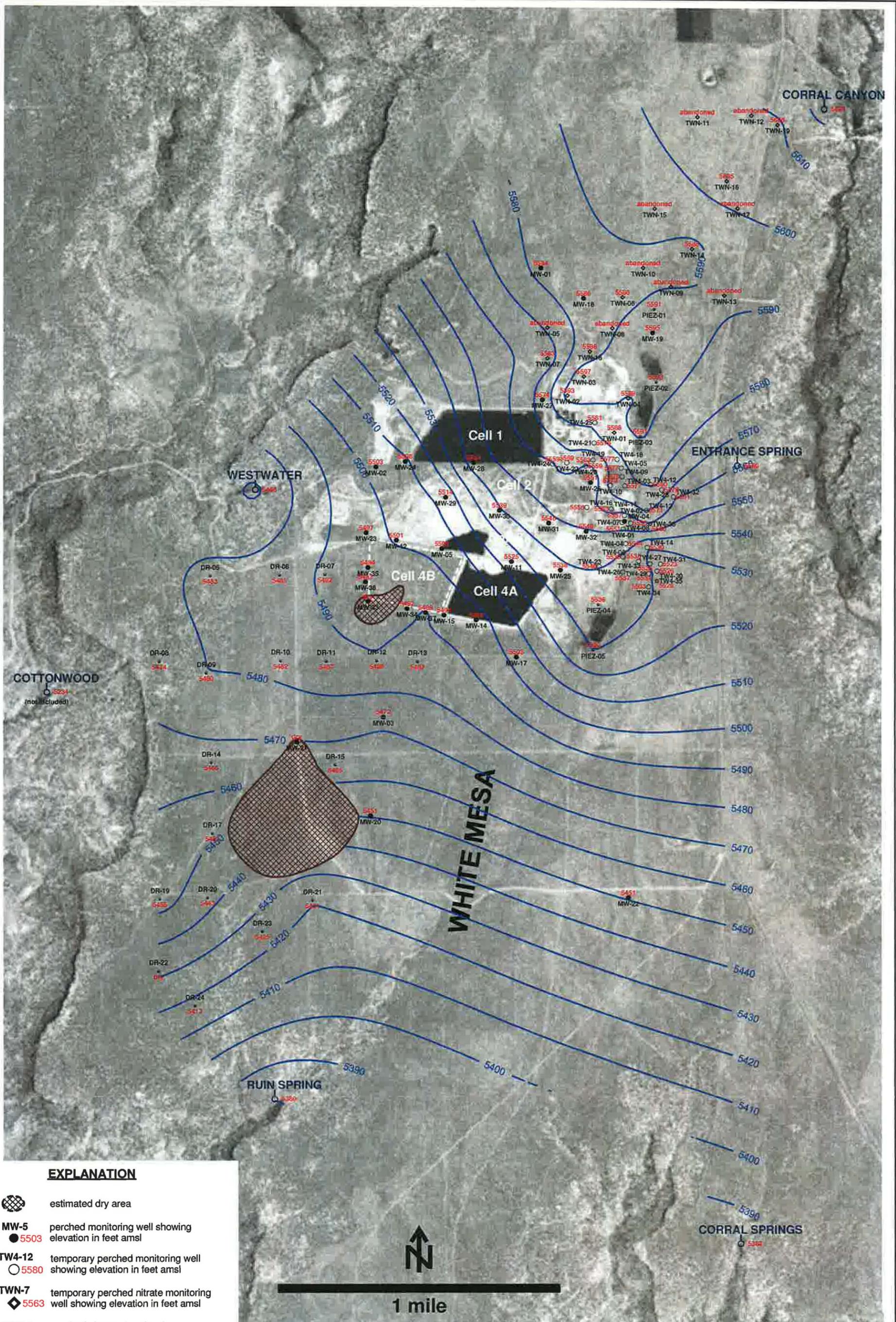
N/A = QC was not performed on an EFRI sample.

Laboratory Duplicate % Recovery Comparison

Lab Report	Well	Analyte	Sample Result (mg/L)	Lab Duplicate Result (mg/L)	RPD %	RPD Range %
1410137 - October Accelerated	MW-31	Total Dissolved Solids	1510	1420	6.0	5
358875 - October Accelerated	MW-65 (duplicate of MW-35)	Gross Radium Alpha	4.15	6.06	37.3	0-20

Tab H

Kriged Current Quarterly Groundwater Contour Map



EXPLANATION

-  estimated dry area
- MW-5**
 5503
perched monitoring well showing elevation in feet amsl
- TW4-12**
 5580
temporary perched monitoring well showing elevation in feet amsl
- TWN-7**
 5563
temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1**
 5591
perched piezometer showing elevation in feet amsl
- TW4-35**
 5526
temporary perched monitoring well installed May, 2014 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.**

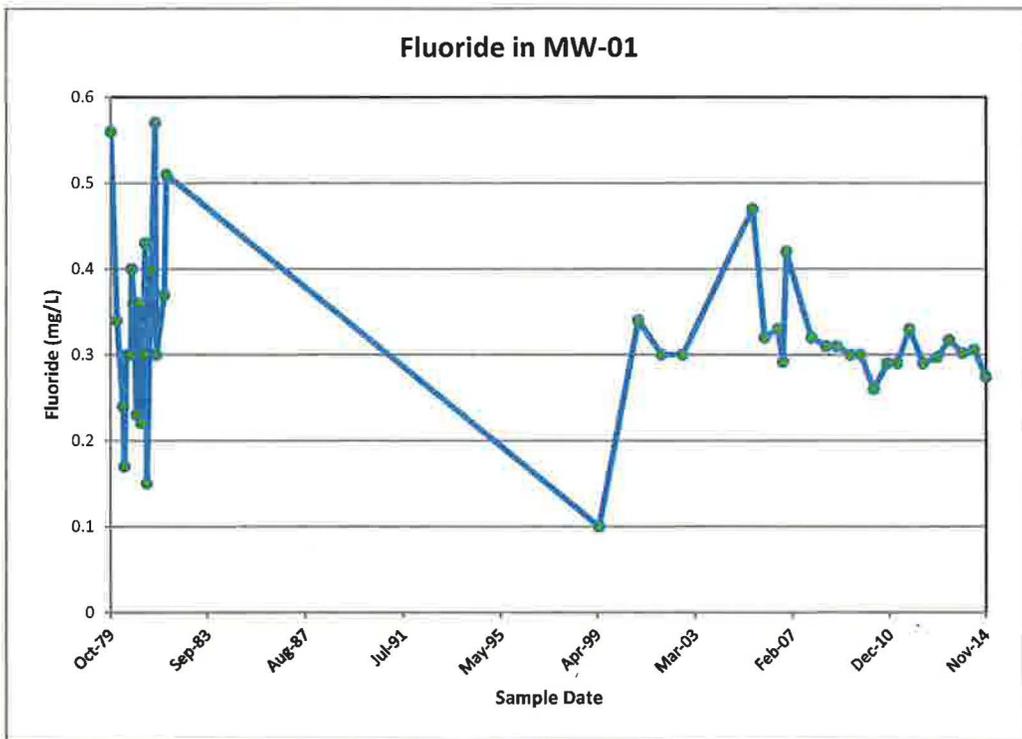
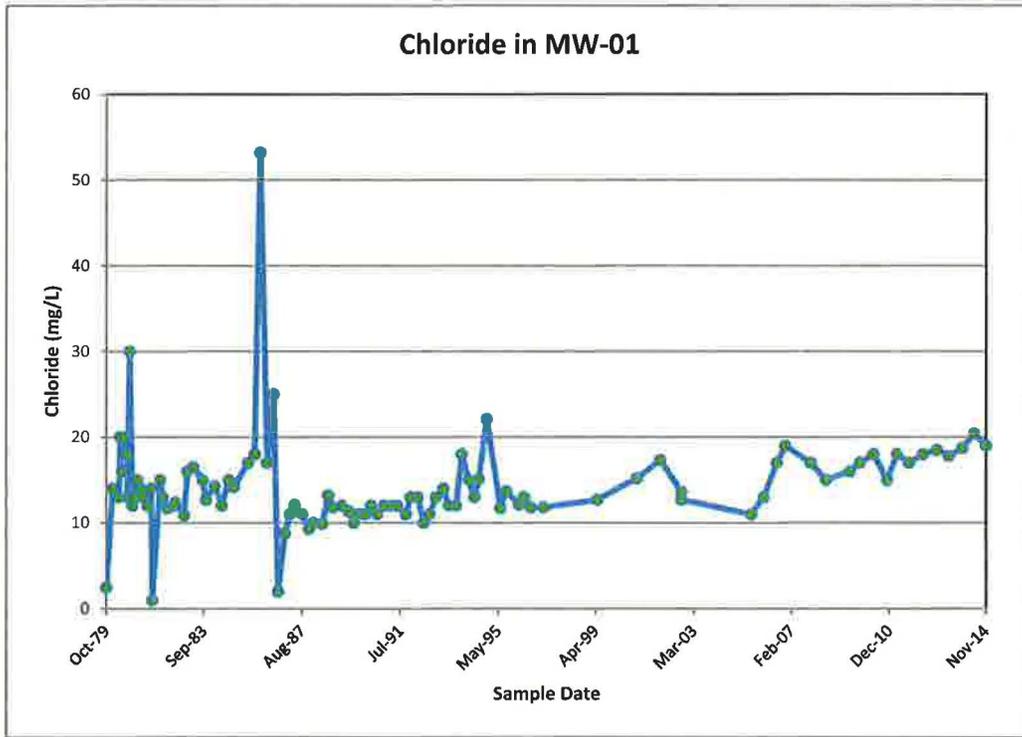
**KRIGED 4th QUARTER, 2014 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	FIGURE
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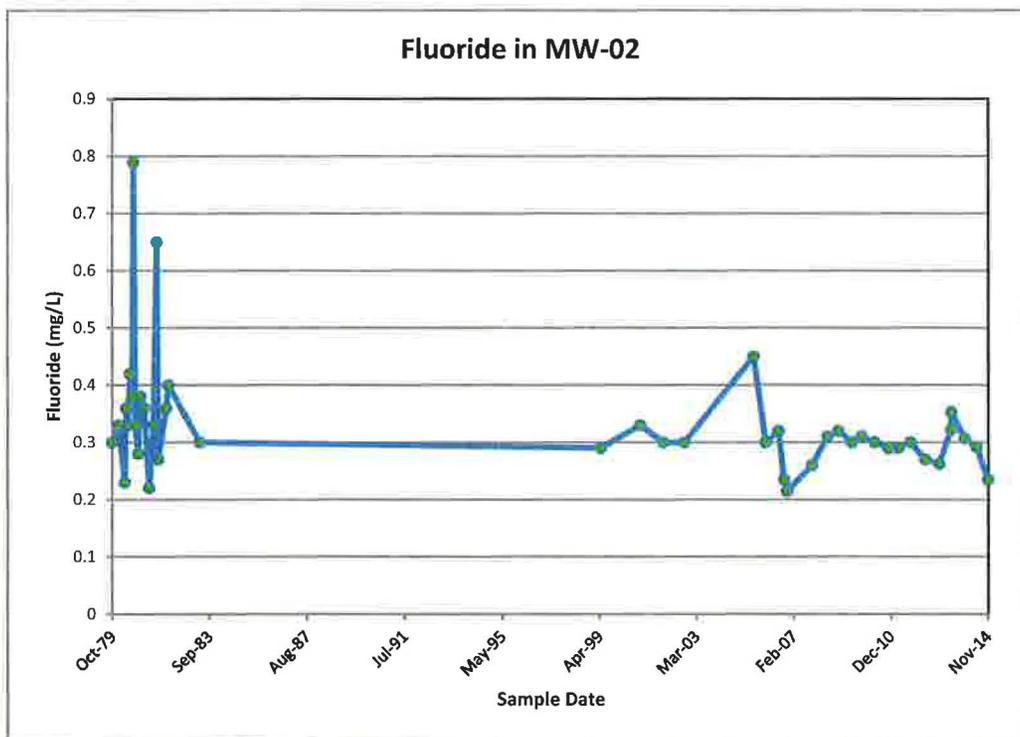
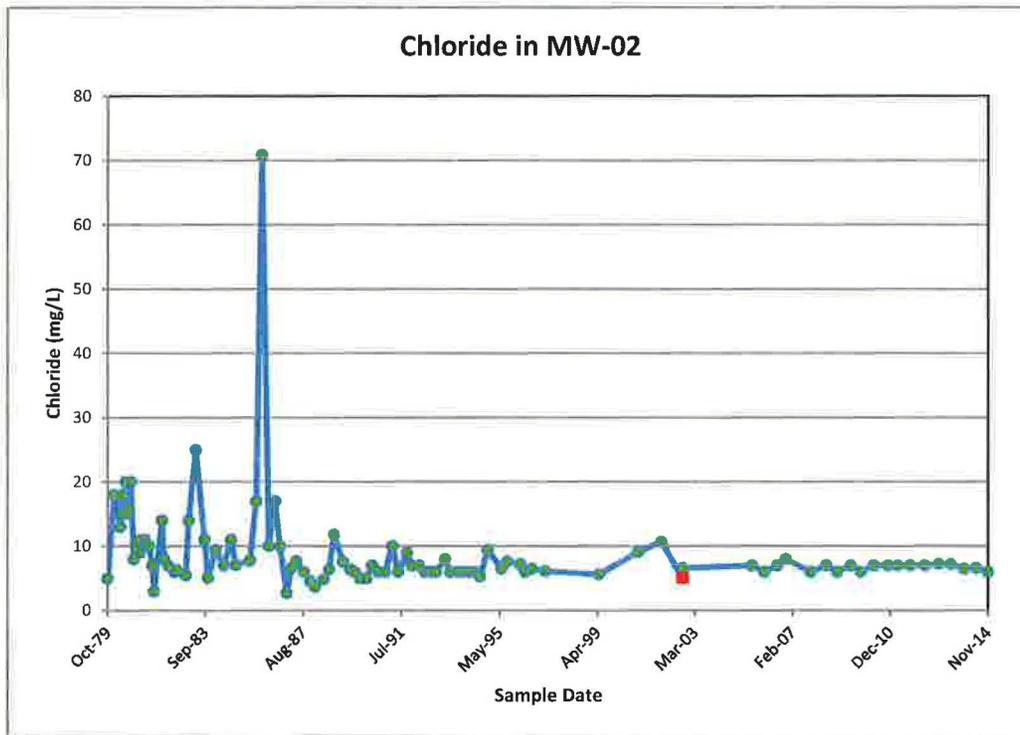
Tab I

Groundwater Time Concentration Plots

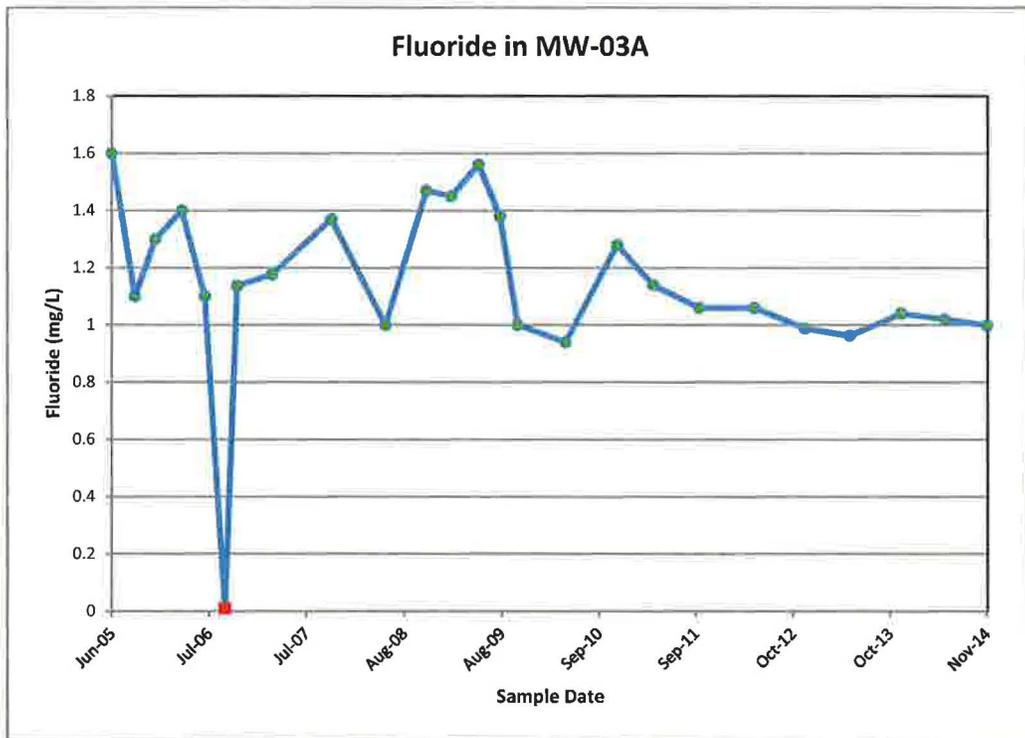
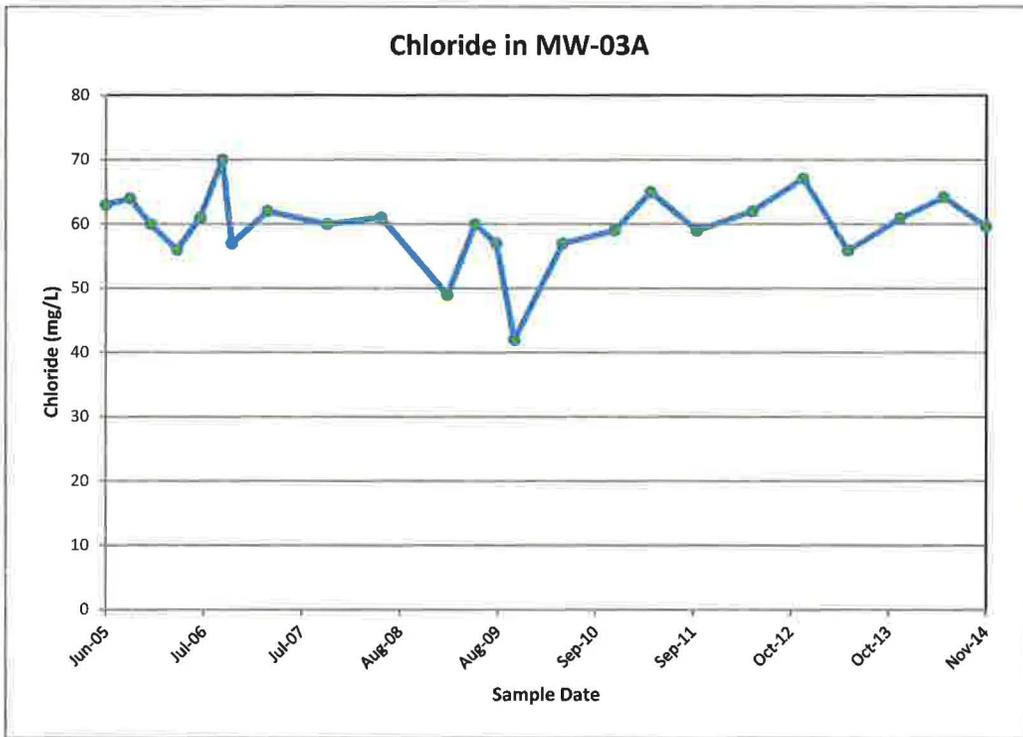
Time concentration plots for MW-01



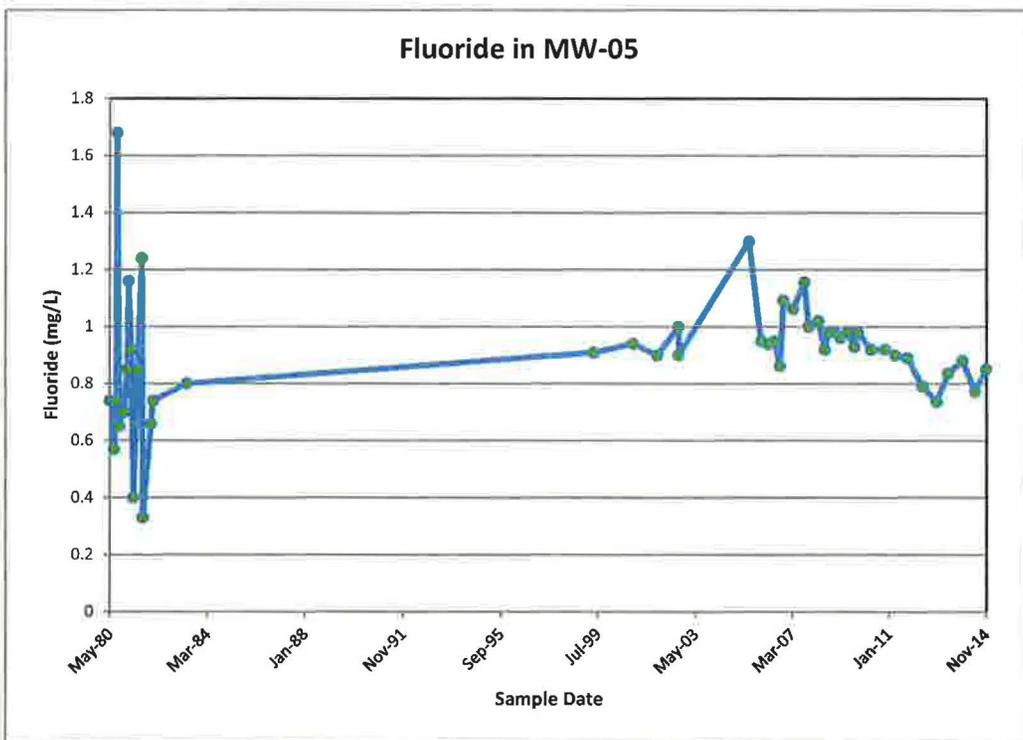
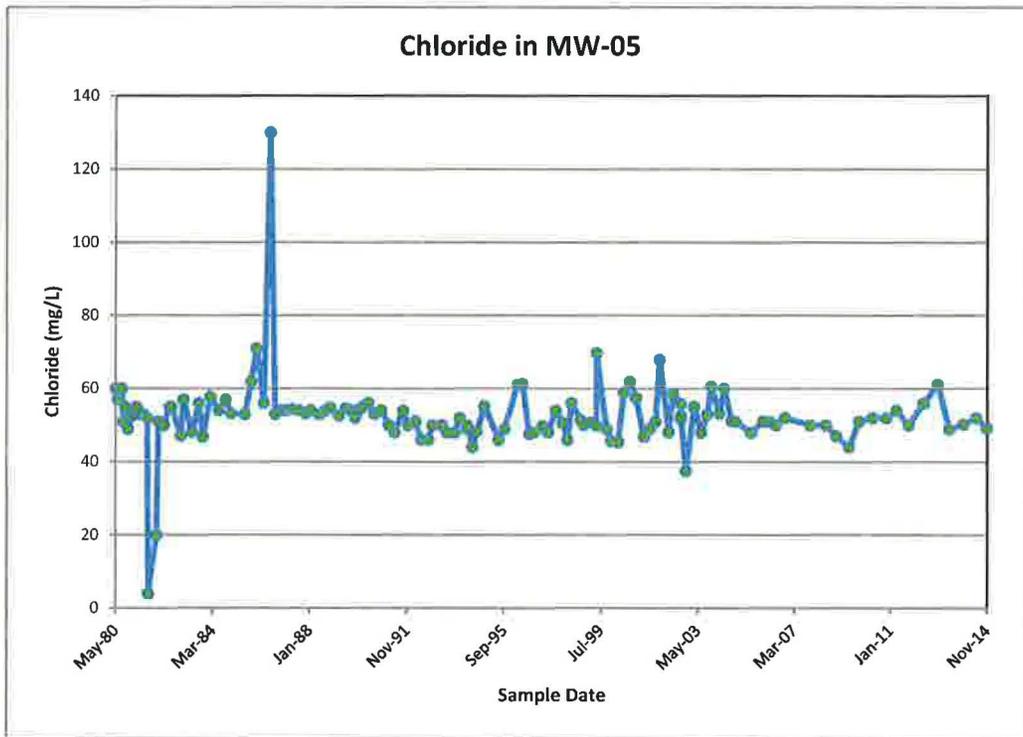
Time concentration plots for MW-02



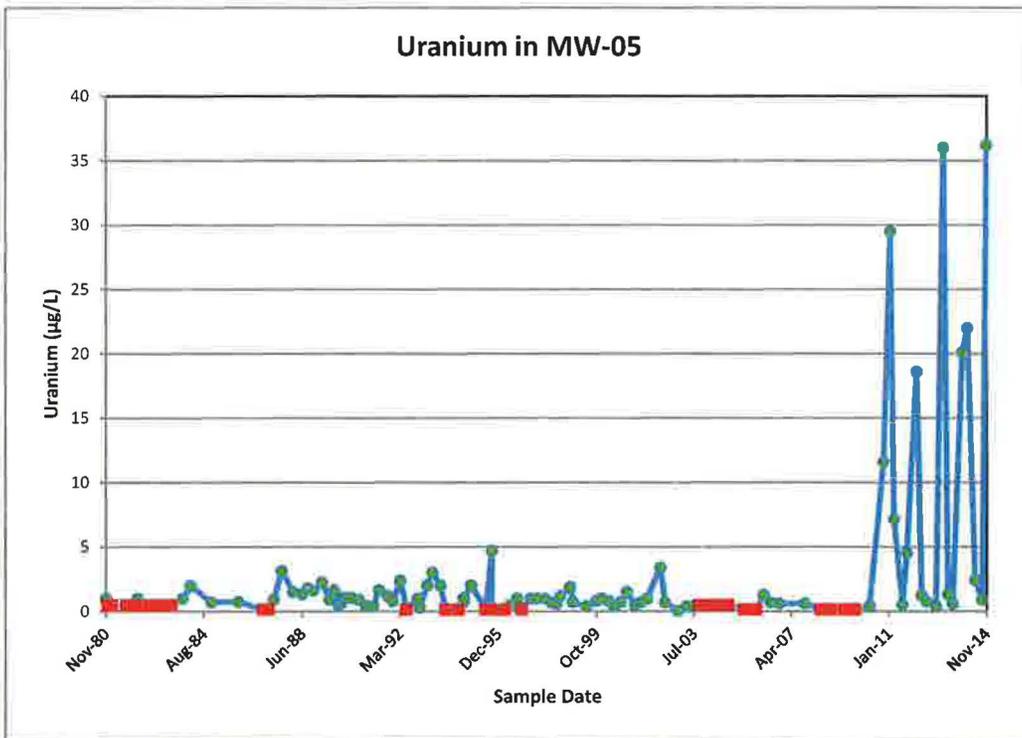
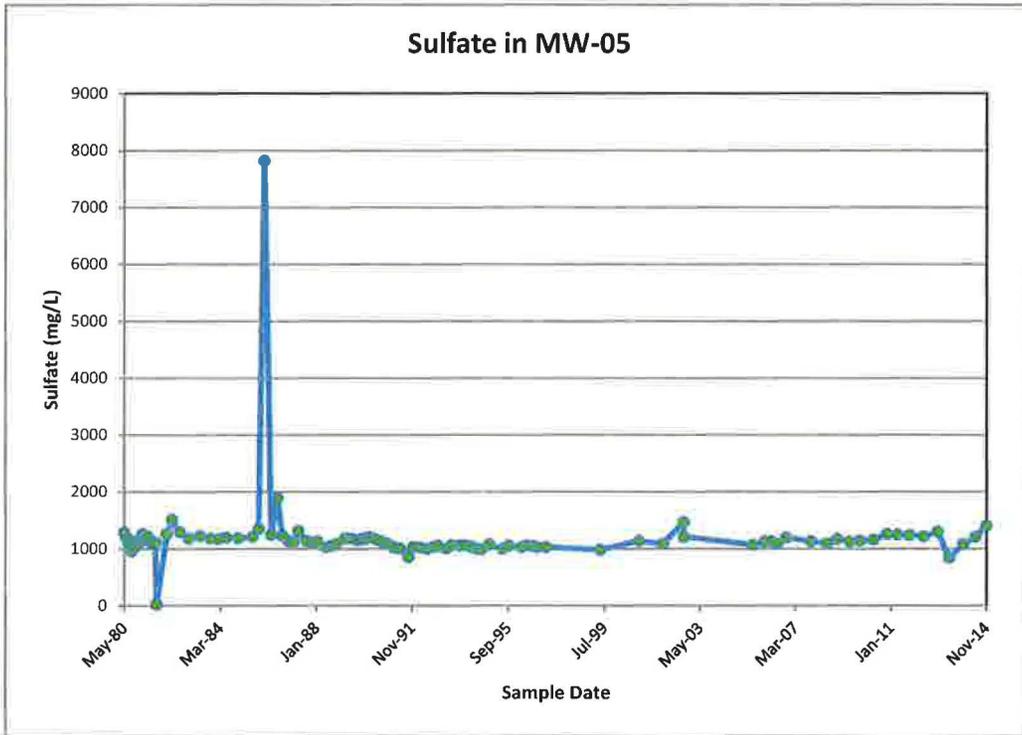
Time concentration plots for MW-03A



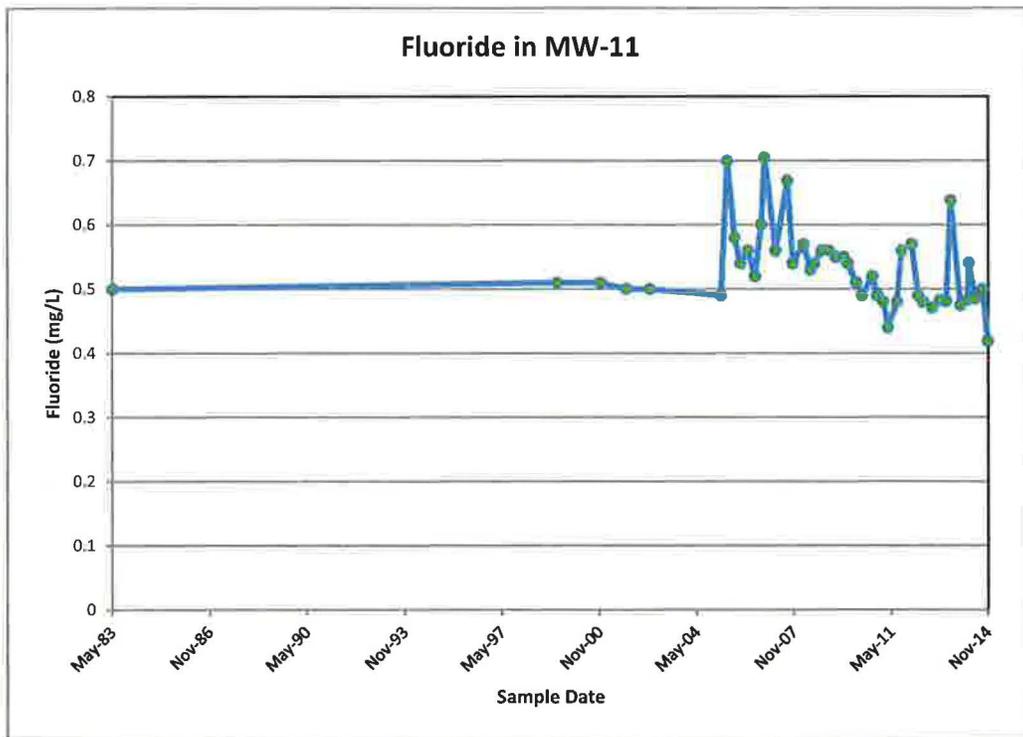
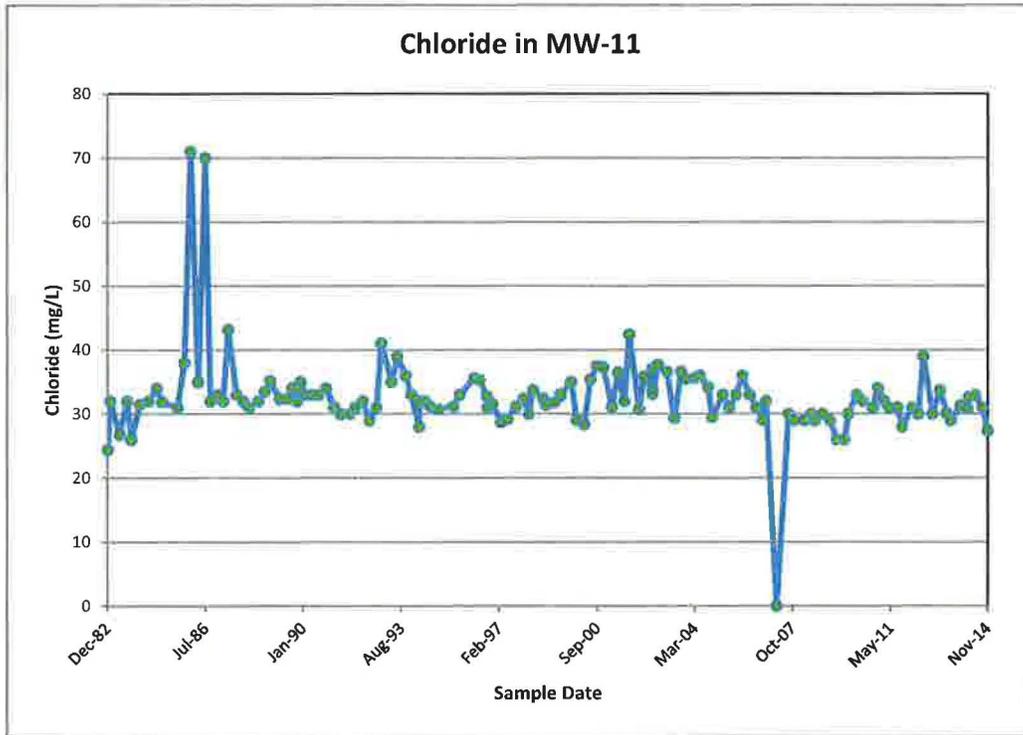
Time concentration plots for MW-05



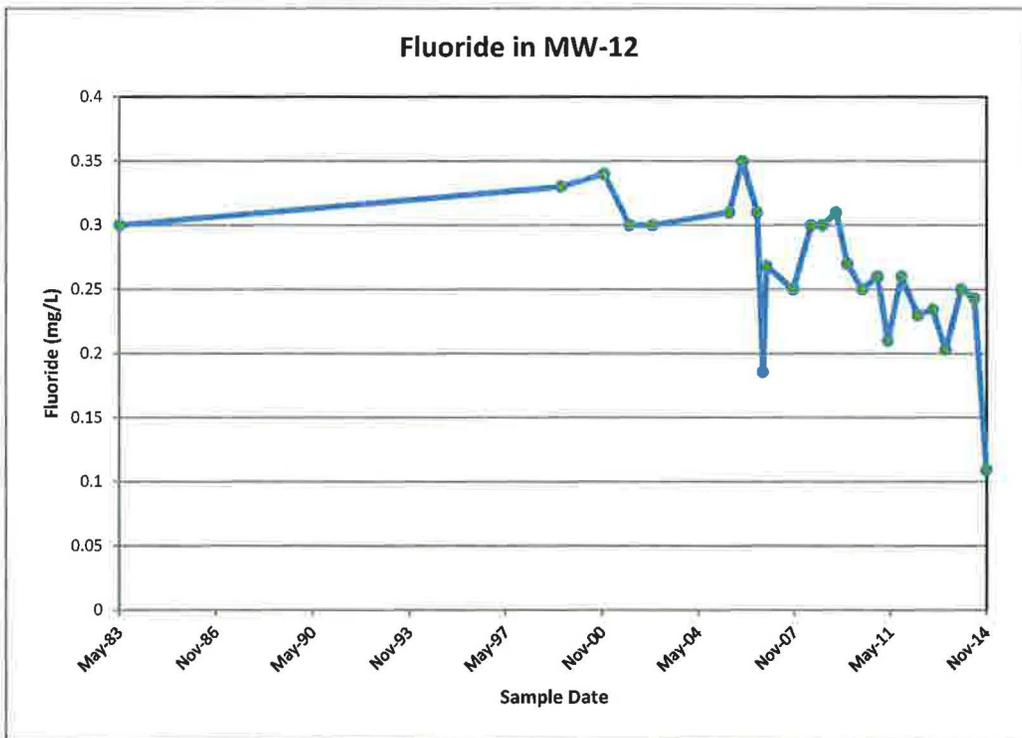
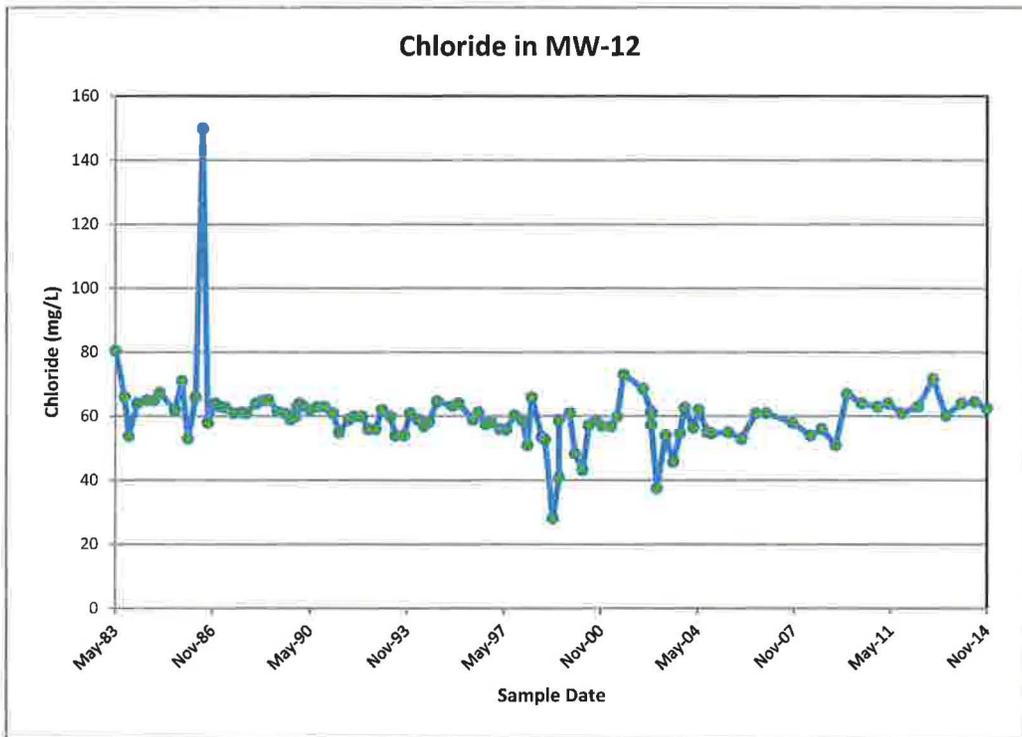
Time concentration plots for MW-05



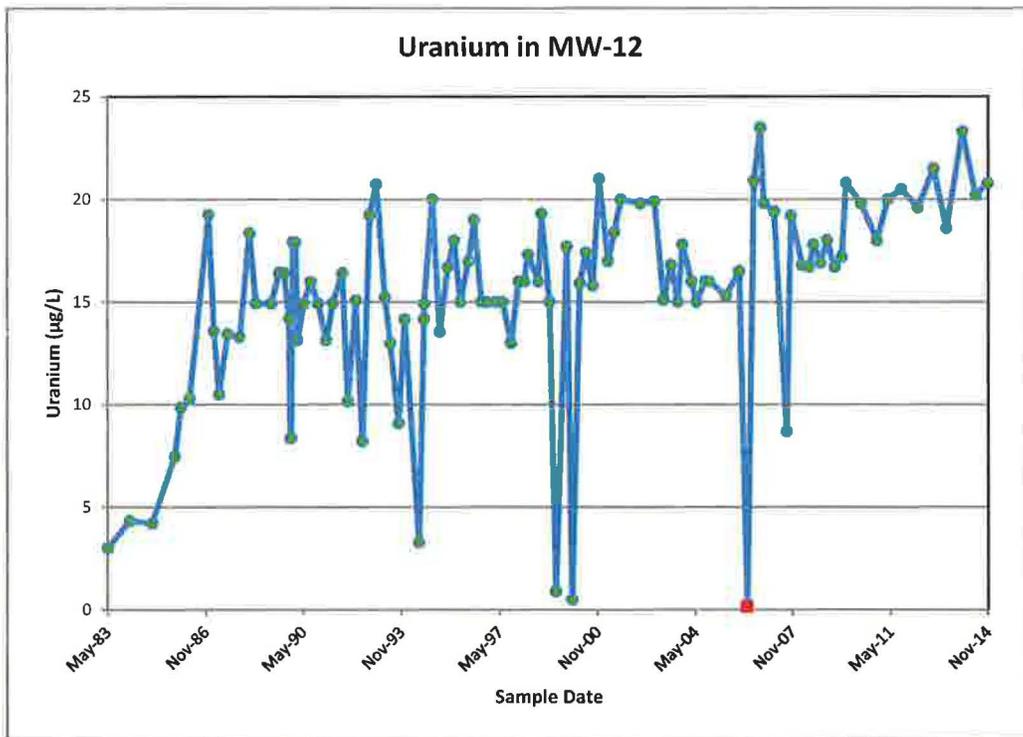
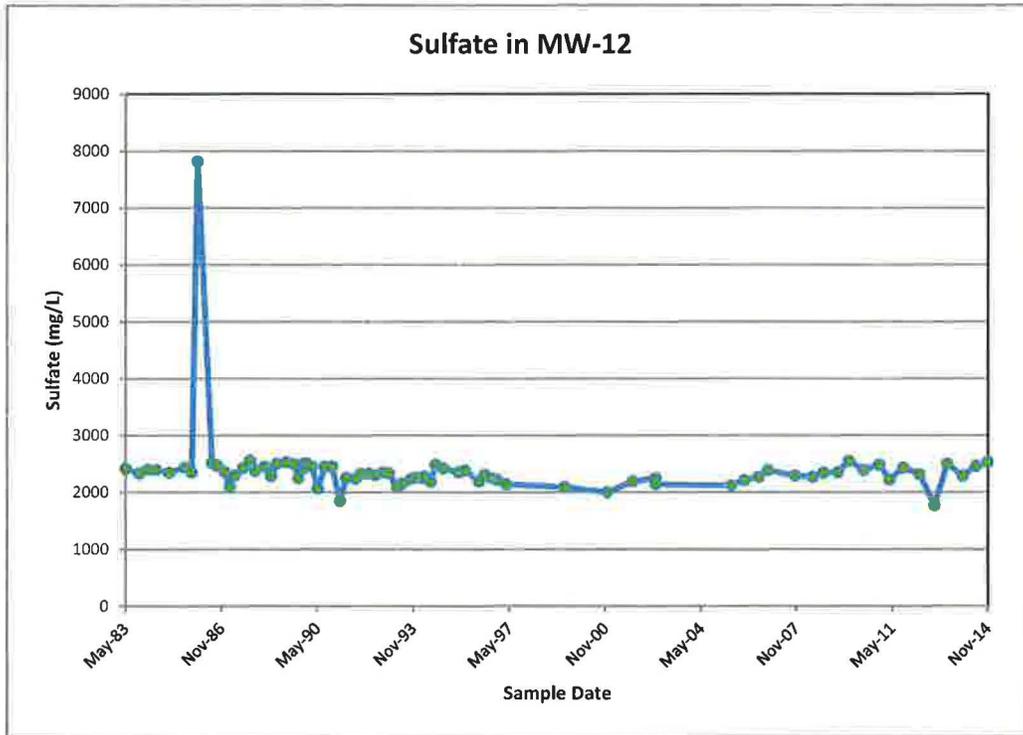
Time concentration plots for MW-11



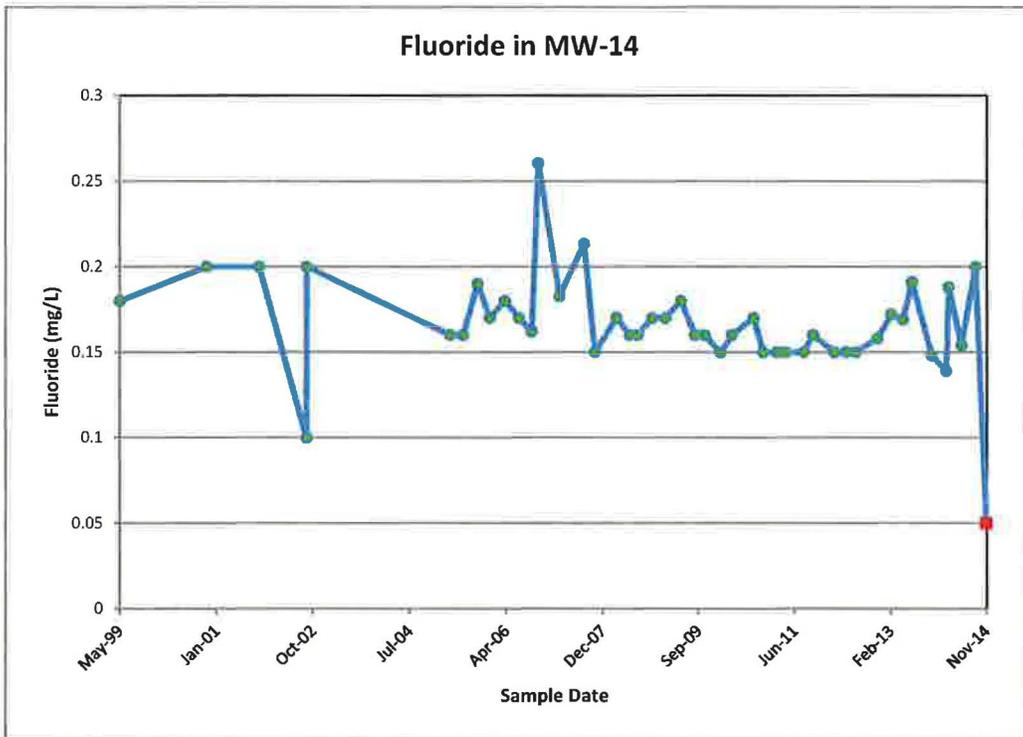
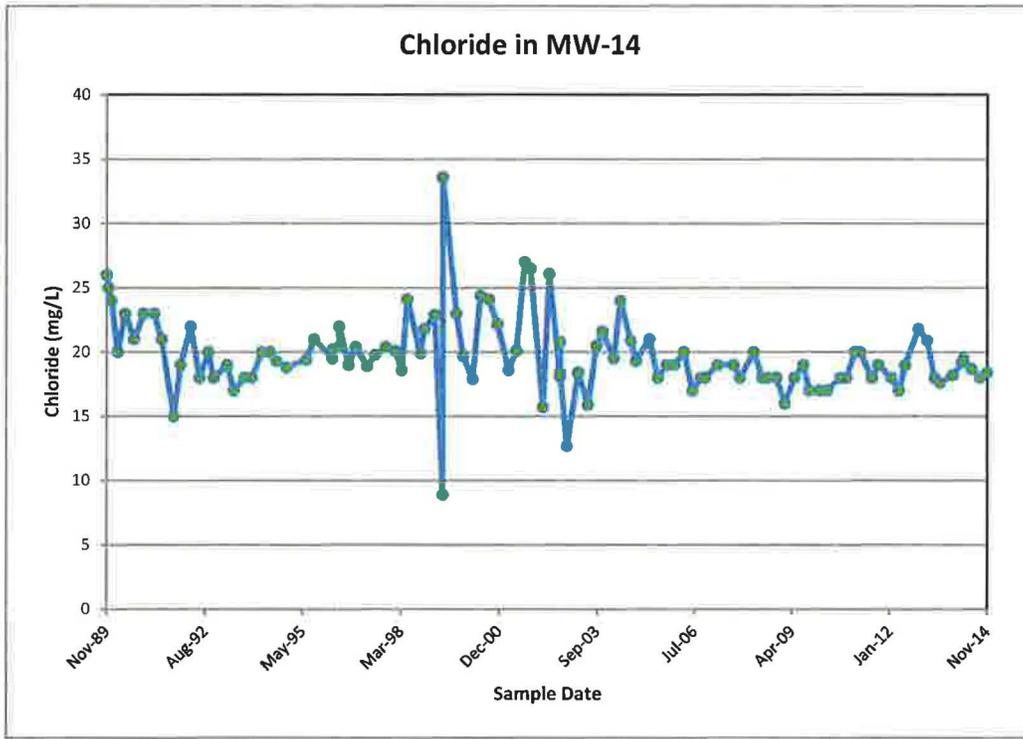
Time concentration plots for MW-12



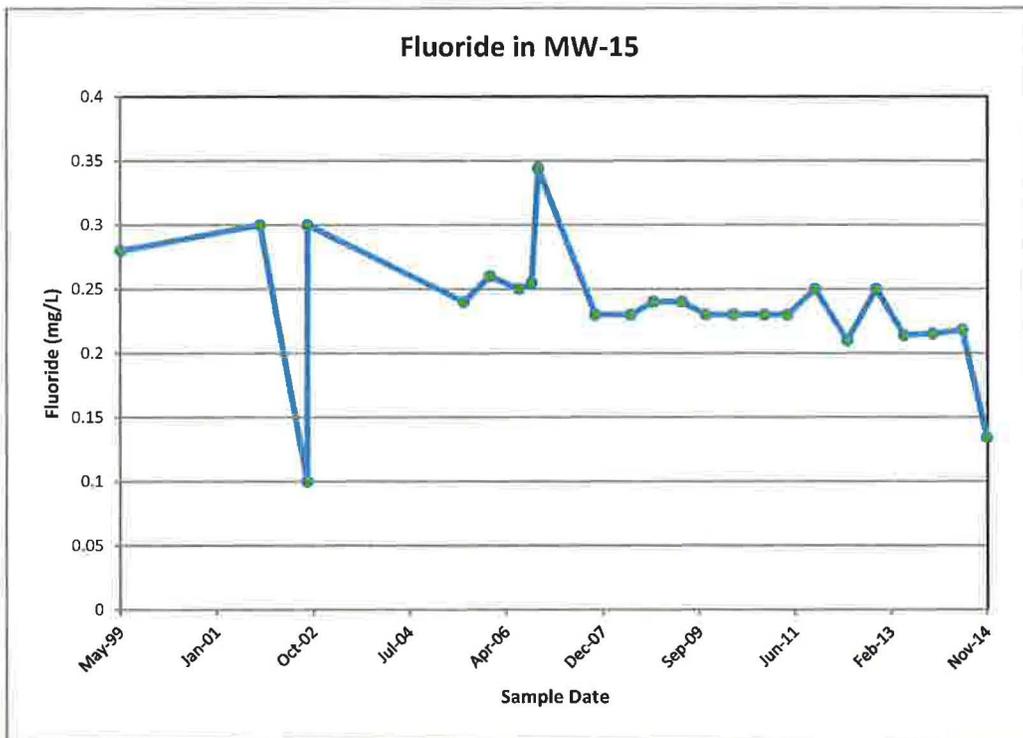
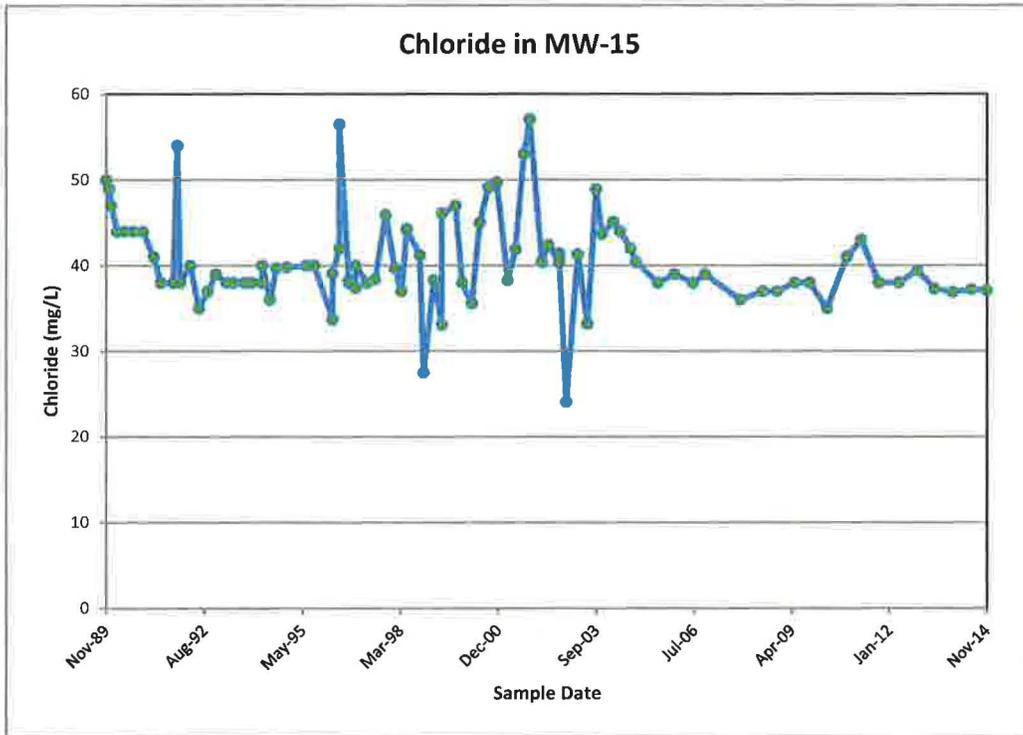
Time concentration plots for MW-12



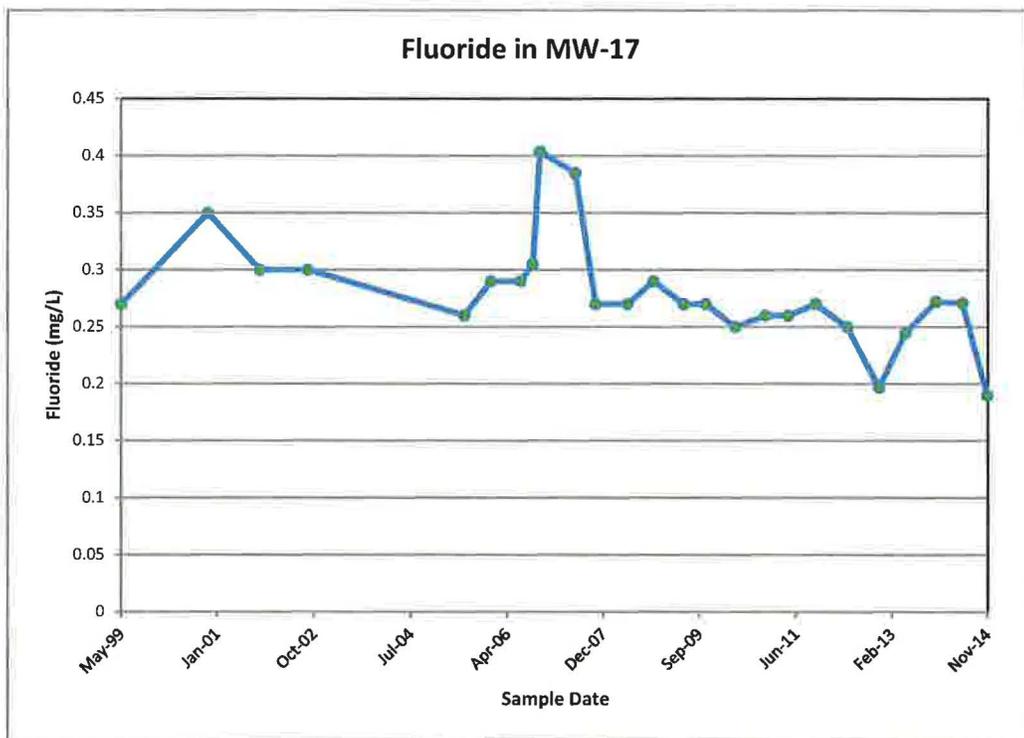
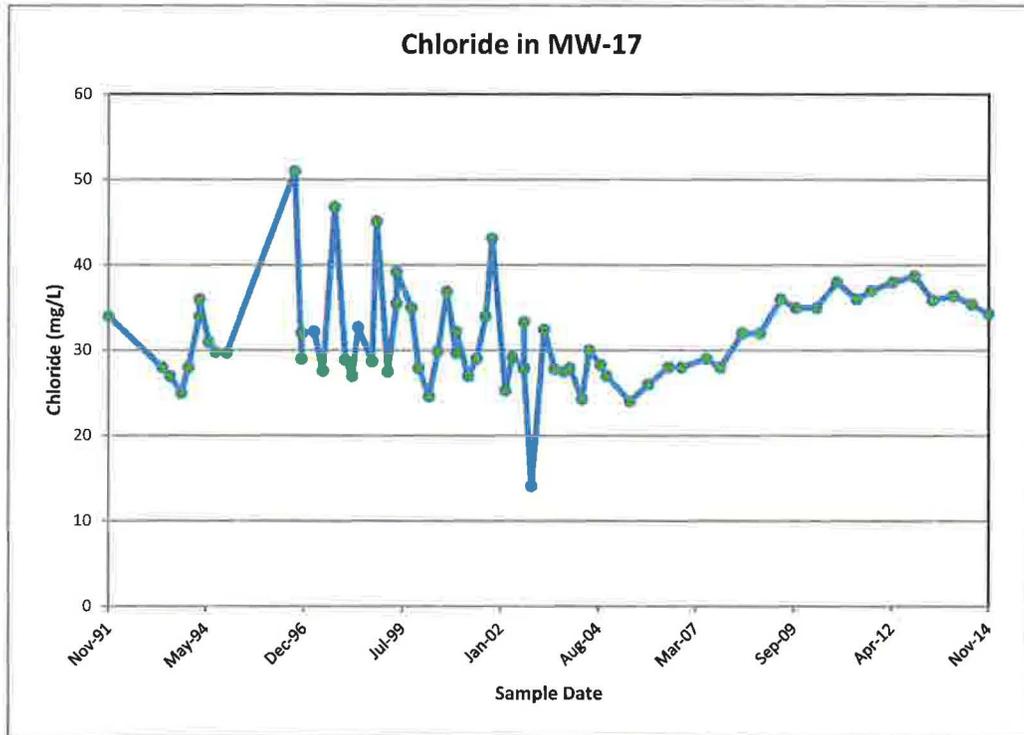
Time concentration plots for MW-14



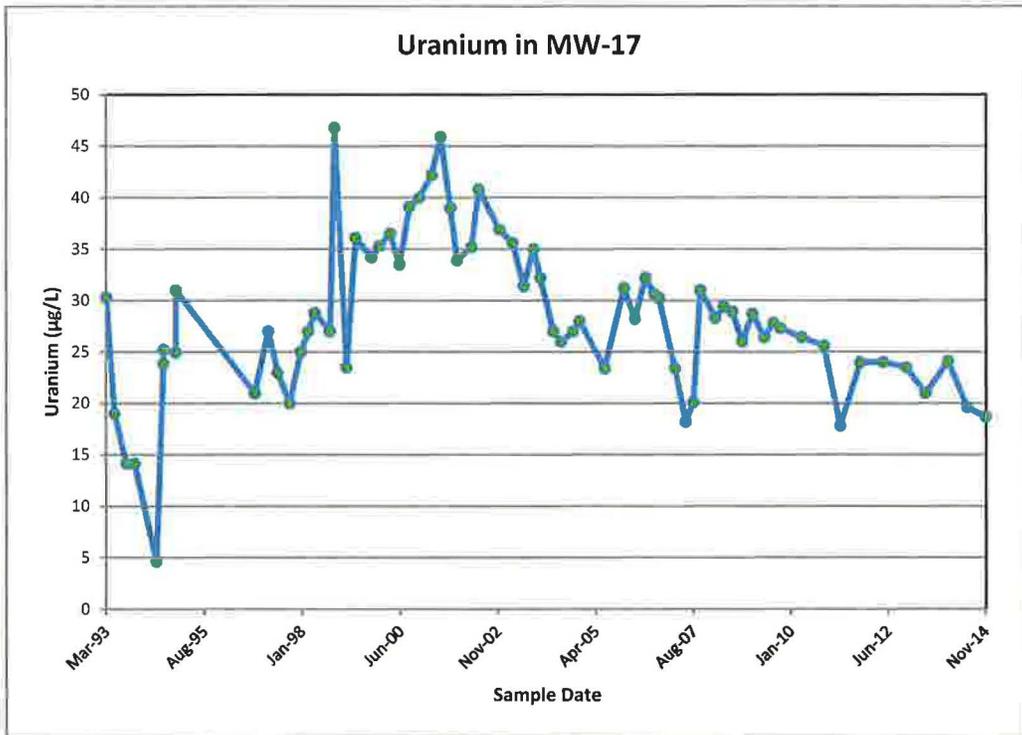
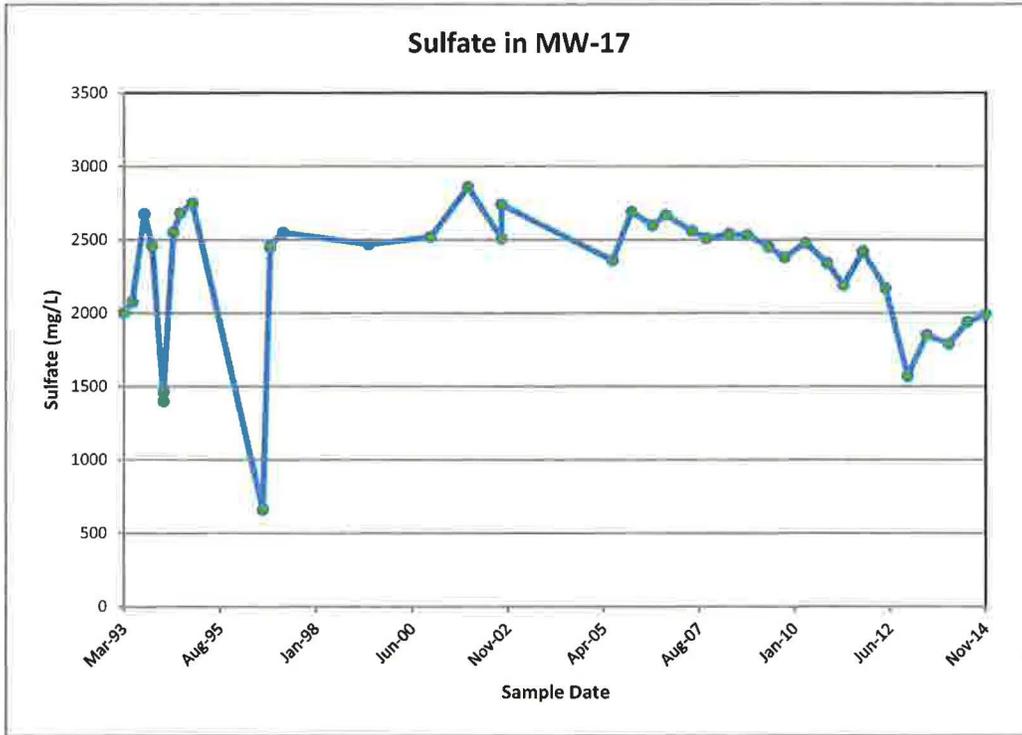
Time concentration plots for MW-15



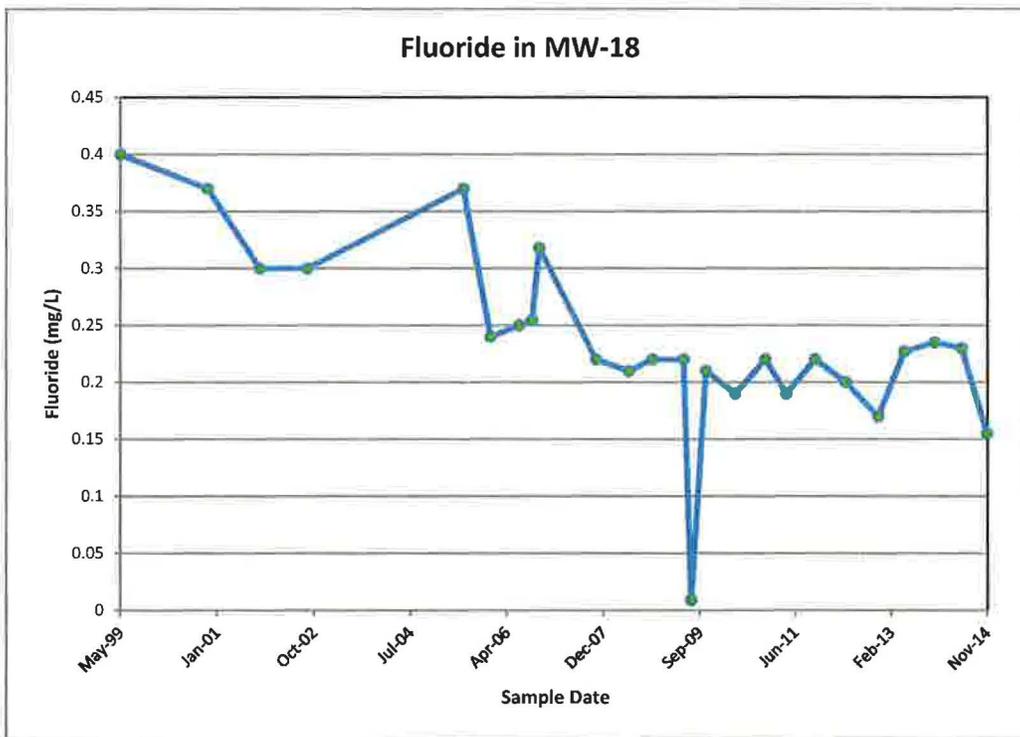
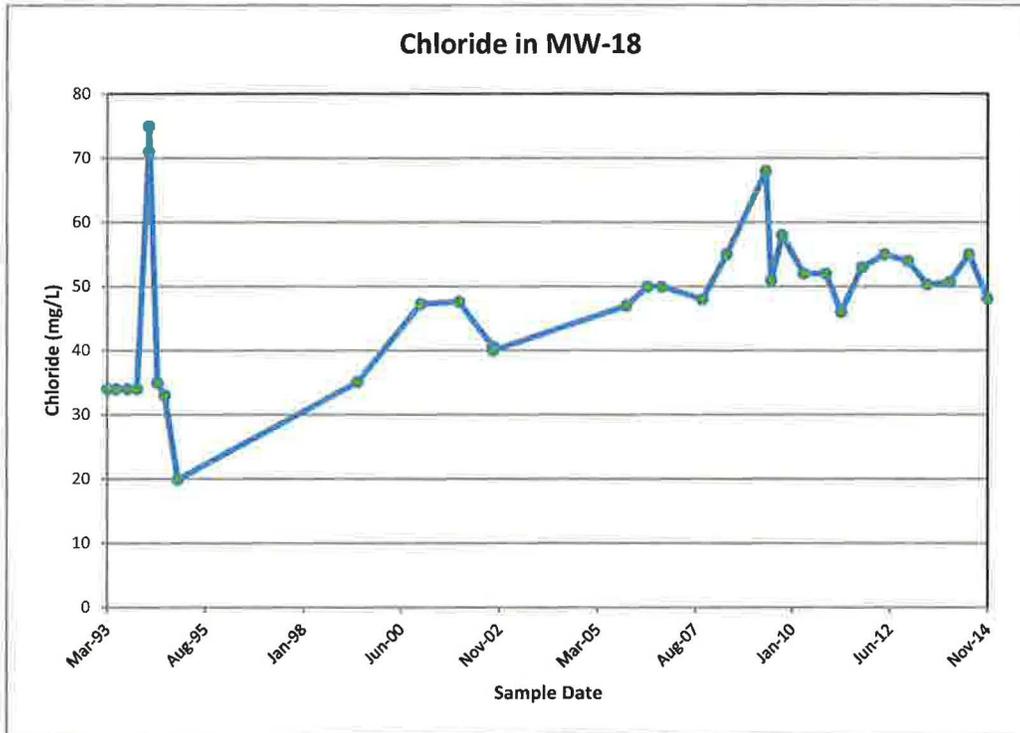
Time concentration plots for MW-17



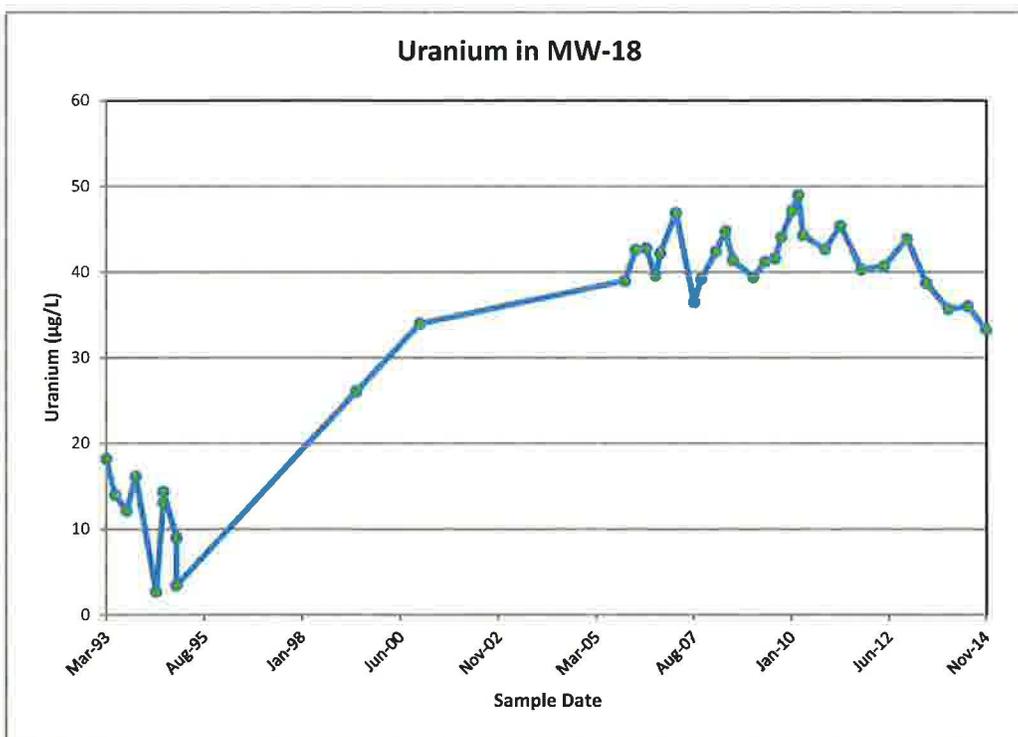
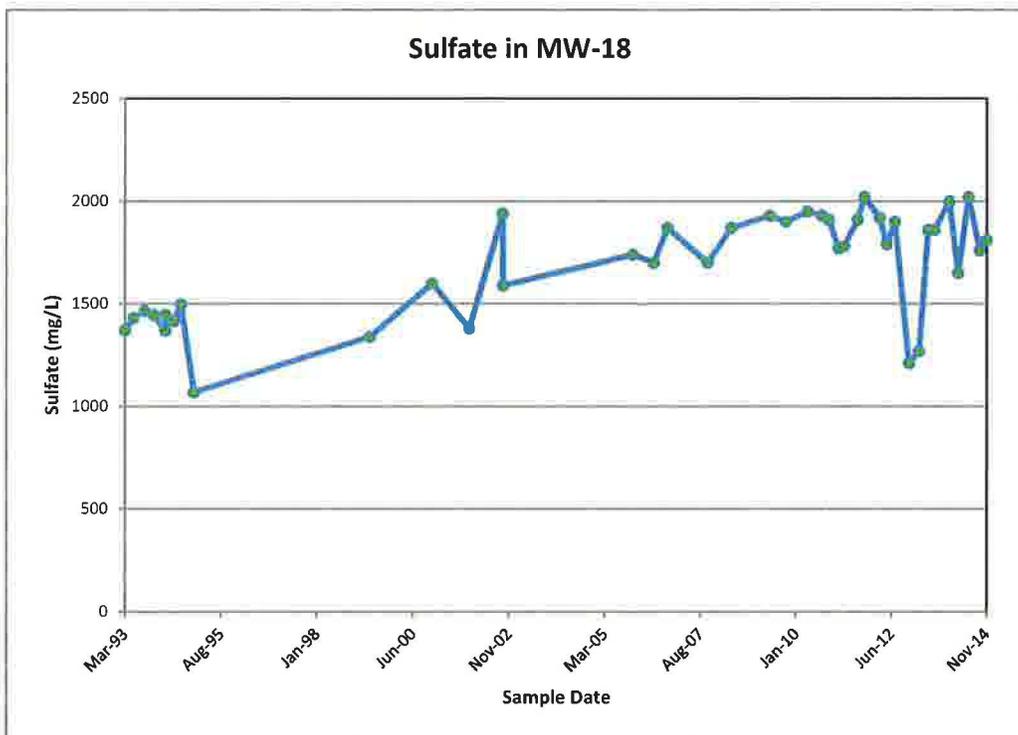
Time concentration plots for MW-17



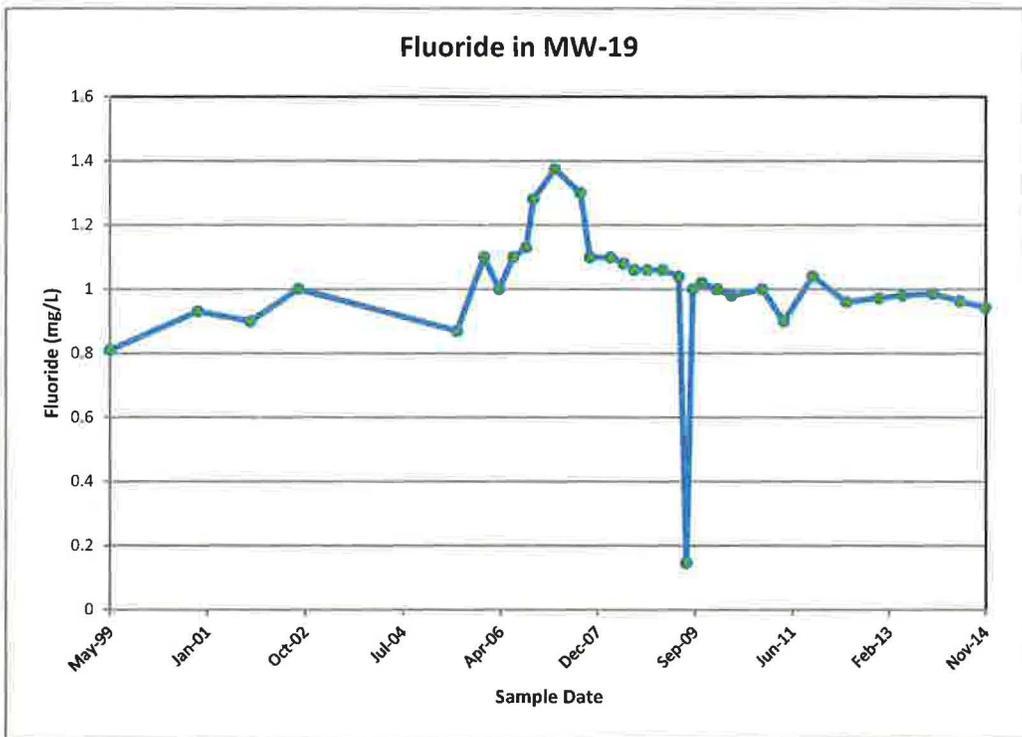
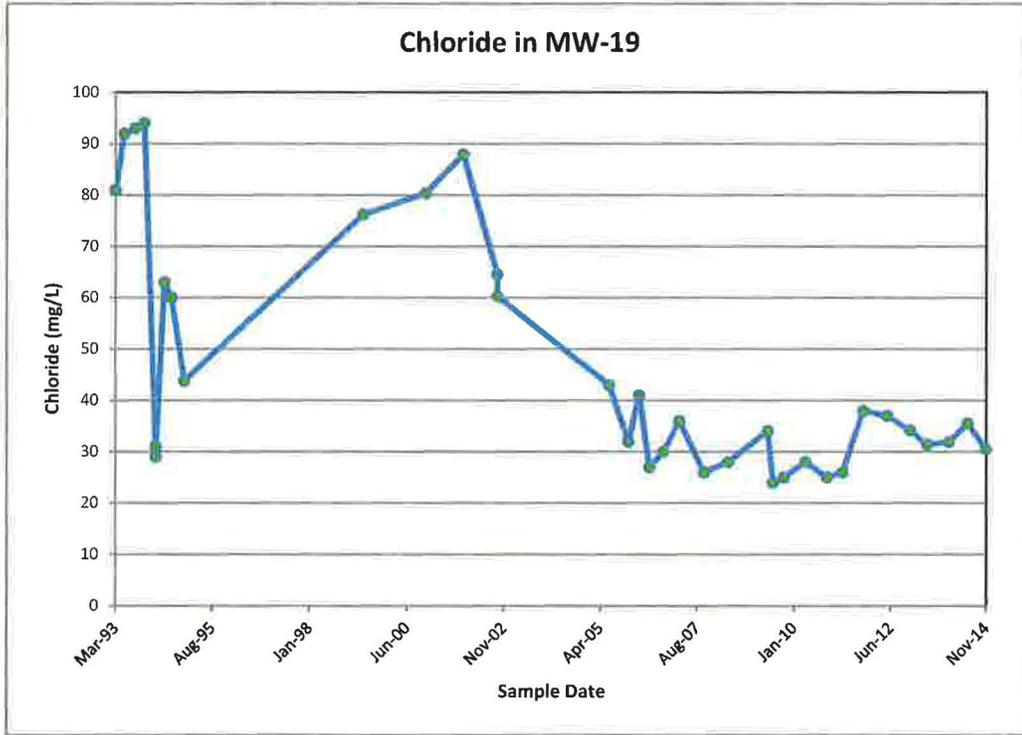
Time concentration plots for MW-18



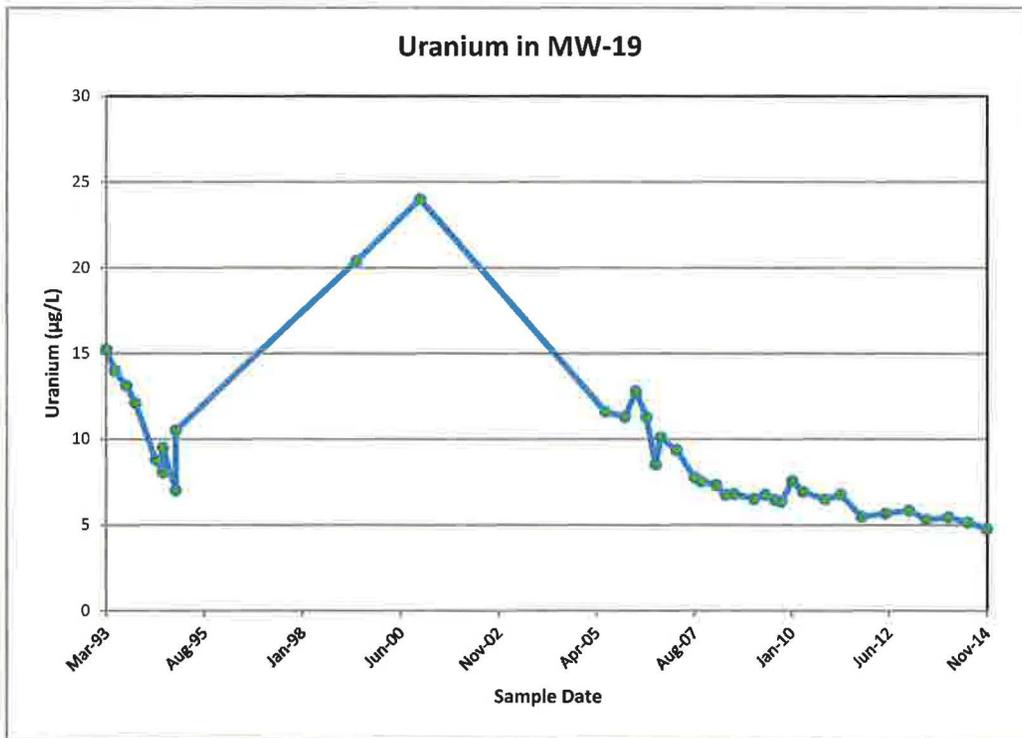
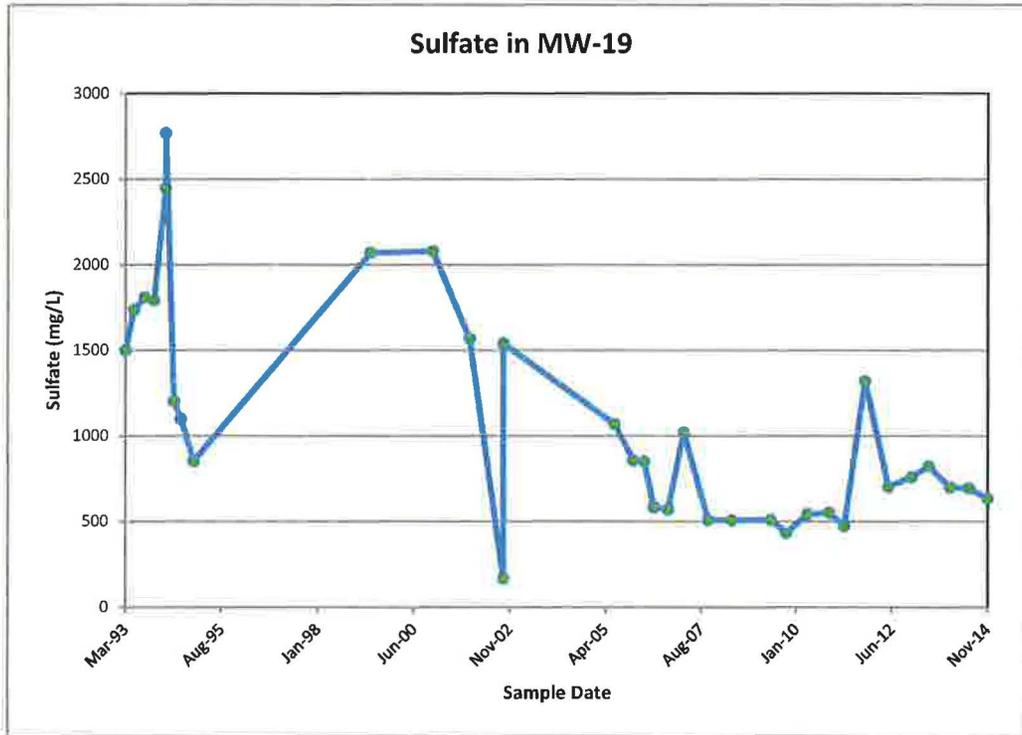
Time concentration plots for MW-18



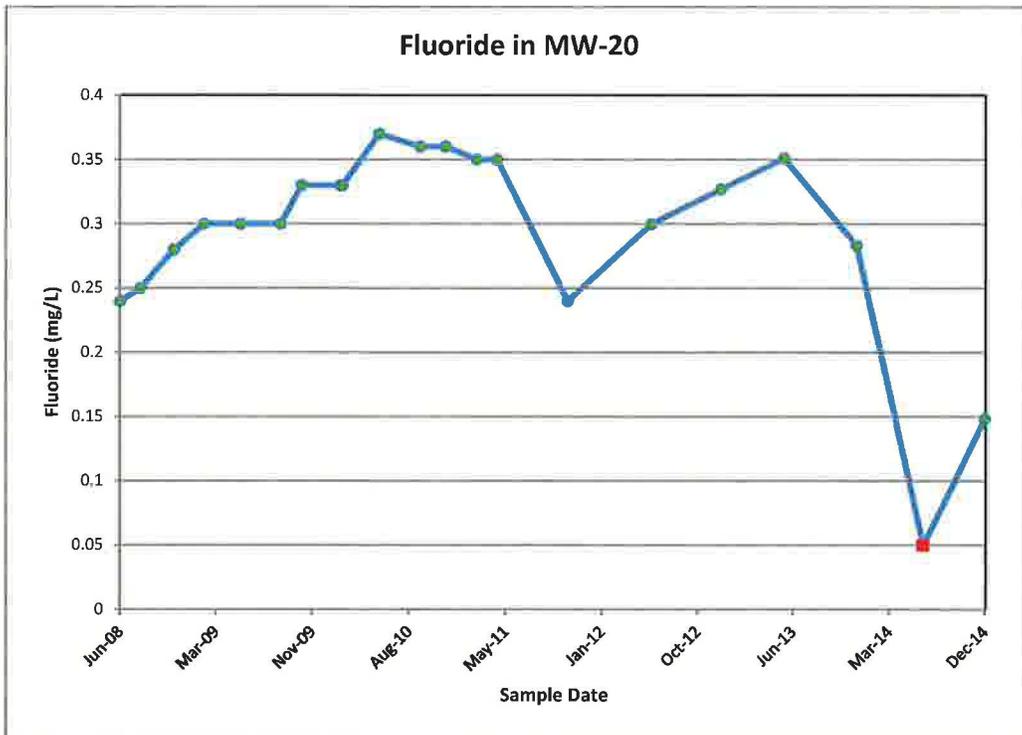
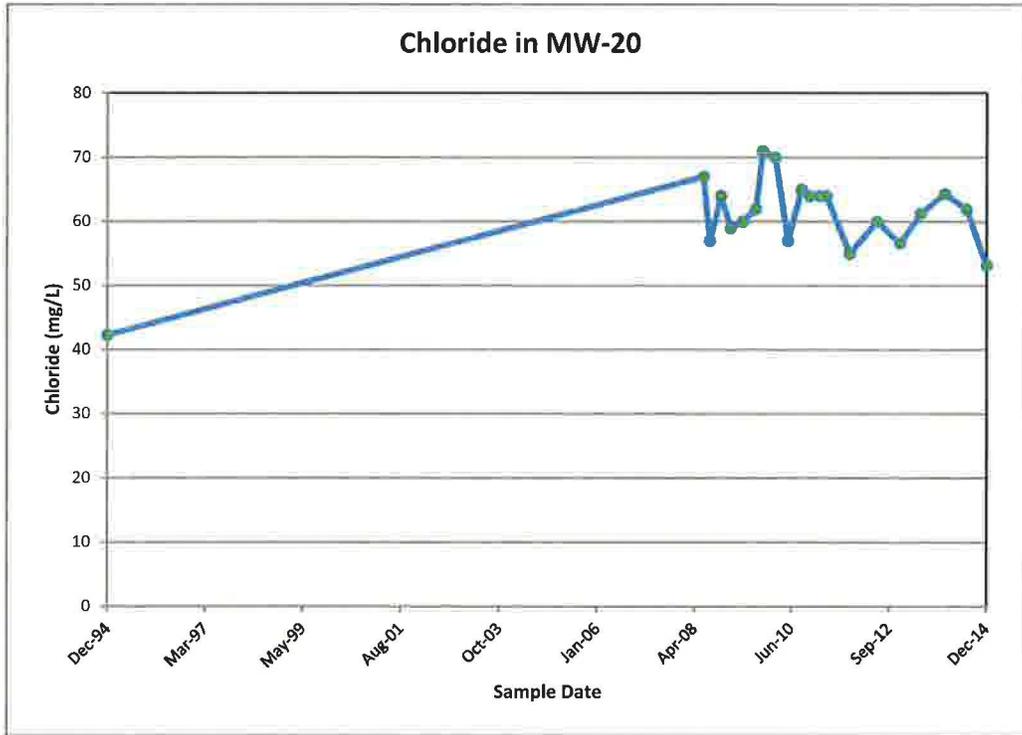
Time concentration plots for MW-19



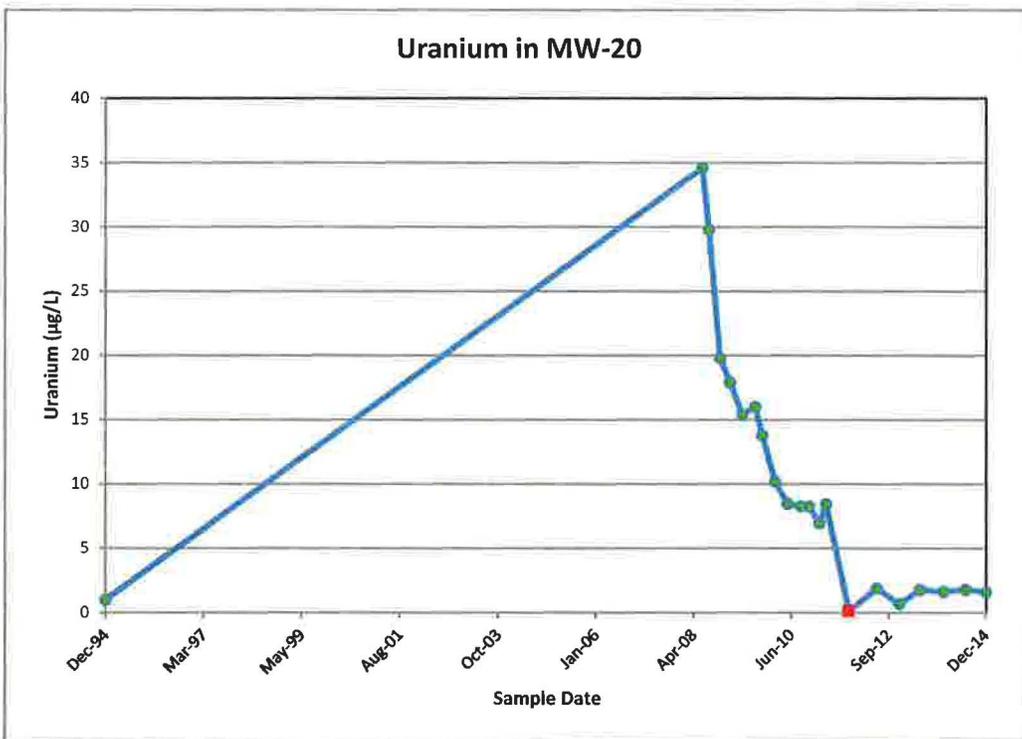
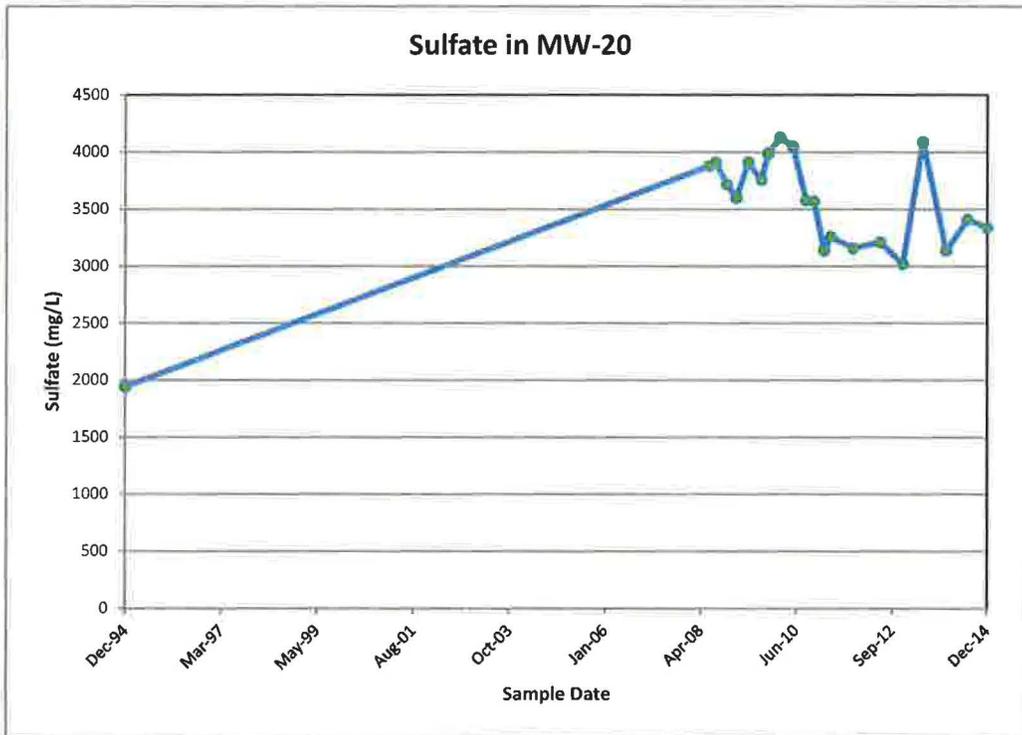
Time concentration plots for MW-19



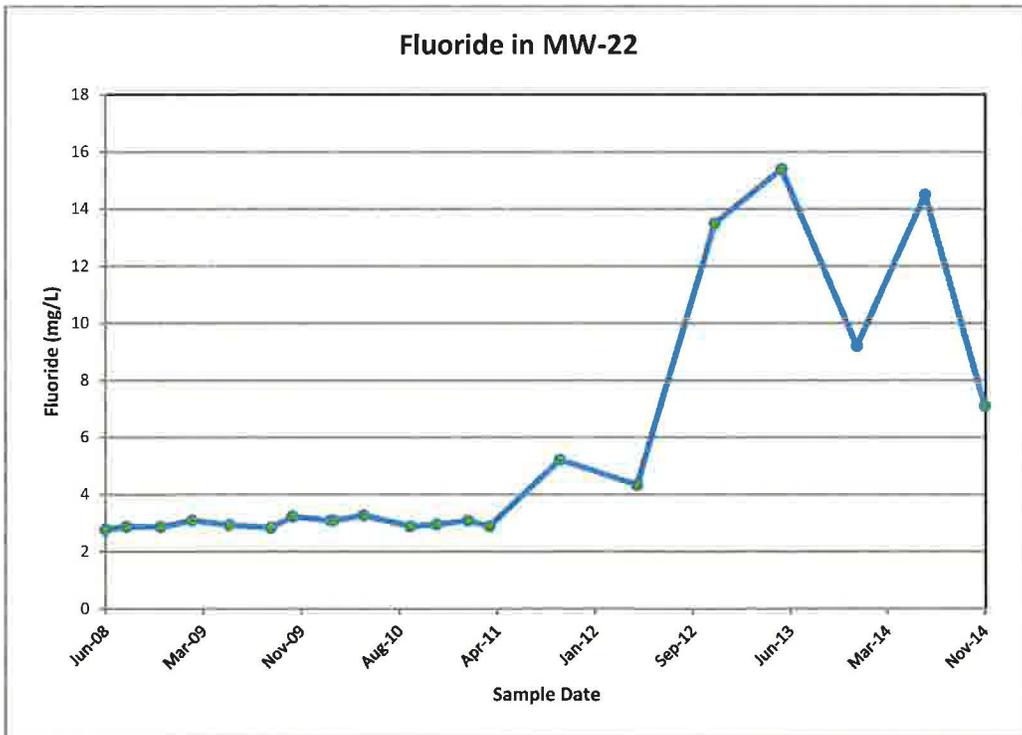
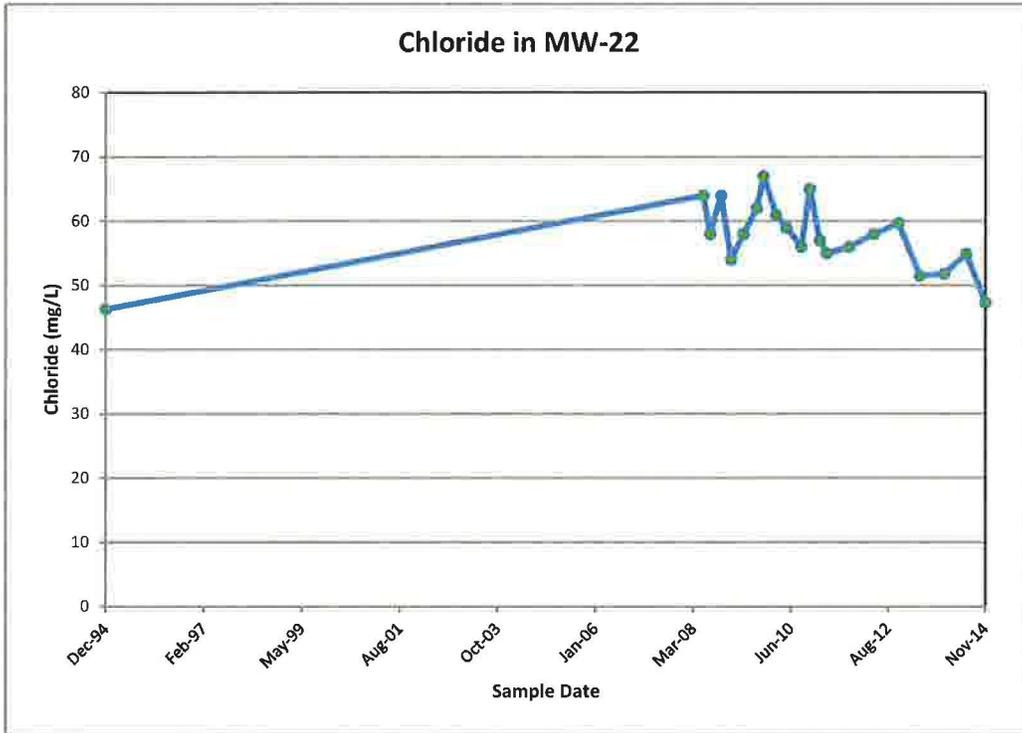
Time concentration plots for MW-20



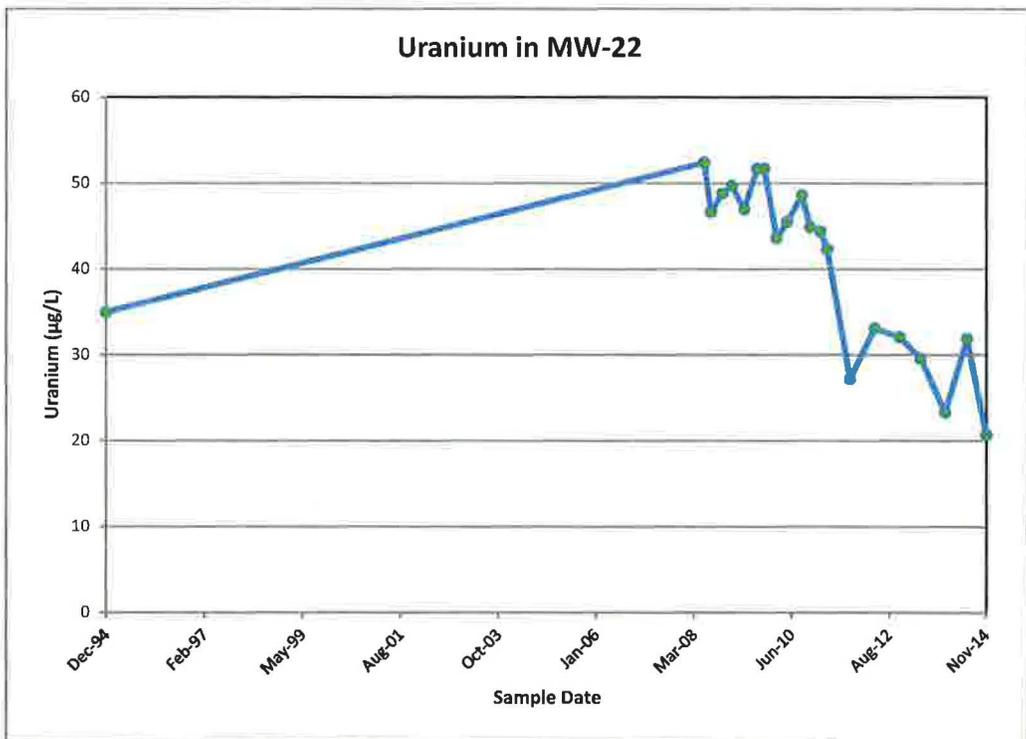
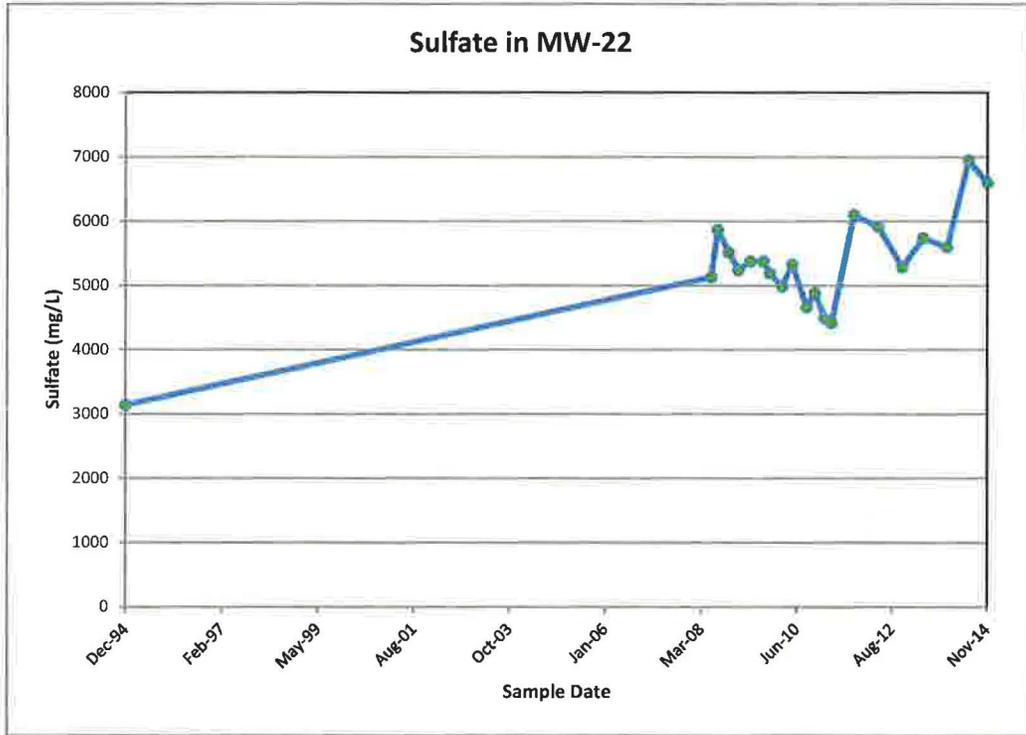
Time concentration plots for MW-20



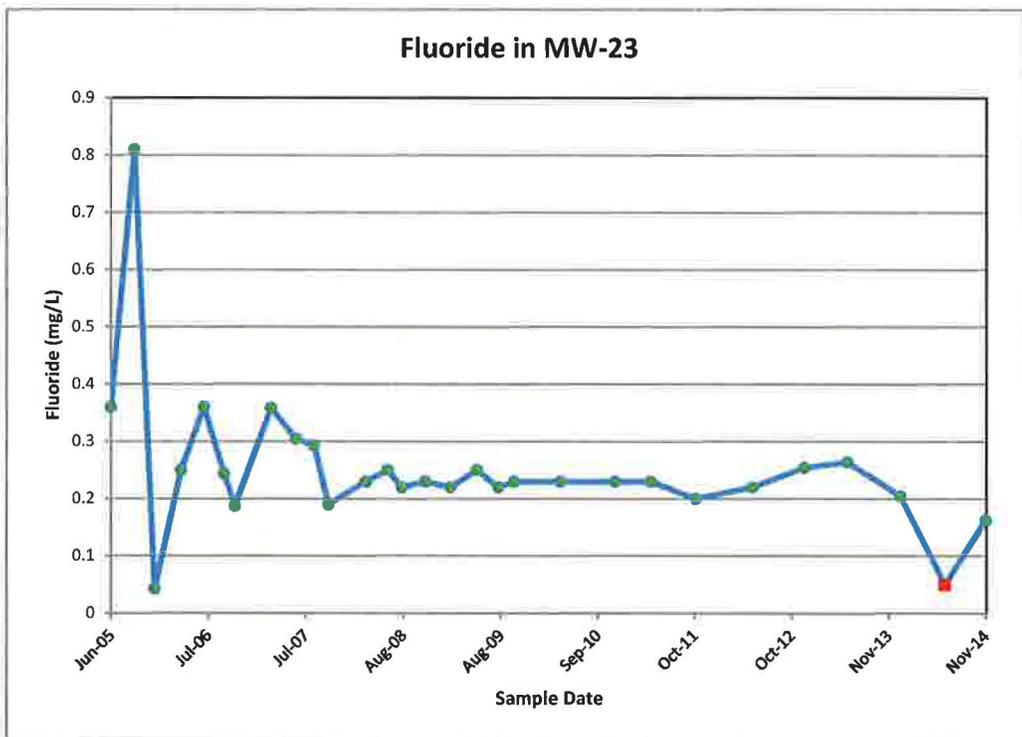
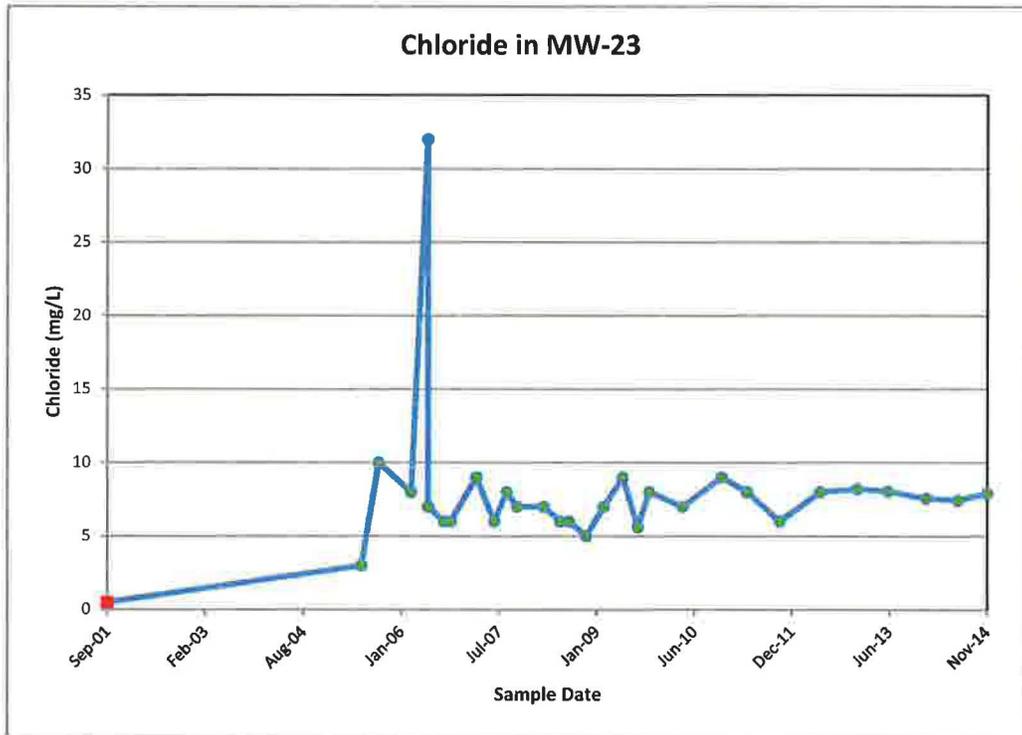
Time concentration plots for MW-22



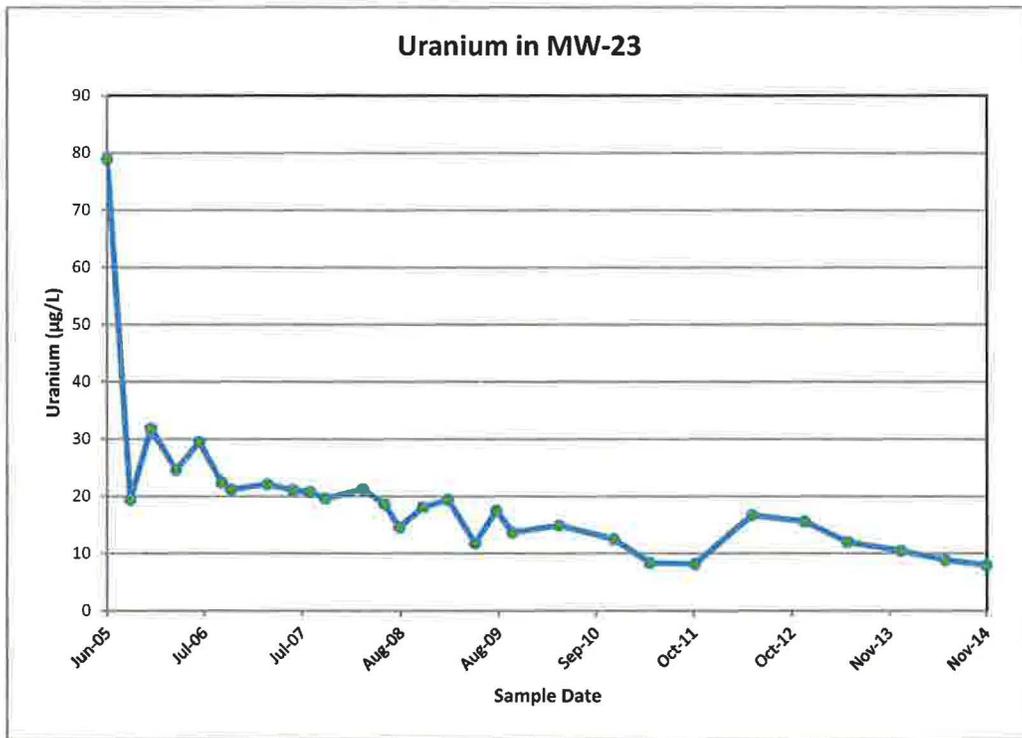
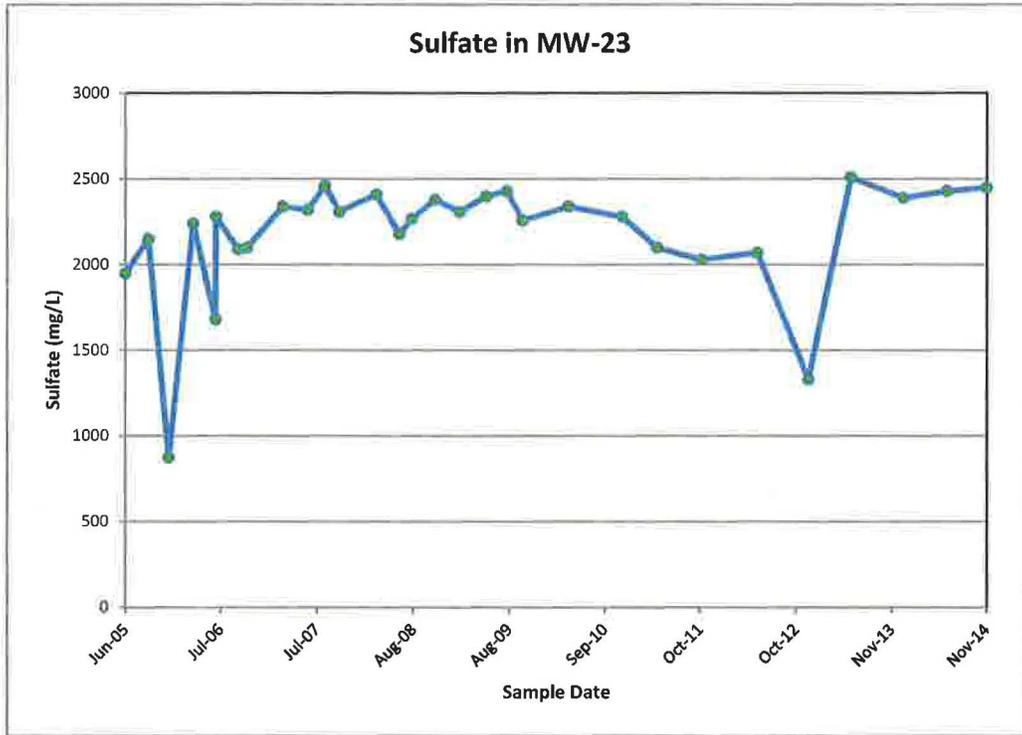
Time concentration plots for MW-22



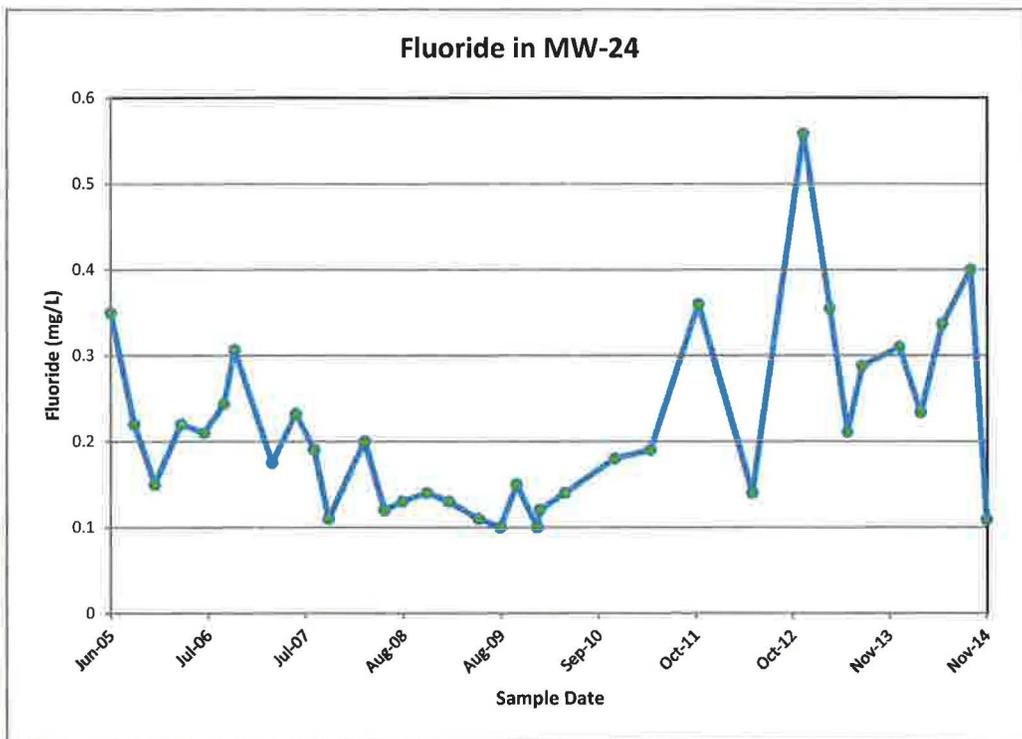
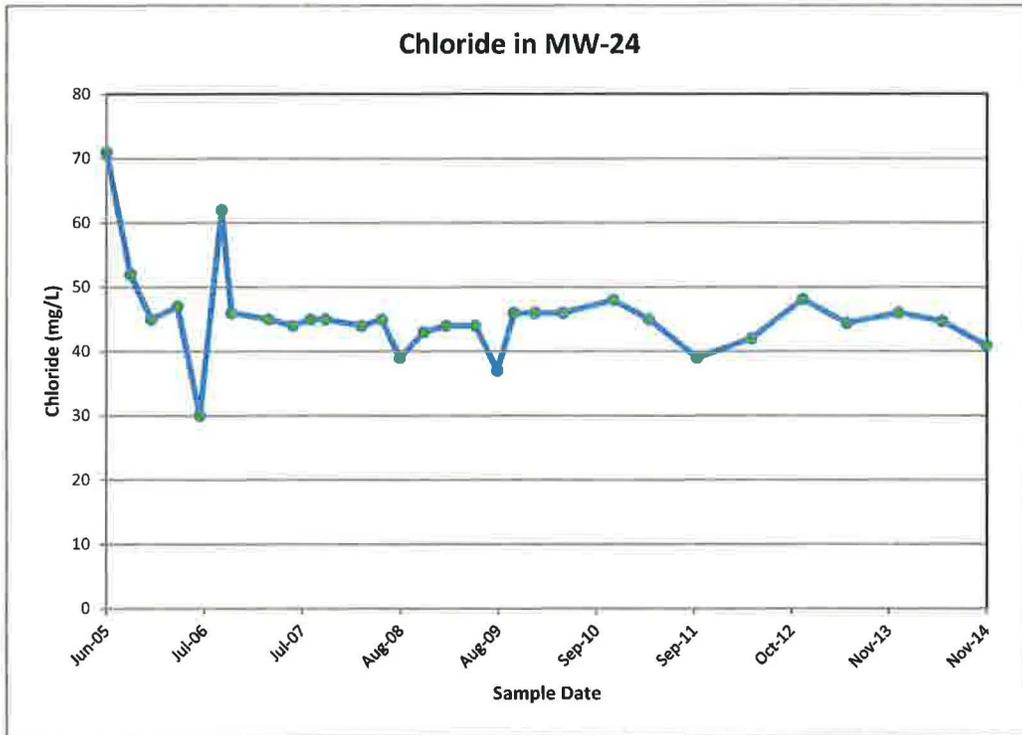
Time concentration plots for MW-23



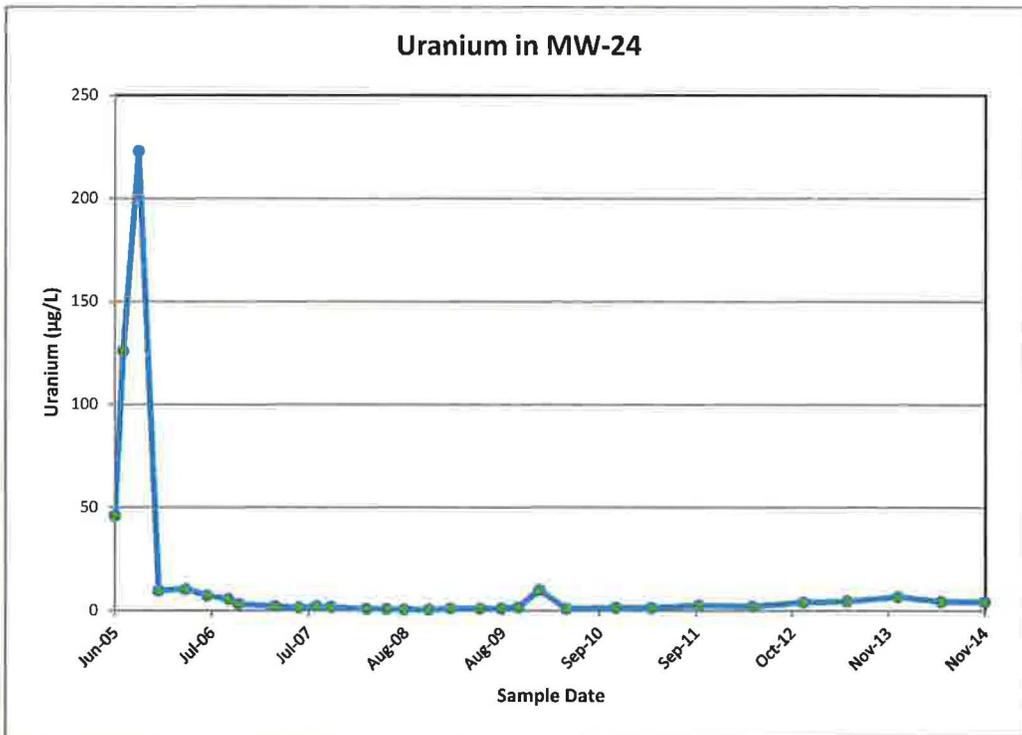
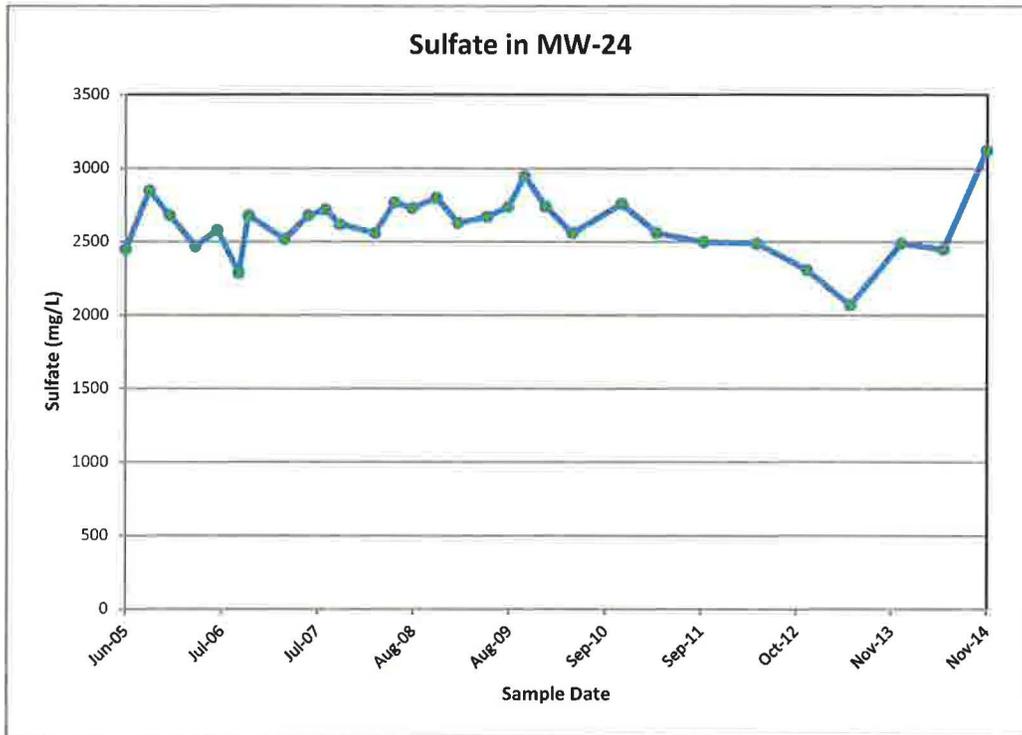
Time concentration plots for MW-23



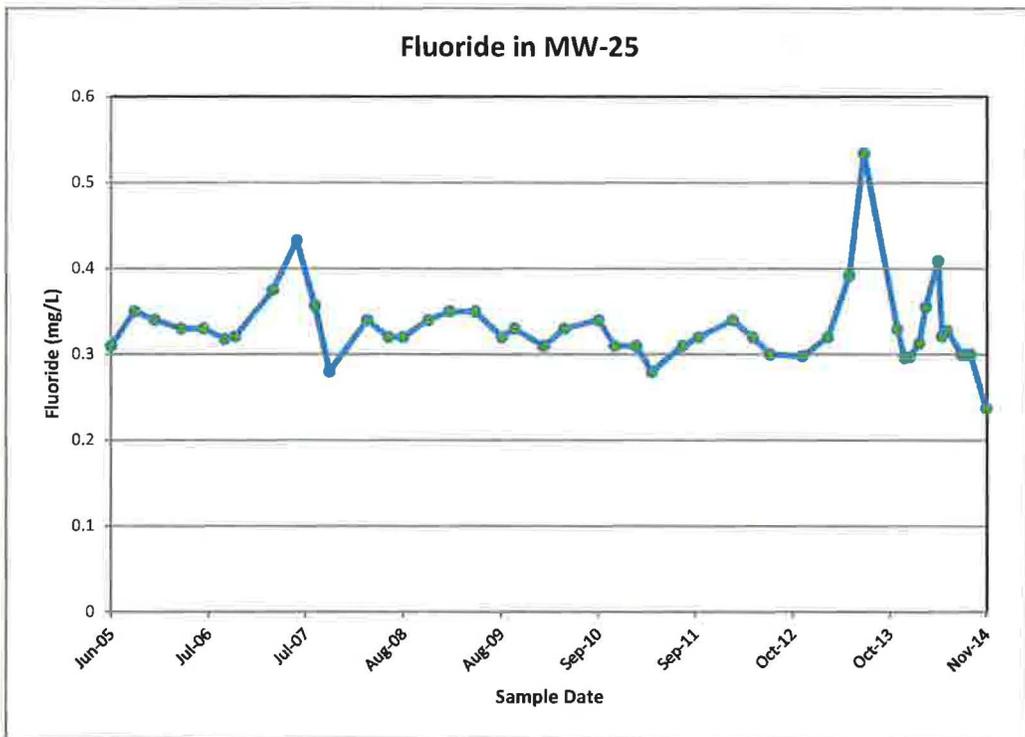
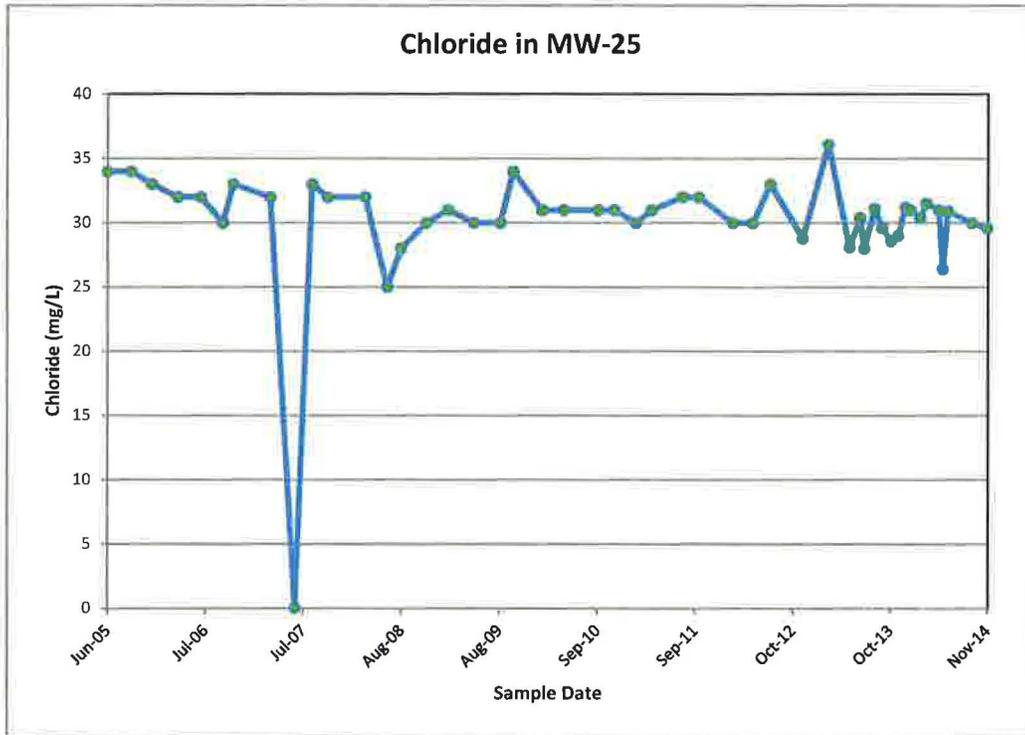
Time concentration plots for MW-24



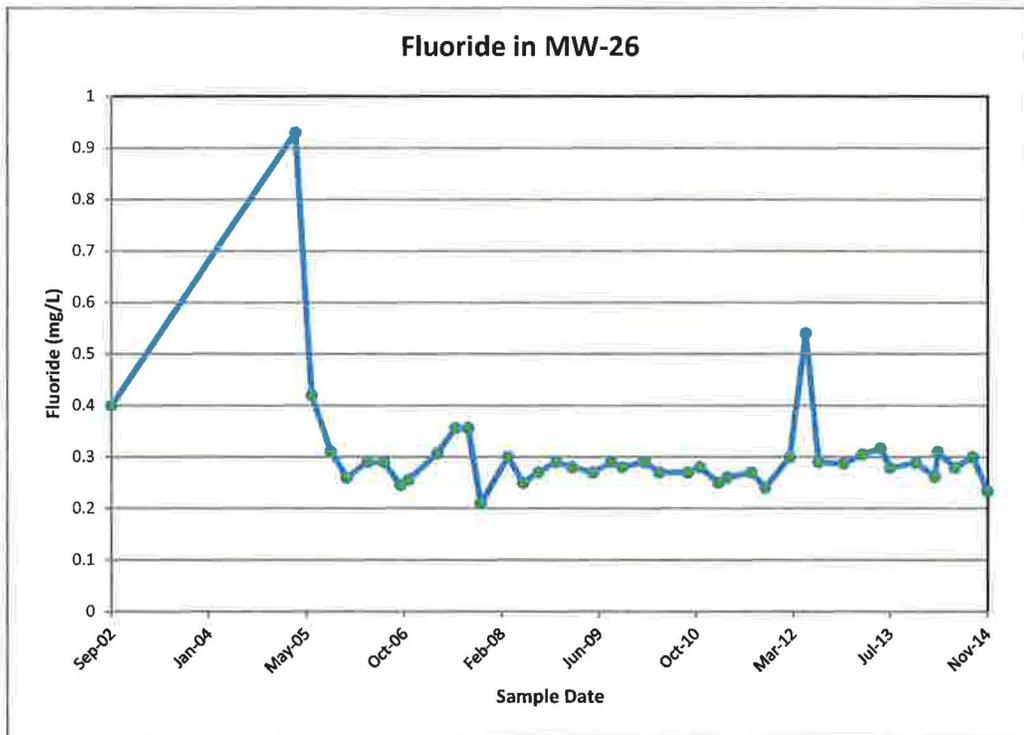
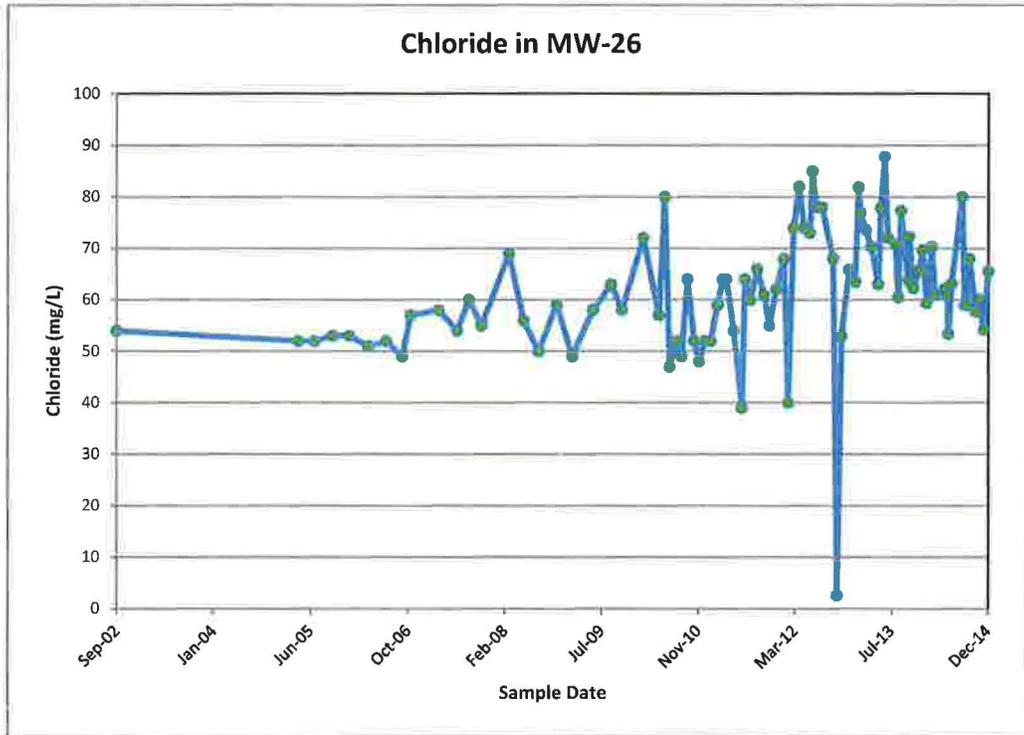
Time concentration plots for MW-24



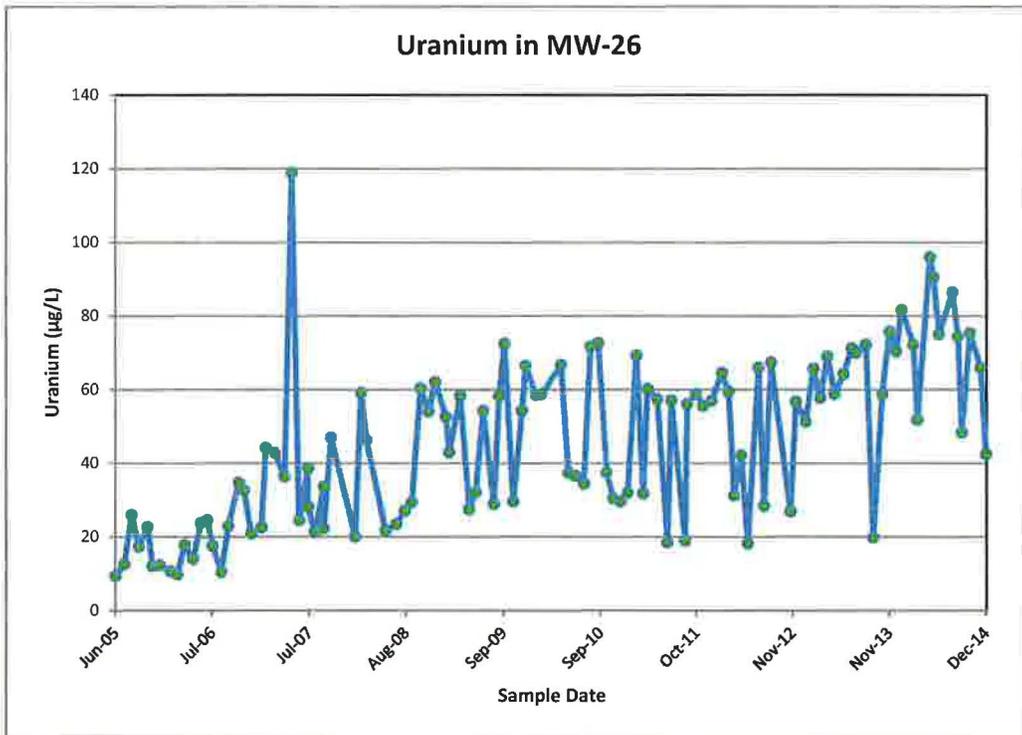
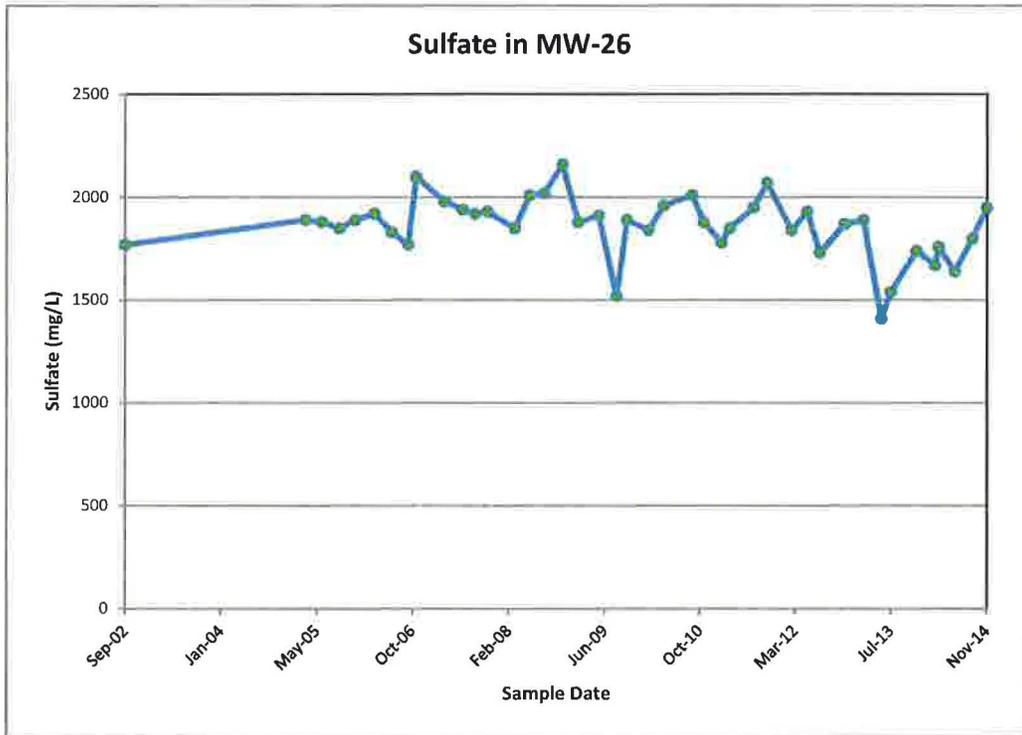
Time concentration plots for MW-25



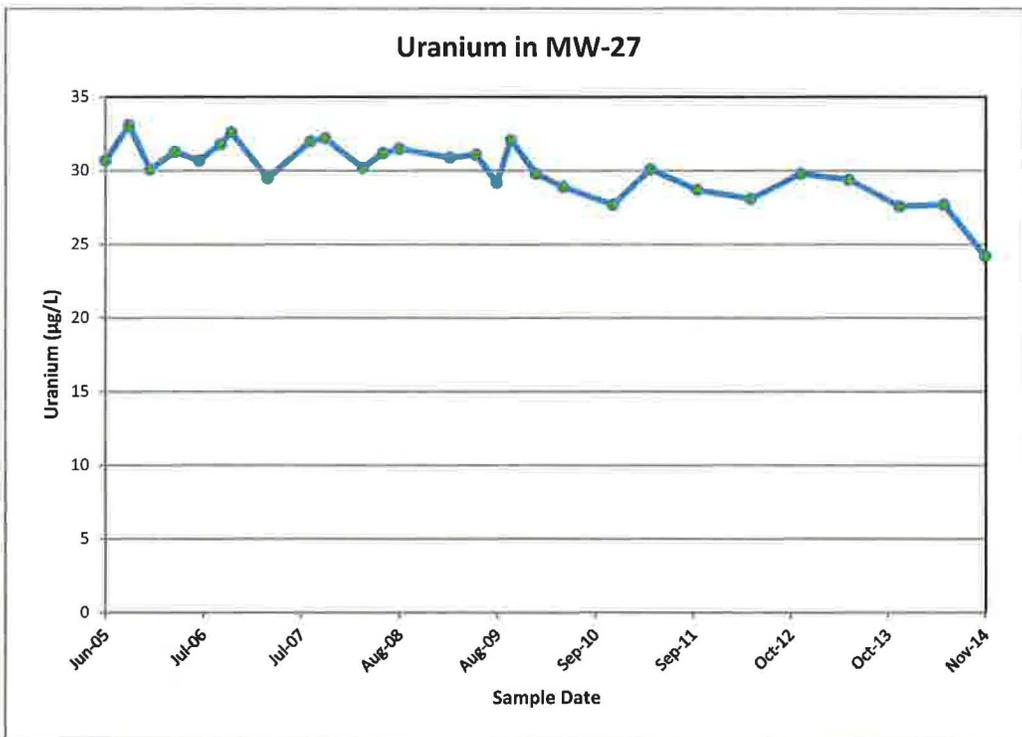
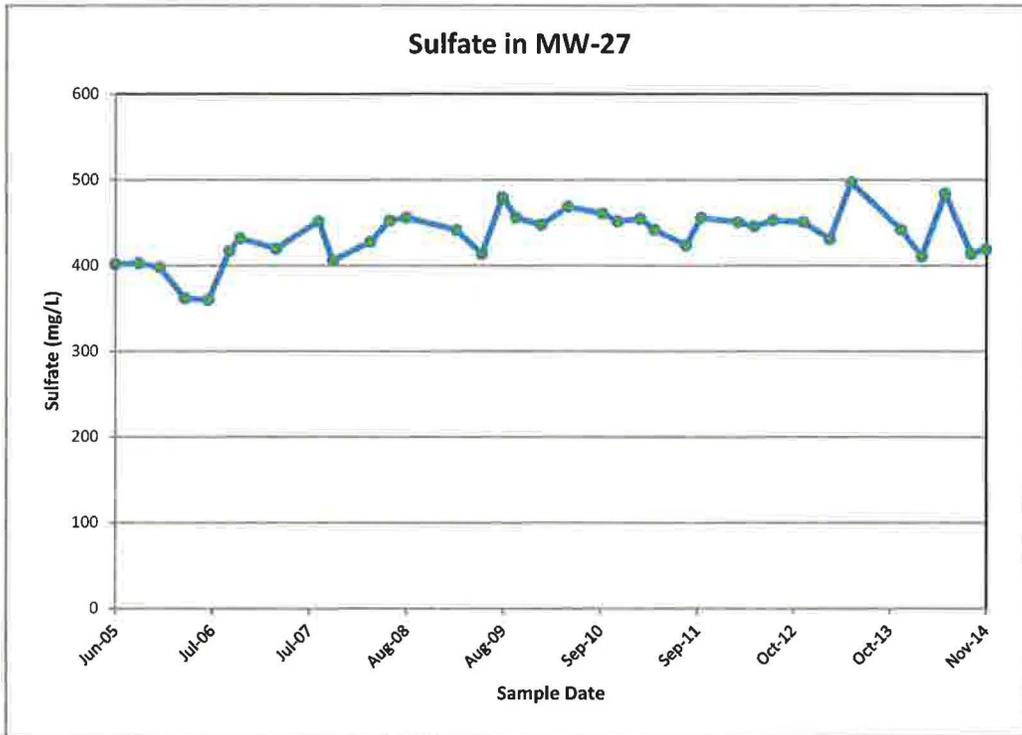
Time concentration plots for MW-26



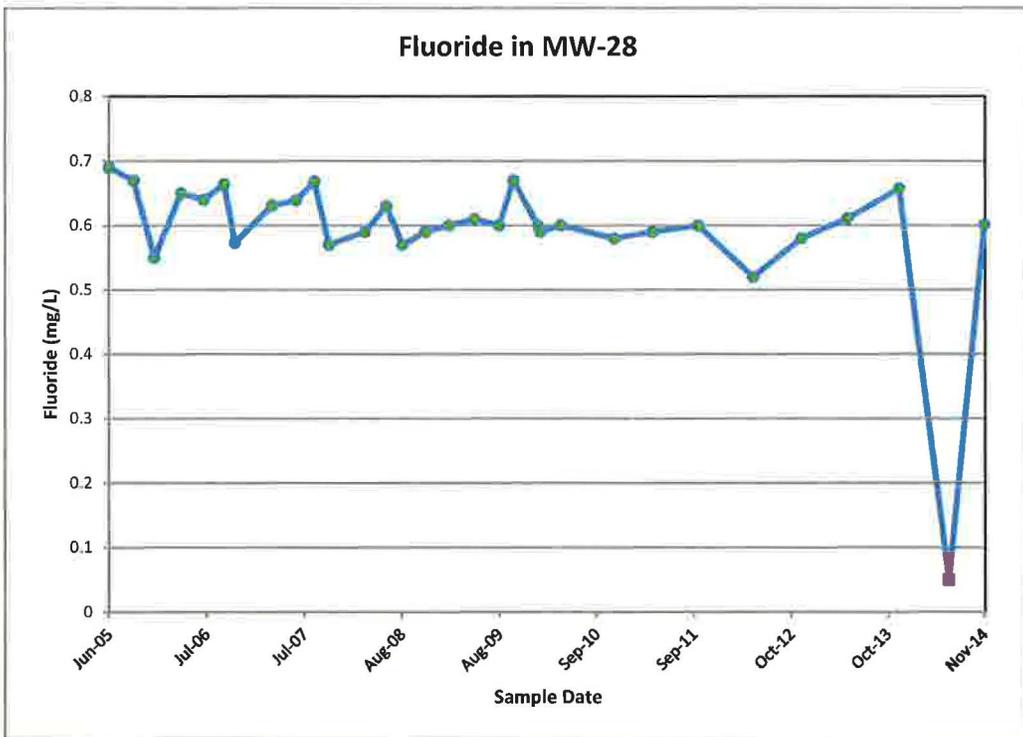
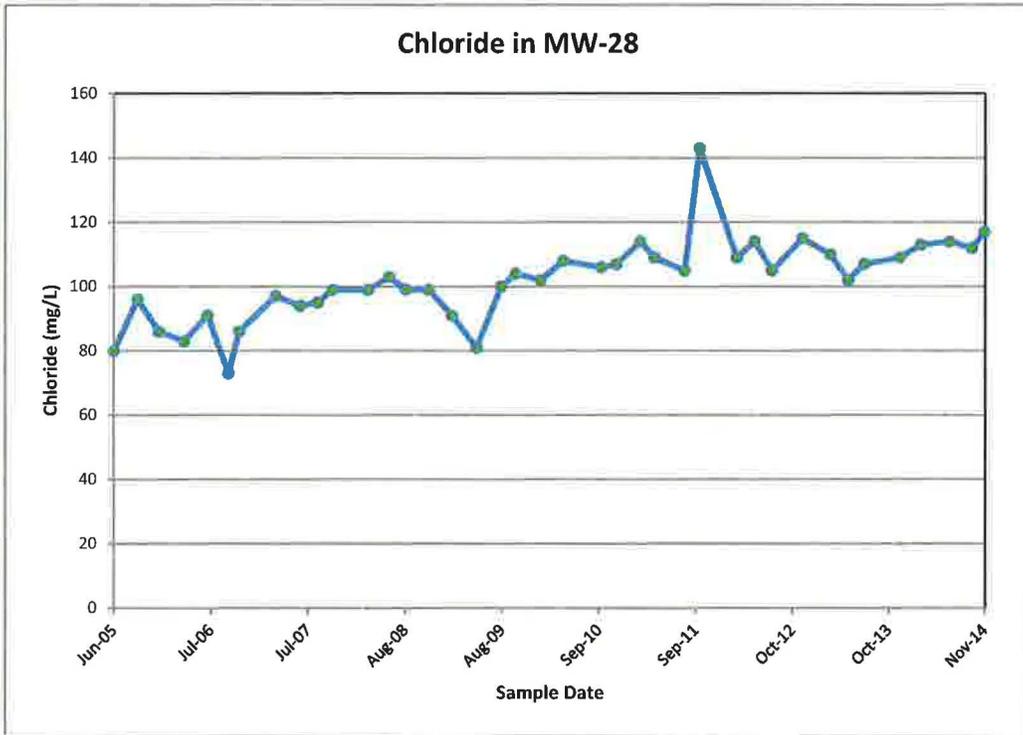
Time concentration plots for MW-26



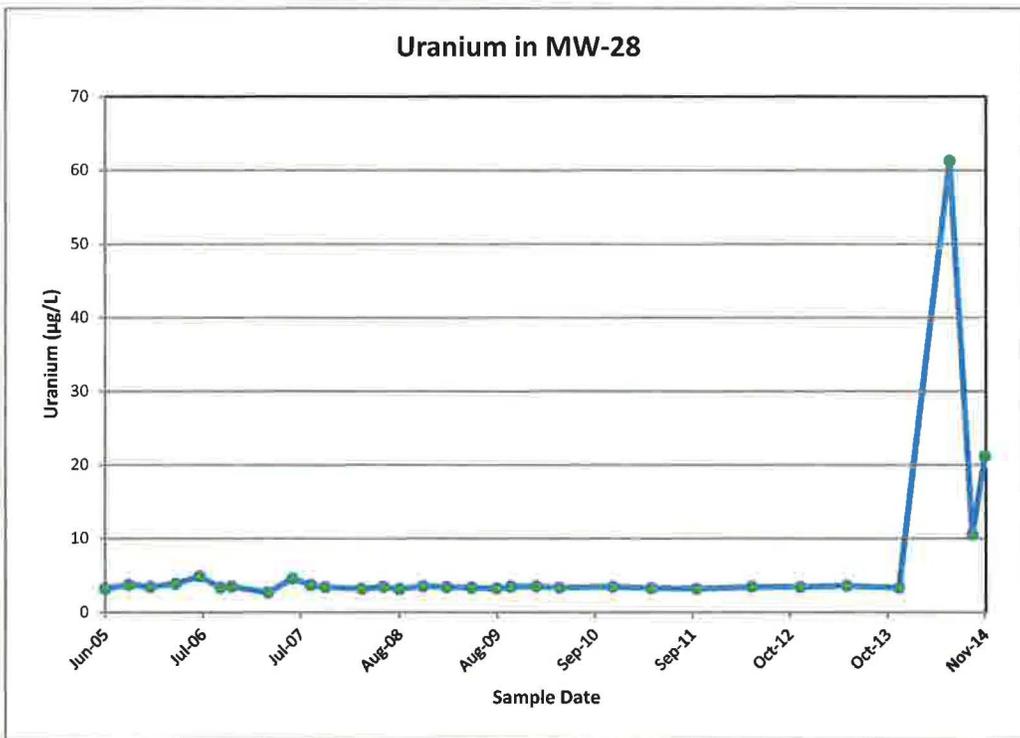
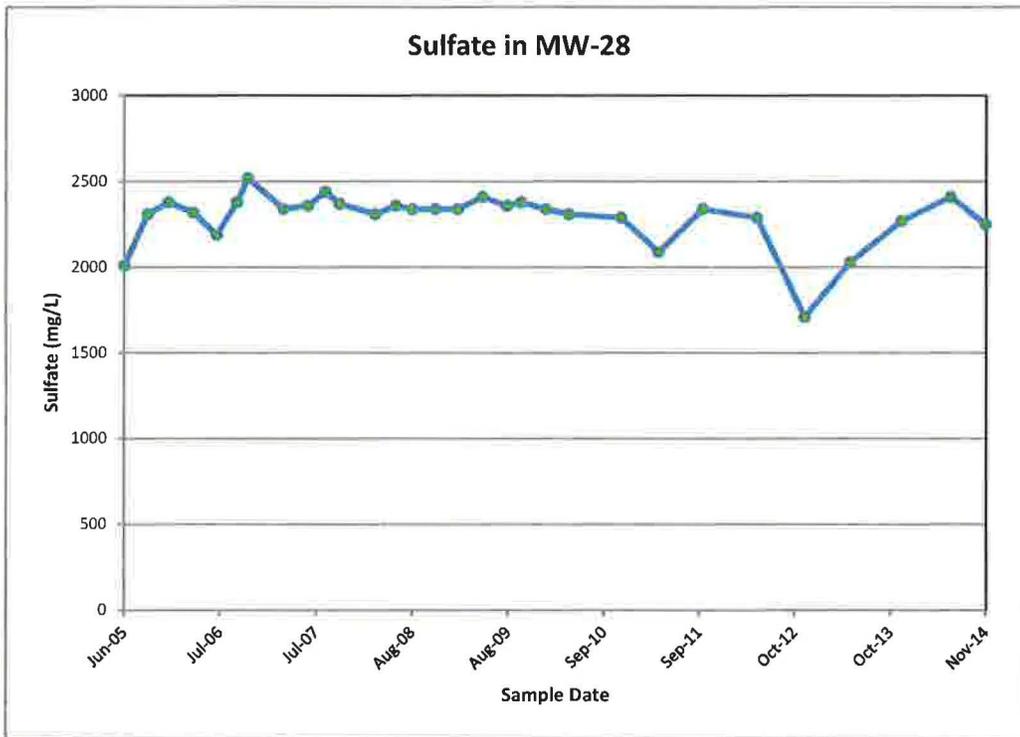
Time concentration plots for MW-27



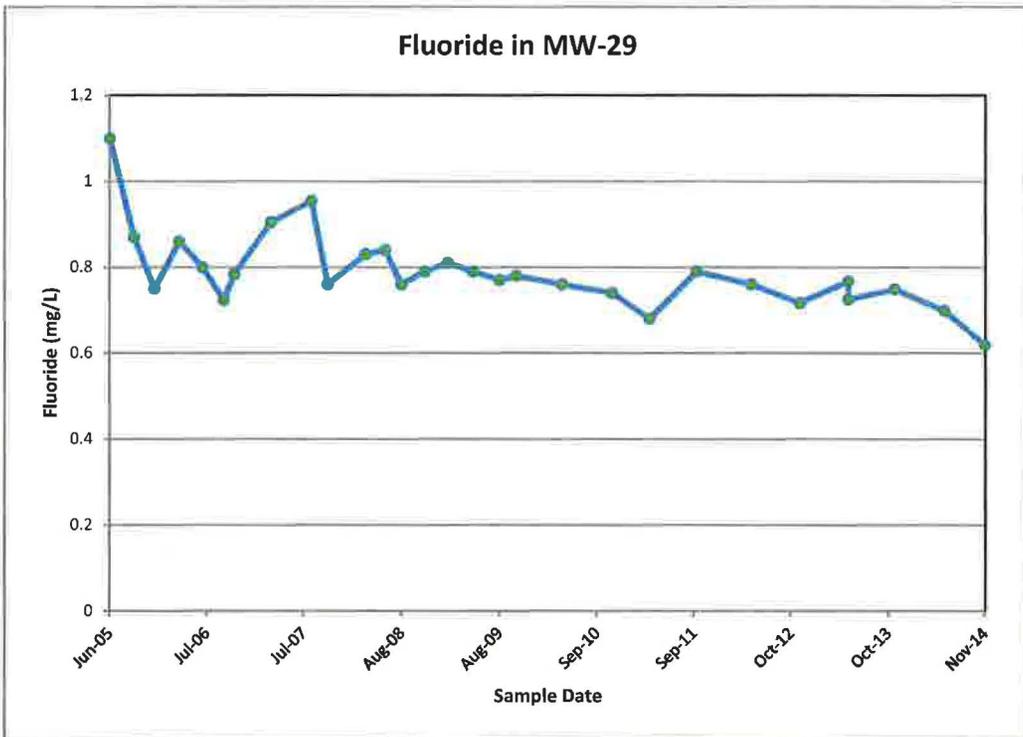
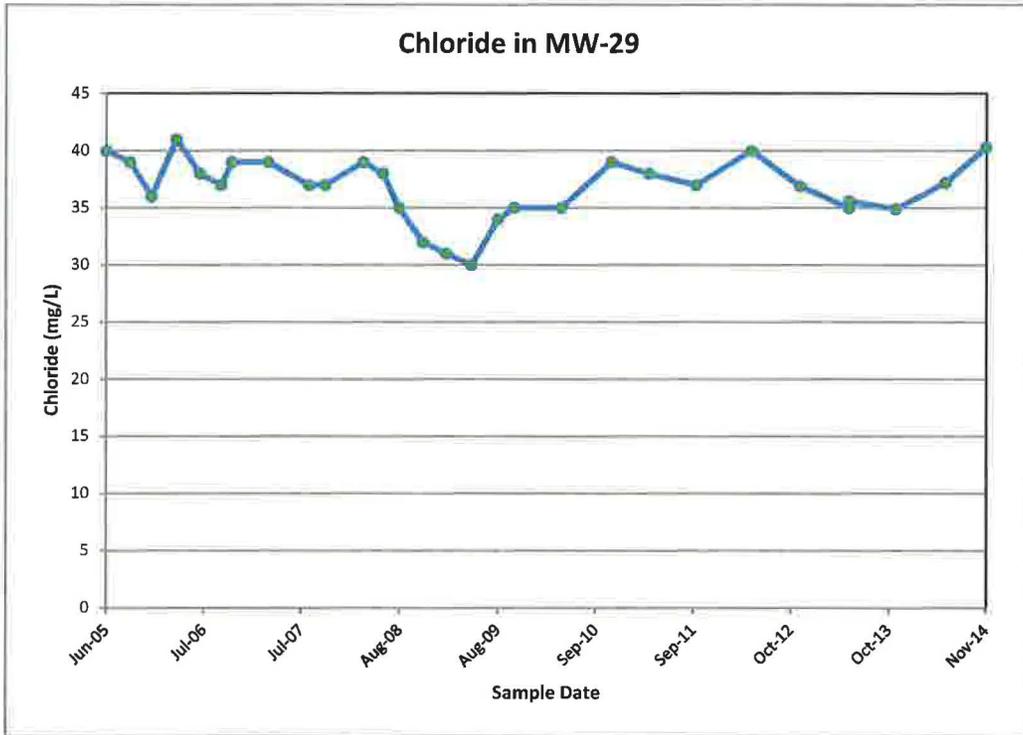
Time concentration plots for MW-28



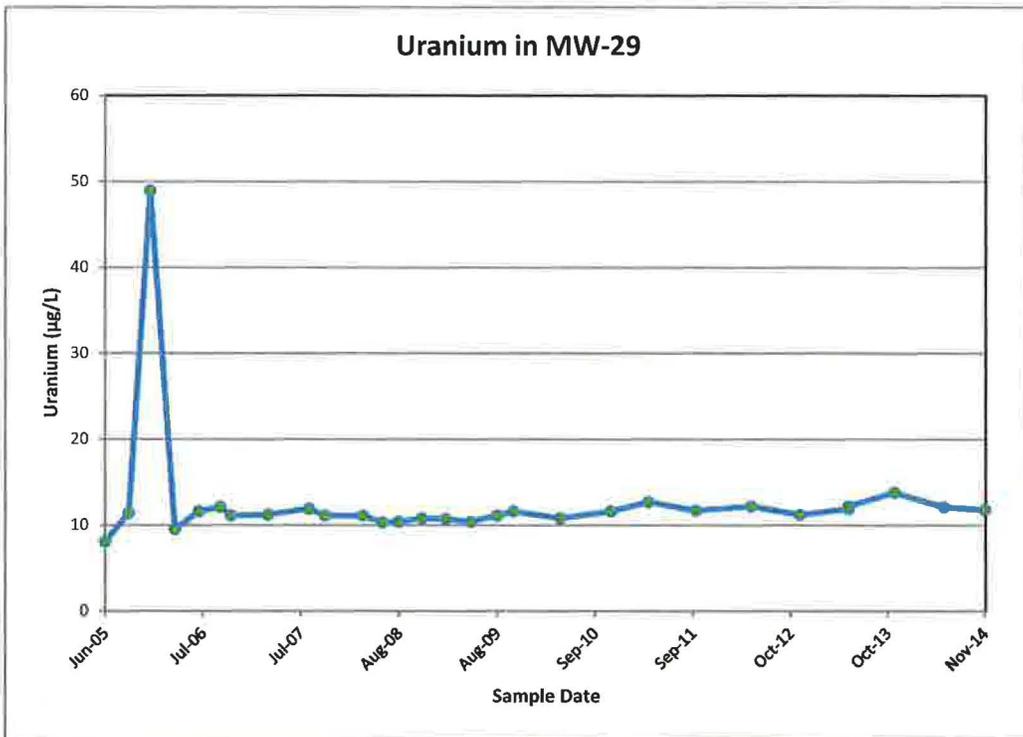
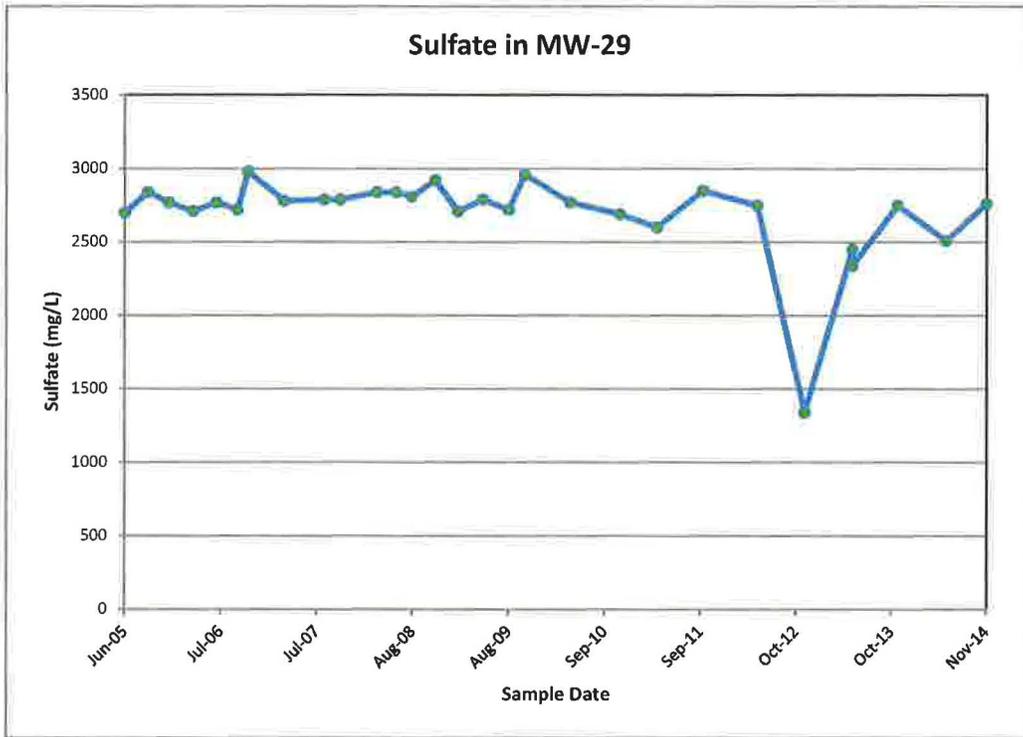
Time concentration plots for MW-28



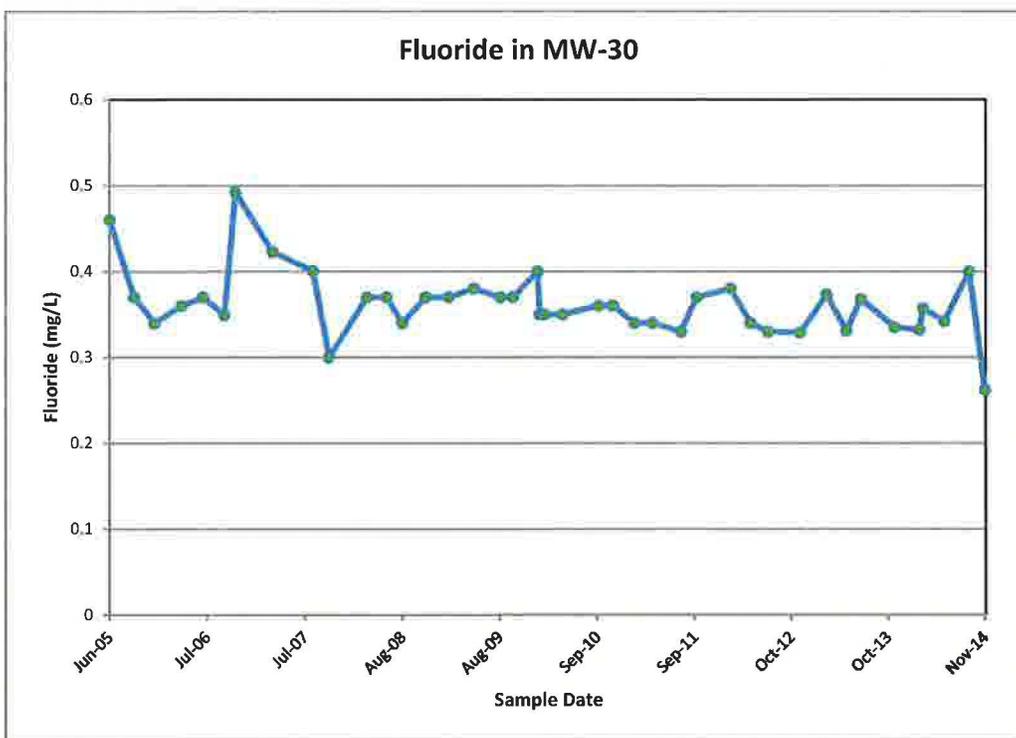
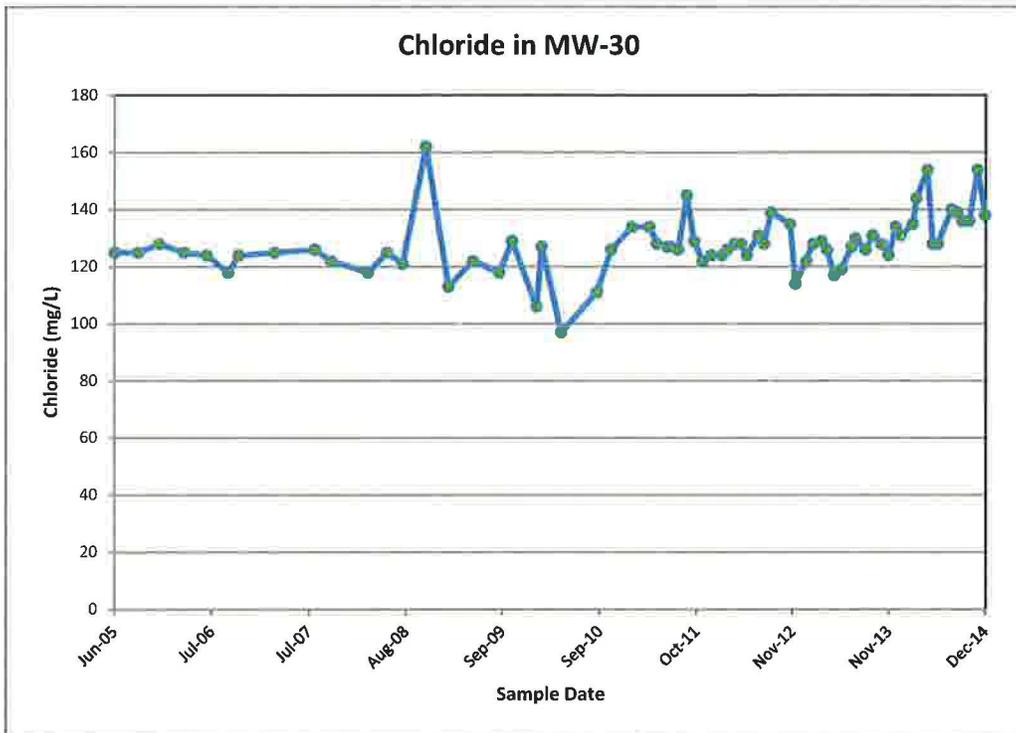
Time concentration plots for MW-29



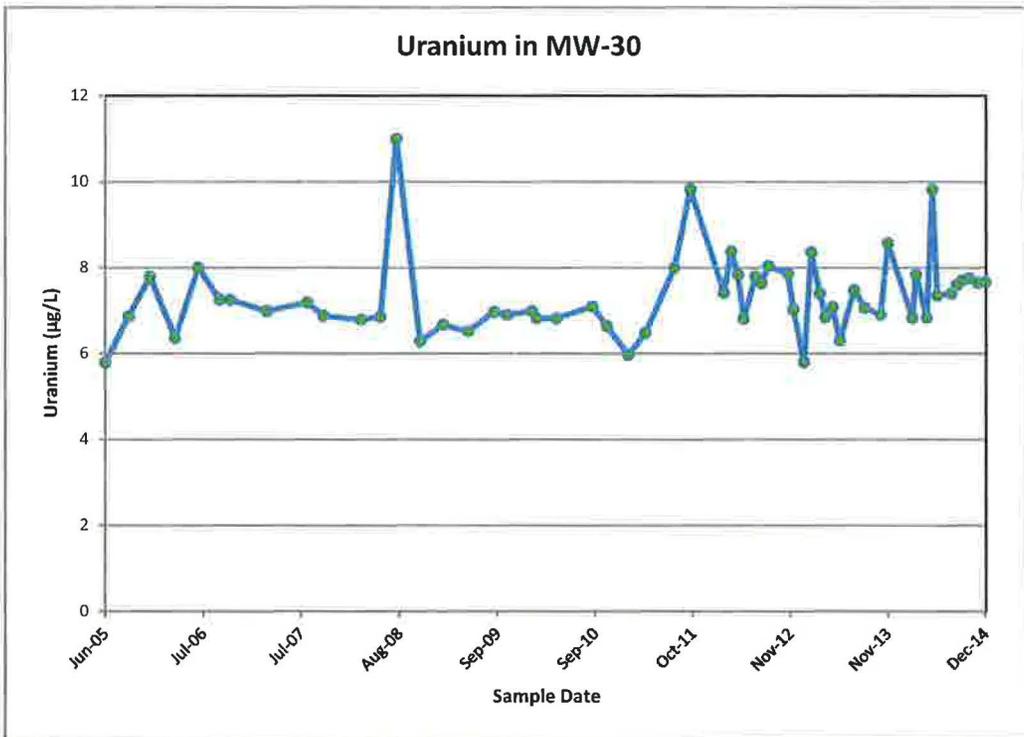
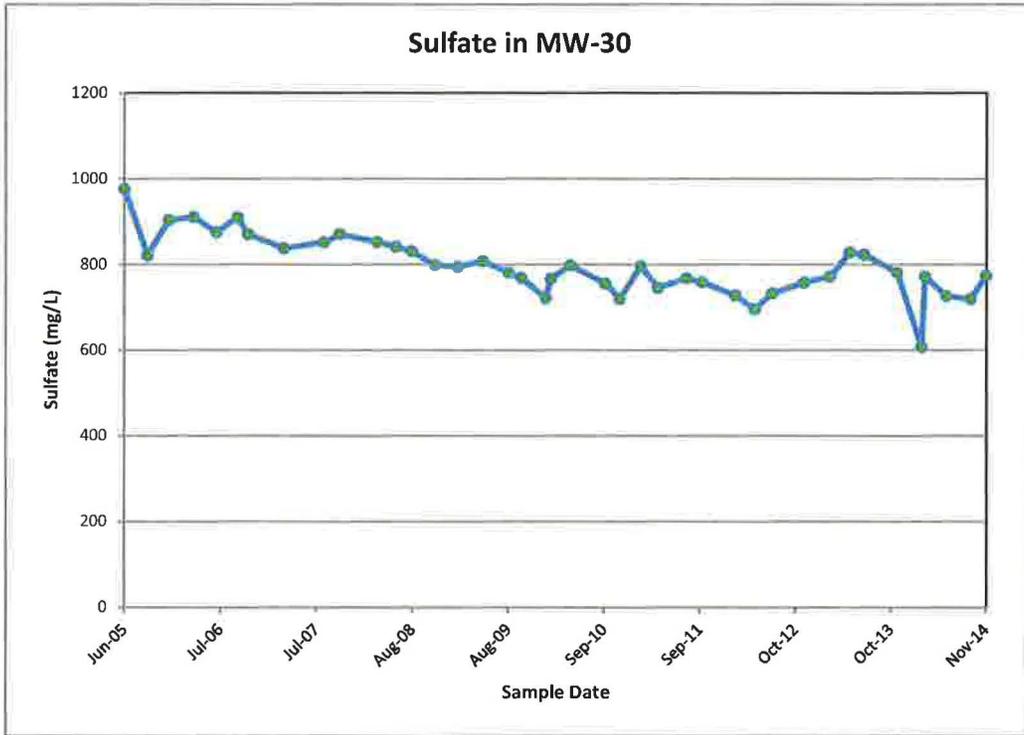
Time concentration plots for MW-29



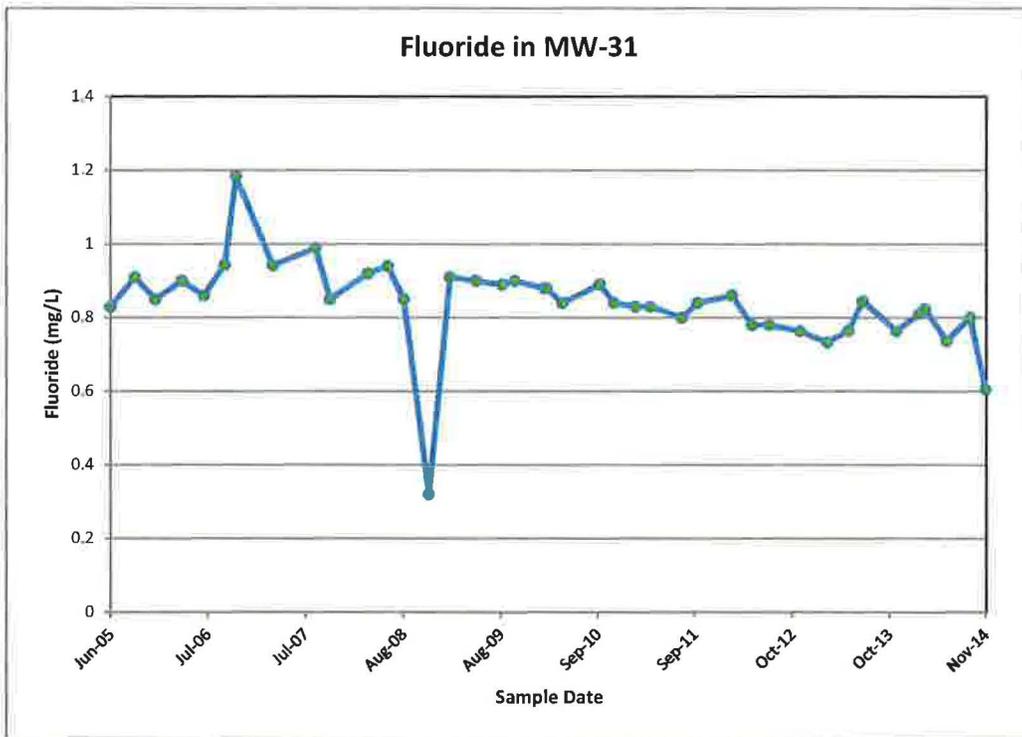
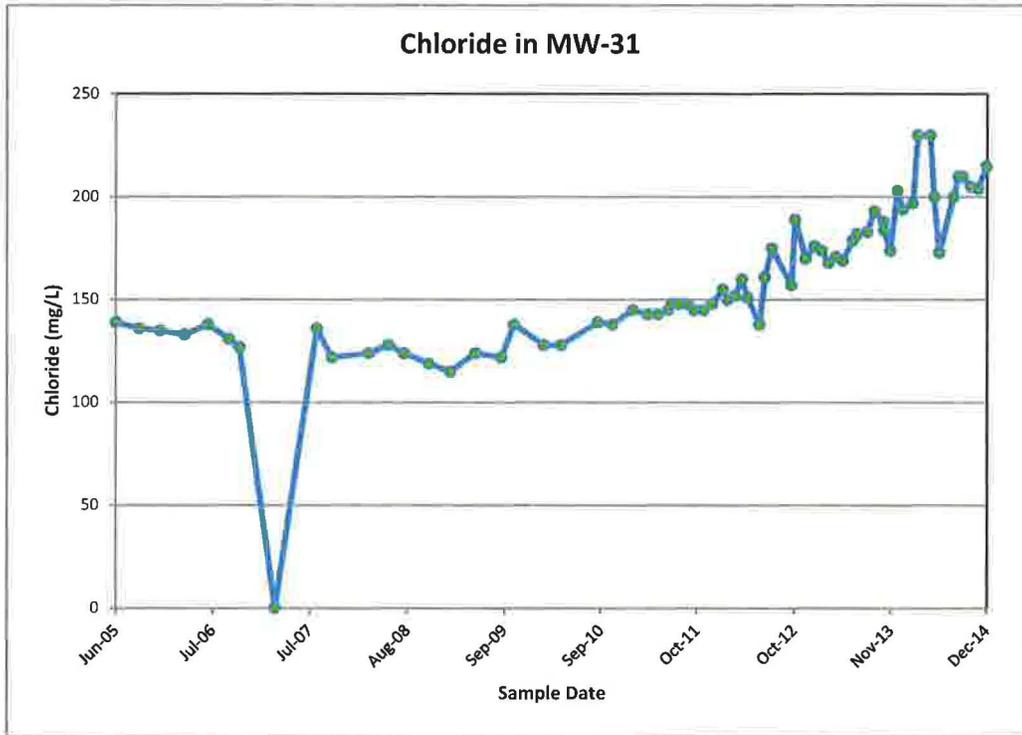
Time concentration plots for MW-30



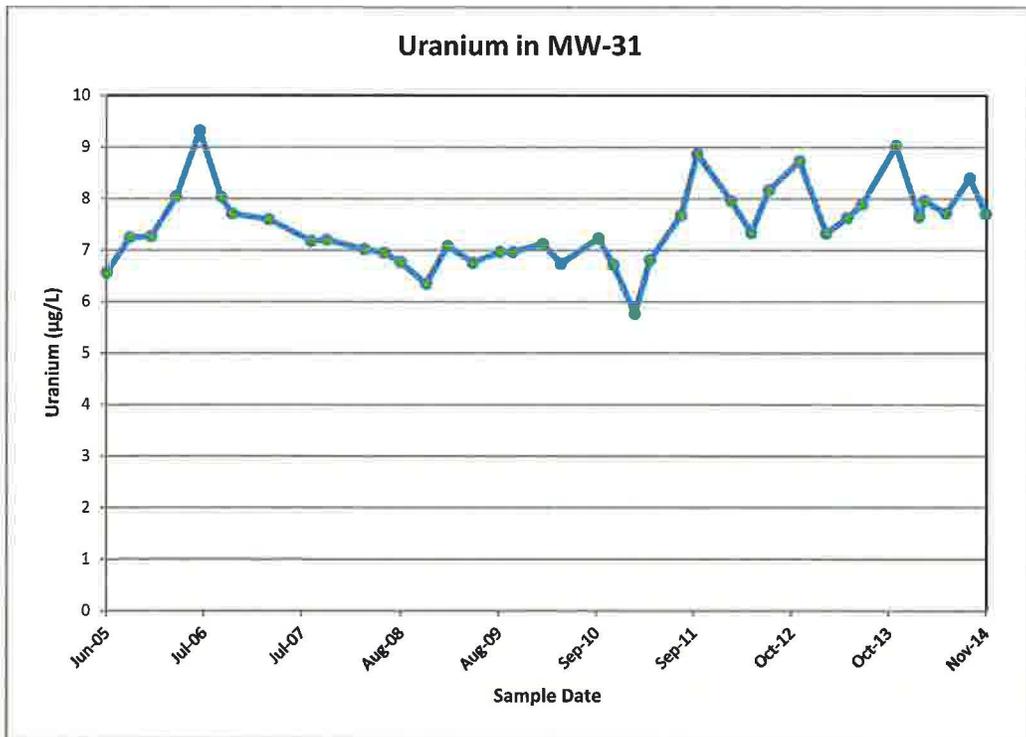
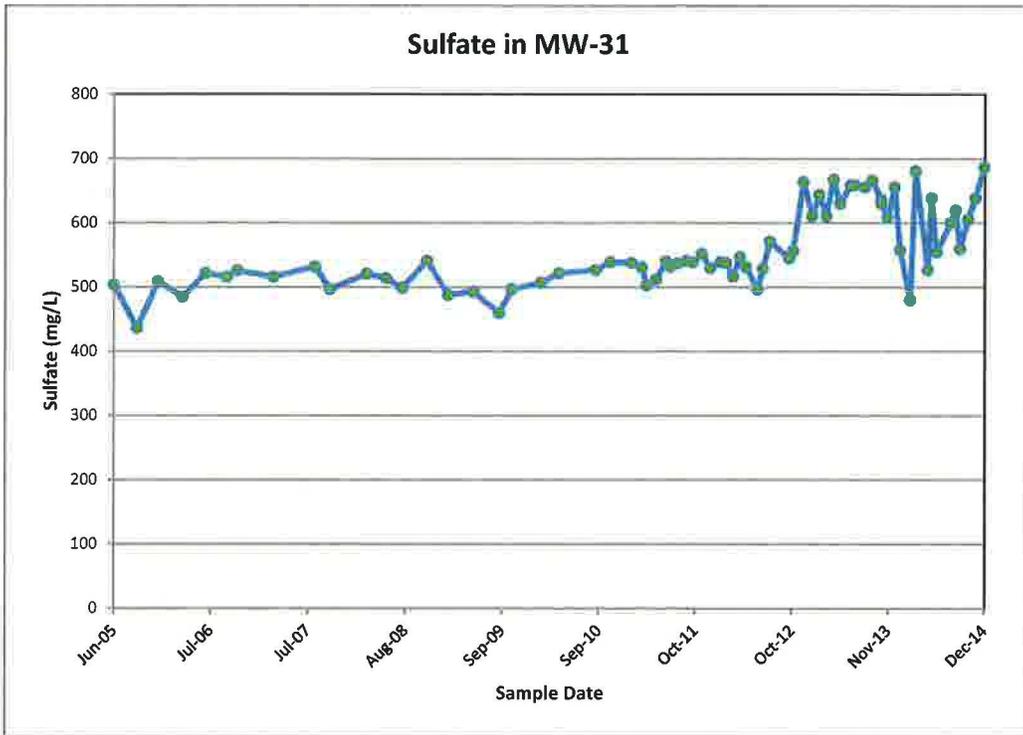
Time concentration plots for MW-30



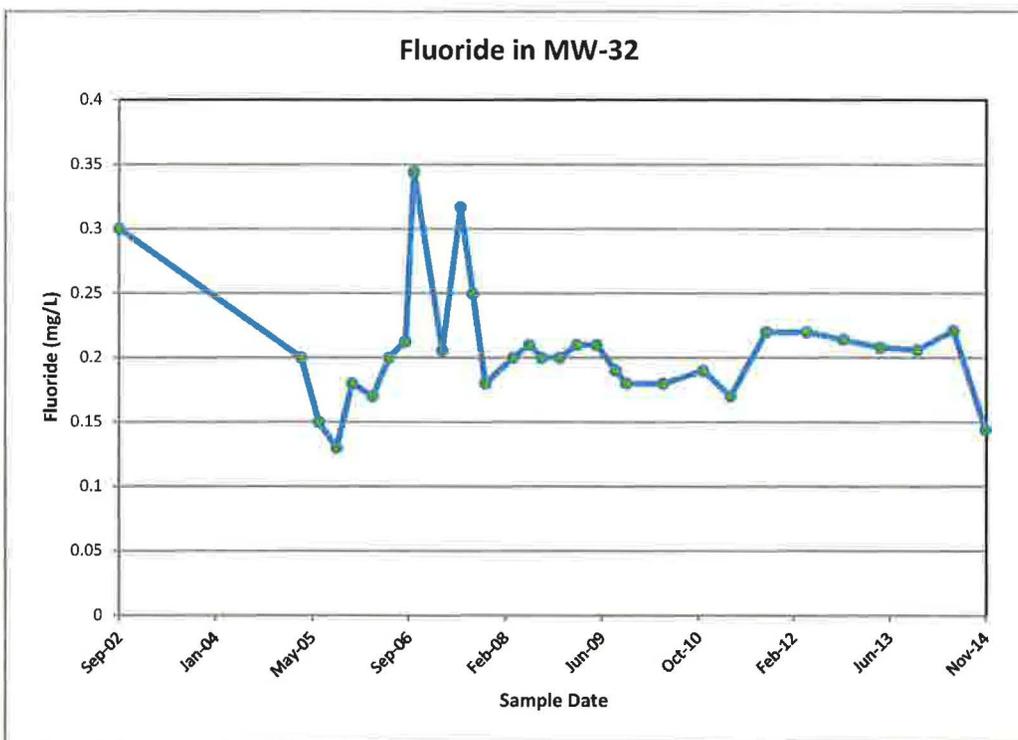
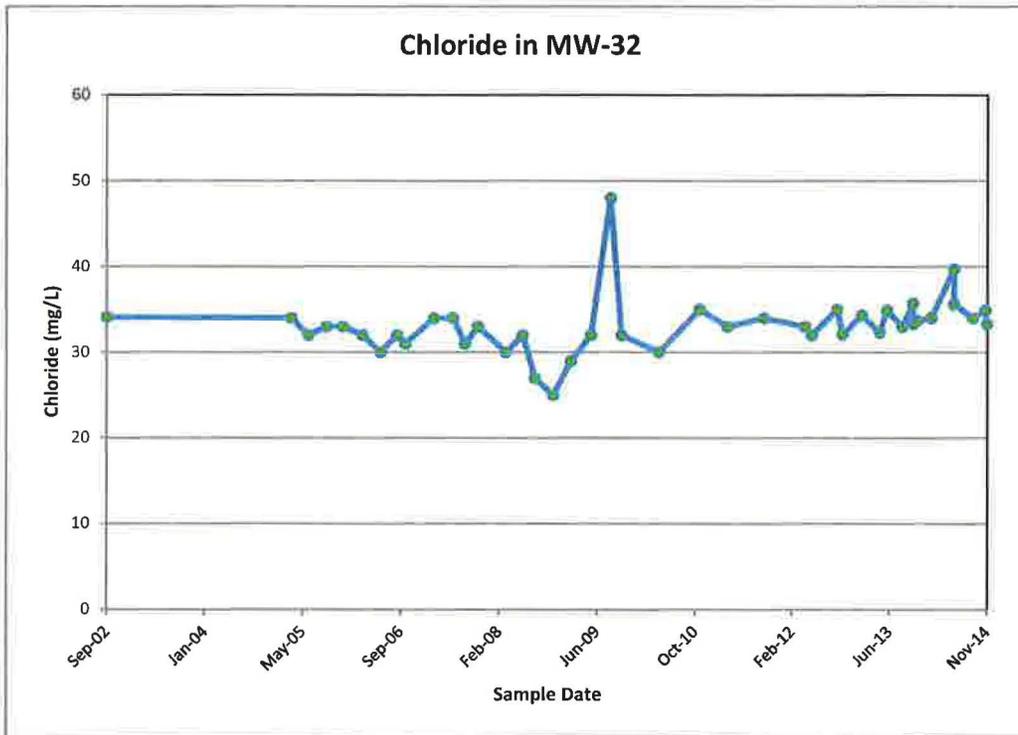
Time concentration plots for MW-31



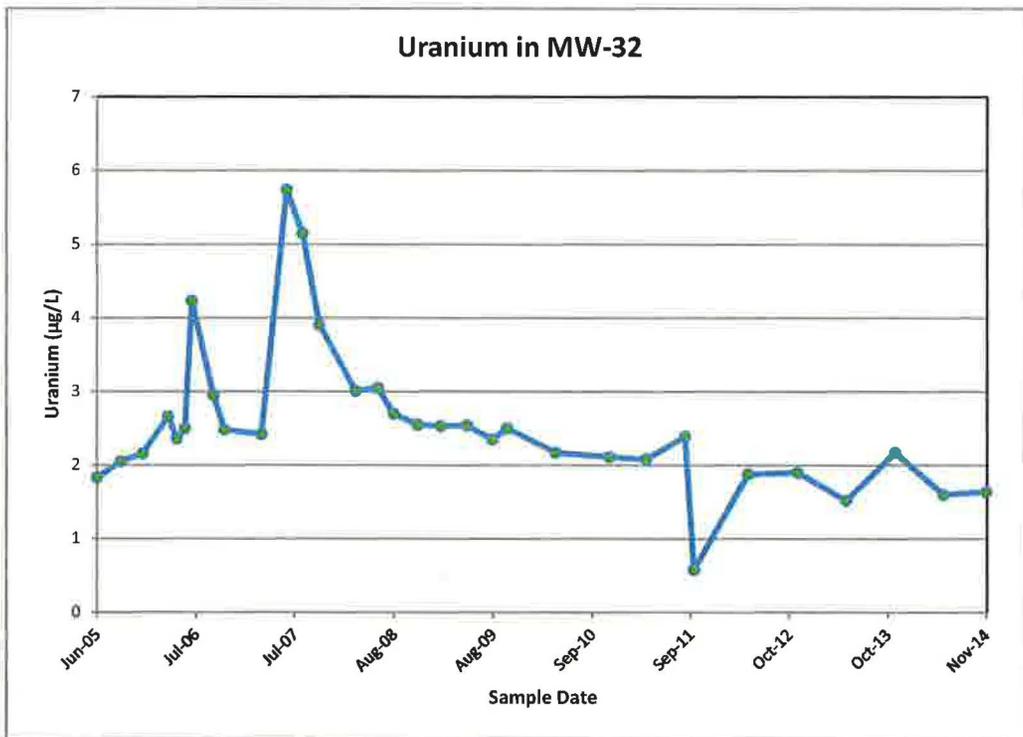
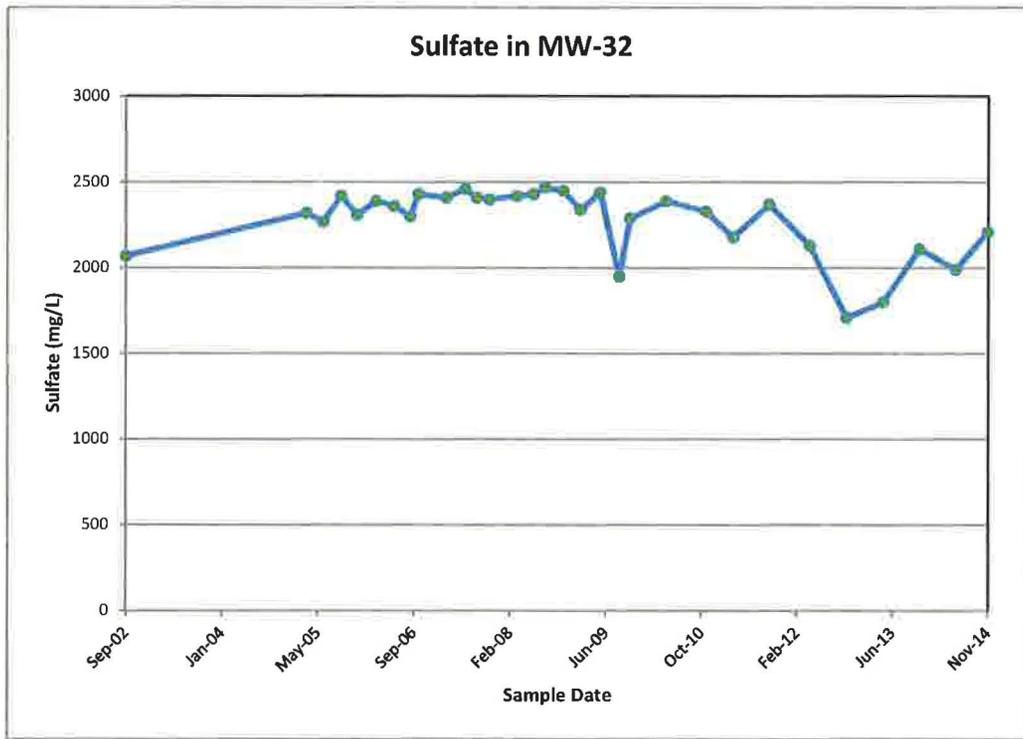
Time concentration plots for MW-31



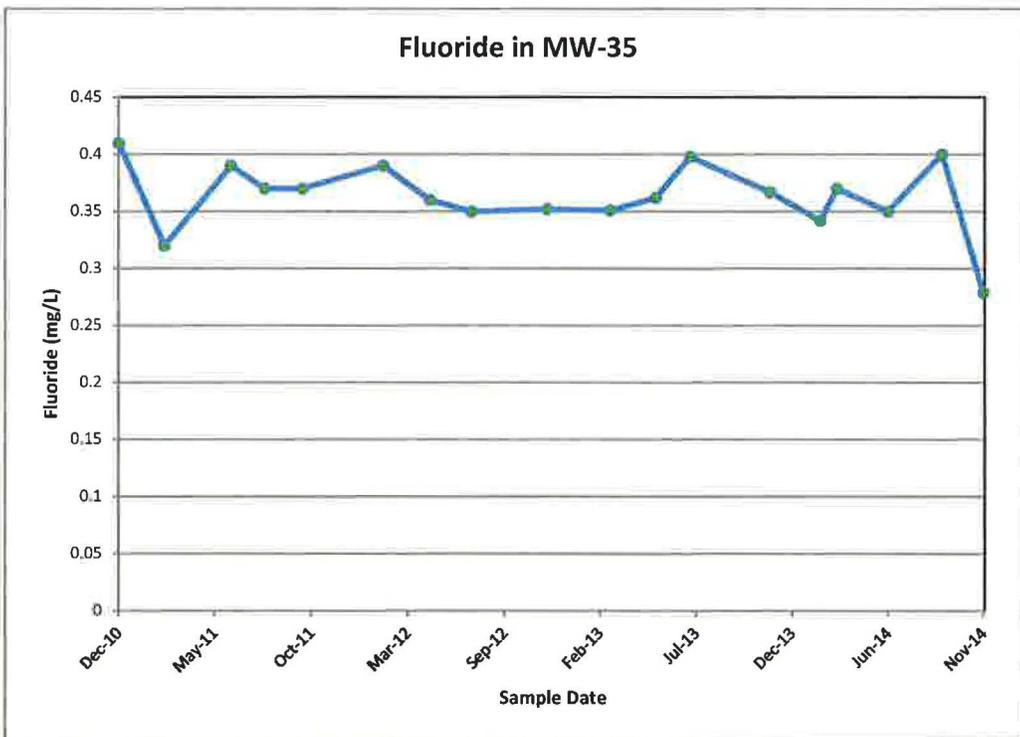
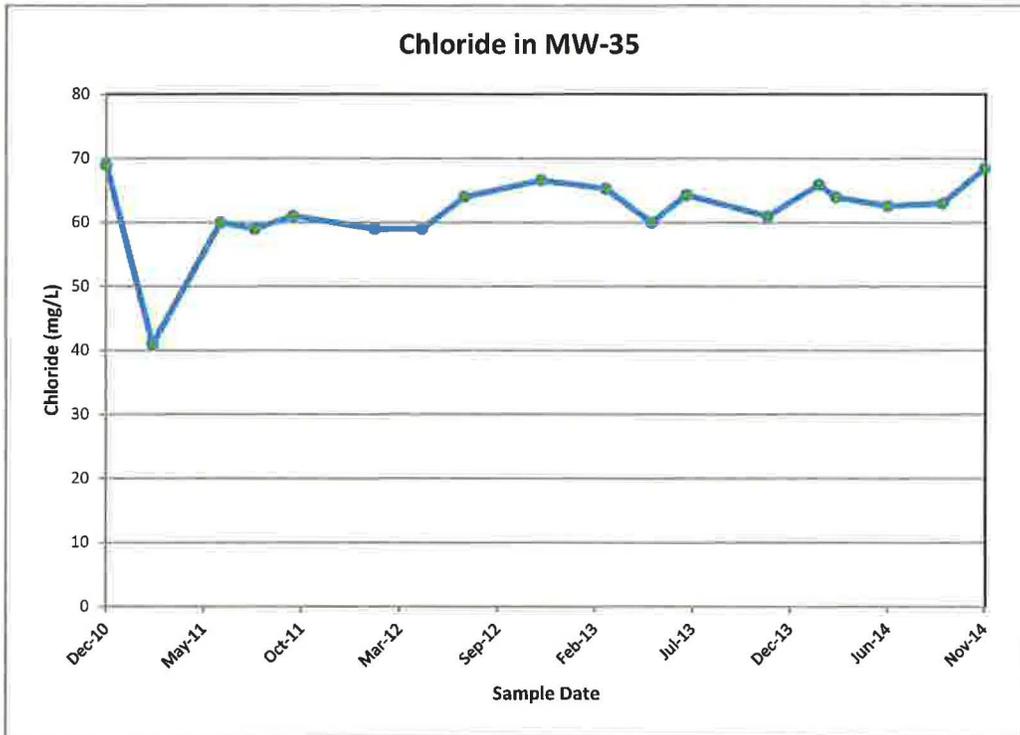
Time concentration plots for MW-32



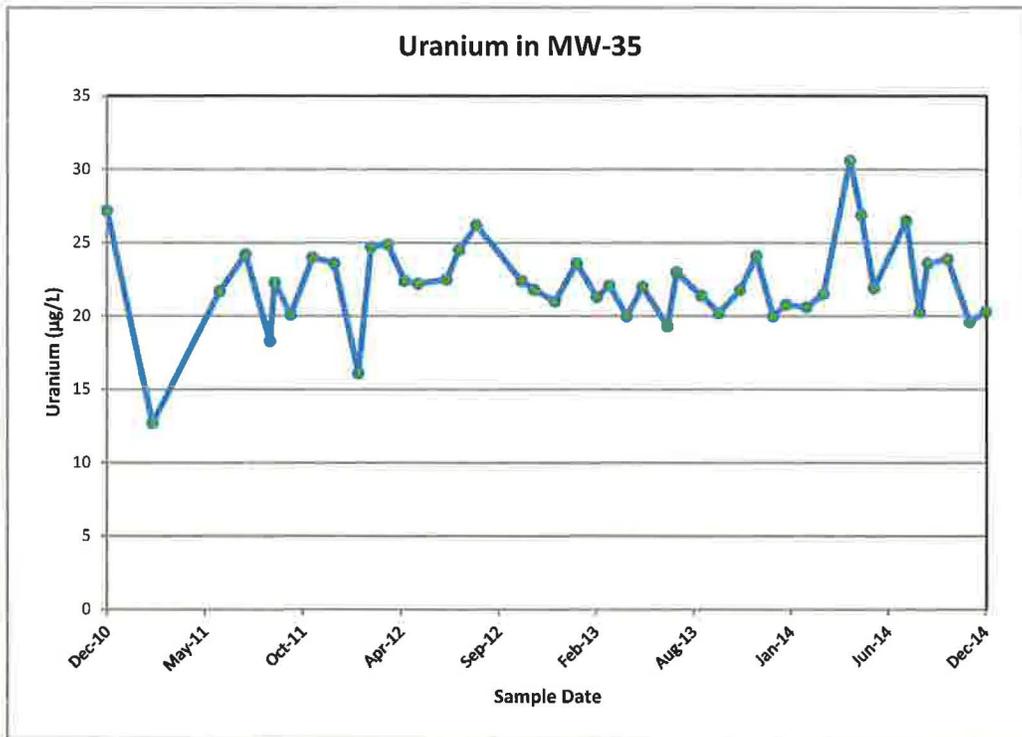
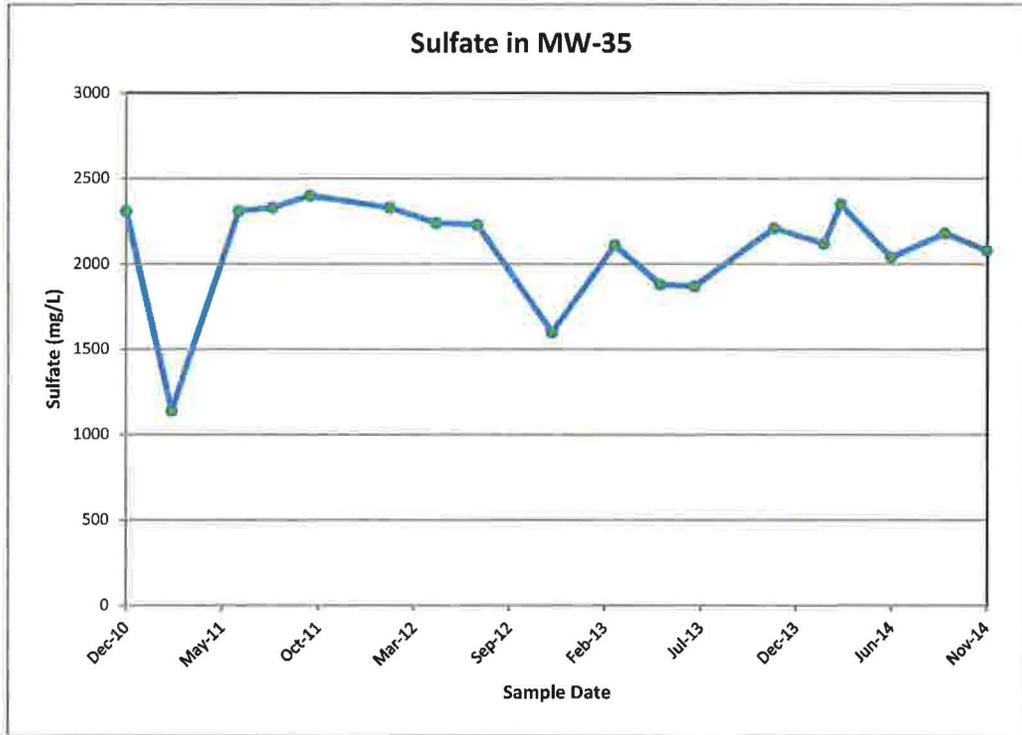
Time concentration plots for MW-32



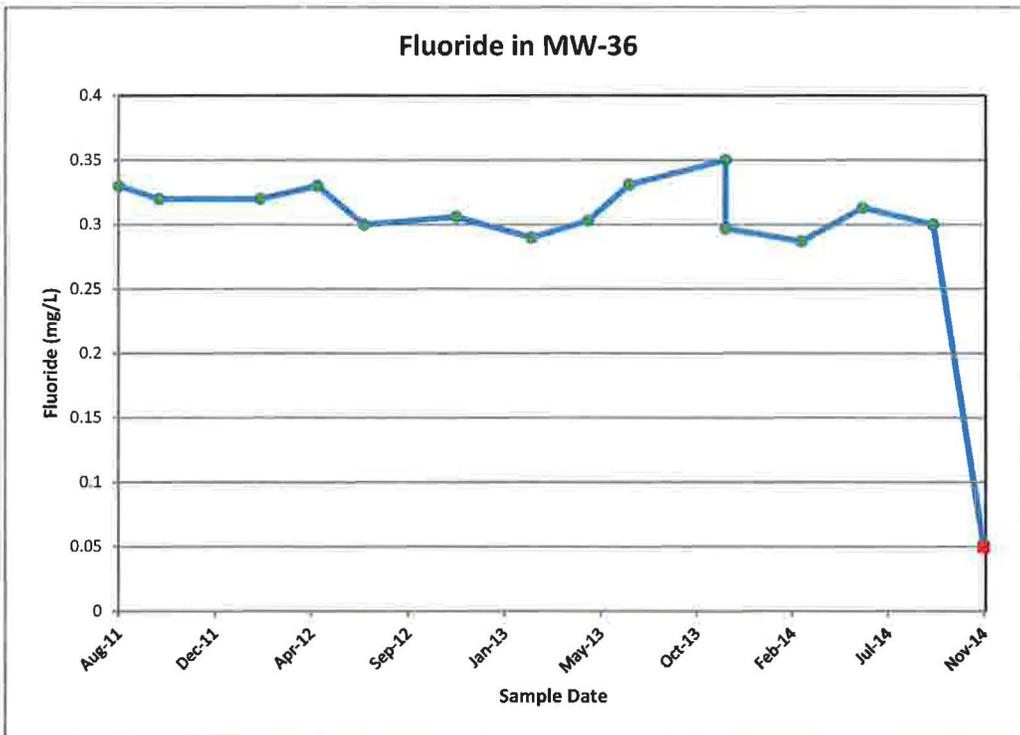
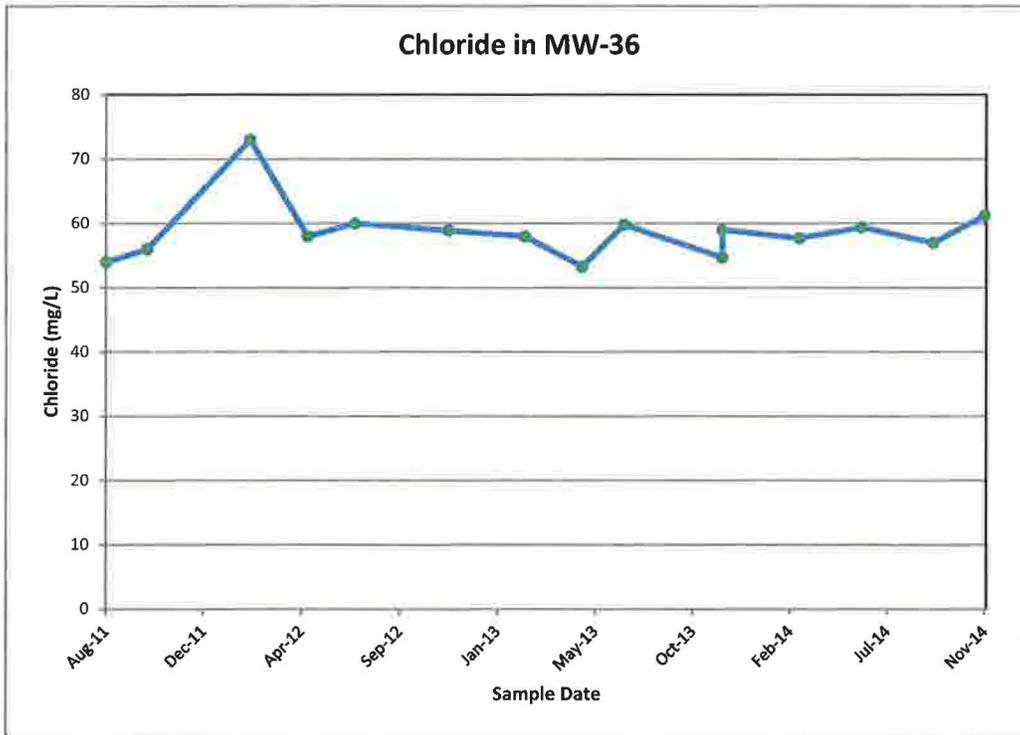
Time concentration plots for MW-35



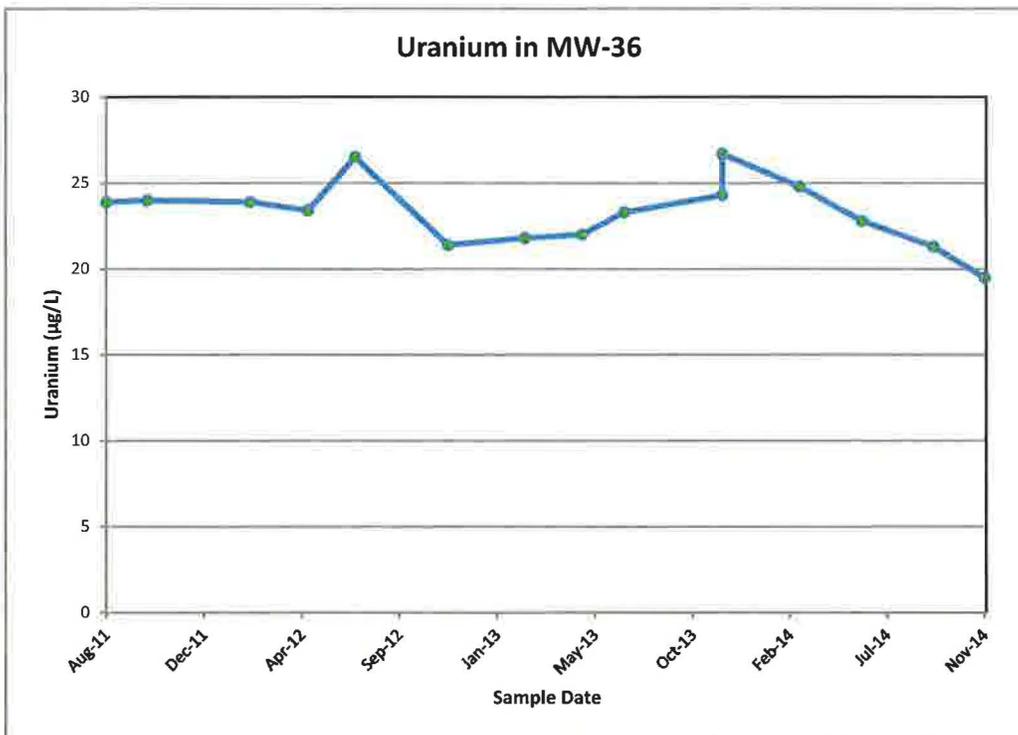
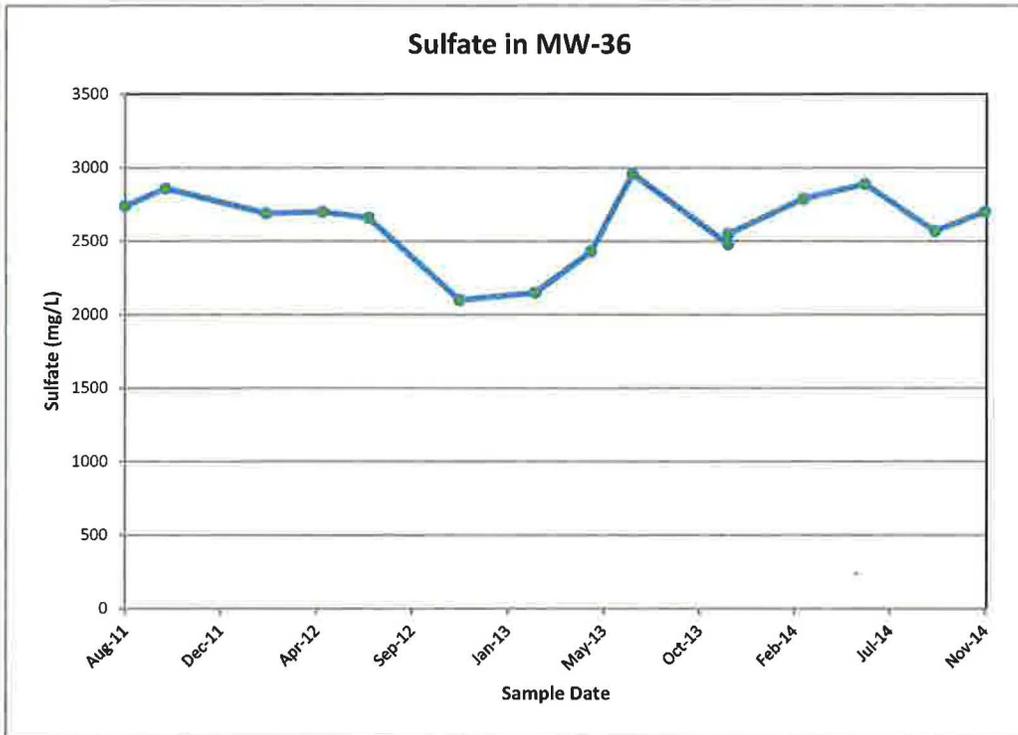
Time concentration plots for MW-35



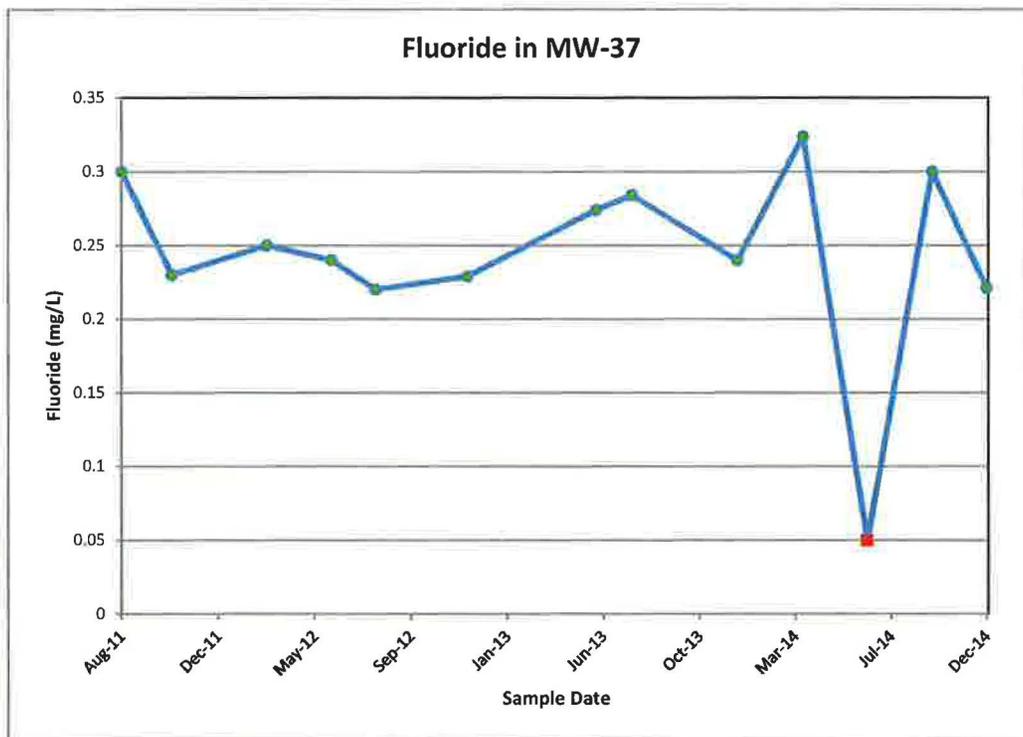
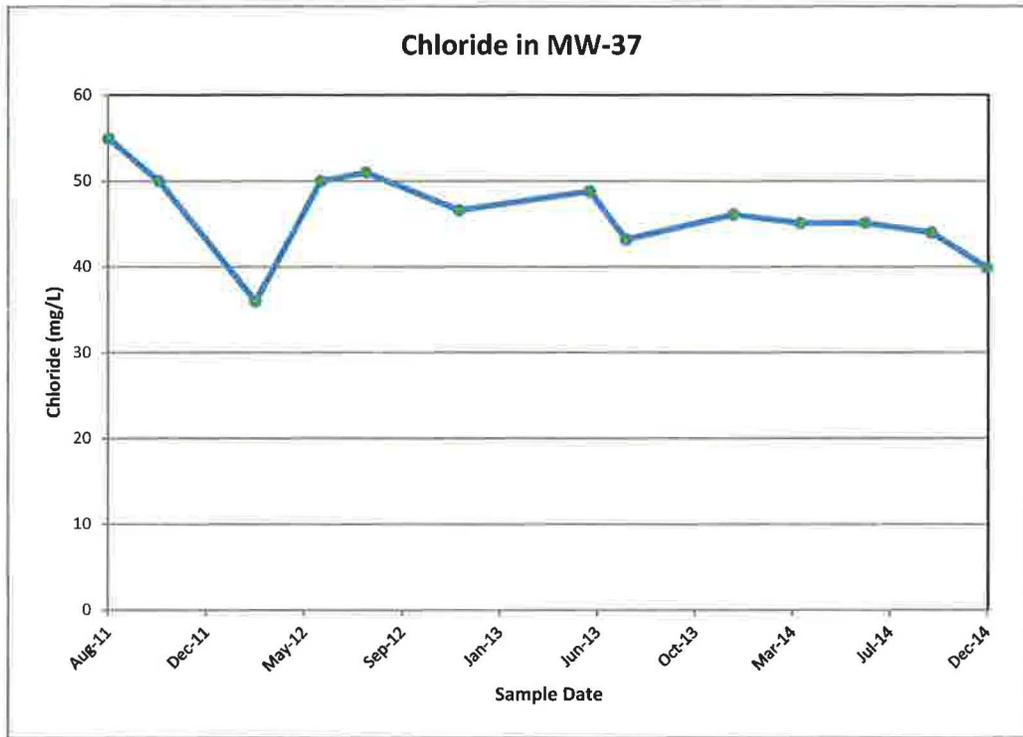
Time concentration plots for MW-36



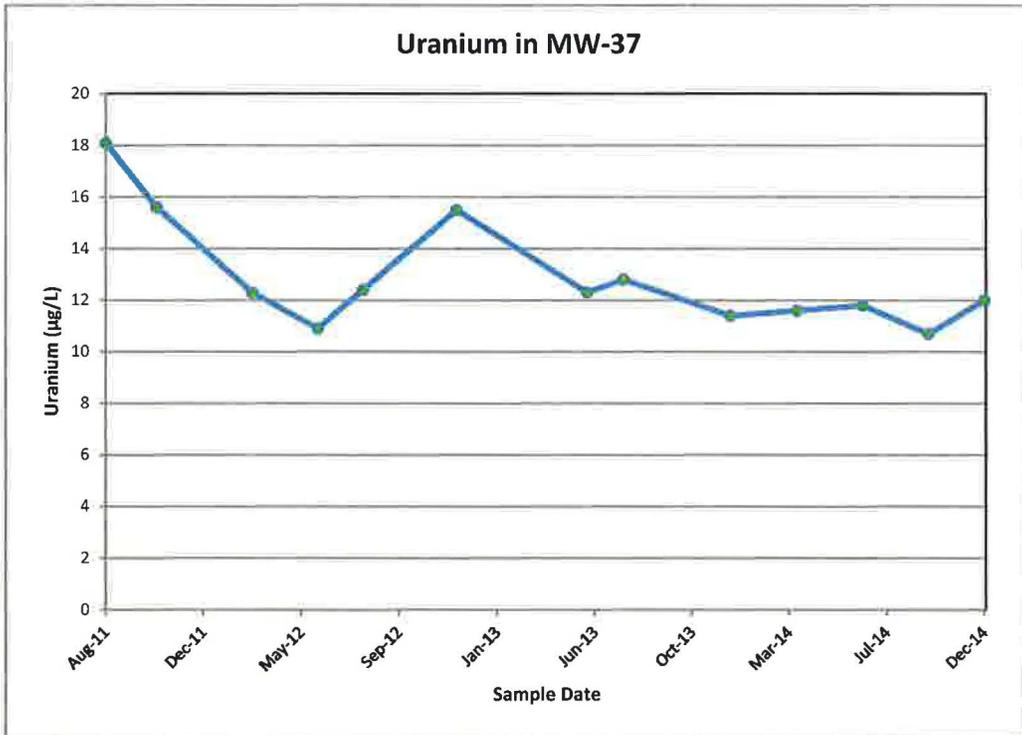
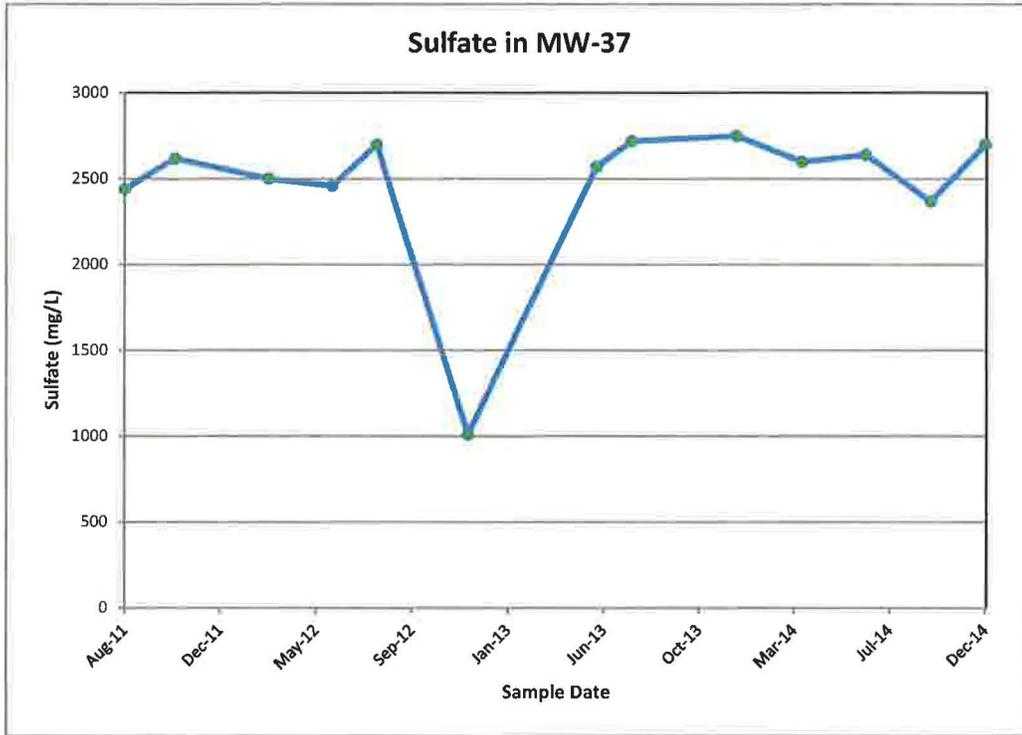
Time concentration plots for MW-36



Time concentration plots for MW-37



Time concentration plots for MW-37



Tab J

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Thursday, February 19, 2015 2:19 PM
To: Rusty Lundberg
Cc: 'Phillip Goble'; Thomas Rushing; Harold Roberts; David Frydenlund; Dan Hillsten; Jaime Massey; David Turk; Scott Bakken
Subject: Transmittal of CSV Files White Mesa Mill 2014 Q4 Groundwater Monitoring
Attachments: Q4 2014 GW EDD.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 fourth 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

Tab K

MW-28 Repair Report and Plan and Time Schedule



Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

December 4, 2014

Sent VIA E-MAIL AND 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 Plan and Time Schedule under Utah Ground Water Discharge Permit UGW370004 Part I.G.4 (d) White Mesa Mill (the "Mill")**

Dear Mr. Lundberg:

This letter transmits Energy Fuels Resources (USA) Inc.'s ("EFRI's") Plan and Time Schedule pursuant to State of Utah Groundwater Discharge Permit UGW370004 (the "Permit") Part I.G.4(d) for Violations of Part I.G.2 of the Permit. Part I.G.2 of the Permit provides that out-of-compliance ("OOC") status exists when the concentration of a pollutant in two consecutive samples from a compliance monitoring point exceeds a groundwater compliance limit ("GWCL").

On November 14, 2014, EFRI submitted a letter to the Director under Part I.G.1(a) of the Permit providing notice that the concentrations of specific constituents in groundwater monitoring wells at the Mill exceeded their respective GWCL's for the 3rd quarter of 2014 and indicating which of those constituents had two consecutive exceedances during that quarter. This Plan and Time Schedule addresses constituents requiring a Plan and Time Schedule for the 3rd quarter of 2014.

Please contact me if you have any questions or require any further information.

Yours very truly,
ENERGY FUELS RESOURCES (USA) INC.

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

Kathy Weinel
Quality Assurance Manager

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

WHITE MESA MILL

State of Utah Ground Water Discharge Permit UGW370004

Plan and Time Schedule

Under Part I.G.4 (d)

For

Violations of Part I.G.2 for Constituents in the Third Quarter of 2014

Energy Fuels Resources (USA) Inc.

225 Union Boulevard, Suite 600

Lakewood, CO 80228

December 4, 2014

1. INTRODUCTION

Energy Fuels Resources (USA) Inc. (“EFRI”) operates the White Mesa Uranium Mill (the “Mill”), located near Blanding Utah, under State of Utah Ground Water Discharge Permit UGW370004 (the “Permit”).

This is the plan and time schedule (the “Plan”) required under Part I.G.4(c) of the Permit relating to violations of Part I.G.2 of the Permit for the 3rd quarter of 2014. Part I.G.2 of the Permit provides that out-of-compliance status exists when the concentration of a pollutant in two consecutive samples from a compliance monitoring point exceeds a groundwater compliance limit (“GWCL”) in Table 2 of the Permit.

The Permit was originally issued in March 2005, at which time GWCLs were set on an interim basis, based on fractions of State Ground Water Quality Standards or the equivalent, without reference to natural background at the Mill site. The Permit also required that EFRI prepare a background groundwater quality report to evaluate all historic data for the purposes of establishing background groundwater quality at the site and developing GWCLs under the Permit.

As required by then Part I.H.3 of the Permit, EFRI submitted the following to the Director of the State of Utah Division of Radiation Control (the “Director”):

- *A Revised Background Groundwater Quality Report: Existing Wells For Denison Mines (USA) Corp.’s Mill Site, San Juan County, Utah, October 2007, prepared by INTERA, Inc. (the “Existing Wells Background Report”);*
- *A Revised Addendum: -- Evaluation of Available Pre-Operational and Regional Background Data, Background Groundwater Quality Report: Existing Wells For Denison Mines (USA) Corp.’s Mill Site, San Juan County, Utah, November 16, 2007, prepared by INTERA, Inc. (the “Regional Background Report”); and*
- *A Revised Addendum: -- Background Groundwater Quality Report: New Wells For Denison Mines (USA) Corp.’s Mill Site, San Juan County, Utah, April 30, 2008, prepared by INTERA, Inc. (the “New Wells Background Report, and together with the Existing Wells Background Report and the Regional Background Report, the “Background Reports”).*

Based on a review of the Background Reports and other information and analyses the Director re-opened the Permit and modified the GWCLs to be equal to the mean concentration of background for each constituent on an intrawell basis plus two standard deviations or the equivalent. The modified GWCLs became effective on January 20, 2010.

Part I.G.4 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 DMT or BAT will be reestablished.” Pursuant to this requirement, EFRI has submitted eight Plans and Time Schedules and associated Source Assessment Reports (“SARs”) to address previous dual exceedances (as required in light of other actions currently being undertaken by EFRI and as determined by DRC Staff and stated in teleconferences with EFRI on April 27 and May 2, 2011).

2. CONSTITUENTS AND WELLS SUBJECT TO THIS PLAN

The following constituent has been identified in one well in the 3rd Quarter 2014 Exceedance Notice as being in out-of-compliance status under Part I.G.2 of the Permit:

**Table 1
Constituent and Well Subject to this Plan**

Constituent	Monitoring Event	POC Well	GWCL	Result
Uranium	2nd Quarter 2014	MW-28	4.9 µg/L	61.3 µg/L
	3rd Quarter 2014			10.6 µg/L

It should be noted that the 3rd Quarter 2014 Exceedance Notice identifies a number of wells with consecutive exceedances of Nitrate + Nitrite and/or Chloride, Chloroform and Dichloromethane, and pH (less than the respective GWCLs for pH) in a number of wells. However, none of those constituents are included in this Plan, for the reasons stated in the 3rd Quarter 2014 Exceedance Notice. Chloroform and Dichloromethane are associated with the Chloroform Plume, and the August 23, 1999 DRC Notice of Violation and Groundwater Corrective Action Order. Nitrate + Nitrite and Chloride are associated with the Nitrate/Chloride plume, and are currently covered by the December 12, 2012 Stipulation and Consent Order. With respect to pH, EFRI and DRC entered into a Stipulated Consent Agreement (“SCA”) dated July 12, 2012. The SCA required the completion of the pH Report and the Pyrite Investigation and associated report. The pH Report and Pyrite Investigation Report were submitted November 9, 2012 and December 7, 2012 respectively. By letter dated April 25, 2013, DRC accepted the conclusions that the out-of-compliance results for pH are due to background effects within the aquifer matrix and are not caused by Mill activities.

3. CATEGORIES FOR ANALYSIS

Previously EFRI has categorized wells and constituents in several categories as follows:

- Constituents Potentially Impacted by Decreasing pH Trends Across the Site
- Newly Installed Wells with Interim GWCLs
- Constituents in Wells with Previously Identified Rising Trends
- Pumping Wells
- Other Constituents

Uranium in MW-28 falls within the last category: other constituents. Assessment of uranium in MW-28 will follow the process noted below.

3.1. Other Constituents

On May 28, 2014 EFRI notified DRC personnel of damage to Monitoring Well 28 (“MW-28”). The damage was noted by EFRI Environmental Staff during routine, quarterly sampling activities. Upon arrival at MW-28, EFRI Environmental Staff noticed that there was evidence that a vehicle had struck the outer protective metal casing of MW-28 and it was slightly bent and leaning to the west. Inspection of the inner, 10-inch PVC protective casing and the 4-inch well casing also showed signs of damage. The concrete seal between the 10-inch casing and the 4-inch casing was cracked and EFRI Environmental Staff noted that the 2 inner PVC casings were likely cracked and/or broken. Upon discovery of the damage on May 28, 2014, EFRI Environmental Staff contacted the EFRI Quality Assurance Manager (“QAM”) via text message. The EFRI QAM notified DRC personnel in person, while at the DRC offices in Salt Lake City. On June 2, and June 5, 2014 Environmental Staff and Bayles Exploration repaired the well and removed the debris in the bottom of the well resulting from the damage. The Environmental Staff then overpumped the well and removed over 4 casing volumes to redevelop the well. The well was sampled and the routine, second quarter 2014 sample was collected on June 18, 2014. The repair notification and report are included as Attachment 1 of this Plan.

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

Per the GWDP, EFRI began accelerated monitoring in third quarter 2014 in MW-28 for those three constituents. The third quarter 2014 MW-28 results for vanadium and cadmium are below the GWCLs and no further action except accelerated monitoring of those constituents is required. The uranium result dropped significantly, but remained above the GWCL in the third quarter 2014. As stated above, Part I.G.4 c) of the GWDP a Plan and Time Schedule is required for constituents exceeding their GWCL in two consecutive monitoring periods.

4. PLAN

4.1. General

This Plan is a plan and 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 ensure that Permit limits will not be exceeded at the compliance monitoring point and that, to the extent applicable, discharge minimization technology and best available technology will be reestablished.

Given the historic results (Attachment 2), lack of previous exceedances and the analyses in the Background Reports, EFRI believes the exceedances are temporary and are the result of the damage to the well and the subsequent activities undertaken to repair the casing and clean out the debris and soils.

Therefore, the analysis of the exceedance will be to continue monitoring MW-28 on an accelerated schedule (from semi-annually to quarterly) for uranium, vanadium and cadmium as required by the GWDP. Based on the sharp decline noted from second to third quarter, EFRI anticipates that the results for cadmium and vanadium will remain below the GWCL and uranium will fall below the GWCL. Currently, additional actions beyond accelerated monitoring are required are not required for vanadium and cadmium because these constituents have only exceeded their GWCL once. An assessment of the uranium results will be completed after two more quarters of data are collected (fourth quarter 2014 and first quarter 2015). If the uranium results continue to exceed the GWCL, EFRI will perform a video inspection of the interior of MW-28 to investigate the possibility of additional physical damage to the well structure that may be causing the elevated uranium results. Further actions would be determined after the video inspection based on the results of any such inspection.

5. TIME SCHEDULE

Accelerated monitoring will continue as required. An assessment of the uranium results will be completed after the first quarter 2015 results are received. The results of the assessment will be included in the first quarter 2015 report submitted to DRC on or before June 1, 2015. If additional video inspections are required based on the results from the fourth quarter 2014 and first quarter 2015, the schedule and process for completion of the inspection will be discussed with DRC at the time the first quarter 2015 Exceedance Notice is submitted.

Any further studies identified by the Director as being required in order to fulfill the requirements of Part I.G.4(c) of the Permit or the Notice, will be prepared and submitted by EFRI in accordance with a schedule to be approved by the Director.

6. CONCLUSION

As noted above and in the attached Well Repair Notification, MW-28 was struck by a vehicle and sustained a significant amount of damage to the outer and inner casings. Repairs and clean out of the well were completed. A large amount of soil, concrete and casing pieces were removed from the well during the clean out, after the repairs were completed. The repair and clean out activities were completed less than 2 weeks prior to the second quarter sample collection. The damage, repair and subsequent clean out activities affected the well and likely caused the exceedances noted in the second quarter as well as the repeat exceedance of uranium in the third quarter. The sharp decline of the detections between the second and third quarter indicates that the exceedances are temporary and are the result of disturbances resulting from the damage, repairs and cleanout.

MW-28 has not been impacted by Mill activities and the exceedance is not the result of Mill activities because no other constituents have been detected above their GWCLs. Mill impacts would be seen through significant increases of the indicator parameters. No increases in the indicator parameters were noted in the second and third quarter samples.

ATTACHMENT 1
Well Repair Notification for MW-28



Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

July 2, 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: Energy Fuels Resources (USA) Inc. Monitoring Well Repair Notification for MW-28
at White Mesa Uranium Mill, Blanding Utah**

Dear Mr. Lundberg:

On May 28, 2014, Energy Fuels Resources (USA) Inc. ("EFRI") notified Utah Division of Radiation Control ("DRC") personnel of damage noted to Monitoring Well 28 ("MW-28"). The damage was noted by EFRI Environmental Staff during routine, quarterly sampling activities. This letter documents the investigation into the cause of the damage and the repairs completed.

Incident Description

- On May 28, 2014, during routine, quarterly, sampling activities, EFRI Environmental Staff noted damage to MW-28. Upon arrival at MW-28, EFRI Environmental Staff noticed that there was evidence that a vehicle had struck the outer protective metal casing of MW-28 and it was slightly bent and leaning to the west (see Photograph Number 1). Inspection of the inner, 10-inch PVC protective casing and the 4-inch well casing also showed signs of damage. The concrete seal between the 10-inch casing and the 4-inch casing was cracked and EFRI Environmental Staff noted that the 2 inner PVC casings were likely cracked and/or broken.
- The Environmental Staff noted that the metal casing lid was broken off (see Photograph 1) and a portion of the dedicated pump tubing had slipped into the well. The tubing was retrieved. When the static water level was measured, approximately 2 feet of the probe and tape were covered with mud and debris.

- Upon discovery of the damage on May 28, 2014, EFRI Environmental Staff contacted the EFRI Quality Assurance Manager (“QAM”) via text message. The EFRI QAM notified DRC personnel in person, while at the DRC offices in Salt Lake City.
- An incident investigation was started on May 28, 2014 in response to the damage to MW-28.

Incident Investigation Results

- There was an incident on the weekend on May 17, and May 18, 2014 that involved a pickup truck. The pickup truck was found with damage to the right passenger side bumper and rear right tire on May 19, 2014. The bumper was dented and the fiberglass broken. The employee in possession of the pickup truck stated that a rock had done the damage.
- Immediately upon discovery of the damage to MW-28 on May 28, 2014, the Operation Superintendent took the damaged truck out to the well and the damage on the bumper matched the damage on the casing. The employee was contacted for further details to discuss the latest findings and observations.
- The employee again stated that the damage resulted from hitting a rock. Surveillance video from May 17 through May 19, 2014 was reviewed. The video confirmed the timeframe of the damage and indicated that the source of the damage was not a rock. The employee was terminated.

Summary of Repairs

- On Monday, June 2, 2014 Environmental Staff and Bayles Exploration examined MW-28 to assess the damage and determine if the well could be repaired.
- On June 2, 2014, a backhoe was used to excavate the perimeter of the well casings to expose any damage. Damage to the outer steel protective casing, the 2-inner PVC casings, and the sealing concrete between the 2 PVC casings was noted at approximately 3.5 feet below ground surface (“bgs”). The broken section of all three casings was removed during the excavation (see Photograph 2 and Photograph 3).
- Concrete chips and PVC debris fell into the well during the excavation and wedged the dedicated pump in place.
- The dedicated pump lines were attached to the backhoe bucket in an effort to retrieve the pump. The pump was successfully retrieved with no additional damage to the well. The pump and all sampling lines were discarded (see Photograph 2).

Letter to Rusty Lundberg
July 2, 2014
Page 3

- After the pump was removed, the well opening was covered to prevent any further debris from falling into the well (see Photograph 4).
- The 2 PVC casings and the sealing concrete were cut with a utility saw to provide a straight edge for the repairs (see Photographs 5 and 6).
- The inner 4-inch casing was repaired using a "slip cap" to join the old casing and the new casing (see Photographs 7 and 8). Glues and adhesives were not used when joining the casings and slip cap.
- A new piece of 10-inch outer PVC casing was added to the well (see Photograph 9). The new casing was joined to the old casing using a "bell joint". Glues and adhesives were not used when joining the casings.
- Well plug (cement) was added between the 4-inch and 10-inch casing (see Photograph 10).
- A new outer steel protective casing was added.
- On June 5, 2014, Bayles Exploration removed the debris in the bottom of the well resulting from the damage. The Environmental Staff then overpumped the well and removed over 4 casing volumes to redevelop the well (Attachment A).
- The new measuring point on the top of the casing ("TOC") was surveyed by a Registered Utah Land Surveyor (Attachment B).
- The well was sampled and the routine, second quarter sample was collected on June 18, 2014.

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

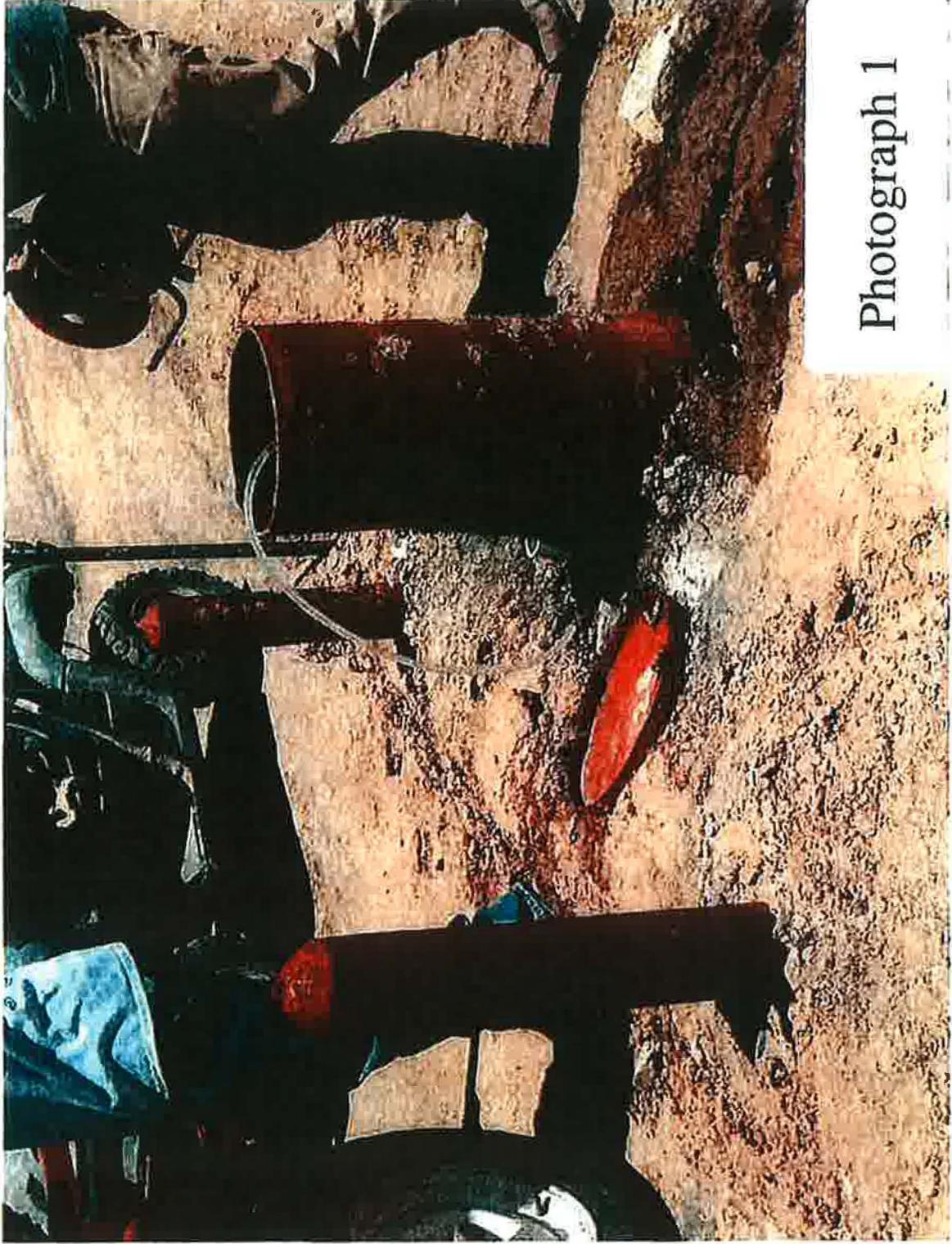
Yours very truly,



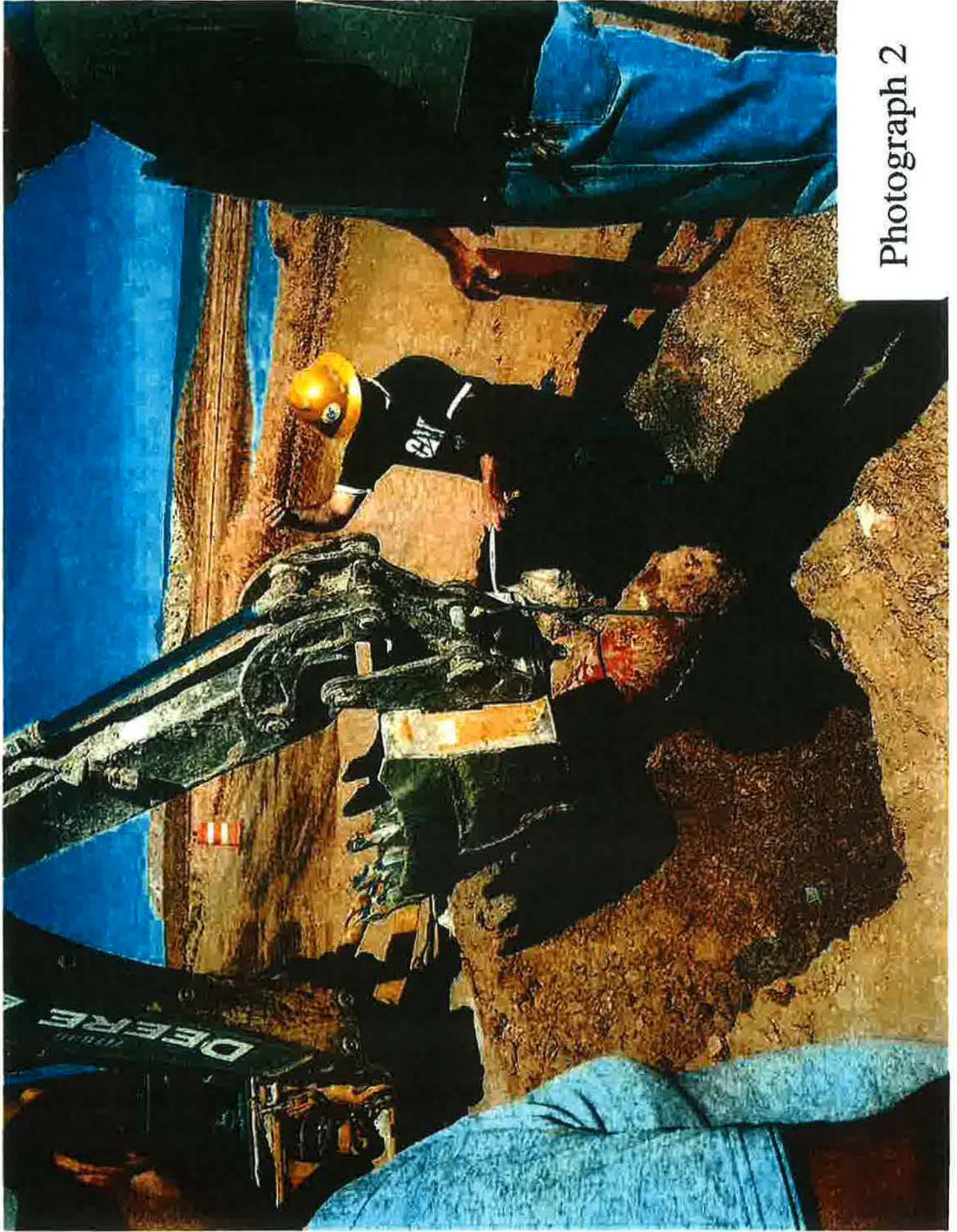
ENERGY FUELS RESOURCES (USA) INC.
Kathy Weinel
Quality Assurance Manager

cc: David C. Frydenlund
Harold R. Roberts
David E. Turk
Dan Hillsten

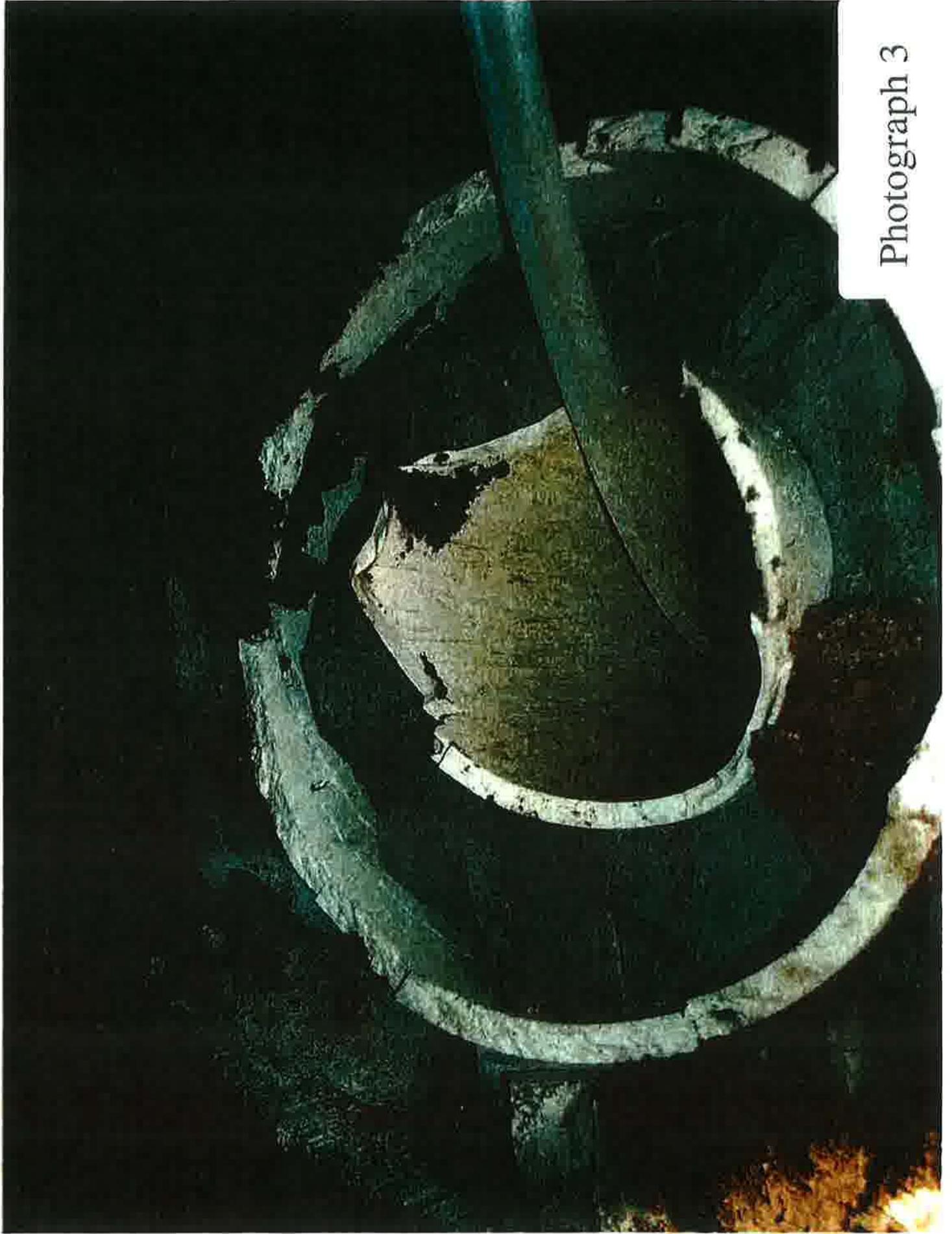
Photographs



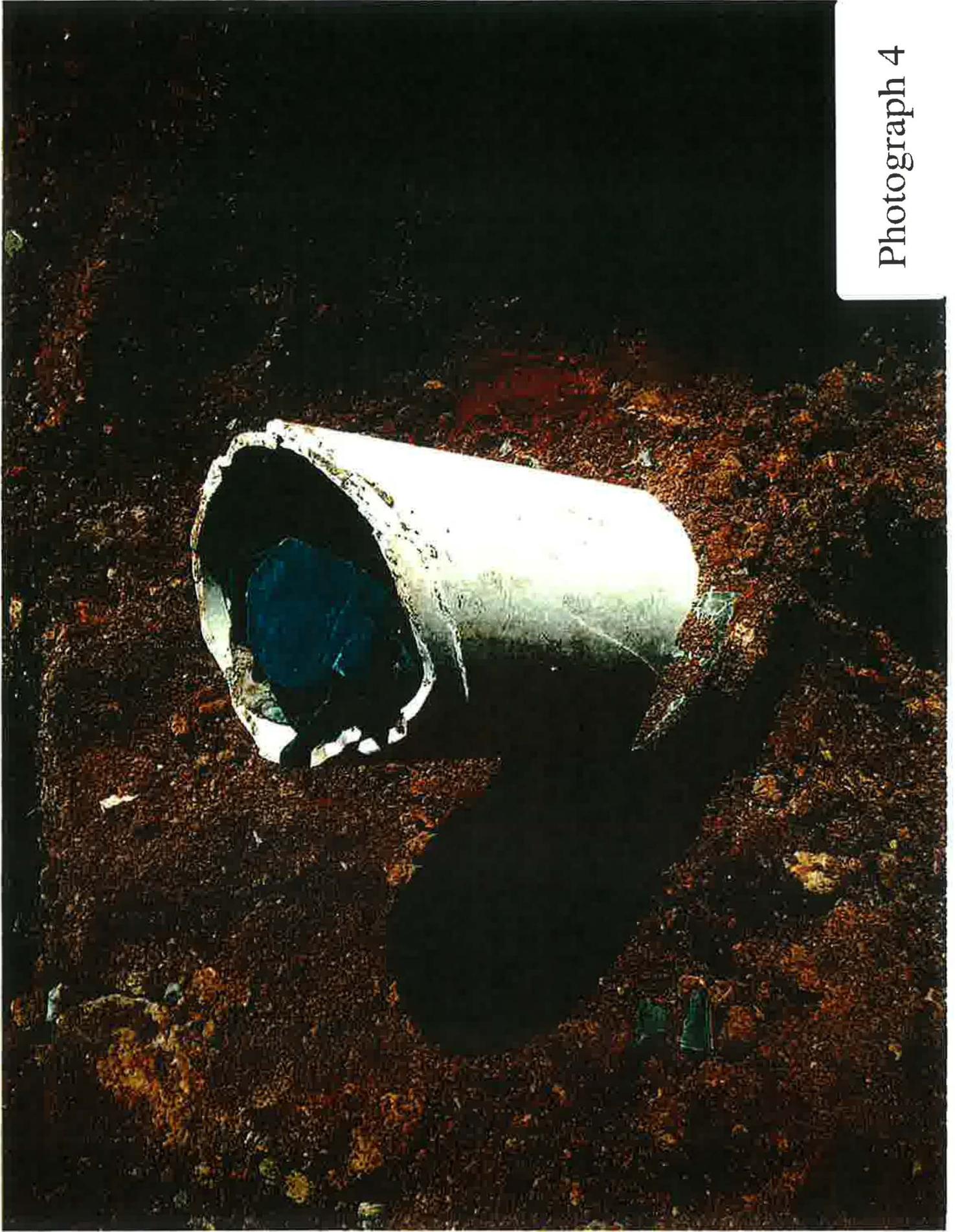
Photograph 1



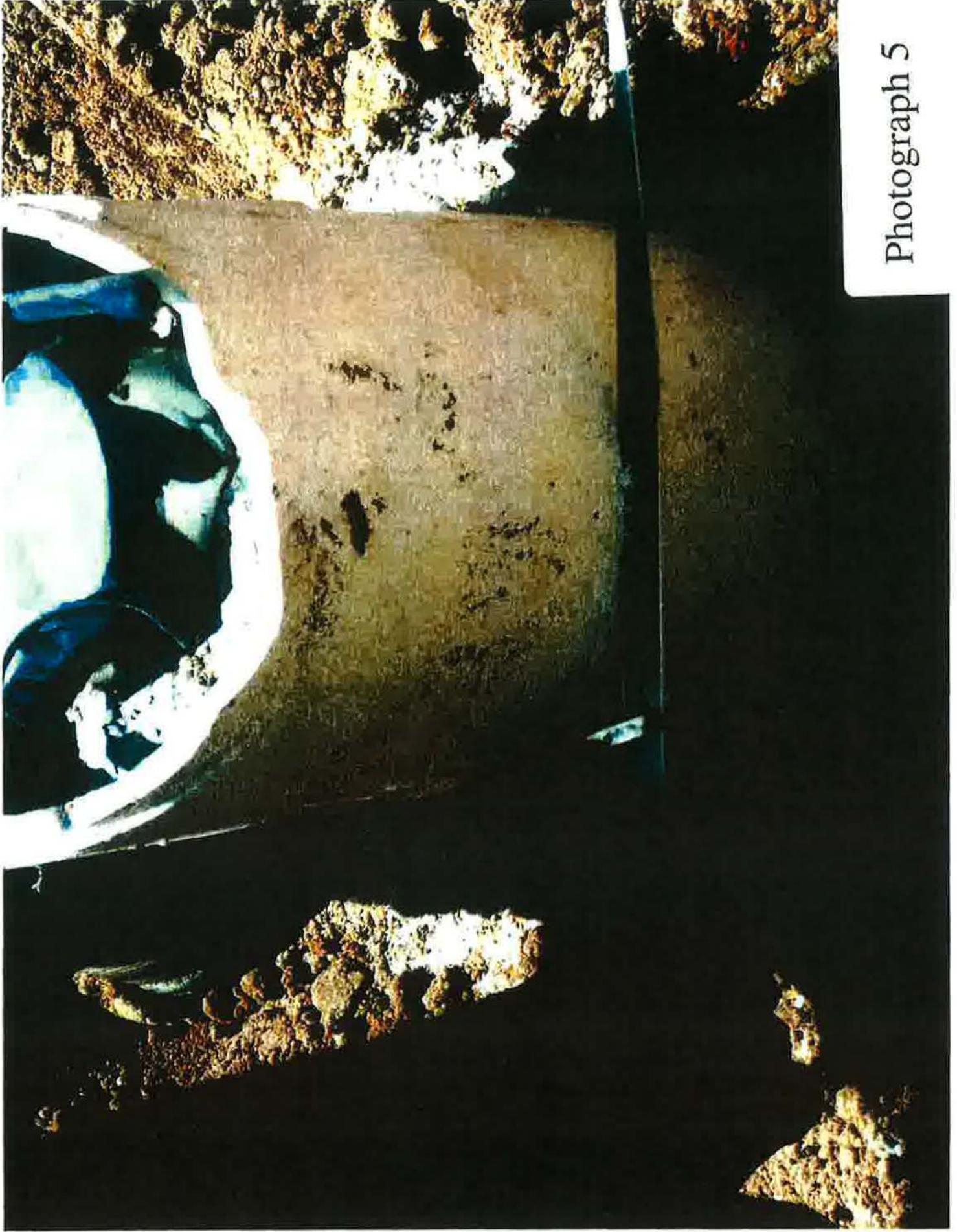
Photograph 2



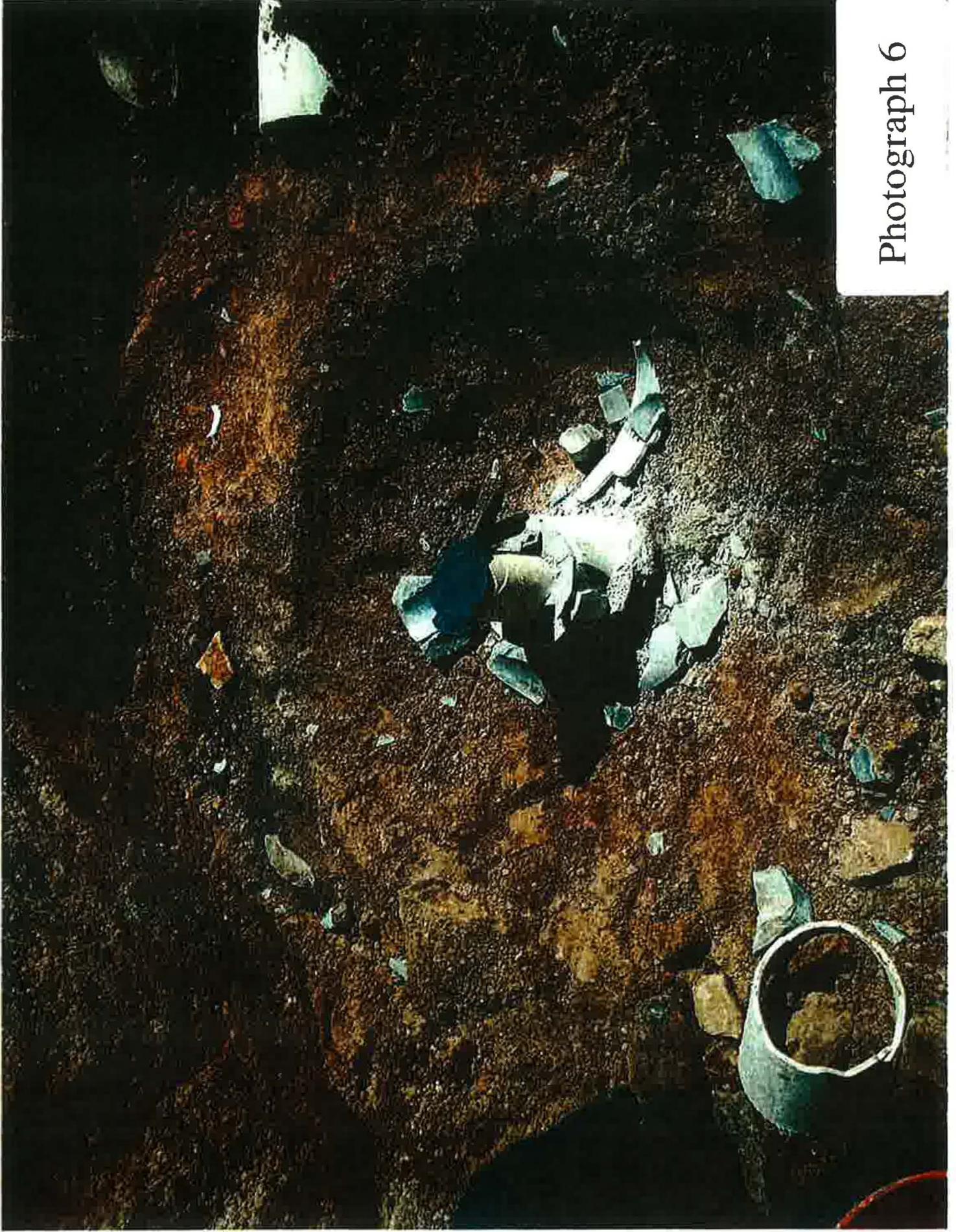
Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



Photograph 9



Photograph 10

Attachment A

Attachment B



Energy Fuels Resources (USA) Inc.
850 East Highway 89A, PO Box 897
Fredonia, AZ 86022
928 643 6185, fax 928 643 6186
www.energyfuels.com

June 12, 2014

Energy Fuels Resources (USA) Inc.
c/o Garrin Palmer
6425 South Highway 191
P.O. Box 809
Blanding, Utah 84511

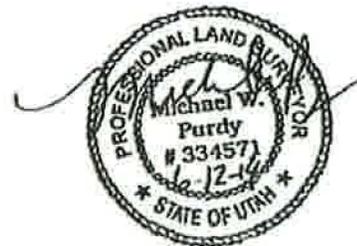
Garrin,

Attached are the following:

1. Monitoring Wells May 2014

SURVEYOR'S CERTIFICATE

I, Michael W. Purdy a Registered Utah Land Surveyor do hereby certify that I hold a license in accordance with title 58, chapter 22, professional engineers and land surveyors licensing act, Utah code annotated, 1953 as amended, certificate no. 334571. I further certify that these reports correctly show a survey made under my direct supervision.



Energy Fuels Resources - Monitoring Well Information - June 2014

Coordinate System: Modified Utah State Plane - NAD83 - South Zone - US Survey Feet

Well #	Northing	Easting	Using Fisher Survey Vertical Datum	
			Top Casing Elev.	Ground Elev.
MW-28	10164465.69	2217615.744	5619.78	5618.33



ATTACHMENT 2
Historic Results for MW-28

MW-28 Historical Data

Parameter Name	Date Sampled	Report Result	Report Units	Lab Qualifier
Cadmium	6/21/2005	3.4	ug/L	
	9/22/2005	1.58	ug/L	
	12/14/2005	4.68	ug/L	
	3/22/2006	4.22	ug/L	
	6/23/2006	2.68	ug/L	
	9/12/2006	3.94	ug/L	
	10/24/2006	3.94	ug/L	
	3/15/2007	1.84	ug/L	
	6/20/2007	3.27	ug/L	
	8/28/2007	3.34	ug/L	
	10/23/2007	3.36	ug/L	
	3/12/2008	3.33	ug/L	
	3/12/2008	3.4	ug/L	
	6/3/2008	3.22	ug/L	
	8/6/2008	3.42	ug/L	
	11/5/2008	3.87	ug/L	
	2/4/2009	3.66	ug/L	
	5/12/2009	3.9	ug/L	
	8/17/2009	3.8	ug/L	
	10/12/2009	4.39	ug/L	
	1/19/2010	4.01	ug/L	
	4/19/2010	4.2	ug/L	
	11/12/2010	4.11	ug/L	
	4/11/2011	4.13	ug/L	
	10/5/2011	3.99	ug/L	
	5/8/2012	3.85	ug/L	
	11/14/2012	4.37	ug/L	
	5/15/2013	4.61	ug/L	
12/4/2013	4.74	ug/L		
6/18/2014	5.41	ug/L		
9/16/2014	4.7	ug/L		

MW-28 Historical Data

Parameter Name	Date Sampled	Report Result	Report Units	Lab Qualifier
Uranium	6/21/2005	3.22	ug/L	
	9/22/2005	3.75	ug/L	
	12/14/2005	3.46	ug/L	
	3/22/2006	3.89	ug/L	
	6/23/2006	4.89	ug/L	
	9/12/2006	3.36	ug/L	
	10/24/2006	3.49	ug/L	
	3/15/2007	2.69	ug/L	
	6/20/2007	4.56	ug/L	
	8/28/2007	3.67	ug/L	
	10/23/2007	3.4	ug/L	
	3/12/2008	3.21	ug/L	
	3/12/2008	3.17	ug/L	
	6/3/2008	3.46	ug/L	
	8/6/2008	3.15	ug/L	
	11/5/2008	3.55	ug/L	
	2/4/2009	3.42	ug/L	
	5/12/2009	3.34	ug/L	
	8/17/2009	3.24	ug/L	
	10/12/2009	3.46	ug/L	
	1/19/2010	3.51	ug/L	
	4/19/2010	3.36	ug/L	
	11/12/2010	3.45	ug/L	
	4/11/2011	3.29	ug/L	
	10/5/2011	3.19	ug/L	
	5/8/2012	3.44	ug/L	
	11/14/2012	3.45	ug/L	
	5/15/2013	3.58	ug/L	
	12/4/2013	3.34	ug/L	
	6/18/2014	61.3	ug/L	
9/16/2014	10.6	ug/L		

MW-28 Historical Data

Parameter Name	Date Sampled	Report Result	Report Units	Lab Qualifier
Vanadium	6/21/2005	20	ug/L	U
	9/22/2005	15	ug/L	U
	12/14/2005	15	ug/L	U
	3/22/2006	15	ug/L	U
	6/23/2006	15	ug/L	U
	9/12/2006	15	ug/L	U
	10/24/2006	15	ug/L	U
	3/15/2007	15	ug/L	U
	6/20/2007	15	ug/L	U
	8/28/2007	15	ug/L	U
	10/23/2007	15	ug/L	U
	3/12/2008	15	ug/L	U
	3/12/2008	15	ug/L	U
	6/3/2008	15	ug/L	U
	8/6/2008	15	ug/L	U
	11/5/2008	15	ug/L	U
	2/4/2009	15	ug/L	U
	5/12/2009	15	ug/L	U
	8/17/2009	15	ug/L	U
	10/12/2009	15	ug/L	U
	1/19/2010	15	ug/L	U
	4/19/2010	15	ug/L	U
	11/12/2010	15	ug/L	U
	4/11/2011	15	ug/L	U
	10/5/2011	15	ug/L	U
	5/8/2012	15	ug/L	U
	11/14/2012	15	ug/L	U
	5/15/2013	15	ug/L	U
12/4/2013	15	ug/L	U	
6/18/2014	109	ug/L		
9/16/2014	18.5	ug/L		