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November 20, 2013

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 3rd Quarter 2013 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 3rd Quarter of 2013 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,

Kathy Weinel

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

cc: David C. Frydenlund
Harold R. Roberts
David E. Turk
Jo Ann Tischler
Dan Hillsten
Central Files

White Mesa Uranium Mill

Groundwater Monitoring Report

State of Utah
Groundwater Discharge Permit No. UGW370004

3rd Quarter
(July through September)
2013

Prepared by:

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

November 20, 2013

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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 third quarter of 2013 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 (July through September), as discussed in the remainder of this section.

2.1.1 Groundwater Compliance Monitoring

Groundwater samples and field measurements collected during the quarter included both quarterly and accelerated monitoring. Accelerated monitoring is discussed below in Section 2.1.2. In this report, samples classified as being collected quarterly include those wells which are routinely sampled every quarter as well as semi-annual wells which are sampled on an accelerated quarterly schedule due to exceedances reported in previous quarterly reports. Wells which are sampled routinely every quarter 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 semi-annual wells which have been accelerated to quarterly are analyzed only for those parameters which exceeded the Groundwater Compliance Limits ("GWCLs") in Table 2 and Part I.E.1.c) 2)ii of the GWDP as described in previous reports.

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

2.1.2 Accelerated Groundwater Monitoring

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

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

2.1.3 Background Well Monitoring

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

The statistical methods used for the background assessments and calculation of the GWCLs are based on the United States Environmental Protection Agency's ("USEPA") *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance* (USEPA, 2009), as approved by the Utah Division of Radiation Control ("DRC").

In well MW-35, preliminary statistics of the analytical data have been analyzed every quarter since the completion of 8 quarters of sampling. The preliminary statistical results indicate 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 until 8 statistically valid data points were available for every analyte. As of the third quarter 2013, there are 8 statistically valid data points for the GWDP analytes in monitoring well MW-35.

With the completion of the third quarter 2013 sampling event, there are 9 quarters of data for MW-36 and MW-37. Preliminary statistics again indicate that due to extreme values, EFRI is lacking 8 statistically valid data points for the GWDP analytes in MW-36 and MW-37.

EFRI contacted DRC on June 17, 2013 regarding the completion of the background reports, specifically to inform DRC there was sufficient statistically valid data for MW-35, but not for MW-36 or MW-37. An e-mail from DRC dated June 17, 2013, agreed that the background report for MW-35 should be included in the background report with MW-36 and MW-37, and that a separate background report for MW-35 should not be submitted at this time. DRC agreed that the background report for MW-35, MW-36 and MW-37 should be combined into a single report and completed after there are 8 statistically valid data points for both MW-36 and MW-37.

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 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 (sampled in July) 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 August and September 2013 accelerated monthly monitoring and sampling efforts.

2.3 Laboratory Results - Quarterly Sampling

2.3.1 Copy of Laboratory Results

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

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

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

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

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

2.3.2 Regulatory Framework and Groundwater Background

Under the GWDP dated August 24, 2012, background groundwater quality has been determined on a well-by-well basis, as defined by the mean plus second standard deviation concentration or the equivalent. GWCLs that reflect this background groundwater quality have been set for compliance monitoring wells except MW-35, MW-36, and MW-37. It is important to note that the GWDP dated February 15, 2011 also set GWCLs for MW-35. The GWCLs for MW-35 have been set at one-quarter of the Utah Groundwater Quality Standard, pending determination of background for the well, and are not based on eight quarters of data from that well. A background report for MW-35, MW-36 and MW-37 will be completed after the collection of eight quarters of statistically valid data for the GWDP constituents at each of these wells.

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

Exceedances of the GWCLs for this quarter are listed in Table 2 for sampling required under the revised GWDP dated August 24, 2012. Accelerated requirements resulting from the Q3 2013 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 effective on January 20, 2010, and the effect of the issuance of the revised GWDP was to create a "clean slate" for all constituents in all wells going forward.

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

2.4.3 Compliance Status

Analytes that have exceeded the GWCLs set forth in the GWDP are summarized in Table 2. The analytes which exceeded their respective GWCLs during the quarter will be sampled on an accelerated schedule as noted in Table 2. A review of the accelerated data collected during the quarter indicate that several analytes have exceeded their respective GWCLs for two consecutive sampling periods as reported in EFRI's letter to DRC on November 15, 2013. Table 3 summarizes the results of the accelerated sampling program from first quarter 2010 through third quarter 2013.

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 November

15, 2013 for the third quarter 2013 results. The summary in the Exceedance Notice includes, for each exceedance, a brief discussion of whether such a plan and schedule is required at this time in light of other actions currently being undertaken by EFRI. The determination of whether a Plan and Time Schedule is required is based on discussions with DRC Staff in teleconferences on April 27 and May 2, 2011 and the constituents covered by previously submitted Source Assessment Reports.

2.5 Depth to Groundwater and Water Table Contour Map

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

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

3.0 QUALITY ASSURANCE AND DATA VALIDATION

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

The Analytical Laboratories have provided summary reports of the analytical QA/QC measurements necessary to maintain conformance with National Environmental Laboratory Accreditation Conference certification and reporting protocol. The analytical laboratory QA/QC Summary Reports, including copies of the Mill's Chain-of-Custody ("COC") and Analytical Request Record forms for each set of Analytical Results, follow the analytical results under Tabs E and F. Review of the laboratory QA/QC information is provided under Tab G and discussed in Section 3.4, below.

3.1 Field QC Samples

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

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

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

Two 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-37 have dedicated pumps for purging and sampling and as such no rinsate blanks samples are required. MW-37 was sampled with a disposable bailer and no rinsate blank was required. A deionized field blank was not required because equipment decontamination was not required and deionized water was not used during this sampling event.

3.2 Adherence to Mill Sampling SOPs

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

3.3 Analyte Completeness Review

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

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.

One item was noted during the QA/QC review of the analytical data. The request to analyze uranium in the MW-30 September monthly accelerated sample was inadvertently omitted from the COC. The QA Manager noted the omission and alerted the laboratory while the sample was still within holding time. The laboratory completed the analysis as required within the holding time. No loss of data resulted from this omission and the analyses were completed as required.

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 three wells that were purged to dryness: MW-03A, 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-37. MW-37 was evacuated to dryness before two casing volumes could be removed. MW-37 has insufficient water to purge using a pump. Due to the small volume of water present, this well is purged and sampled using a disposable

bailer. MW-37 conformed to the QAP, Revision 7.2 requirement for sampling low yield wells which includes the collection of three field parameters (pH, specific conductance ["conductivity"] and temperature) immediately prior to and immediately following sample collection. Stabilization of pH, conductivity and temperature were within the 10% RPD required by QAP, Revision 7.2. MW-03A and MW-24 were purged to dryness after 2 casing volumes were removed and the low yield sampling procedures were used for the collection of field parameters. Stabilization of pH, conductivity and temperature were within the 10% RPD required by QAP, Revision 7.2 for wells MW-03A and MW-24.

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

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

- Turbidity measurements were less than 5 NTU for the quarterly and semi-annual wells except MW-19, MW-23, MW-29, and MW-32. Per the QAP, Revision 7.2, Attachment 2-3, turbidity measurements prior to sampling were within a 10% RPD for the quarterly and semi-annual wells.

- Turbidity measurements were less than 5 NTU for the accelerated sampling wells except MW-35 in the August event and MW-11 and MW-25 in the September monthly event. As previously noted, the QAP does not require that turbidity be less than 5 NTU. Turbidity measurements prior to sampling were within a 10% RPD for the accelerated sampling wells

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

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

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

3.4.2 Holding Time Evaluation

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

3.4.3 Receipt Temperature Evaluation

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

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

3.4.4 Analytical Method Checklist

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

3.4.5 Reporting Limit Evaluation

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

It should be noted that in the GEL data, the reporting limit is shown under the heading "CRDL" (client required reporting limit) in the hardcopy data packages included in Tabs E and F.

3.4.6 Trip Blank Evaluation

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

3.4.7 QA/QC Evaluation for Routine Sample Duplicates

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

The duplicate results were within a 20% RPD in the quarterly and semi-annual samples. Results of the RPD test are provided under Tab G.

The duplicate results were within a 20% RPD in the monthly accelerated samples. Results of the RPD test are provided under Tab G.

3.4.8 Radiologics Counting Error and Duplicate Evaluation

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

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 no detections of any analyte except toluene. The toluene sample results associated with this method blank were nondetect. While the sample results were not an order of magnitude greater than the method blank as specified in the QAP, the sample results were an order of magnitude below the method blank. The sample results were not affected by the method blank detection because there were no positive detections reported for toluene in any of the samples in the analytical batch. The data are compliant with the intent of the QAP i.e., that sample results are not affected by method blank detections. Method blank results are included in Tab E.

4.0 CORRECTIVE ACTION REPORT

Necessary corrective actions identified during the current monitoring period are described below, in accordance with Part I.F.1.e of the GWDP.

4.1 Identification and Definition of the Problem

The problem identified was:

The monthly accelerated monitoring conducted in the September 2013 did not include the request to analyze uranium in MW-30.

It is important to note that although this analyte was omitted from the COC, the sample was analyzed within holding time for uranium. The missed analyte was noted during the QA/QC process implemented by the QA Manager as the result of the previous corrective actions.

4.2 Assignment of Responsibility for Investigating the Problem

This issue was investigated by the QA Manager as a result of the omission of uranium in the June 2013 monthly sampling event.

4.3 Investigation and Determination of Cause of the Problem

The analyte for the monthly accelerated program was inadvertently omitted from the COC in June 2013 due to a transcription error. The QA Manager provided electronic COCs to the Field Staff. The issue was not repeated in the next monthly sampling event (August 2013). However, the omission was repeated in September 2013. The QA Manager investigated the omission and noted that the during the September monthly sample event, the Mill was without power due to severe weather events (hail/rainstorms). The electronic COCs provided by the QA Manager were unavailable. Due to holding time requirements for the September monthly samples, COCs were completed by hand and the uranium was omitted.

4.4 Determination of a Corrective Action to Eliminate the Problem

The omission of the analytes from the June monthly event prompted the QA Manager to prepare electronic COCs for quarterly and accelerated sampling events. The COCs will be updated at the time the exceedance reports are completed. In addition, the QA Manager will make sure hard copies of the COCs are available in the event that power issues preclude the use of the electronic COCs.

4.5 Assigning and Accepting Responsibility for Implementing the Corrective Action

It will be the responsibility of the QA Manager to implement the corrective action.

4.6 Implementing the Corrective Action and Evaluating Effectiveness

Implementation of the corrective action for the COCs will began in the third quarter 2013.

4.7 Verifying That the Corrective Action Has Eliminated the Problem

Verification of the electronic COC procedure occurred after the third quarter 2013 samples were collected and the data were received and reviewed. The electronic COCs were effective in eliminating routine omissions of constituents, however, power outages are not scheduled events and effectiveness of a hard copy backup will be completed in the future, in the event of an unscheduled power outage.

4.8 Assessment of Corrective Actions from Previous Period

The second quarter 2013 groundwater report identified a corrective action for missed accelerated monitoring for uranium in MW-30 in June 2013. To address this omission, the QA Manager implemented electronic COCs based on the exceedances reported in the previous quarter. No accelerated samples were missed during the first monthly sampling event in the third quarter 2013. However, when the electronic system was not available, a constituent was omitted from the analyte list. A second part of the corrective action has been implemented that provides hard copy backup of the COCs to address unscheduled power outages. This corrective action is considered closed until and unless there are unscheduled power outages in the future.

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 November 20, 2013.

ENERGY FUELS RESOURCES (USA) INC.

By:

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

Certification:

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

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

Tables

Table 1: Summary of Well Sampling for Q3 2013

Well	Normal Frequency	Purpose for sampling this quarter	Sample Date	Date of Lab Report
MW-01	Semi-annually	Semi-annually	7/23/2013	*(8/13/13)*
MW-03	Semi-annually	Semi-annually	7/18/2013	*(8/13/13)*
MW-03A	Semi-annually	Semi-annually	7/19/2013	*(8/13/13)*
MW-05	Semi-annually	Semi-annually	7/18/2013	*(8/13/13)*
MW-11	Quarterly	Quarterly	7/10/2013	*(7/31/13) [7/25/13]*
MW-12	Semi-annually	Semi-annually	7/17/2013	*(7/22/13)* (8/27/13)
MW-14	Quarterly	Quarterly	7/11/2013	*(7/22/13)* (8/27/13) *[7/25/13]*
MW-15	Semi-annually	Semi-annually	7/18/2013	*(8/13/13)*
MW-18	Semi-annually	Semi-annually	7/15/2013	*(7/31/13)*
MW-19	Semi-annually	Semi-annually	7/15/2013	*(7/31/13) [8/17/13]*
MW-23	Semi-annually	Semi-annually	7/18/2013	*(7/31/13)*
MW-24	Semi-annually	Semi-annually	7/19/2013	*(8/13/13)*
MW-25	Quarterly	Quarterly	7/10/2013	*(7/22/13)* (8/27/13) *[7/25/13]*
MW-26	Quarterly	Quarterly	7/11/2013	*(7/22/13)* (8/27/13) *[7/25/13]*
MW-27	Semi-annually	Semi-annually	7/17/2013	*(7/31/13) [8/17/13]*
MW-28	Semi-annually	Semi-annually	7/17/2013	*(7/31/13)*
MW-29	Semi-annually	Semi-annually	7/17/2013	*(7/31/13)*
MW-30	Quarterly	Quarterly	7/10/2013	*(7/22/13)* (8/27/13) *[7/25/13]*
MW-31	Quarterly	Quarterly	7/9/2013	*(7/22/13)* (8/27/13) *[7/25/13]*
MW-32	Semi-annually	Semi-annually	7/9/2013	*[7/25/13]*
MW-35	Quarterly	Background	7/9/2013	*(7/22/13)* (8/27/13) *[7/25/13]*
MW-36	Quarterly	Background	7/10/2013	*(7/22/13)* (8/27/13) *[7/25/13]*
MW-37	Quarterly	Background	7/23/2013	*(8/13/13) [8/12/13]*
MW-65	1 per Batch	Duplicate of MW-29	7/17/2013	*(7/31/13)*
MW-70	1 per Batch	Duplicate of MW-15	7/18/2013	*(8/13/13)*
Accelerated August Monthly				
MW-11	Monthly	Accelerated	8/20/2013	*(9/3/13)*
MW-14	Monthly	Accelerated	8/20/2013	*(9/3/13)*
MW-25	Monthly	Accelerated	8/19/2013	*(9/3/13)*
MW-26	Monthly	Accelerated	8/20/2013	*(9/3/13)*
MW-30	Monthly	Accelerated	8/20/2013	*(9/3/13)*
MW-31	Monthly	Accelerated	8/19/2013	*(9/3/13)*
MW-35	Monthly	Accelerated	8/19/2013	*(9/3/13) [9/11/13]*
MW-65	Monthly	Duplicate of MW-11	8/20/2013	*(9/3/13)*
Accelerated September Monthly				
MW-11	Monthly	Accelerated	9/18/2013	*(10/4/13)* (10/28/13)
MW-14	Monthly	Accelerated	9/19/2013	*(10/4/13)* (10/28/13)
MW-25	Monthly	Accelerated	9/17/2013	*(10/4/13)* (10/28/13)
MW-26	Monthly	Accelerated	9/18/2013	*(10/4/13)* (10/28/13)
MW-30	Monthly	Accelerated	9/18/2013	*(10/4/13)* (10/28/13)
MW-31	Monthly	Accelerated	9/17/2013	*(10/4/13)* (10/28/13)
MW-35	Monthly	Accelerated	9/17/2013	*(10/4/13)* (10/28/13) *[10/17/2013]*
MW-65	1 per Batch	Duplicate of MW-25	9/17/2013	*(10/4/13)* (10/28/13)

Notes:

Dates in italics are the original laboratory submission dates. Resubmissions were required to correct reporting errors or to address reanalyses.

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

Date in brackets depicts the date the data were reported from GEL Laboratories.

Table 2
Exceedances and Acceleration Requirements

Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	First Result Exceeding the GWCL	Routine Sample Frequency	Accelerated Frequency	Exceedance Sample Period	Start of Accelerated Monitoring
Quarterly Wells Accelerated to Monthly Sampling[1]							
MW-11 (Class II)	Field pH (S.U.)	6.5 - 8.5	6.17	Quarterly	Monthly	April 2013	Septemebr 2013
	Manganese (ug/L)	131.29	134	Quarterly	Monthly	Q1 2010	May 2010
MW-14 (Class III)	Manganese (ug/L)	2230.30	2360	Quarterly	Monthly	Q2 2012	August 2012
	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	6.57	Quarterly	Monthly	Q3 2010	January 2011
	Cadmium (ug/L)	1.5	1.56	Quarterly	Monthly	Q4 2012	March 2013
	Chloride (mg/L)	35	36.1	Quarterly	Monthly	Q1 2013	June 2013
	Fluoride (mg/L)	0.42	0.534	Quarterly	Monthly	Q3 2013	December 2013
	Field pH (S.U.)	6.5 - 8.5	6.47	Quarterly	Monthly	Q4 2012	February 2013
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1.3	Quarterly	Monthly	Q1 2010	May 2010
	Uranium (ug/L)	41.8	58.7	Quarterly	Monthly	Q1 2010	May 2010
	Chloroform (ug/L)	70	700	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	58.31	72	Quarterly	Monthly	Q1 2010	May 2010
	Methylene Chloride (ug/L)	5	9.9	Quarterly	Monthly	Q2 2010	June 2010
	Field pH (S.U.)	6.74 - 8.5	6.59	Quarterly	Monthly	Q1 2010	May 2010
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	16.1	Quarterly	Monthly	Q1 2010	May 2010
	Chloride (mg/L)	128	134	Quarterly	Monthly	Q1 2011	May 2011
	Uranium (ug/L)	8.32	8.36	Quarterly	Monthly	Q1 2013	June 2013
	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	6.37	Quarterly	Monthly	April 2013	Septemebr 2013
	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
	Molybdenum (ug/L)	10	30.4	Quarterly	Monthly	Q4 2012	March 2013
	Manganese (ug/L)	200	369	Quarterly	Monthly	Q3 2011	July 2011
Semi-Annual Wells Accelerated to Quarterly Sampling[1]							
Monitoring Well (Water Class)	**Constituent Exceeding GWCL**	**GWCL in Current GWDP**	**First Result Exceeding the GWCL**	**Sample Frequency**	**Accelerated Frequency**	**Exceedance Sample Period**	**Start of Accelerated Monitoring**
MW-1 (Class II)	Tetrahydrofuran (ug/L)	11.5	21.8	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Sulfate (mg/L)	838	846	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Manganese (ug/L)	289	315	Semi-Annually	Quarterly	Q4 2012	Q1 2013
MW-3 (Class III)	Selenium (ug/L)	37	37.2	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	6.14 (6.25)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Fluoride (mg/L)	0.68	0.71	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-3A (Class III)	Field pH (S.U.)	6.5 - 8.5	6.23 (6.24)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Sulfate (mg/L)	3640	3680	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	TDS (mg/L)	5805	5860	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Nitrate + Nitrite (as N) (mg/L)	1.3	1.31	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Selenium (ug/L)	89	94.8	Semi-Annually	Quarterly	Q4 2010	Q1 2011
MW-5 (Class II)	Uranium (ug/L)	7.5	11.6	Semi-Annually	Quarterly	Q4 2010	Q1 2011
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	6.47	Semi-Annually	Quarterly	Q4 2010	Q1 2011
	Selenium (ug/L)	25	25.7	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-15 (Class III)	Selenium (ug/L)	128.7	152	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Iron (ug/L)	81.7	137	Semi-Annually	Quarterly	Q4 2011	Q1 2012
MW-18 (Class III)	Thallium (ug/L)	1.95	3.73	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Sulfate (mg/L)	1938.9	1950	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.25-8.5	6.2	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	TDS (mg/L)	3198.77	3280	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-19 (Class III)	Nitrate + Nitrite (as N) (mg/L)	2.83	4	Semi-Annually	Quarterly	Q4 2011	Q1 2012
	Gross Alpha minus Rn & U (pCi/L)	2.36	4.86	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Field pH (S.U.)	6.78-8.5	6.61 (6.66)	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-23 (Class III)	Manganese (ug/L)	550	551	Semi-Annually	Quarterly	Q4 2011	Q1 2012
	Field pH (S.U.)	6.5 - 8.5	6.18	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-24 (Class III)	Cadmium (ug/L)	2.5	4.28	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Fluoride (mg/L)	0.36	0.558	Semi-Annually	Quarterly	Q4 2012	Q1 2013
	Thallium (ug/L)	1	1.3	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.5 - 8.5	5.91 (5.78)	Semi-Annually	Quarterly	Q2 2010	Q3 2010

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-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	5.8	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Chloride (mg/L)	38	42	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Gross Alpha minus Rn & U (pCi/L)	2	2.4	Semi-Annually	Quarterly	Q4 2010	Q1 2011
	Field pH (S.U.)	6.5 - 8.5	6.39	Semi-Annually	Quarterly	Q3 2011	Q4 2011
	TDS (mg/L)	1075	1160	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-28 (Class III)	Chloride (mg/L)	105	108	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Manganese (ug/L)	1837	1850	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Field pH (S.U.)	6.1 - 8.5	5.67	Semi-Annually	Quarterly	Q2 2010	Q3 2010
MW-29 (Class III)	Field pH (S.U.)	6.46 - 8.5	6.17	Semi-Annually	Quarterly	Q4 2010	Q2 2011
	Manganese (ug/L)	5624	6140	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	TDS (mg/L)	4400	4600	Semi-Annually	Quarterly	Q2 2012	Q3 2012
	Iron (ug/L)	1869	3010	Semi-Annually	Quarterly	Q3 2011	Q4 2011
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	5.4	Semi-Annually	Quarterly	Q2 2010	Q3 2010
	Field pH (S.U.)	6.4 - 8.5	6.03	Semi-Annually	Quarterly	Q2 2010	Q3 2010

Notes:

[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. Sampled were recollected due field or laboratory problems as noted in the specific report for that sample period.

Highlighted text shows accelerated requirements resulting from Q3 2013 sampling event.

Table 3 – GWCL Exceedances 2010 to Present

			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)	Field pH (S.U.)	6.5 - 8.5	2/10/2010	7.34	4/28/2010	7.22	5/24/2010	7.29	6/16/2010	8.21	7/20/2010	7.51	8/25/2010	7.32	9/8/2010	8.34	10/20/2010	7.49	11/11/2010	7.44	12/15/10	7.37
	Manganese (ug/L)	131.29		134		137		122		99		123		138		128		141		133		158
MW-14 (Class III)	Manganese (ug/L)	2230.30	2/2/2010	2060	4/21/2010	2070	5/21/2010	NA	6/16/2010	NA	7/20/2010	NA	8/25/2010	NA	9/8/2010	1920	10/20/2010	NA	11/10/2010	1980	12/15/2010	NA
	Field pH (S.U.)	6.5 - 8.5		6.45		6.29		6.36		6.45		7.19		6.48		6.51		6.60		6.37		6.47
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	2/3/2010	6.53	4/28/2010	7.2	NS	NA	NS	NA	NS	NA		NA	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
	Chloride (mg/L)	35		31		31		NA		NA		NA		NA		31		NA		31		NA
	Fluoride (mg/L)	0.42		0.31		0.33		NA		NA		NA		NA		0.34		NA		31		NA
	Uranium	6.5		5.93		6.43		NA		NA		NA		NA		6.57		NA		5.89		NA
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	2/2/2010	1.3	4/22/2010	2	5/21/2010	0.3	6/16/2010	0.4	7/21/2010	0.6	8/16/2010	0.6	9/26/2010	0.7	10/20/2010	0.4	11/15/2010	0.2	12/15/2010	0.4
	Uranium (ug/L)	41.8		58.7		66.7		37.4		36.6		34.4		71.8		72.7		37.5		30.4		29.6
	Chloroform (ug/L)	70		700		1700		800		940		900		2800		2100		1000		1900		1400
	Chloride (mg/L)	58.31		72		57		80		47		52		49		64		52		48		52
	Field pH (S.U.)	6.74 - 8.5		6.59		7.18		6.36		6.98		6.45		6.39		6.60		6.61		6.49		6.45
	Dichloromethane (Methylene Chloride) (ug/L)	5		1		9.9		NR		2.2		12		24		45		5.5		16		1.2
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	2/9/2010	16.1	4/27/2010	15.8	5/21/2010	17	6/15/2010	15.3	7/21/2010	16	8/24/2010	16	9/14/2010	15	10/19/2010	15	11/9/2010	15	12/14/2010	16
	Chloride (mg/L)	128		127		97		NS		NS	NS	NS	NS	NS		111		NS		126		NS
	Uranium (ug/L)	8.32		6.82		6.82		NS		NS	NS	NS	NS	NS		7.10		NS		6.64		NS
	Selenium (ug/L)	34		32		35.3		NS		NS	7/27/2010	33.5	8/24/2010	35.6		32.6		32.4		32.2		30.5
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	2/9/2010	21.7	4/20/2010	22.5	5/21/2010	23	6/15/2010	21.1	7/21/2010	20	8/24/2010	22	9/13/2010 (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		1.14		NA
	Molybdenum (ug/L)	10		NA		NA		NA		NA		NA		NA		NA		NA		<10		NA
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		NA		NA		NA		NA		NA		NA		NA		2.6		NA
	Selenium (ug/L)	12.5		NA		NA		NA		NA		NA		NA		NA		NA		ND		NA
	Uranium (ug/L)	7.5		NA		NA		NA		NA		NA		NA		NA		NA		27.2		NA
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
	Sulfate (mg/L)	838		NA		805		NA		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		6.39		NA		6.35		NA
	Fluoride (Mg/L)	0.68		NA		0.71		NA		NA		NA		NA		0.63		NA		0.77		NA
MW-3A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	5/4/2010	6.23 (6.24)	NS	NA	NS	NA	NS	NA	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		NA
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.0		NA		NA		NA		NA		NA		NA		1.2		NA
	TDS (mg/L)	5805		NA		5860		NA		NA		NA		NA		5470		NA		5330		NA
	Selenium (ug/L)	89		NA		81.4		NA		NA		NA		NA		NS		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)	Field pH (S.U.)	6.5 - 8.5	NS	NA	4/27/2010	7.16	NS	NA	NS	NA	NS	NA	NS	NA	9/20/2010	6.62	NS	NA	11/19/2010	6.47	NS	NA
	Selenium (ug/L)	25		NA		25.7		NA		NA		NA		NA		31.9		NA		27.6		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
	Iron (ug/L)	81.7		NA		ND		NA		NA		NA		NA		NA		NA		ND		NA
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		NA		1930		NA		1910		NA
	Field pH (S.U.)	6.25-8.5		NA		6.2		NA		NA		NA		NA		7.23		NA		6.37		NA
	TDS (mg/L)	3198.77		NA		3280		NA		NA		NA		NA		3190		NA		3030		NA

			Q1 2010 Results		Q2 2010 Results						Q3 2010 Results						Q4 2010 Results					
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	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-19 (Class III)	Field pH (S.U.)	6.78-8.5	NS	NA	5/4/2010	6.61 (6.66)	NS	NA	NS	NA	NS	NA	NS	NA	9/15/2010	6.93	NS	NA	11/18/2010	6.8	NS	NA
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		0.9		NA		NA		NA		NA		NA		NA		1.2		NA
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		2.6		NA		NA		NA		NA		NA		NA		2.4		NA
MW-23 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	4/22/2010	6.18	NS	NA	NS	NA	NS	NA	NS	NA	9/14/2010	7.05	NS	NA	11/22/2010	6.44	NS	NA
	Manganese (ug/L)	550		NA		184		NA		NA		NA		NA		NS		NA		65		NA
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	5/6/2010	4.28	NS	NA	NS	NA	NS	NA	NS	NA	9/21/2010	5.06	NS	NA	11/17/2010	3.22	NS	NA
	Fluoride (Mg/L)	0.36		NA		0.14		NA		NA		NA		NA		NA		NA		0.18		NA
	Thallium (ug/L)	1		NA		1.3		NA		NA		NA		NA		1.57		NA		1.09		NA
	Field pH (S.U.)	6.5 - 8.5		NA		5.91 (5.78)		NA		NA		NA		NA		6.64		NA		6.1		NA
MW-27 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5.6	NS	NA	5/3/2010	5.8	NS	NA	NS	NA	NS	NA	NS	NA	9/14/2010	5.9	NS	NA	11/12/2010	5.7	NS	NA
	Chloride (mg/L)	38		NA		42		NA		NA		NA		NA		42		NA		45		NA
	Sulfate (mg/L)	462		NA		469		NA		NA		NA		NA		461		NA		452		NA
	Field pH (S.U.)	6.5-8.5		NA		6.78		NA		NA		NA		NA		7.68		NA		6.89		NA
	TDS (mg/L)	1075		NA		1160		NA		NA		NA		NA		1060		NA		1110		NA
	Gross Alpha minus Rn & U (pCi/L)	2		NA		1.6		NA		NA		NA		NA		NA		NA		2.4		NA
MW-28 (Class III)	Chloride (mg/L)	105	NS	NA	4/19/2010	108	NS	NA	NS	NA	NS	NA	NS	NA	9/14/2010	106	NS	NA	11/12/2010	107	NS	NA
	Manganese (ug/L)	1837		NA		1550		NA		NA		NA		NA		NA		NA		1510		NA
	Field pH (S.U.)	6.1 - 8.5		NA		5.67		NA		NA		NA		NA		5.91		NA		5.72		NA
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	4/27/2010	1630	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	11/9/2010	1490	NS	NA
	Manganese (ug/L)	5624		NA		4820		NA		NA		NA		NA				NA		4890		NA
	TDS (mg/L)	4400		NA		4400		NA		NA		NA		NA				NA		4390		NA
	Field pH (S.U.)	6.46 - 8.5		NA		6.82		NA		NA		NA		NA				NA		6.17		NA
MW-32 (Class III)	Gross Alpha minus Rn & U (pCi/L)	3.33	NS	NA	4/20/2010	4.5	NS	NA	NS	NA	NS	NA	NS	NA	9/13/2010	2.9	NS	NA	11/10/2010	8.8	NS	NA
	Field pH (S.U.)	6.4 - 8.5		NA		6.03		NA		NA		NA		NA		6.33		NA		6.05		NA

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

Table 3 – GWCL Exceedances 2010 to Present

			Q1 2011 Results						Q2 2011 Results						Q3 2011 Results						Q4 2011 Results					
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	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)	Field pH (S.U.)	6.5 - 8.5	1/11/2011	7.43	2/2/2011	7.47	3/15/2011	7.94	4/4/2011	7.50	5/10/2011	7.25	6/15/2011	6.86	7/6/2011	7.07	8/3/2011 8/30/11	7.25	9/7/2011	7.29	10/4/2011	7.52	11/9/2011	7.47	12/14/2011	7.88
	Manganese (ug/L)	131.29		121		145		68		148		170		121		151		118		106		112		105		100
MW-14 (Class III)	Manganese (ug/L)	2230.30	1/11/2011	NA	2/7/2011	2020	3/14/2011	NA	4/4/2011	2140	5/10/2011	NA	6/15/2011	NA	7/5/2011	NA	8/3/2011	1990	9/8/2011	NA	10/4/2011	1960	11/9/2011	NA	12/12/2011	NA
	Field pH (S.U.)	6.5 - 8.5		6.37		6.22		6.76		6.63		6.37		5.83		6.4		6.23		6.50		6.71 (6.82)		6.63		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 8/30/11	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	8/30/2012	1.19		NA		1.27		NA		NA
	Chloride (mg/L)	35		NA		30		NA		31		NA		NA		NA	8/3/2011	32		NA		32		NA		NA
	Fluoride (mg/L)	0.42		NA		0.31		NA		0.28		NA		NA		NA		0.31		NA		0.32		NA		NA
	Uranium	6.5		7.02		4.77		6.8		5.56		6.72		7.06		6.74		6.37		5.96		5.27		6.56		6.1
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/12/2011	0.2	2/16/2011	0.25	3/15/2011	0.6	4/1/2011	0.8	5/10/2011	0.4	6/20/2011	0.3	7/6/2011	0.9	8/3/2011 8/30/11	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
	Field pH (S.U.)	6.74 - 8.5		6.83		6.06		6.89		6.22		6.43		6.52		6.35		6.07 (6.58)		6.71		6.82		6.75		7.1
	Dichloromethane (Methylene Chloride) (ug/L)	5		<1.0		10		14		3.1		20		7		2.4		10		7.9		2.6		8.9		11
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/10/2011	15	2/1/2011	16	3/14/2011	17	4/11/2011	16	5/10/2011	16	6/20/2011	17	7/5/2011	17	8/3/2011	14	9/7/2011	16	10/4/2011	16	11/8/2011	16	12/12/2011	16
	Chloride (mg/L)	128		NS		134		NS		134		128		127		127		126		145		129		122		124
	Uranium (ug/L)	8.32		NS		5.97		NS		6.49		NS		NS		NS		8		NS		9.83		NS		NS
	Selenium (ug/L)	34		36.2		34.7		34		44.4		38.3		38.7		32.4		39.7		32.4		36.6		36.8		38
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/10/2011	19	2/1/2011	21	3/14/2011	22	4/1/2011	21	5/10/2011	20	6/20/2011	22	7/5/2011	22	8/2/2011	20	9/6/2011	21	10/3/2011	21	11/8/2011 (11/29/12)	21	12/12/2011	21
	TDS (mg/L)	1320		1240		1220		1250		1370		1290		1330		1280		1300		1300		1320		1290		1330
	Chloride (mg/L)	143		NS		145		NS		143		143		145		148		148		148		145		145		148
	Selenium (ug/L)	71		NS		64.6		NS		65.2		NS		NS		NS		66.2		NS		68.8		NS		NS
	Field pH (S.U.)	6.5 - 8.5		6.65		7.21		7.43		7.01		6.73		6.16!		6.64		6.67		7.03		7.28		7.01 (7.34)		7.46
	Sulfate (mg/L)	532		NS		538		531		503		512		540		532		537		541		539		552		530
MW-35 (Class II)	Manganese (ug/L)	200	NS	NA	2/15/2011	248	NS	NA	6/7/2011	369	NS	NA	NS	NA	7/20/11	348	8/30/2011	267	9/7/11	270	10/3/11	271	11/8/2011	283	12/14/11	247
	Thallium (ug/l)	0.5		NA		< 0.50		NA		< 0.50		NA		NA		NA		0.52		NA		0.57		< 0.50		0.63
	Molybdenum (ug/L)	10		NA		<10		NA		<10		NA		NA		NA		<10		NA		<10		NA		NA
	Gross Alpha minus Rn & U (pCi/L)	3.75		NA		2.6		NA		3.7		NA		NA		NA		4.5		NA		4.4		4.7		4.2
	Selenium (ug/L)	12.5		NA		ND		NA		ND		NA		NA		NA		9.3		NA		10.5		NA		NA
	Uranium (ug/L)	7.5		NA		12.7		NA		21.7		NA		NA		24.2		18.3		22.3		20.1		24		23.6
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		NA		NA		NA		7.82		NA		NA
	Sulfate (mg/L)	838		NA		NA		NA	4/11/2011	704		NA		NA		NA		NA		NA		713		NA		NA
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	2/15/2011	40.5	NS	NA	4/13/2011	45.4	NS	NA	NS	NA	NS	NA	8/10/2011	46	NS	NA	10/10/2011	46.7	NS	NA	NS	NA
	Field pH (S.U.)	6.5 - 8.5		NA		6.09		NA		6.46		NA		NA		NA		6.32		NA		6.53 (6.83)		NA		NA
	Fluoride (Mg/L)	0.68		NA		0.69		NA		0.68		NA		NA		NA		0.96		NA		0.91		NA		NA
MW-03A (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/16/2011	6.05	NS	NA	4/13/2011	6.58	NS	NA	NS	NA	NS	NA	8/11/2011	6.19	NS	NA	10/11/2011	6.5 (6.92)	NS	NA	NS	NA
	Sulfate (mg/L)	3640		NA		3730		NA		3350		NA		NA		NA		3560		NA		3750		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		NA		1.2		NA		NA		NA		NA		NA		1.1		NA		NA
	TDS (mg/L)	5805		NA		5770		NA		5720		NA		NA		NA		5810		NA		5630		NA		NA
	Selenium (ug/L)	89		NA		99		NA		85.8		NA		NA		NA		88.5		NA		95		NA		NA
MW-05	Uranium (ug/L)	7.5	NS	NA	2/14/2011	29.5	NS	NA	4/12/2011	7.16	NS	NA	NS	NA	NS	NA	8/9/2011	0.5	NS	NA	10/10/2011	4.52	NS	NA	NS	NA
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/15/2011	6.43	NS	NA	4/5/2011	6.67	NS	NA	NS	NA	NS	NA	8/9/2011	6.13	NS	NA	10/6/2011	6.7 (6.97)	NS	NA	NS	NA
	Selenium (ug/L)	25		NA		39		NA		21.7		NA		NA		NA		25.4		NA		35.4		NA		NA
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	NS	NA	NS	NA	4/12/2011	116	NS	NA	NS	NA	NS	NA	NS	NA	NS	NA	10/10/2011	112	NS	NA	NS	NA
	Iron (ug/L)	81.7		NA		NA		NA		<0.50		NA		NA		NA	NS	NA		NA		137		NA		NA
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 9/21/11	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		NA		1910		NA		2020		NA		NA
	Field pH (S.U.)	6.25-8.5		NA		6.27		NA		6.71		NA		NA		NA		5.95		NA		6.55 (6.63)		NA		NA
	TDS (mg/L)	3198.77		NA		3250		NA		3250		NA		NA		NA		3190		NA		3220		NA		NA

			Q1 2011 Results						Q2 2011 Results						Q3 2011 Results						Q4 2011 Results					
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	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-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		NA		0.5		NA		NA		NA		NA		NA		0.6		NA		NA
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		NS		NA		2.6		NA		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
	Manganese (ug/L)	550		NA		NS		NA		32		NA		NA		NA		NS		NA		***551***		NA		NA
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	2/10/2011	***2.78***	NS	NA	4/5/2011	***2.61***	NS	NA	NS	NA	NS	NA	8/4/2011	1.46	NS	NA	10/11/2011	1.78	NS	NA	NS	NA
	Fluoride (Mg/L)	0.36		NA		NA		NA		0.19		NA		NA		NA		NA		NA		0.36		NA		NA
	Thallium (ug/L)	1		NA		***1.42***		NA		***1.07***		NA		NA		NA		<0.50		NA		0.62		NA		NA
	Field pH (S.U.)	6.5 - 8.5		NA		***5.73***		NA		***6.12***		NA		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		***46***		NA		***43***		NA		NA		NA		***43***		NA		***44***		NA		NA
	Sulfate (mg/L)	462		NA		455		NA		442		NA		NA		NA		424		NA		456		NA		NA
	Field pH (S.U.)	6.5-8.5		NA		6.71		NA		6.79		NA		NA		NA		***6.39***		NA		7.17 (7.24)		NA		NA
	TDS (mg/L)	1075		NA		***1090***		NA		***1190***		NA		NA		NA		***1090***		NA		***1110***		NA		NA
	Gross Alpha minus Rn & U (pCi/L)	2		NA		0.7		NA		1.1		NA		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
	Manganese (ug/L)	1837		NA		NA		NA		1690		NA		NA		NA		NA		NA		1540		NA		NA
	Field pH (S.U.)	6.1 - 8.5		NA		***5.69***		NA		***6.01***		NA		NA		NA		***5.78***		NA		***6.07*** (6.11)		NA		NA
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	NS	NA	NS	NA	4/18/2011	***3010***	NS	NA	NS	NA	NS	NA	8/9/2011	1080	NS	NA	10/5/2011	1220	NS	NA	NS	NA
	Manganese (ug/L)	5624		NA	NS	NA		NA		4900		NA		NA		NA		NA		NA		4800		NA		NA
	TDS (mg/L)	4400		NA	NS	NA		NA		4080		NA		NA		NA		NA		NA		4280		NA		NA
	Field pH (S.U.)	6.46 - 8.5		NA	NS	NA		NA		***6.45***		NA		NA		NA		***6.20***		NA		6.52		NA		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 8/30/11	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		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 = Required and Not Reported
NA = Not Applicable
Exceedances are shown in yellow
Values in () parentheses are the field pH measurements for the resampled analyses.
! Values was below the GWCL. Field pH was monitored, tracked and reported for the required 8 quarters. The constituent was removed from accelerated reporting pursuant to the DRC latter dated 8/28/12.

Table 3 – GWCL Exceedances 2010 to Present

			Q1 2012 Results						Q2 2012 Results						Q3 2012 Results						Q4 2012 Results						
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 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	Sample Frequency
Required Quarterly Sampling Wells																											
MW-11 (Class II)	Field pH (S.U.)	6.5 - 8.5	1/26/2012	7.51	2/13/2012	7.59	3/13/2012	7.47	4/10/2012	7.66	5/8/2012	7.49	6/19/2012	7.82	7/11/2012	7.74	8/7/2012	7.43	9/19/2012	7.91	10/23/2012	7.39	11/12/2012	7.47	12/24/2012	7.46	Quarterly
	Manganese (ug/L)	131.29		102		154		121		132		127		122		135		166		130		161		138		137	Quarterly
MW-14 (Class III)	Manganese (ug/L)	2230.30	1/24/2012	NA	2/21/2012	1790	3/14/2012	NA	4/12/2012	NA	5/9/2012	2360	6/19/2012	NA	7/11/2012	2100	8/7/2012	2300	9/18/2012	2140	10/23/2012	2110	11/27/2012	2100	12/18/2012	1950	Quarterly
	Field pH (S.U.)	6.5 - 8.5		6.36		6.57		6.51		6.97		6.73		6.90		6.89		6.58		7.08		6.83		6.52		6.60	Quarterly
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	Quarterly
	Cadmium (ug/L)	1.5		NA		1.31		NA		NA		1.33		NA		1.24		NA		NA		NA		1.56		NA	Quarterly
	Chloride (mg/L)	35		NA		30		NA		NA		30		NA		33		NA		NA		NA		28.8		NA	Quarterly
	Fluoride (mg/L)	0.42		NA		0.34		NA		NA		0.32		NA		0.3		NA		NA		NA		0.298		NA	Quarterly
	Uranium	6.5		6.6		6.5		6.93		6.52		5.90		7.6		6.45		6.72		6.01		6.37		6.61		4.83	Quarterly
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	Quarterly
	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	Quarterly
	Chloroform (ug/L)	70		1900	2/15/2012	3300		2900		2900		1700		2400	8/16/2012	970		2200		2300		4720		4020		1250	Quarterly
	Chloride (mg/L)	58.31		68		40		74		82		74		85	7/11/2012	78		78		67		2.62		52.9		65.9	Quarterly
	Field pH (S.U.)	6.74 - 8.5		6.59	2/15/2012 2/21/2012	6.72 (6.91) (6.71)		6.39		6.88		7.00 (7.01)		7.00	7/11/2012 8/16/2012	7.10 (6.80)		6.60		7.40		6.63		6.60		6.78	Quarterly
	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	Quarterly
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	Quarterly
	Chloride (mg/L)	128		124		126		128		128		124		131		128		139		130		135		114		122	Quarterly
	Uranium (ug/L)	8.32	NS	NA		7.42		8.38		7.84		6.81		7.8		7.64		8.04		7.67		7.86		7.03		5.80	Quarterly
	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	Quarterly
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	Quarterly
	TDS (mg/L)	1320		1360		1240		1400		1380		1410		1460		1400		1400		1460		1320		1230		1270	Quarterly
	Chloride (mg/L)	143		155		150		152		160		151		138		161		175		172		157		189		170	Quarterly
	Selenium (ug/L)	71		NS		67.8		NS		NS		70.2		NA		74		NA		NA		NA		76.9		NA	Quarterly
	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	Quarterly
	Sulfate (mg/L)	532		539		538		517		547		532		497		529		571		561		545		557		664	Quarterly
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	Quarterly
	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	Quarterly
	Molybdenum (ug/L)	10		<10		<10		NA		NA		<10		NA		<10		NA		NA		NA		30.4		NA	Quarterly
	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	Quarterly
	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	Quarterly
	Uranium (ug/L)	7.5		16.1		24.7		24.9		22.4		22.2		22.5		24.5		26.2		22.9		22.4		21.8		21	Quarterly
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	Semi-Annually
	Tetrahydrofuran (ug/L)	11.5		NA		NA		NA		NA		10.3		NA		NA		NA		NA		NA		21.8		NA	Semi-Annually
	Sulfate (mg/L)	838		NA		NA		NA		NA		659		NA		NA		NA		NA		NA		846		NA	Semi-Annually
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	Semi-Annually
	Field pH (S.U.)	6.5 - 8.5		NA		6.63		NA		NA		6.67		NA		6.99		NA		NA		NA		6.55		NA	Semi-Annually
	Fluoride (Mg/L)	0.68		NA		0.86		NA		NA		1.04		NA		0.96		NA		NA		NA		1.26		NA	Semi-Annually
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	Semi-Annually
	Sulfate (mg/L)	3640		NA		3020		NA		NA		3220		NA		3700		NA		NA		NA		2780		NA	Semi-Annually
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		NA		NA		NA		1.1		NA		NA		NA		NA		NA		1.31		NA	Semi-Annually
	TDS (mg/L)	5805		NA		5690		NA		NA		5730		NA		5720		NA		NA		NA		5610		NA	Semi-Annually
	Selenium (ug/L)	89		NA		65.8		NA		NA		85.1		NA		99.3		NA		NA		NA		111		NA	Semi-Annually
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	Semi-Annually
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	2/29/2012	6.81	NS	NA	NS	NA	5/10/2012	6.91	NS	NA	7/17/2012	6.98	NS	NA	NS	NA	NS	NA	11/27/2012	6.54	NS	NA	Semi-Annually
	Selenium (ug/L)	25		NA		27.2		NA		NA		19.6		NA		20.7		NA		NA		NA		23		NA	Semi-Annually
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	Semi-Annually
	Iron (ug/L)	81.7		NA		< 30		NA		NA		< 30		NA		< 30		NA		NA		NA		<30		NA	Semi-Annually
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	Semi-Annually
	Sulfate (mg/L)	1938.9		NA		1920		NA		NA		1790		NA		1900		NA		NA		NA		1210		NA	Semi-Annually
	Field pH (S.U.)	6.25-8.5		NA		6.6		NA		NA		6.59		NA		6.64		NA		NA		NA		6.51		NA	Semi-Annually
	TDS (mg/L)	3198.77		NA		3230		NA		NA		3280		NA		3220		NA		NA		NA		3160		NA	Semi-Annually

			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	Sample Frequency
Required Semi-Annual Sampling Wells, continued																											
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	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		NA		NA		NA		0.9		NA		NA		NA		NA		NA		4.86		NA	Semi-Annually
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		3.9		NA		NA		3.7		NA		4		NA		NA		NA		3.96		NA	Semi-Annually
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	Semi-Annually
	Manganese (ug/L)	550		NA		51		NA		NA		49		NA		117		NA		NA		NA		54.3		NA	Semi-Annually
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	Semi-Annually
	Fluoride (Mg/L)	0.36		NA		NA		NA		NA		0.14		NA		NA		NA		NA		NA		0.558		NA	Semi-Annually
	Thallium (ug/L)	1		NA		0.96		NA		NA		0.74		NA		1.36		NA		NA		NA		0.666		NA	Semi-Annually
	Field pH (S.U.)	6.5 - 8.5		NA		6.03		NA		NA		6.21		NA		6.45		NA		NA		NA		6.01		NA	Semi-Annually
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	Semi-Annually
	Chloride (mg/L)	38		NA		45		NA		NA		46		NA		47		NA		NA		NA		44.2		NA	Semi-Annually
	Sulfate (mg/L)	462		NA		451		NA		NA		446		NA		453		NA		NA		NA		451		NA	Semi-Annually
	Field pH (S.U.)	6.5-8.5		NA		7.24		NA		NA		7.03		NA		7.40		NA		NA		NA		6.69		NA	Semi-Annually
	TDS (mg/L)	1075		NA		1140		NA		NA		1170		NA		1150		NA		NA		NA		1070		NA	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2		NA		2.3		NA		NA		0.8		NA		1.2		NA		NA		NA		1.33		NA	Semi-Annually
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	Semi-Annually
	Manganese (ug/L)	1837		NA		NA		NA		NA		1850		NA	8/1/2012	1660		NA		NA		NA		1680		NA	Semi-Annually
	Field pH (S.U.)	6.1 - 8.5		NA		6.22		NA		NA		6.15		NA	7/16/2012 8/1/2012	6.38 (5.81)		NA		NA		NA		5.98		NA	Semi-Annually
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	2/22/2012	1310	NS	NA	NS	NA	5/8/2012	1400	NS	NA	7/16/2012	1270	NS	NA	NS	NA	NS	NA	11/14/2012	1350	NS	NA	Semi-Annually
	Manganese (ug/L)	5624		NA		NA		NA		NA		6140		NA	8/1/2012	5190		NA		NA		NA		5040		NA	Semi-Annually
	TDS (mg/L)	4400		NA		NA		NA		NA		4600		NA	8/1/2012	4420		NA		NA		NA		4430		NA	Semi-Annually
	Field pH (S.U.)	6.46 - 8.5		NA		7.12		NA		NA		6.47		NA	7/16/2012 8/1/2012	6.68 (6.45)		NA		NA		NA		6.48		NA	Semi-Annually
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	Semi-Annually
	Field pH (S.U.)	6.4 - 8.5		NA		6.57		NA		NA		6.40		NA		6.72		NA		NA		NA		6.23		NA	Semi-Annually

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

Table 3 – GWCL Exceedances 2010 to Present

			Q1 2013 Results						Q2 2013 Results						Q3 2013 Results						
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in August 24, 2012 GWDP	January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result	June 2013 Monthly Sample Date	June 2013 Monthly Result	Q3 2013 Sample Date	Q3 2013 Result	August 2013 Monthly Sample Date	August 2013 Monthly Result	September 2013 Monthly Sample Date	September 2013 Monthly Result	Sample Frequency
Required Quarterly Sampling Wells																					
MW-11 (Class II)	Field pH (S.U.)	6.5 - 8.5	1/23/2013	7.45	2/20/2013	7.46	3/20/2013	7.33	4/16/2013	6.17	5/14/2013	7.88	6/25/2013	7.47	7/10/2013	7.40	8/20/2013	7.7	9/18/2013	7.39	Quarterly
	Manganese (ug/L)	131.29		115		139		164		181		144		135		138		158		134	Quarterly
MW-14 (Class III)	Manganese (ug/L)	2230.30	1/23/2013	1930	2/26/2013	2250	3/20/2013	2110	4/16/2013	2060	5/14/2013	2200	6/25/2013	1990	7/11/2013	2100	8/20/2013	2100	9/19/2013	2190	Quarterly
	Field pH (S.U.)	6.5 - 8.5		6.48		6.52		6.48		7.58		7.39		6.54		6.47		6.86		6.48	Quarterly
MW-25 (Class III)	Field pH (S.U.)	6.5 - 8.5	1/22/2013	6.65	2/20/2013	6.62	3/19/2013	6.41	4/17/2013	7.00	5/14/2013	7.19	6/24/2013	6.61	7/10/2013	6.32	8/19/2013	6.74	9/17/2013	6.54	Quarterly
	Cadmium (ug/L)	1.5		NA		1.35		1.40		1.36		1.52		1.31		1.41		1.57		1.31	Quarterly
	Chloride (mg/L)	35		NA		36.1		NA		NA		28.1		30.4		28.0		31.1		29.6	Quarterly
	Fluoride (mg/L)	0.42		NA		0.32		NA		NA		0.392		NA		0.534		NA		NA	Quarterly
	Uranium	6.5		5.97		5.39		5.68		5.56		5.88		5.35		6.22		6.42		5.99	Quarterly
MW-26 (Class III)	Nitrate + Nitrite (as N) (mg/L)	0.62	1/24/2013	1.66	2/20/2013	1.38	3/20/2013	1.61	4/17/2013	1.73	5/23/2013	2.01	6/5/2013 6/25/2013	3.04 2.11*	7/11/2013	1.98	8/20/2013	1.77	9/18/2013	3.60	Quarterly
	Uranium (ug/L)	41.8		65.7		57.8		69		58.8		64.3		71.3		70		72.3		19.9	Quarterly
	Chloroform (ug/L)	70		1270		1500		1340		1680		1210		4030*		2410		2110		4170	Quarterly
	Chloride (mg/L)	58.31		63.5		77		73.6		70.4		63.1		87.8 77.9*		72.1		70.8		77.3	Quarterly
	Field pH (S.U.)	6.74 - 8.5		6.51		6.71		6.70		6.96		7.31		6.85		6.43		7.41		6.71	Quarterly
	Dichloromethane (Methylene Chloride) (ug/L)	5		6.49		5.53		8.31		10.2		4.07		52.4* [12.1]		14.2		14.6		42.4	Quarterly
MW-30 (Class II)	Nitrate + Nitrite (as N) (mg/L)	2.5	1/23/2013	19.2	2/26/2013	21.4	3/20/2013	14.3	4/17/2013	16.8	5/15/2013	18.8	6/25/2013	16.1	7/10/2013	17.6	8/20/2013	16.4	9/18/2013	16.9	Quarterly
	Chloride (mg/L)	128		128		129		126		117		119		127		130		126		131	Quarterly
	Uranium (ug/L)	8.32		8.36		7.4		6.85		7.08		6.31		8.22		7.48		7.07		7.00	Quarterly
	Selenium (ug/L)	34		37.2		42.3		39		37.3		39.4		32.1		36.5		36.3		35.2	Quarterly
MW-31 (Class III)	Nitrate + Nitrite (as N) (mg/L)	5	1/22/2013	22.8	2/19/2013	19.3	3/19/2013	19.1	4/16/2013	18.8	5/13/2013	23.8	6/24/2013	20.0	7/9/2013	21.7	8/19/2013	16.0	9/17/2013	21.2	Quarterly
	TDS (mg/L)	1320		1270		1390		1420		1260		1540		1380		1510		1440		1500	Quarterly
	Chloride (mg/L)	143		176		174		168		171		169		179		182		183		193	Quarterly
	Selenium (ug/L)	71		NS		74.1		81.8		72.9		75.9		73.7		75.7		73.2		72.6	Quarterly
	Field pH (S.U.)	6.5 - 8.5		6.94		7.32		7.28		6.37		7.92		7.10		6.98		7.36		7.06	Quarterly
	Sulfate (mg/L)	532		611		644		611		668		630		659		659		656		666	Quarterly
MW-35 (Class II)	Manganese (ug/L)	200	1/23/2013	247	2/26/2013	272	3/19/13	246	4/17/2013	243	5/13/2013	252	6/24/2013	243	7/9/2013	250	8/19/2013	262	9/17/2013	257	Quarterly
	Thallium (ug/l)	0.5		<0.5		<0.5		0.505		<0.5		0.715		0.946		<0.5		<0.5		<0.5	Quarterly
	Molybdenum (ug/L)	10		NS		<10		<10		<10		<10		<10		<10		<10		<10	Quarterly
	Gross Alpha minus Rn & U (pCi/L)	3.75		6.62		5.09		9.51		4.75		4.92		3.24		5.70		3.92		5.10	Quarterly
	Selenium (ug/L)	12.5		11.0		10.8		22.6		11.8		16.1		13.6		8.01		<5		<5	Quarterly
	Uranium (ug/L)	7.5		23.6		21.3		22.1		20.0		22.0		19.3		23.0		21.4		20.2	Quarterly
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	Semi-Annually
	Tetrahydrofuran (ug/L)	11.5		NA		12.6		NA		NA		3.26		NA		1.86		NA		NA	Semi-Annually
	Sulfate (mg/L)	838		NA		761		NA		NA		839		NA		911		NA		NA	Semi-Annually
MW-03 (Class III)	Selenium (ug/L)	37	NS	NA	3/12/2013	51.8	NS	NA	NS	NA	5/22/2013	46.3	NS	NA	7/18/2013	52.0	NS	NA	NS	NA	Semi-Annually
	Field pH (S.U.)	6.5 - 8.5		NA		6.20		NA		NA		7.14		NA		6.46		NA		NA	Semi-Annually
	Fluoride (Mg/L)	0.68		NA		0.902		NA		NA		0.994		NA		1.18		NA		NA	Semi-Annually
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	Semi-Annually
	Sulfate (mg/L)	3640		NA		3480		NA		NA		3120		NA		3670		NA		NA	Semi-Annually
	Nitrate + Nitrite (as N) (mg/L)	1.3		NA		1.22		NA		NA		1.11		NA		1.09		NA		NA	Semi-Annually
	TDS (mg/L)	5805		NA		5750		NA		NA		6020		NA		5860		NA		NA	Semi-Annually
	Selenium (ug/L)	89		NA		88.7		NA		NA		75.6		NA		79.7		NA		NA	Semi-Annually
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	Semi-Annually
MW-12 (Class III)	Field pH (S.U.)	6.5 - 8.5	NS	NA	3/6/2013	6.56	NS	NA	NS	NA	5/15/2013	7.19	NS	NA	7/17/2013	6.60	NS	NA	NS	NA	Semi-Annually
	Selenium (ug/L)	25		NA		19.6		NA		NA		19.0		NA		20.5		NA		NA	Semi-Annually
MW-15 (Class III)	Selenium (ug/L)	128.7	NS	NA	3/5/2013	137	NS	NA	NS	NA	5/15/2013	120	NS	NA	7/18/2013	100	NS	NA	NS	NA	Semi-Annually
	Iron (ug/L)	81.7		NA		<30		NA		NA		<30		NA		<30		NA		NA	Semi-Annually
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	Semi-Annually
	Sulfate (mg/L)	1938.9		NA		1270		NA		NA		1860		NA		1860		NA		NA	Semi-Annually
	Field pH (S.U.)	6.25-8.5		NA		6.35		NA		NA		6.97		NA		6.45		NA		NA	Semi-Annually
	TDS (mg/L)	3198.77		NA		3350		NA		NA		3160		NA		3170		NA		NA	Semi-Annually

			Q1 2013 Results						Q2 2013 Results						Q3 2013 Results						
Monitoring Well (Water Class)	Constituent Exceeding GWCL	GWCL in Current GWDP	January 2013 Monthly Sample Date	January 2013 Monthly Result	Q1 2013 Sample Date	Q1 2013 Result	March 2013 Monthly Sample Date	March 2013 Monthly Result	April 2013 Monthly Sample Date	April 2013 Monthly Result	Q2 2013 Sample Date	Q2 2013 Result	June 2013 Monthly Sample Date	June 2013 Monthly Result	Q3 2013 Sample Date	Q3 2013 Result	August 2013 Monthly Sample Date	August 2013 Monthly Result	September 2013 Monthly Sample Date	September 2013 Monthly Result	Sample Frequency
Required Semi-Annual Sampling Wells, continued																					
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	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2.36		NA		1.11		NA		NA		1.19		NA		<1.00		NA		NA	Semi-Annually
	Nitrate + Nitrite (as N) (mg/L)	2.83		NA		3.61		NA		NA		4.21		NA		3.66		NA		NA	Semi-Annually
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	Semi-Annually
	Manganese (ug/L)	550		NA		137		NA		NA		24.3		NA		129		NA		NA	Semi-Annually
MW-24 (Class III)	Cadmium (ug/L)	2.5	NS	NA	3/13/2013	2.0	NS	NA	NS	NA	5/22/2013	1.32	NS	NA	7/19/2013	6.72	NS	NA	NS	NA	Semi-Annually
	Fluoride (Mg/L)	0.36		NA		0.355		NA		NA		0.211		NA		0.288		NA		NA	
	Thallium (ug/L)	1		NA		0.88		NA		NA		0.618		NA		1.64		NA		NA	Semi-Annually
	Field pH (S.U.)	6.5 - 8.5		NA		6.29		NA		NA		6.77		NA		5.80		NA		NA	Semi-Annually
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	Semi-Annually
	Chloride (mg/L)	38		NA		50.3		NA		NA		44.3		NA		44.2		NA		NA	Semi-Annually
	Sulfate (mg/L)	462		NA		431		NA		NA		497		NA		NA		NA		NA	Semi-Annually
	Field pH (S.U.)	6.5-8.5		NA		7.03		NA		NA		7.58		NA		7.00		NA		NA	Semi-Annually
	TDS (mg/L)	1075		NA		1140		NA		NA		1110		NA		1110		NA		NA	Semi-Annually
	Gross Alpha minus Rn & U (pCi/L)	2		NA		<1.0		NA		NA		1.57		NA		<1.00		NA		NA	Semi-Annually
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	Semi-Annually
	Manganese (ug/L)	1837		NA		1680		NA		NA		1730		NA		1650		NA		NA	Semi-Annually
	Field pH (S.U.)	6.1 - 8.5		NA		6.00		NA		NA		6.63		NA		5.97		NA		NA	Semi-Annually
MW-29 (Class III)	Iron (ug/L)	1869	NS	NA	3/6/2013	1350	NS	NA	NS	NA	5/23/2013	1250	NS	NA	7/17/2013	1400	NS	NA	NS	NA	Semi-Annually
	Manganese (ug/L)	5624		NA		5340		NA		NA		5140		NA		5140		NA		NA	Semi-Annually
	TDS (mg/L)	4400		NA		4500		NA		NA		4340		NA		4270		NA		NA	Semi-Annually
	Field pH (S.U.)	6.46 - 8.5		NA		6.36		NA		NA		6.88		NA		6.37		NA		NA	Semi-Annually
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	Semi-Annually
	Field pH (S.U.)	6.4 - 8.5		NA		6.52		NA		NA		7.10		NA		6.39		NA		NA	Semi-Annually

Notes:
GWCL values are taken from August 24, 2012 version of GWDP.
NS = Not Required and Not Sampled
NR = Required and Not Reported
NA = Not Applicable
Exceedances are shown in yellow
Values in () parentheses are the field pH measurements for the resampled analyses.
* Data are reported from the 6/5/13 chlorofrm program sample.

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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
TW4-32 ☼	temporary perched monitoring well installed September, 2013
RUIN SPRING	seep or spring

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SITE PLAN SHOWING PERCHED WELL AND PIEZOMETER LOCATIONS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov13/Uwelloc0913.srf	A-1

Tab B

Field Data Worksheets Quarterly Sampling

ENERGYFUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-01

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-01_07232013

Date and Time for Purging: 7/23/2013 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-24

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 118.00

Depth to Water Before Purging: 63.95

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 19.83 (.367h)

Conductance (avg): 1847

pH of Water (avg): 7.04

Well Water Temp. (avg): 15.12

Redox Potential (Eh): 240

Turbidity: 6.07

Weather Cond.: Partly Cloudy

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

Time	0930	Gal. Purged	39.06
Conductance	1850	pH	7.05
Temp. °C	15.05		
Redox Potential Eh (mV)	240		
Turbidity (NTU)	9.5		

Time	0931	Gal. Purged	39.27
Conductance	1849	pH	7.04
Temp. °C	15.10		
Redox Potential Eh (mV)	241		
Turbidity (NTU)	4.8		

Time	0932	Gal. Purged	39.49
Conductance	1840	pH	7.04
Temp. °C	15.20		
Redox Potential Eh (mV)	241		
Turbidity (NTU)	5.0		

Time	0933	Gal. Purged	39.71
Conductance	1849	pH	7.04
Temp. °C	15.15		
Redox Potential Eh (mV)	241		
Turbidity (NTU)	5.0		

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Volume of Water Purged 40.14 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 182.82

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Sulfate								

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

Final Depth 99.81 Sample Time 0935

See instruction

Comment

Arrived on site at 0625. Tanner and Garrin present for purge and sampling event. Purge began at 0630. Purged well for a total of 185 minutes. water was mostly clear. Purge ended at 0935. Left site at 0940

Do not touch this cell (SheetName)

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ENERGYFUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-03

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-03_07182013

Date and Time for Purging: 7/18/2013 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: 999 µMHOS/ cm

Well Depth(0.01ft): 97.00

Depth to Water Before Purging: 83.08

Casing Volume (V) 4" Well: 0 (.653h)
3" Well: 5.10 (.367h)

Conductance (avg): 5801

pH of Water (avg): 6.49

Well Water Temp. (avg): 15.63

Redox Potential (Eh): 364

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 30°

Time	1425	Gal. Purged	11.44
Conductance	5805	pH	6.56
Temp. °C	15.66		
Redox Potential Eh (mV)	364		
Turbidity (NTU)	0		

Time	1426	Gal. Purged	11.64
Conductance	5800	pH	6.47
Temp. °C	15.65		
Redox Potential Eh (mV)	364		
Turbidity (NTU)	0		

Time	1427	Gal. Purged	11.85
Conductance	5799	pH	6.47
Temp. °C	15.62		
Redox Potential Eh (mV)	364		
Turbidity (NTU)	0		

Time	1428	Gal. Purged	12.06
Conductance	5801	pH	6.46
Temp. °C	15.60		
Redox Potential Eh (mV)	364		
Turbidity (NTU)	0		

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capturx COMPATIBLE WITH Acrobat FUNCTIONALI

Volume of Water Purged 12.48 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .208

Time to evacuate two casing volumes (2V)
T = 2V/Q = 49.12

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Fluoride								

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

Final Depth 88.03 Sample Time 1430

See instruction

Comment

Arrived on site at 1326. Tanner and Clay present for purge and sampling event. Purge began at 1330. Purged well for a total of 60 minutes. water was clear. Purge ended and samples collected at 1430. Left site at 1435

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ENERGY FUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-03A

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-03A_07192013

Date and Time for Purging: 7/18/2013 and Sampling (if different): 7/19/2013

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-15

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 95.00

Depth to Water Before Purging: 85.10

Casing Volume (V) 4" Well: 6.46 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 5958

pH of Water (avg): 6.39

Well Water Temp. (avg): 19.17

Redox Potential (Eh): 361

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 25°

Time	1325	Gal. Purged	13.52
Conductance	5958	pH	6.39
Temp. °C	19.17		
Redox Potential Eh (mV)	361		
Turbidity (NTU)	0		

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

Time	0845	Gal. Purged	0
Conductance	5951	pH	6.50
Temp. °C	17.75		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0850	Gal. Purged	0
Conductance	5929	pH	6.50
Temp. °C	18.03		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

03.2930.6.200 - GW-QAP rev7.3 04.04.13 / Template-[1691] - Printed 4/6/2013 10:56 AM from DMCUSER0018

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Volume of Water Purged 13.52 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .208

Time to evacuate two casing volumes (2V)
T = 2V/Q = 62.16

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 13.52

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Sulfate								
TDS								

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

Final Depth 91.30 Sample Time 0845

See instruction

Comment

Arrived on site at 1215. Tanner and Clay present for purge. Purge began at 1220 Purged well for a total of 65 minutes water decreased through the purge Did not have enough volume to sample. well Ran dry. Purge ended at 1325. Left site at 1326.
Arrived on site at 0837 Tanner and Garrin present to collect samples. Depth to water was 87.44 samples collected at 0845 Left site at 0851

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-05

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-05_07182013

Date and Time for Purging: 7/18/2013 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: 999 µMHOS/ cm

Well Depth(0.01ft): 138.50

Depth to Water Before Purging: 106.45

Casing Volume (V) 4" Well: 20.92 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2976

pH of Water (avg): 7.39

Well Water Temp. (avg): 14.87

Redox Potential (Eh): 260

Turbidity: 0

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 17°

Time	0945	Gal. Purged	42.31
Conductance	2975	pH	7.39
Temp. °C	14.87		
Redox Potential Eh (mV)	264		
Turbidity (NTU)	0		

Time	0946	Gal. Purged	42.53
Conductance	2980	pH	7.39
Temp. °C	14.88		
Redox Potential Eh (mV)	264		
Turbidity (NTU)	0		

Time	0947	Gal. Purged	42.74
Conductance	2977	pH	7.39
Temp. °C	14.88		
Redox Potential Eh (mV)	259		
Turbidity (NTU)	0		

Time	0948	Gal. Purged	42.96
Conductance	2975	pH	7.39
Temp. °C	14.87		
Redox Potential Eh (mV)	255		
Turbidity (NTU)	0		

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Volume of Water Purged 43.40 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 192.89

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 124.20 Sample Time 0950

See instruction

Comment

Arrived on site at 0626 Tanner present for purge and sampling event.
Purge began at 0630. Purged well for a total of 200 minutes
water was clear. Purge ended and sample collected at 0950
Left site at 0955

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-11

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-11_07102013

Date and Time for Purging 7/10/2013 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 999 µMHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging 87.30

Casing Volume (V) 4" Well: 27.88 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 2855

pH of Water (avg) 7.41

Well Water Temp. (avg) 15.76

Redox Potential (Eh) 202

Turbidity 0

Weather Cond. Partly Cloudy

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

Time	1300	Gal. Purged	55.33
Conductance	2867	pH	7.43
Temp. °C	15.75		
Redox Potential Eh (mV)	206		
Turbidity (NTU)	0		

Time	1301	Gal. Purged	55.55
Conductance	2851	pH	7.41
Temp. °C	15.77		
Redox Potential Eh (mV)	204		
Turbidity (NTU)	0		

Time	1302	Gal. Purged	55.76
Conductance	2851	pH	7.40
Temp. °C	15.78		
Redox Potential Eh (mV)	199		
Turbidity (NTU)	0		

Time	1303	Gal. Purged	55.98
Conductance	2851	pH	7.40
Temp. °C	15.75		
Redox Potential Eh (mV)	199		
Turbidity (NTU)	0		

Volume of Water Purged 56.42 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 256.98

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☑	☐	3x40 ml	☐	☑	HCL	☑	☐
Nutrients	☑	☐	100 ml	☐	☑	H2SO4	☑	☐
Heavy Metals	☑	☐	250 ml	☑	☐	HNO3	☑	☐
All Other Non Radiologics	☑	☐	250 ml	☐	☑	No Preserv.	☐	☑
Gross Alpha	☑	☐	1,000 ml	☑	☐	HNO3	☑	☐
Other (specify)	☑	☐	Sample volume	☐	☑		☐	☑
General Inorganics								

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

Final Depth 87.44 Sample Time 1305

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 260 minutes.
water was clear.
Purge ended and samples taken at 1305. Left site at 1316

MW-11 07-10-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-12

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-12_07172013

Date and Time for Purging: 7/17/2013 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: 999 µMHOS/ cm

Well Depth(0.01ft): 130.40

Depth to Water Before Purging: 108.57

Casing Volume (V) 4" Well: 14.25 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4202

pH of Water (avg): 6.68

Well Water Temp. (avg): 17.55

Redox Potential (Eh): 321

Turbidity: 1.9

Weather Cond.: Partly Cloudy

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

Time	1420	Gal. Purged	28.21
Conductance	4211	pH	6.84
Temp. °C	17.66		
Redox Potential Eh (mV)	325		
Turbidity (NTU)	2.0		

Time	1421	Gal. Purged	28.42
Conductance	4199	pH	6.66
Temp. °C	17.50		
Redox Potential Eh (mV)	322		
Turbidity (NTU)	2.0		

Time	1422	Gal. Purged	28.64
Conductance	4188	pH	6.62
Temp. °C	17.51		
Redox Potential Eh (mV)	320		
Turbidity (NTU)	2.0		

Time	1423	Gal. Purged	28.86
Conductance	4210	pH	6.60
Temp. °C	17.55		
Redox Potential Eh (mV)	319		
Turbidity (NTU)	1.9		

Volume of Water Purged 29.29 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 131.38

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 121.15 Sample Time 1425

See instruction

Comment

Arrived on site at 1206. Tanner and Garrin present for purge and sampling event.
Purge began at 1210. Purged well for a total of 135 minutes
water was a little dirty a slight brown discolor.
Purge ended and samples collected at 1425. Left site at 1428

MW-12 07-17-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-14_07112013

Date and Time for Purging 7/11/2013 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 999 µMHOS/ cm

Well Depth(0.01ft): 128.70

Depth to Water Before Purging 103.60

Casing Volume (V) 4" Well: 16.39 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 3895

pH of Water (avg) 6.44

Well Water Temp. (avg) 15.19

Redox Potential (Eh) 367

Turbidity 0

Weather Cond. Partly Cloudy

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

Time	0830	Gal. Purged	32.55
Conductance	3894	pH	6.40
Temp. °C	15.22		
Redox Potential Eh (mV)	366		
Turbidity (NTU)	0		

Time	0831	Gal. Purged	32.76
Conductance	3895	pH	6.44
Temp. °C	15.24		
Redox Potential Eh (mV)	368		
Turbidity (NTU)			

Time	0832	Gal. Purged	32.98
Conductance	3897	pH	6.45
Temp. °C	15.16		
Redox Potential Eh (mV)	368		
Turbidity (NTU)	0		

Time	0833	Gal. Purged	33.20
Conductance	3894	pH	6.47
Temp. °C	15.14		
Redox Potential Eh (mV)	369		
Turbidity (NTU)	0		

Volume of Water Purged 33.63 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 151.06

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☒	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
General Inorganics								

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

Final Depth 105.01 Sample Time 0835

See instruction

Comment

Arrived on site at 0555. Tanner and Garrin present for purge and sampling event. Purge began at 0600. Purged well for a total of 155 minutes water was clear.
Purge ended and samples collected at 0835. Left site at 0845

MW-14 07-11-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-15

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-15_07182013

Date and Time for Purging 7/18/2013 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 999 µMHOS/ cm

Well Depth(0.01ft): 137.00

Depth to Water Before Purging 106.50

Casing Volume (V) 4" Well: 19.91 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 4309

pH of Water (avg) 6.68

Well Water Temp. (avg) 15.39

Redox Potential (Eh) 352

Turbidity 0

Weather Cond. Partly Cloudy

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

Time	1140	Gal. Purged	39.06
Conductance	4306	pH	6.70
Temp. °C	15.40		
Redox Potential Eh (mV)	354		
Turbidity (NTU)	0		

Time	1141	Gal. Purged	39.27
Conductance	4306	pH	6.69
Temp. °C	15.39		
Redox Potential Eh (mV)	353		
Turbidity (NTU)	0		

Time	1142	Gal. Purged	39.49
Conductance	4311	pH	6.68
Temp. °C	15.43		
Redox Potential Eh (mV)	352		
Turbidity (NTU)	0		

Time	1143	Gal. Purged	39.71
Conductance	4314	pH	6.68
Temp. °C	15.35		
Redox Potential Eh (mV)	351		
Turbidity (NTU)	0		

Volume of Water Purged 40.14 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 183.56

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 109.20 Sample Time 1145

See instruction

Comment

Arrived on site at 0837. Tanner present for purge and sampling event. Purge began at 0840. Purged well for a total of 185 minutes. Water was clear.
Purge ended and samples collected at 1145. Left site at 1151

MW-15 07-18-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground water 2013

Location (well name): MW-18

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-18_07152013

Date and Time for Purging: 7/15/2013 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: 999 µMHOS/ cm

Well Depth(0.01ft): 134.00

Depth to Water Before Purging: 70.51

Casing Volume (V) 4" Well: ~~41.5~~ (.653h) 41.45
3" Well: 0 (.367h)

Conductance (avg): 541

pH of Water (avg): 6.48

Well Water Temp. (avg): 15.31

Redox Potential (Eh): 350

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time	1320	Gal. Purged	83.54
Conductance	565	pH	6.52
Temp. °C	15.33		
Redox Potential Eh (mV)	351		
Turbidity (NTU)	0		

Time	1321	Gal. Purged	83.76
Conductance	554	pH	6.50
Temp. °C	15.35		
Redox Potential Eh (mV)	351		
Turbidity (NTU)	0		

Time	1322	Gal. Purged	83.97
Conductance	507	pH	6.47
Temp. °C	15.31		
Redox Potential Eh (mV)	350		
Turbidity (NTU)	0		

Time	1323	Gal. Purged	84.19
Conductance	539	pH	6.45
Temp. °C	15.28		
Redox Potential Eh (mV)	349		
Turbidity (NTU)	0		

83.2929.6.188 - GW-QAP rev7.3 04.04.13 / Template-(1487) - Printed 4/4/2013 10:54 AM from DMC2SOBB0018

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Volume of Water Purged 84.63 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 382.11

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Sulfate								
TDS								

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

Final Depth 71.41 Sample Time 1325

See instruction

Comment

Arrived on site at 0651. Tanner and Garrin present for purge and sampling event. Purge began at 0655. Purged well for a total of 390 minutes water was clear.
Purge ended and samples collected at 1325. Left site at 1330

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-19

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-19_07152013

Date and Time for Purging 7/15/2013 and Sampling (if different) N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet) QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event Quarterly GW

Prev. Well Sampled in Sampling Event MW-26

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 µMHOS/ cm

Well Depth(0.01ft): 149.00

Depth to Water Before Purging 56.95

Casing Volume (V) 4" Well: 60.10 (.653h)
3" Well: " (.367h)

Conductance (avg) 1647

pH of Water (avg) 6.98

Well Water Temp. (avg) 16.97

Redox Potential (Eh) 338

Turbidity 413

Weather Cond. Partly Cloudy

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

Time	~~1325~~ 1525	Gal. Purged	122.60
Conductance	1617	pH	7.11
Temp. °C	16.96		
Redox Potential Eh (mV)	338		
Turbidity (NTU)	401		

Time	~~1326~~ 1526	Gal. Purged	122.82
Conductance	1637	pH	6.96
Temp. °C	17.00		
Redox Potential Eh (mV)	338		
Turbidity (NTU)	411		

Time	~~1327~~ 1527	Gal. Purged	123.03
Conductance	1670	pH	6.95
Temp. °C	16.97		
Redox Potential Eh (mV)	338		
Turbidity (NTU)	415		

Time	~~1328~~ 1528	Gal. Purged	123.25
Conductance	1667	pH	6.91
Temp. °C	16.98		
Redox Potential Eh (mV)	338		
Turbidity (NTU)	426		

Volume of Water Purged 123.69 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 553.99

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 62.75 Sample Time 1530

See instruction

Comment

Arrived on site at 0555. Tanner and Garrin present for purge and sampling event.
Purge began at 0600. Purged well for a total of 570 minutes.
Water had bubbles in it. Purge ended and samples collected at 1530.
Left site at 1535

MW-19 07-15-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-23

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-23_07182013

Date and Time for Purging: 7/18/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-12

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 132.00

Depth to Water Before Purging: 114.21

Casing Volume (V) 4" Well: 11.61 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3924

pH of Water (avg): 6.62

Well Water Temp. (avg): 16.60

Redox Potential (Eh): 375

Turbidity: 6.0

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 17°

Time	0825	Gal. Purged	23.04
Conductance	3926	pH	6.63
Temp. °C	16.68		
Redox Potential Eh (mV)	375		
Turbidity (NTU)	6.3		

Time	0826	Gal. Purged	23.23
Conductance	3922	pH	6.62
Temp. °C	16.59		
Redox Potential Eh (mV)	376		
Turbidity (NTU)	6.0		

Time	0827	Gal. Purged	23.42
Conductance	3923	pH	6.62
Temp. °C	16.56		
Redox Potential Eh (mV)	376		
Turbidity (NTU)	5.9		

Time	0828	Gal. Purged	23.61
Conductance	3926	pH	6.61
Temp. °C	16.57		
Redox Potential Eh (mV)	376		
Turbidity (NTU)	6.1		

Volume of Water Purged 24.00 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .192

Time to evacuate two casing volumes (2V)
T = 2V/Q = 121.00

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 128.05 Sample Time 0830

See instruction

Comment

Arrived on site at 0618 Tanner present for purge. Purge began at 0625
Purged well for a total of 125 minutes. Flow Rate decreased throughout purge.
Purge ended and samples collected at 0830. Left site at 0835
water was mostly clear.

MW-23 07-18-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-24

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-24_07192013

Date and Time for Purging: 7/18/2013 and Sampling (if different): 7/19/2013

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: 999 µMHOS/ cm

Well Depth(0.01ft): 120.00

Depth to Water Before Purging: 114.11

Casing Volume (V) 4" Well: 3.84 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4510

pH of Water (avg): 5.68

Well Water Temp. (avg): 23.03

Redox Potential (Eh): 345

Turbidity: 0.2

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 31°

Time	1505	Gal. Purged	11.52
Conductance	4510	pH	5.68
Temp. °C	23.03		
Redox Potential Eh (mV)	345		
Turbidity (NTU)	0.2		

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

Time	0825	Gal. Purged	0
Conductance	4502	pH	5.85
Temp. °C	17.28		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	083	Gal. Purged	0
Conductance	4494	pH	5.80
Temp. °C	17.61		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

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Volume of Water Purged [11.52] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [.192]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [40.06]

Number of casing volumes evacuated (if other than two) [0]

If well evacuated to dryness, number of gallons evacuated [11.52]

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Fluoride								

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

Final Depth [117.53] Sample Time [0825]

See instruction

Comment

Arrived on site at 1400 Tanner and Clay present for purge. Purge began at 1405
Purged well for a total of 60 minutes water decreased throughout the purge.
not enough water volume to collect samples. Well ran dry! Purge ended at 1505
Left site at 1506
Arrives on site at 0821 Tanner and Garrin present to collect samples. Depth to water
was 114.10 samples collected at 0825 Left site at 0835

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-25_07102013

Date and Time for Purging 7/10/2013 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 999 µMHOS/ cm

Well Depth(0.01ft): 115.00

Depth to Water Before Purging 73.19

Casing Volume (V) 4" Well: 27.30 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 3194

pH of Water (avg) 6.31

Well Water Temp. (avg) 15.32

Redox Potential (Eh) 458

Turbidity 0

Weather Cond. Partly Cloudy

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

Time	1055	Gal. Purged	57.50
Conductance	3186	pH	6.08
Temp. °C	15.29		
Redox Potential Eh (mV)	459		
Turbidity (NTU)	0		

Time	1056	Gal. Purged	57.72
Conductance	3194	pH	6.47
Temp. °C	15.34		
Redox Potential Eh (mV)	459		
Turbidity (NTU)	0		

Time	1057	Gal. Purged	57.93
Conductance	3201	pH	6.40
Temp. °C	15.36		
Redox Potential Eh (mV)	458		
Turbidity (NTU)	0		

Time	1058	Gal. Purged	58.15
Conductance	3197	pH	6.32
Temp. °C	15.30		
Redox Potential Eh (mV)	457		
Turbidity (NTU)	0		

Volume of Water Purged 5859 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 251.63

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☒	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
General Inorganics								

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

Final Depth 75.15 Sample Time 1100

See instruction

Comment

Arrived on site at 0625, Tanner and Garrin present for purge and sampling event.
Purge began at 0630. Purged well for a total of 270 minutes.
Water was clear
Purge ended and samples collected at 1100. Left site at 1110

MW-25 07-10-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-26_07112013

Date and Time for Purging 7/11/2013 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-14

pH Buffer 7.0 7.0

pH Buffer 4.0 4.0

Specific Conductance 999 µMHOS/ cm

Well Depth(0.01ft): 121.33

Depth to Water Before Purging 64.30

Casing Volume (V) 4" Well: 37.24 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 3390

pH of Water (avg) 6.43

Well Water Temp. (avg) 15.37

Redox Potential (Eh) 251

Turbidity 0

Weather Cond. Partly Cloudy

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

Time	0639	Gal. Purged	0
Conductance	3390	pH	6.43
Temp. °C	15.37		
Redox Potential Eh (mV)	251		
Turbidity (NTU)	0		

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 0 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = 10.0

Time to evacuate two casing volumes (2V)
T = 2V/Q = 0

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☒	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
General Inorganics								

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

Final Depth 107.97 Sample Time 0640

See instruction

Comment

Arrived on site at 0635. Tanner and Garrin present to collect samples. Samples collected at 0640. water was clear. Left site at 0647

Continuous Pumping Well

MW-26 07-11-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-27

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-27_07172013

Date and Time for Purging: 7/17/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-18

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 95.00

Depth to Water Before Purging: 52.52

Casing Volume (V) 4" Well: 27.73 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1580

pH of Water (avg): 7.01

Well Water Temp. (avg): 15.41

Redox Potential (Eh): 342

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time	1055	Gal. Purged	56.42
Conductance	1586	pH	7.03
Temp. °C	15.51		
Redox Potential Eh (mV)	342		
Turbidity (NTU)	0		

Time	1056	Gal. Purged	56.63
Conductance	1579	pH	7.01
Temp. °C	15.40		
Redox Potential Eh (mV)	343		
Turbidity (NTU)	0		

Time	1057	Gal. Purged	56.85
Conductance	1579	pH	7.00
Temp. °C	15.35		
Redox Potential Eh (mV)	342		
Turbidity (NTU)	0		

Time	1058	Gal. Purged	57.07
Conductance	1577	pH	7.00
Temp. °C	15.41		
Redox Potential Eh (mV)	343		
Turbidity (NTU)	0		

Volume of Water Purged 57.50 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 255.66

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								
TDS								

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

Final Depth 54.10 Sample Time 1100

See instruction

Comment

Arrived on site at 0630. Tanner and Garrin present for purge and sampling event. Purge began at 0635. Purged well for a total of 265 minutes water was clear. Purge ended and samples collected at 1100. Left site at 1107

MW-27 07-17-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-28

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-28_07172013

Date and Time for Purging 7/17/2013 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 999 µMHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging 76.21

Casing Volume (V) 4" Well: 22.06 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 3992

pH of Water (avg) 5.98

Well Water Temp. (avg) 15.12

Redox Potential (Eh) 355

Turbidity 1.7

Weather Cond. Partly Cloudy

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

Time	1025	Gal. Purged	44.48
Conductance	3992	pH	6.03
Temp. °C	15.14		
Redox Potential Eh (mV)	355		
Turbidity (NTU)	1.7		

Time	1026	Gal. Purged	44.70
Conductance	3997	pH	5.98
Temp. °C	15.15		
Redox Potential Eh (mV)	356		
Turbidity (NTU)	1.7		

Time	1027	Gal. Purged	44.91
Conductance	3986	pH	5.97
Temp. °C	15.11		
Redox Potential Eh (mV)	356		
Turbidity (NTU)	1.7		

Time	1028	Gal. Purged	45.13
Conductance	3995	pH	5.97
Temp. °C	15.10		
Redox Potential Eh (mV)	356		
Turbidity (NTU)	1.7		

Volume of Water Purged 45.57 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 203.36

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 79.41 Sample Time 1030

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 210 minutes.
water was Clear. Purge ended and samples collected at 1030.
Left site at 1034

MW-28 07-17-2013 Do not touch this cell (SheetName)

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-29

Sampler Name and initials: Tanner Holliday/AH

Field Sample ID: MW-29_07172013

Date and Time for Purging: 7/17/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-28

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 127.00

Depth to Water Before Purging: 101.45

Casing Volume (V) 4" Well: 16.68 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4701

pH of Water (avg): ~~7~~ 6.46

Well Water Temp. (avg): 15.58

Redox Potential (Eh): 229

Turbidity: 19

Weather Cond.: Partly Cloudy

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

Time	1355	Gal. Purged	34.72
Conductance	4705	pH	6.64
Temp. °C	16.02		
Redox Potential Eh (mV)	222		
Turbidity (NTU)	18		

Time	1356	Gal. Purged	34.93
Conductance	4690	pH	6.44
Temp. °C	15.50		
Redox Potential Eh (mV)	231		
Turbidity (NTU)	19		

Time	1357	Gal. Purged	35.15
Conductance	4706	pH	6.40
Temp. °C	15.41		
Redox Potential Eh (mV)	232		
Turbidity (NTU)	20		

Time	1358	Gal. Purged	35.37
Conductance	4703	pH	6.37
Temp. °C	15.40		
Redox Potential Eh (mV)	233		
Turbidity (NTU)	20		

82.2929.6.146 - GW-QAP rev7.3 04.04.13 / Daglace-(1664) - Printed 4/4/2013 10:49 AM from DMCUSER0038

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Volume of Water Purged 35.80 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 153.77

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
TDS								

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

Final Depth 104.42 Sample Time 1400

See instruction

Comment

Arrived on site at 1110. Tanner and Garrin present for purge and sampling event.
Purge began at 1115 Purged well for a total of 165 minutes.
water was a little murky. Purge ended and samples collected at 1400.
Left site at 1405

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-30

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-30_07102013

Date and Time for Purging: 7/10/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☑ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☑ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-11

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ 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)

Conductance (avg): 1830

pH of Water (avg): 6.91

Well Water Temp. (avg): 15.78

Redox Potential (Eh): 288

Turbidity: 0

Weather Cond.: Sunny

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

Time	1440	Gal. Purged	44.48
Conductance	2038	pH	6.96
Temp. °C	15.77		
Redox Potential Eh (mV)	288		
Turbidity (NTU)	0		

Time	1441	Gal. Purged	44.70
Conductance	1762	pH	6.93
Temp. °C	15.80		
Redox Potential Eh (mV)	288		
Turbidity (NTU)	0		

Time	1442	Gal. Purged	44.91
Conductance	1754	pH	6.91
Temp. °C	15.78		
Redox Potential Eh (mV)	288		
Turbidity (NTU)	0		

Time	1443	Gal. Purged	45.13
Conductance	1766	pH	6.87
Temp. °C	15.80		
Redox Potential Eh (mV)	288		
Turbidity (NTU)	0		

Volume of Water Purged 45.57 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 208.53

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☒	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
General Inorganics								

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

Final Depth 77.79 Sample Time 1445

See instruction

Comment

Arrived on site at 1111. Tanner and Garrin present for purge and sampling event.
Purge began at 1115. Purged well for a total of 210 minutes
water was Clear
Purge ended and samples collected at 1445. Left site at 1456

MW-30 07-10-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-31

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-31_07092013

Date and Time for Purging: 7/9/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-32

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 67.48

Casing Volume (V) 4" Well: 40.82 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2000

pH of Water (avg): 6.95

Well Water Temp. (avg): 15.70

Redox Potential (Eh): 307

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 20°

Time	1300	Gal. Purged	81.37
Conductance	2000	pH	6.90
Temp. °C	15.73		
Redox Potential Eh (mV)	306		
Turbidity (NTU)	0		

Time	1301	Gal. Purged	81.59
Conductance	2001	pH	6.96
Temp. °C	15.68		
Redox Potential Eh (mV)	307		
Turbidity (NTU)	0		

Time	1302	Gal. Purged	81.80
Conductance	2002	pH	6.97
Temp. °C	15.70		
Redox Potential Eh (mV)	307		
Turbidity (NTU)	0		

Time	1303	Gal. Purged	82.02
Conductance	2000	pH	6.98
Temp. °C	15.69		
Redox Potential Eh (mV)	308		
Turbidity (NTU)	0		

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Volume of Water Purged 82.46 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 376.27

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☒	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
General Inorganics								

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

Final Depth 69.99 Sample Time 1305

See instruction

Comment

Arrived on site at 0641. Tanner and Garrin present for purge and sampling event. Purge began at 0645 Purged well for a total of 380 minutes water was clear. Purge ended and samples collected at 1305. Left site at 1315

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-32

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-32_07092013

Date and Time for Purging: 7/9/2013 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: N/A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 132.50

Depth to Water Before Purging: 73.95

Casing Volume (V) 4" Well: 38.23 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3787

pH of Water (avg): 6.45

Well Water Temp. (avg): 15.44

Redox Potential (Eh): 227

Turbidity: 43

Weather Cond.: Partly Cloudy

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

Time	1230	Gal. Purged	77.03
Conductance	3786	pH	6.55
Temp. °C	15.47		
Redox Potential Eh (mV)	225		
Turbidity (NTU)	45		

Time	1231	Gal. Purged	77.25
Conductance	3790	pH	6.46
Temp. °C	15.50		
Redox Potential Eh (mV)	228		
Turbidity (NTU)	43		

Time	1232	Gal. Purged	77.46
Conductance	3780	pH	6.42
Temp. °C	15.43		
Redox Potential Eh (mV)	228		
Turbidity (NTU)	44		

Time	1233	Gal. Purged	77.68
Conductance	3794	pH	6.39
Temp. °C	15.39		
Redox Potential Eh (mV)	229		
Turbidity (NTU)	43		

Volume of Water Purged 78.12 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 352.37

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs / GEL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☐	☐	250 ml	☐	☐	HNO3	☐	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 76.03 Sample Time 1235

See instruction

Comment

Arrived on site at 0630. Tanner and Garrin present for purge and sampling event
Purge began at 0635. Purged well for a total of 360 minutes
water was murky. Purge ended and samples collected at 1235.
Left site at 1245

MW-32 07-09-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-35_07092013

Date and Time for Purging: 7/9/2013 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-31

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging: 112.40

Casing Volume (V) 4" Well: 7.90 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4131

pH of Water (avg): 6.54

Well Water Temp. (avg): 16.05

Redox Potential (Eh): 315

Turbidity: 0

Weather Cond.: Sunny, Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 32°

Time	1455	Gal. Purged	15.19
Conductance	4147	pH	6.58
Temp. °C	16.05		
Redox Potential Eh (mV)	320		
Turbidity (NTU)	0		

Time	1456	Gal. Purged	15.40
Conductance	4099	pH	6.54
Temp. °C	16.08		
Redox Potential Eh (mV)	316		
Turbidity (NTU)	0		

Time	1457	Gal. Purged	15.62
Conductance	4143	pH	6.53
Temp. °C	16.05		
Redox Potential Eh (mV)	314		
Turbidity (NTU)	0		

Time	1458	Gal. Purged	15.84
Conductance	4135	pH	6.51
Temp. °C	16.05		
Redox Potential Eh (mV)	313		
Turbidity (NTU)	0		

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Volume of Water Purged 16.27 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 72.82

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☒	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒

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

Final Depth 113.41 Sample Time 1500

See instruction

Comment

Arrived on site at 1340. Tanner and Garrin Present for purge and sampling event.
Purge began at 1345. Purged well for a total of 75 minutes.
water was clear. Purge ended and samples collected at 1500.
Left site at 1510 a little Rain at time of sampling

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

See instruction

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-36

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-36_07102013

Date and Time for Purging: 7/10/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 121.60

Depth to Water Before Purging: 110.50

Casing Volume (V) 4" Well: 7.24 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4906

pH of Water (avg): 6.72

Well Water Temp. (avg): 15.38

Redox Potential (Eh): 490

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 20°

Time	0745	Gal. Purged	14.10
Conductance	4912	pH	6.69
Temp. °C	15.40		
Redox Potential Eh (mV)	491		
Turbidity (NTU)	0		

Time	0746	Gal. Purged	14.32
Conductance	4904	pH	6.73
Temp. °C	15.38		
Redox Potential Eh (mV)	491		
Turbidity (NTU)	0		

Time	0747	Gal. Purged	14.53
Conductance	4903	pH	6.74
Temp. °C	15.38		
Redox Potential Eh (mV)	490		
Turbidity (NTU)	0		

Time	0748	Gal. Purged	14.75
Conductance	4905	pH	6.75
Temp. °C	15.39		
Redox Potential Eh (mV)	489		
Turbidity (NTU)	0		

Volume of Water Purged 15.19 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 66.80

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☐	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
General Inorganics								

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

Final Depth 112.05 Sample Time 0750

See instruction

Comment

Arrived on site at 0634. Tanner and Garrin present for purge and sampling event.
Purge began at 0640. Purged well for a total of 70 minutes.
Water was clear
Purge ended and samples collected at 0750. Left site at 0800

MW-36 07-10-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-37

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-37_07232013

Date and Time for Purging: 7/12/2013 and Sampling (if different): 7/23/2013

Well Purging Equip Used: ☐ pump or ☒ bailer

Well Pump (if other than Bennet): NA

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-14

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 121.80

Depth to Water Before Purging: 107.76

Casing Volume (V) 4" Well: 9.15 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4394

pH of Water (avg): 6.44

Well Water Temp. (avg): 15.17

Redox Potential (Eh): 496

Turbidity: 1.8

Weather Cond.: Sunny

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

Time	0829	Gal. Purged	5
Conductance	4394	pH	6.44
Temp. °C	15.17		
Redox Potential Eh (mV)	496		
Turbidity (NTU)	1.8		

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

Time	~~0829~~ 0715	Gal. Purged	~~5~~ 0
Conductance	4496	pH	6.92
Temp. °C	15.91		
Redox Potential Eh (mV)			
Turbidity (NTU)			

Before

Time	0726	Gal. Purged	0
Conductance	4472	pH	6.90
Temp. °C	15.82		
Redox Potential Eh (mV)			
Turbidity (NTU)			

After

Volume of Water Purged Before [14] gallon(s) After

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [0]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [0]

Number of casing volumes evacuated (if other than two) [1.53]

If well evacuated to dryness, number of gallons evacuated [14]

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL Gel]

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☒	☐	250 ml	☐	☒	No Preserv.	☐	☒
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
General Inorganics								

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

Final Depth [121.40] Sample Time [0715]

See instruction

Comment

Arrived on site at 0820. Garrin Palmer and Clay Most present for well purge. Bailing began at 0825. A five gallon bucket was filled then parameters were taken from the bucket. Bailed well dry at 0844. Water was clear then became dirty and murky during bailing. Left site at 0851.
Arrived on site at 0658. Tanner and Garrin present to collect samples. Depth to water was 116.48 samples bailed and collected at 0715. Left site at 0730

MW-37 07-12-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: 3rd Quarter Ground Water 2013

Location (well name): MW-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-65_07172013

Date and Time for Purging: 7/17/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Quarterly GW

Prev. Well Sampled in Sampling Event: MW-28

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 127.00

Depth to Water Before Purging: 101.45

Casing Volume (V) 4" Well: 16.68 (.653h)
3" Well: 0 (.367h)

Conductance (avg): ~~547~~ · 4701
4701

pH of Water (avg): ~~6.46~~ 6.46
6.46

Well Water Temp. (avg): ~~15.31~~ ·
15.58

Redox Potential (Eh): ~~350~~ ·
229

Turbidity: ~~0~~ · 19
19

Weather Cond.: Partly Cloudy

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

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)			

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

Volume of Water Purged 35.80 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 153.77

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
TDS								

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

Final Depth 104.42 Sample Time 1400

See instruction

Comment

Duplicate of MW-29

MW-65 07-17-2013 Do not touch this cell (SheetName)

ENERGYFUELS

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

See instruction

Description of Sampling Event: 3rd Quarter Ground water 2013

Location (well name): MW-70

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID MW-70_07182013

Date and Time for Purging 7/18/2013 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 999 µMHOS/ cm

Well Depth(0.01ft): 137.00

Depth to Water Before Purging 106.50

Casing Volume (V) 4" Well: 19.91 (.653h)
3" Well: 0 (.367h)

Conductance (avg) 4309

pH of Water (avg) 6.68

Well Water Temp. (avg) 15.39

Redox Potential (Eh) 352

Turbidity 0

Weather Cond. Cloudy

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

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)			

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

Volume of Water Purged 40.14 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 183.56

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 109.20 Sample Time 1145

See instruction

Comment

Duplicate of MW-15

MW-70 07-18-2013 Do not touch this cell (SheetName)

Tab C

Field Data Worksheets Accelerated Monitoring

Tab C1

Field Data Worksheets Accelerated Monitoring

August 2013

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

See instruction

Description of Sampling Event: August Monthly Ground Water 2013

Location (well name): MW-11

Sampler Name and initials: Tanner Holliday / TH

Field Sample ID: MW-11_08202013

Date and Time for Purging: 8/20/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-30

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 87.16

Casing Volume (V) 4" Well: 27.47 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2972

pH of Water (avg): 7.74

Well Water Temp. (avg): 15.47

Redox Potential (Eh): 189

Turbidity: 0

Weather Cond.: Cloudy

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

Time	~~100 1110~~ 1105	Gal. Purged	55.33
Conductance	2977	pH	7.77
Temp. °C	~~2995~~	15.47	
Redox Potential Eh (mV)	210		
Turbidity (NTU)	0		

Time	1106	Gal. Purged	55.55
Conductance	2995	pH	7.75
Temp. °C	15.50		
Redox Potential Eh (mV)	185		
Turbidity (NTU)	0		

Time	1107	Gal. Purged	55.76
Conductance	2958	pH	7.74
Temp. °C	15.47		
Redox Potential Eh (mV)	183		
Turbidity (NTU)	0		

Time	1108	Gal. Purged	55.98
Conductance	2960	pH	7.70
Temp. °C	15.45		
Redox Potential Eh (mV)	178		
Turbidity (NTU)	0		

03.3929.6.208 - GW-QAP rev7.3 04.04.13 / Template-[1697] - Printed 4/4/2013 10:56 AM from DMCUSDB0038

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Volume of Water Purged 56.42 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 257.82

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 88.45 Sample Time 1110

See instruction

Comment

Arrived on site at 0646. Tanner and Garrin present for purge and sampling event.
Purge began at 0650. Purged well for a total of 260 minutes. water was clear.
Purge ended and samples collected at 1110. Left site at 1115.

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ENERGY FUELS

See instruction

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

Description of Sampling Event: August Monthly Ground Water 2013

Location (well name): MW-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-14_08202013

Date and Time for Purging: 8/20/2013 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: 999 µMHOS/ cm

Well Depth(0.01ft): 128.70

Depth to Water Before Purging: 103.55

Casing Volume (V) 4" Well: 16.42 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3996

pH of Water (avg): 6.91

Well Water Temp. (avg): 15.83

Redox Potential (Eh): 335

Turbidity: 0

Weather Cond.: Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 25°

Time	Gal. Purged	Conductance	pH	Temp. °C	Redox Potential Eh (mV)	Turbidity (NTU)
1300	32.55	4005	7.01	15.90	335	0
1301	32.76	3996	6.91	15.87	336	0
1302	32.97	3987	6.86	15.80	335	0
1303	33.19	3997	6.86	15.76	335	0

83 2029.5.210 - GW-QAP rev7.3 04.04.13 / Template-[1698] - Printed 4/4/2013 10:57 AM from DMCUSER0018

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Volume of Water Purged 33.63 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 151.36

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 103.96 Sample Time 1305

See instruction

Comment

Arrived on site at 1018. Tanner and Garrin present for purge and sampling event.
Purge began at 1030. Purged well for a total of 155 minutes.
water was clear. Purge ended and samples collected at 1305.
Left site at 1308

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ENERGY FUELS

See instruction

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

Description of Sampling Event: August Monthly Ground Water 2013

Location (well name): MW-25

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-25_08192013

Date and Time for Purging: 8/19/2013 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: 999 µMHOS/ cm

Well Depth(0.01ft): 115.00

Depth to Water Before Purging: 73.21

Casing Volume (V) 4" Well: 27.28 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3272

pH of Water (avg): 6.74

Well Water Temp. (avg): 15.32

Redox Potential (Eh): 377

Turbidity: 43

Weather Cond.: Partly Cloudy.

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

Time	1055	Gal. Purged	54.25
Conductance	3274	pH	6.76
Temp. °C	15.38		
Redox Potential Eh (mV)	378		
Turbidity (NTU)	40		

Time	1056	Gal. Purged	54.46
Conductance	3270	pH	6.75
Temp. °C	15.25		
Redox Potential Eh (mV)	378		
Turbidity (NTU)	43		

Time	1057	Gal. Purged	54.68
Conductance	3272	pH	6.74
Temp. °C	15.30		6.74
Redox Potential Eh (mV)	377		
Turbidity (NTU)	44		

Time	1058	Gal. Purged	54.90
Conductance	3273	pH	6.74
Temp. °C	15.35		
Redox Potential Eh (mV)	377		
Turbidity (NTU)	45		

83.2629/7.6 - GW-QAP rev7.3 04.04.13 / Template-[1724] - Printed 4/4/2013 11:02 AM from DMCUSER0038

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Volume of Water Purged 55.33 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 251.51

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 75.15 Sample Time 1100

See instruction

Comment

Arrived on site at 0640. Tanner Holliday present for purge and sampling event.
Purge began at 0645. Purged well for a total of 255 minutes
water was Murky.
Purge ended and samples collected at 1100 Left site at 1105

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

See instruction

Description of Sampling Event: August Monthly Ground Water 2013

Location (well name): MW-26

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-26_08202013

Date and Time for Purging: 8/20/2013 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-14

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 121.33

Depth to Water Before Purging: 62.40

Casing Volume (V) 4" Well: 38.48 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 1496

pH of Water (avg): 7.41

Well Water Temp. (avg): 16.65

Redox Potential (Eh): 189

Turbidity: 1.0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 32°

Time	1400	Gal. Purged	0
Conductance	1496	pH	7.41
Temp. °C	16.65		
Redox Potential Eh (mV)	189		
Turbidity (NTU)	1.0		

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 [0] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [10]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [0]

Number of casing volumes evacuated (if other than two) [0]

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth [81.03] Sample Time [1400]

See instruction

Comment

Arrived on site at 1355 Tanner and Garrin present to collect samples.
Samples collected at 1400. Left site at 1408
water was clear

Continuous Pumping Well

MW-26 08-20-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: August Monthly Ground water 2013

Location (well name): MW-30

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-30_08202013

Date and Time for Purging: 8/20/2013 and Sampling (if different): N/A

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): QED

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-35

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 110.00

Depth to Water Before Purging: 75.25

Casing Volume (V) 4" Well: 22.69 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2076

pH of Water (avg): 7.06

Well Water Temp. (avg): 15.11

Redox Potential (Eh): 275

Turbidity: 0

Weather Cond.: Cloudy

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

Time	1000	Gal. Purged	44.48
Conductance	2080	pH	7.08
Temp. °C	15.08		
Redox Potential Eh (mV)	276		
Turbidity (NTU)	0		

Time	1001	Gal. Purged	44.70
Conductance	2074	pH	7.07
Temp. °C	15.10		
Redox Potential Eh (mV)	275		
Turbidity (NTU)	0		

Time	1002	Gal. Purged	44.91
Conductance	2077	pH	7.06
Temp. °C	15.09		
Redox Potential Eh (mV)	275		
Turbidity (NTU)	0		

Time	1003	Gal. Purged	45.13
Conductance	2076	pH	7.06
Temp. °C	15.20		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	0		

81.2929.7.10 - GW-QAP rev7.3 04.04.13 / Template-(1726) - Printed 4/4/2013 11:03 AM from DMCUSERDOS8

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Volume of Water Purged 45.57 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 209.14

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 77.92 Sample Time 1005

See instruction

Comment

Arrived on site at 0630. Tanner and Garrin present for purge and sampling event.
Purge began at 0635. Purged well for a total of 210 minutes.
water was clear.
Purge ended and samples collected at 1005. Left site at 1012.

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

See instruction

Description of Sampling Event: August Monthly Ground Water 2013

Location (well name): MW-31

Sampler Name and initials: Tanner Holliday /TH

Field Sample ID: MW-31_08192013

Date and Time for Purging: 8/19/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: N/A

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 67.45

Casing Volume (V) 4" Well: 40.84 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 903

pH of Water (avg): 7.42

Well Water Temp. (avg): 15.04

Redox Potential (Eh): 347

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time	1255	Gal. Purged	83.54
Conductance	904	pH	7.47
Temp. °C	15.03		
Redox Potential Eh (mV)	349		
Turbidity (NTU)	0		

Time	1256	Gal. Purged	83.76
Conductance	910	pH	7.46
Temp. °C	15.05		
Redox Potential Eh (mV)	347		
Turbidity (NTU)	0		

Time	1257	Gal. Purged	83.97
Conductance	901	pH	7.41
Temp. °C	15.04		
Redox Potential Eh (mV)	347		
Turbidity (NTU)	0		

Time	1258	Gal. Purged	84.19
Conductance	900	pH	7.36
Temp. °C	15.04		
Redox Potential Eh (mV)	346		
Turbidity (NTU)	0		

Volume of Water Purged 84.63 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 376.95

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
TDS								
Sulfate								
Chloride								

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

Final Depth 70.65 Sample Time 1300

See instruction

Comment

Arrived on site at 0620. Tanner Holliday present for purge and sampling event.
Purge began at 0630. Purged well for a total of 390 minutes.
water was clear
Purge ended and samples collected at 1300. Left site at 1308

MW-31 08-19-2013 Do not touch this cell (SheetName)

ENERGY FUELS

See instruction

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

Description of Sampling Event: August Monthly Ground Water 2013

Location (well name): MW-35

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-35_08192013

Date and Time for Purging: 8/19/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging: 112.28

Casing Volume (V) 4" Well: 7.97 (.653h)
3" Well: 0 (.367h)

Conductance (avg): ~~4254~~ 4252

pH of Water (avg): 7.11

Well Water Temp. (avg): 15.93

Redox Potential (Eh): 269

Turbidity: 0

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 31°

Time	1425	Gal. Purged	15.19
Conductance	4255	pH	7.30
Temp. °C	15.97		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	0		

Time	1426	Gal. Purged	15.40
Conductance	4241	pH	7.11
Temp. °C	16.00		
Redox Potential Eh (mV)	270		
Turbidity (NTU)	0		

Time	1427	Gal. Purged	15.62
Conductance	4274	pH	7.04
Temp. °C	15.87		
Redox Potential Eh (mV)	268		
Turbidity (NTU)	0		

Time	1428	Gal. Purged	15.84
Conductance	4239	pH	7.02
Temp. °C	15.90		
Redox Potential Eh (mV)	267		
Turbidity (NTU)	0		

82:2926.7.8 - GW-QAP rev7.3 04.04.13 / Template-(1725) - Printed 4/4/2013 11:03 AM from DNCUSER0038

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Volume of Water Purged 16.27 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 73.54

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL GEL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☒	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 113.11 Sample Time 1430

See instruction

Comment

Arrived on site at 1309 Tanner Holliday Present for purge and sampling event. Purge began at 1315. Purged well for a total of 75 minutes. water was clear. Purge ended and samples collected at 1430.
Left site at 1435

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

See instruction

Description of Sampling Event: August Monthly Ground Water 2013

Location (well name): MW-65

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-65_08202013

Date and Time for Purging: 8/20/2013 and Sampling (if different): N/A

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-30

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 87.16

Casing Volume (V) 4" Well: 27.97 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2972

pH of Water (avg): 7.74

Well Water Temp. (avg): 15.97

Redox Potential (Eh): 189

Turbidity: 0

Weather Cond.: Cloudy

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

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)			

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

Volume of Water Purged 56.42 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 257.82

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 88.45 Sample Time 1110

See instruction

Comment

Duplicate of MW-11

MW-65 08-20-2013 Do not touch this cell (SheetName)

Tab C2

Field Data Worksheets Accelerated Monitoring

September 2013

ENERGY FUELS

See instruction

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

Description of Sampling Event: September Monthly Groundwater 2013

Location (well name): MW-11

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-11_09182013

Date and Time for Purging: 09/18/2013 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-31

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: 86.94

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

Conductance (avg): 2893

pH of Water (avg): 7.40

Well Water Temp. (avg): 15.17

Redox Potential (Eh): 108

Turbidity: 12.4

Weather Cond.: Partly Cloudy

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

Time	1130	Gal. Purged	56.42
Conductance	2893	pH	7.42
Temp. °C	15.16		
Redox Potential Eh (mV)	115		
Turbidity (NTU)	12.7		

Time	1131	Gal. Purged	56.63
Conductance	2894	pH	7.40
Temp. °C	15.23		
Redox Potential Eh (mV)	107		
Turbidity (NTU)	12.4		

Time	1132	Gal. Purged	56.85
Conductance	2892	pH	7.40
Temp. °C	15.18		
Redox Potential Eh (mV)	106		
Turbidity (NTU)	12.2		

Time	1133	Gal. Purged	57.07
Conductance	2895	pH	7.39
Temp. °C	15.14		
Redox Potential Eh (mV)	104		
Turbidity (NTU)	12.6		

83-2929-6.92 - GW-QAP rev7.2 04.04.13 / Template-(1638) - Printed 4/4/2013 10:37 AM from DMCUSER0038

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Volume of Water Purged 57.50 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 259.15

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 88.45 Sample Time 1135

See instruction

Comment

Arrived on site at 0700. Garrin Palmer present for purge and sampling event. Purge began at 0710. Purge well for 265 minutes. Water was clear during purge. Sample was collected at 1135. Left site at 1138.

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ENERGYFUELS

See instruction

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

Description of Sampling Event: September Ground Water 2013

Location (well name): ~~MW-14-09~~ MW-14

Sampler Name and initials: Tanner Holliday/TH

Field Sample ID: MW-14-09192013

Date and Time for Purging: 9/19/2013 and Sampling (if different): N/A

Well Purging Equip Used: [X] pump or [ ] bailer

Well Pump (if other than Bennet): QED

Purging Method Used: [X] 2 casings [ ] 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-30 MW-30

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 128.70

Depth to Water Before Purging: 103.90

Casing Volume (V) 4" Well: 16.52 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3889

pH of Water (avg): 6.47

Well Water Temp. (avg): 15.28

Redox Potential (Eh): 361

Turbidity: 0

Weather Cond.: Clear

Ext'l Amb. Temp. °C (prior sampling event): 13°

Time	0857	Gal. Purged	34.06
Conductance	3889	pH	6.46
Temp. °C	15.26		
Redox Potential Eh (mV)	360		
Turbidity (NTU)	0		

Time	0858	Gal. Purged	34.28
Conductance	3885	pH	6.47
Temp. °C	15.30		
Redox Potential Eh (mV)	362		
Turbidity (NTU)	0		

Time	0859	Gal. Purged	34.50
Conductance	3899	pH	6.47
Temp. °C	15.29		
Redox Potential Eh (mV)	362		
Turbidity (NTU)	0		

Time	0900	Gal. Purged	34.72
Conductance	3890	pH	6.48
Temp. °C	15.30		
Redox Potential Eh (mV)	363		
Turbidity (NTU)	0		

B1.2029 6.98 - GW-QAP rev7.3 04.04.13 / Template-(1642) - Printed 4/4/2013 10:37 AM from DMCUS280038

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Volume of Water Purged 34.72 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 152.26

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 165.10 Sample Time 0900

See instruction

Comment

Arrived on site at 0615. Tanner and Garrin present for purge and sampling event.
Purge began at 0620. Purged well for a total of 160 minutes
water was clear. Purge ended and samples collected at 0900.
Left site at 0905

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ENERGY FUELS

See instruction

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

Description of Sampling Event: September Monthly Groundwater 2013

Location (well name): MW-25

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-25_09172013

Date and Time for Purging: 09/17/2013 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: NA

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 115

Depth to Water Before Purging: 73.25

Casing Volume (V) 4" Well: 27.26 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3239

pH of Water (avg): 6.54

Well Water Temp. (avg): 14.85

Redox Potential (Eh): 274

Turbidity: 18.7

Weather Cond.: Partly Cloudy

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

Time	1057	Gal. Purged	54.68
Conductance	3239	pH	6.55
Temp. °C	14.84		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	18.4		

Time	1058	Gal. Purged	54.90
Conductance	3237	pH	6.54
Temp. °C	14.96		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	18.0		

Time	1059	Gal. Purged	55.11
Conductance	3241	pH	6.54
Temp. °C	14.82		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	19.1		

Time	1100	Gal. Purged	55.33
Conductance	3240	pH	6.54
Temp. °C	14.79		
Redox Potential Eh (mV)	274		
Turbidity (NTU)	19.3		

85-2929.6.216 - GW-QAP rev7.3 04.04.13 / Template:(1701) - Printed 4/4/2013 10:57 AM from DNCUSR0038

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Volume of Water Purged 55.33 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 251.26

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 75.20 Sample Time 1100

See instruction

Comment

Arrived on site at 0635. Garrin Palmer present for purge and sampling event. Purge began at 0645. Purged well for 255 minutes. Water was clear during purge. Purge ended at 1100 and samples were collected. Left site at 1102.

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ENERGY FUELS

See instruction

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

Description of Sampling Event: September monthly Groundwater 2013

Location (well name): MW-26

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-26_09182013

Date and Time for Purging: 09/18/2013 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): ~~GED~~ Grundfos

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: monthly GW

Prev. Well Sampled in Sampling Event: MW-11

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 121.33

Depth to Water Before Purging: 63.90

Casing Volume (V) 4" Well: 57.43 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3414

pH of Water (avg): 6.71

Well Water Temp. (avg): 15.23

Redox Potential (Eh): 237

Turbidity: 0.5

Weather Cond.: Partly Cloudy

Ext'l Amb. Temp. °C (prior sampling event): 17°

Time	0918	Gal. Purged	0
Conductance	3414	pH	6.71
Temp. °C	15.23		
Redox Potential Eh (mV)	237		
Turbidity (NTU)	0.5		

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)			

B3.2929.6.94 - GW-QAP ver7.3 04.04.13 / Template-1(440) - Printed 8/4/2013 10:33 AM from DMCOS0860036

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Volume of Water Purged [0] gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = [10]

Time to evacuate two casing volumes (2V)
T = 2V/Q = [0]

Number of casing volumes evacuated (if other than two) [0]

If well evacuated to dryness, number of gallons evacuated [0]

Name of Certified Analytical Laboratory if Other Than Energy Labs [AWAL]

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	☒	☐	3x40 ml	☐	☒	HCL	☒	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth [88.78] Sample Time [0920]

See instruction

Comment

Arrived on site at 0910. Garrin Palmer present for ~~Purge and~~ Sampling event. Samples were collected at 0920. Water was clear. Left site at 0927.

Continous Pumping Well

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ENERGYFUELS

See instruction

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

Description of Sampling Event: September Monthly Groundwater 2013

Location (well name): MW-30

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-30_09182013

Date and Time for Purging: 09/18/2013 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-26

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 110

Depth to Water Before Purging: 75.10

Casing Volume (V) 4" Well: 22.78 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2057

pH of Water (avg): 6.78

Well Water Temp. (avg): 14.83

Redox Potential (Eh): 231

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time	1515	Gal. Purged	45.57
Conductance	2055	pH	6.77
Temp. °C	14.82		
Redox Potential Eh (mV)	233		
Turbidity (NTU)	0		

Time	1516	Gal. Purged	45.78
Conductance	2056	pH	6.78
Temp. °C	14.83		
Redox Potential Eh (mV)	232		
Turbidity (NTU)	0		

Time	1517	Gal. Purged	46.00
Conductance	2060	pH	6.78
Temp. °C	14.80		
Redox Potential Eh (mV)	230		
Turbidity (NTU)	0		

Time	1518	Gal. Purged	46.22
Conductance	2058	pH	6.78
Temp. °C	14.88		
Redox Potential Eh (mV)	229		
Turbidity (NTU)	0		

R3-2528.6.96 - GW-QAP rev7.3 04.04.13 / Template-(1441) - Printed 4/4/2013 10:37 AM from DMCUSERROOT8

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Volume of Water Purged 46.65 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 210.04

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth ~~88.54~~ 77.84

Sample Time 1520

See instruction

Comment

Arrived on site at 1140. Garrin Palmer present for purge and Sampling event. Purge began at 1145. Purged well for a total of 215 minutes. Water was clear during purge. Samples were collected at 1520. Left site at 1525.

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ENERGY FUELS

See instruction

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

Description of Sampling Event: September Monthly Groundwater 2013

Location (well name): MW-31

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-31_09172013

Date and Time for Purging: 09/17/2013 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: ~~N/A~~ MW-25

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 130.00

Depth to Water Before Purging: 67.43

Casing Volume (V) 4" Well: 40.85 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 2062

pH of Water (avg): 7.08

Well Water Temp. (avg): 14.96

Redox Potential (Eh): 298

Turbidity: 0

Weather Cond.: Partly cloudy

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

Time	1315	Gal. Purged	81.37
Conductance	2063	pH	7.07
Temp. °C	14.94		
Redox Potential Eh (mV)	299		
Turbidity (NTU)	0		

Time	1316	Gal. Purged	81.59
Conductance	2066	pH	7.09
Temp. °C	14.98		
Redox Potential Eh (mV)	298		
Turbidity (NTU)	0		

Time	1317	Gal. Purged	81.80
Conductance	2062	pH	7.08
Temp. °C	15.00		
Redox Potential Eh (mV)	297		
Turbidity (NTU)	0		

Time	1318	Gal. Purged	82.02
Conductance	2059	pH	7.06
Temp. °C	14.95		
Redox Potential Eh (mV)	297		
Turbidity (NTU)	0		

02-2929.6.80 - GW-QAP rev7.3 04.04.13 / Template-(1638) - Printed 4/4/2013 10:36 AM Lion DMCUSER0078

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Volume of Water Purged 82.46 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 376.57

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☒	☐	100 ml	☐	☒	H2SO4	☒	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
TDS								
Sulfate								
Chloride								

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

Final Depth

Sample Time 1320

See instruction

Comment

Arrived on site at 0650. Garrin Palmer Present for purge and Sampling event. Purge began at 0700. Purged well for a total of 380 minutes. Water was clear through out purge. Samples were collected at 1320. Left site at 1329.

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ENERGYFUELS

See instruction

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

Description of Sampling Event: September Monthly Groundwater 2013

Location (well name): MW-35

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-35_09172013

Date and Time for Purging: 09/17/2013 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: MW-31

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 124.50

Depth to Water Before Purging: 112.31

Casing Volume (V) 4" Well: 7.96 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 4209

pH of Water (avg): 6.51

Well Water Temp. (avg): 15.32

Redox Potential (Eh): 218

Turbidity: 0

Weather Cond.: Partly Cloudy

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

Time	1221	Gal. Purged	15.40
Conductance	4201	pH	6.53
Temp. °C	15.31		
Redox Potential Eh (mV)	220		
Turbidity (NTU)	0		

Time	1222	Gal. Purged	15.62
Conductance	4213	pH	6.51
Temp. °C	15.39		
Redox Potential Eh (mV)	219		
Turbidity (NTU)	0		

Time	1223	Gal. Purged	15.84
Conductance	4206	pH	6.51
Temp. °C	15.34		
Redox Potential Eh (mV)	218		
Turbidity (NTU)	0		

Time	1224	Gal. Purged	16.05
Conductance	4216	pH	6.50
Temp. °C	15.24		
Redox Potential Eh (mV)	217		
Turbidity (NTU)	0		

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Volume of Water Purged 16.27 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 73.36

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL, GEL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☒	☐	1,000 ml	☒	☐	HNO3	☒	☐
Other (specify)	☐	☐	Sample volume	☐	☐		☐	☐

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

Final Depth 113.09 Sample Time 1225

See instruction

Comment

Arrived on site at 1105. Carrin Palmer present for purge and sampling event. Purge began at 1110. Purged well for 75 minutes. Water was clear during the purge. Samples were collected at 1225. Left site at 1233.

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ENERGY FUELS

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

See instruction

Description of Sampling Event: September Monthly Groundwater 2013

Location (well name): MW-65

Sampler Name and initials: Garrin Palmer / GP

Field Sample ID: MW-65_09172013

Date and Time for Purging: 09/17/2013 and Sampling (if different): NA

Well Purging Equip Used: ☒ pump or ☐ bailer

Well Pump (if other than Bennet): QED

Purging Method Used: ☒ 2 casings ☐ 3 casings

Sampling Event: Monthly GW

Prev. Well Sampled in Sampling Event: NA

pH Buffer 7.0: 7.0

pH Buffer 4.0: 4.0

Specific Conductance: 999 µMHOS/ cm

Well Depth(0.01ft): 115

Depth to Water Before Purging: 73.25

Casing Volume (V) 4" Well: 27.26 (.653h)
3" Well: 0 (.367h)

Conductance (avg): 3239

pH of Water (avg): 6.54

Well Water Temp. (avg): 14.85

Redox Potential (Eh): 274

Turbidity: 18.7

Weather Cond.: Partly Cloudy

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

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)			

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

83.2925.6.80 - GW-QAP rev7.3 04.04.13 / Template-[1637] - Printed 4/4/2013 10:36 AM from DMUSER0018

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Volume of Water Purged 55.33 gallon(s)

Pumping Rate Calculation

Flow Rate (Q), in gpm.
S/60 = .217

Time to evacuate two casing volumes (2V)
T = 2V/Q = 251.26

Number of casing volumes evacuated (if other than two) 0

If well evacuated to dryness, number of gallons evacuated 0

Name of Certified Analytical Laboratory if Other Than Energy Labs AWAL

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	☐	☐	3x40 ml	☐	☐	HCL	☐	☐
Nutrients	☐	☐	100 ml	☐	☐	H2SO4	☐	☐
Heavy Metals	☒	☐	250 ml	☒	☐	HNO3	☒	☐
All Other Non Radiologics	☐	☐	250 ml	☐	☐	No Preserv.	☐	☐
Gross Alpha	☐	☐	1,000 ml	☐	☐	HNO3	☐	☐
Other (specify)	☒	☐	Sample volume	☐	☒		☐	☒
Chloride								

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

Final Depth 75.20 Sample Time 1100

See instruction

Comment

Duplicate of MW-25

Do not touch this cell (SheetName)

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Tab D

Quarterly Depth to Water

Name: Garrin Palmer, Tanner Holliday
Date: 9/27/2013

TIME	WELL	Static level
1339	MW-1	63.78
1416	MW-2	109.50
1356	MW-3	82.77
1357	MW-3A	84.79
800	MW-5	106.46
805	MW-11	87.28
823	MW-12	108.55
757	MW-14	103.60
815	MW-15	106.48
1352	MW-17	72.96
1342	MW-18	70.39
1347	MW-19	57.25
950	MW-20	85.20
921	MW-22	66.78
1059	MW-23	114.28
1413	MW-24	113.70
807	MW-25	73.26
1317	MW-26	65.33
1334	MW-27	52.38
1409	MW-28	75.70
1419	MW-29	101.33
1422	MW-30	74.90
1425	MW-31	67.15
1338	MW-32	73.89
1415	MW-33	DRY
830	MW-34	108.11
1420	MW-35	112.30
1417	MW-36	110.35
833	MW-37	109.41

TIME	WELL	Static Level
1331	MW-4	69.78
1332	TW4-1	64.21
1206	TW4-2	65.46
1323	TW4-3	51.65
1345	TW4-4	68.90
1320	TW4-5	59.35
1343	TW4-6	69.16
1329	TW4-7	64.98
1325	TW4-8	64.80
1321	TW4-9	57.09
1318	TW4-10	57.47
1203	TW4-11	57.70
1215	TW4-12	41.99
1217	TW4-13	46.48
1219	TW4-14	85.09
1317	TW4-15	65.33
1336	TW4-16	61.75
1338	TW4-17	73.89
1327	TW4-18	59.90
1205	TW4-19	63.02
1315	TW4-20	61.00
1329	TW4-21	58.46
1230	TW4-22	56.75
1210	TW4-23	64.25
1232	TW4-24	57.82
1331	TW4-25	59.00
1347	TW4-26	62.74
1237	TW4-27	80.90
1234	TW4-28	36.65
1240	TW4-29	71.77
1242	TW4-30	77.27
1244	TW4-31	83.36
1247	TW4-32	47.41
1250	TW4-33	70.30
1252	TW4-34	69.30

TIME	WELL	Static Level
1350	PIEZ-1	62.61
1359	PIEZ-2	32.43
1322	PIEZ-3	46.90
1429	PIEZ-4	49.12
1432	PIEZ-5	45.75
1405	TWN-1	56.44
1312	TWN-2	32.31
1315	TWN-3	37.14
1320	TWN-4	48.54
NA	TWN-5	Abandon
1344	TWN-6	75.95
1336	TWN-7	86.85
NA	TWN-8	Abandon
NA	TWN-9	Abandon
NA	TWN-10	Abandon
NA	TWN-11	Abandon
NA	TWN-12	Abandon
NA	TWN-13	Abandon
1352	TWN-14	61.81
NA	TWN-15	Abandon
1355	TWN-16	47.31
NA	TWN-17	Abandon
1317	TWN-18	58.43
1041	TWN-19	52.44

TIME	WELL	Static Level
NA	DR-1	Abandon
NA	DR-2	Abandon
1017	DR-5	82.96
1020	DR-6	94.21
1236	DR-7	92.21
1012	DR-8	51
1009	DR-9	86.4
1006	DR-10	77.97
1026	DR-11	98.1
1028	DR-12	89.62
1031	DR-13	69.76
959	DR-14	76.29
955	DR-15	92.8
NA	DR-16	Abandon
1002	DR-17	64.82
NA	DR-18	Abandon
939	DR-19	62.97
941	DR-20	55.35
924	DR-21	101.19
935	DR-22	60.65
945	DR-23	70.56
932	DR-24	43.85
NA	DR-25	Abandon

We split up to complete checks so some times may be the same.

Tab E

Laboratory Analytical Reports – Quarterly Sampling

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-001
Client Sample ID: MW-01_07232013
Collection Date: 7/23/2013 0935h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	7/29/2013 0945h	8/5/2013 0418h	E200.8	0.0100	**0.0839**	[1]@

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-001
Client Sample ID: MW-01_07232013
Collection Date: 7/23/2013 0935h
Received Date: 7/26/2013 0910h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Sulfate	mg/L		7/30/2013 1543h	E300.0	100	**911**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-001A
Client Sample ID: MW-01_07232013
Collection Date: 7/23/2013 0935h
Received Date: 7/26/2013 0910h

Test Code: 8260-W

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/26/2013 1347h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Tetrahydrofuran	109-99-9	1.00	**1.86**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	44.3	50.00	88.7	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.3	50.00	109	80-128	
Surr: Dibromofluoromethane	1868-53-7	46.2	50.00	92.3	80-124	
Surr: Toluene-d8	2037-26-5	54.1	50.00	108	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-002
Client Sample ID: MW-03_07182013
Collection Date: 7/18/2013 1430h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	7/29/2013 0945h	8/5/2013 0434h	E200.8	0.00500	**0.0520**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-002
Client Sample ID: MW-03_07182013
Collection Date: 7/18/2013 1430h
Received Date: 7/26/2013 0910h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Fluoride	mg/L		7/27/2013 0549h	E300.0	0.100	**1.18**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-003
Client Sample ID: MW-03A_07192013
Collection Date: 7/19/2013 0845h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	7/29/2013 0945h	8/5/2013 0439h	E200.8	0.00500	**0.0797**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-003
Client Sample ID: MW-03A_07192013
Collection Date: 7/19/2013 0845h
Received Date: 7/26/2013 0910h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate/Nitrite (as N)	mg/L		8/2/2013 1952h	E353.2	0.100	**1.09**	
Sulfate	mg/L		7/26/2013 2117h	E300.0	750	**3,670**	
Total Dissolved Solids	mg/L		7/25/2013 1415h	SM2540C	20.0	**5,860**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-004
Client Sample ID: MW-05_07182013
Collection Date: 7/18/2013 0950h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	7/29/2013 0945h	8/5/2013 2035h	E200.8	0.000300	**0.000574**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-004
Client Sample ID: MW-11_07102013
Collection Date: 7/10/2013 1335h
Received Date: 7/11/2013 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2047h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/12/2013 1225h	7/17/2013 1053h	E200.7	1.00	**61.9**	
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2333h	E200.8	0.0300	**0.0904**	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2333h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/17/2013 1053h	E200.7	1.00	**20.1**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 1923h	E200.8	0.0100	**0.138**	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1021h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 1923h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1142h	E200.7	1.00	**6.57**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/16/2013 1538h	E200.7	100	**538**	
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0124h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/12/2013 1225h	7/16/2013 1923h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2028h	E200.8	0.000200	**0.000672**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1142h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2213h	E200.8	0.0100	< 0.0100	

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-004
Client Sample ID: MW-11_07102013
Collection Date: 7/10/2013 1335h
Received Date: 7/11/2013 1500h

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Jose Rocha
QA Officer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2131h	E350.1	0.0500	**0.612**	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**329**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/12/2013 155h	E300.0	5.00	**29.0**	
Fluoride	mg/L		7/12/2013 1616h	E300.0	0.100	**0.638**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**-8.03**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1621h	E353.2	0.100	< 0.100	
Sulfate	mg/L		7/12/2013 131h	E300.0	100	**1,240**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**33.2**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**28.3**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**2,010**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**0.959**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**2,090**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-004A
Client Sample ID: MW-11_07102013
Collection Date: 7/10/2013 1335h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 456h
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	58.0	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.0	50.00	95.9	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.7	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	47.6	50.00	95.1	77-129	

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 24, 2013

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_07102013	Project:	DNMI00100
Sample ID:	329520004	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	10-JUL-13 13:05		
Receive Date:	15-JUL-13		
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	+/-0.272	0.640	1.00	pCi/L		KDF1	07/20/13	1527	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.6	(25%-125%)

Notes:

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

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-001
Client Sample ID: MW-12_07172013
Collection Date: 7/17/2013 1425h
Received Date: 7/19/2013 1010h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	7/19/2013 1145h	7/26/2013 1639h	E200.8	0.00500	**0.0205**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-001
Client Sample ID: MW-14_07112013
Collection Date: 7/11/2013 0835h
Received Date: 7/11/2013 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2031h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.000500	**0.00129**	
Calcium	mg/L	7/12/2013 1225h	7/16/2013 1453h	E200.7	100	**483**	2
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2317h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2317h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/16/2013 1453h	E200.7	100	**143**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 1856h	E200.8	0.0100	**2.10**	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1012h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 1851h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1034h	E200.7	5.00	**10.9**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/16/2013 1453h	E200.7	100	**314**	2
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0022h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/12/2013 1225h	7/16/2013 1851h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2001h	E200.8	0.000200	**0.0624**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1115h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2136h	E200.8	0.0100	**0.0114**	

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-001
Client Sample ID: MW-14_07112013
Collection Date: 7/11/2013 835h
Received Date: 7/11/2013 1500h

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Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2125h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**400**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/11/2013 2115h	E300.0	5.00	**17.6**	
Fluoride	mg/L		7/12/2013 1506h	E300.0	0.100	**0.191**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**1.62**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1612h	E353.2	0.100	< 0.100	
Sulfate	mg/L		7/11/2013 2052h	E300.0	500	**1,910**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**48.3**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**49.8**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**3,600**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**1.16**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**3,120**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-001A
Client Sample ID: MW-14_07112013
Collection Date: 7/11/2013 835h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 359h
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	56.5	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.8	50.00	95.6	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.8	77-129	

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 24, 2013

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

Client Sample ID:	MW-14_07112013	Project:	DNMI00100
Sample ID:	329520001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	11-JUL-13 08:35		
Receive Date:	15-JUL-13		
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	+/-0.261	0.630	1.00	pCi/L		KDF1	07/21/13	1124	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.3	(25%-125%)

Notes:

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

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-005
Client Sample ID: MW-15_07182013
Collection Date: 7/18/2013 1145h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Iron	mg/L	7/29/2013 0945h	8/12/2013 1254h	E200.8	0.0300	< 0.0300	
Selenium	mg/L	7/29/2013 0945h	8/5/2013 0444h	E200.8	0.00500	**0.100**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-002
Client Sample ID: MW-18_07152013
Collection Date: 7/15/2013 1325h
Received Date: 7/19/2013 1010h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Thallium	mg/L	7/19/2013 1145h	7/29/2013 1151h	E200.8	0.000500	**0.00332**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-002
Client Sample ID: MW-18_07152013
Collection Date: 7/15/2013 1325h
Received Date: 7/19/2013 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Sulfate	mg/L		7/22/2013 1547h	E300.0	500	**1,860**	
Total Dissolved Solids	mg/L		7/19/2013 1210h	SM2540C	20.0	**3,170**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-003
Client Sample ID: MW-19_07152013
Collection Date: 7/15/2013 1530h
Received Date: 7/19/2013 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Nitrate/Nitrite (as N)	mg/L		7/23/2013 1752h	E353.2	1.00	**3.66**	[1]

[1] - *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

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 14, 2013

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

Client Sample ID:	MW-19_07152013	Project:	DNMI00100
Sample ID:	329987001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	15-JUL-13 15:30		
Receive Date:	22-JUL-13		
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	+/-0.185	0.385	1.00	pCi/L		KDF1	08/11/13	1029	1318324	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.6	(25%-125%)

Notes:

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

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-004
Client Sample ID: MW-23_07182013
Collection Date: 7/18/2013 830h
Received Date: 7/19/2013 1010h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	7/19/2013 1145h	7/26/2013 1654h	E200.8	0.0100	**0.129**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-006
Client Sample ID: MW-24_07192013
Collection Date: 7/19/2013 0825h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/29/2013 0945h	8/5/2013 0450h	E200.8	0.000500	**0.00672**	
Thallium	mg/L	7/29/2013 0945h	8/7/2013 1234h	E200.8	0.000500	**0.00164**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-006
Client Sample ID: MW-24_07192013
Collection Date: 7/19/2013 0825h
Received Date: 7/26/2013 0910h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Fluoride	mg/L		7/27/2013 0612h	E300.0	0.100	**0.288**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-003
Client Sample ID: MW-25_07102013
Collection Date: 7/10/2013 1100h
Received Date: 7/11/2013 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2042h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.000500	**0.00141**	
Calcium	mg/L	7/12/2013 1225h	7/16/2013 1513h	E200.7	100	**346**	
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2327h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2327h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/16/2013 1513h	E200.7	100	**113**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 1917h	E200.8	0.0100	**1.65**	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1020h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.0100	**0.0112**	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 1917h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1130h	E200.7	1.00	**9.98**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.00500	< 0.00500	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/16/2013 1513h	E200.7	100	**278**	
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0116h	E200.8	0.000500	**0.000794**	
Tin	mg/L	7/12/2013 1225h	7/16/2013 1917h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2012h	E200.8	0.000200	**0.00622**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1130h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2208h	E200.8	0.0100	< 0.0100	

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-003
Client Sample ID: MW-25_07102013
Collection Date: 7/10/2013 1100h
Received Date: 7/11/2013 1500h

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Laboratory Director

Jose Rocha
QA Officer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2130h	E350.1	0.0500	**0.384**	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**350**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/12/2013 108h	E300.0	5.00	**28.0**	
Fluoride	mg/L		7/12/2013 1553h	E300.0	0.100	**0.534**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**4.93**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1615h	E353.2	0.100	< 0.100	
Sulfate	mg/L		7/12/2013 045h	E300.0	500	**1,320**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**35.3**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**38.9**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**2,840**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**1.23**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**2,310**	

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-003A
Client Sample ID: MW-25_07102013
Collection Date: 7/10/2013 1100h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 437h
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	54.6	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	46.1	50.00	92.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.0	50.00	100	80-124	
Surr: Toluene-d8	2037-26-5	45.5	50.00	90.9	77-129	

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GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: July 24, 2013

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

Client Sample ID:	MW-25_07102013	Project:	DNMI00100
Sample ID:	329520006	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	10-JUL-13 11:00		
Receive Date:	15-JUL-13		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha	U	1.00	+/-0.326	0.789	1.00	pCi/L		KDF1	07/20/13	1527	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			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.

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Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-002
Client Sample ID: MW-26_07112013
Collection Date: 7/11/2013 0640h
Received Date: 7/11/2013 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2036h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/12/2013 1225h	7/16/2013 1509h	E200.7	100	**489**	
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2322h	E200.8	0.0300	**0.263**	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2322h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/16/2013 1509h	E200.7	100	**165**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 1912h	E200.8	0.0100	**0.949**	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1018h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 1912h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1126h	E200.7	1.00	**11.4**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.00500	**0.0116**	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/16/2013 1509h	E200.7	100	**158**	
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0107h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/12/2013 1225h	7/16/2013 1912h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2007h	E200.8	0.000200	**0.0700**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1126h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2202h	E200.8	0.0100	< 0.0100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-002
Client Sample ID: MW-26_07112013
Collection Date: 7/11/2013 640h
Received Date: 7/11/2013 1500h

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Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2129h	E350.1	0.0500	**0.191**	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**344**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/11/2013 2335h	E300.0	10.0	**72.1**	
Fluoride	mg/L		7/12/2013 1530h	E300.0	0.100	**0.279**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**4.80**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1613h	E353.2	1.00	**1.98**	[1]
Sulfate	mg/L		7/11/2013 2312h	E300.0	500	**1,540**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**41.0**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**45.1**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**3,110**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**1.18**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**2,640**	

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

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-002A
Client Sample ID: MW-26_07112013
Collection Date: 7/11/2013 640h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 1620h
Units: µg/L **Dilution Factor:** 10 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	10.0	**2,410**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	584	500.0	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	480	500.0	96.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	536	500.0	107	80-124	
Surr: Toluene-d8	2037-26-5	470	500.0	94.1	77-129	

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

Analyzed: 7/12/2013 418h
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	
Chloromethane	74-87-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	**14.2**	
Naphthalene	91-20-3	1.00	< 1.00	
Tetrahydrofuran	109-99-9	1.00	< 1.00	
Toluene	108-88-3	1.00	< 1.00	
Xylenes, Total	1330-20-7	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.4	50.00	94.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.3	50.00	109	80-124	
Surr: Toluene-d8	2037-26-5	46.9	50.00	93.8	77-129	

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 24, 2013

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_07112013	Project:	DNMI00100
Sample ID:	329520002	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	11-JUL-13 06:40		
Receive Date:	15-JUL-13		
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		4.55	+/-0.619	0.726	1.00	pCi/L		KDF1	07/20/13	1526	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			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. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-005
Client Sample ID: MW-27_07172013
Collection Date: 7/17/2013 1100h
Received Date: 7/19/2013 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		7/22/2013 1753h	E300.0	10.0	**44.2**	
Nitrate/Nitrite (as N)	mg/L		7/23/2013 1754h	E353.2	1.00	**6.97**	
Total Dissolved Solids	mg/L		7/19/2013 1210h	SM2540C	20.0	**1,110**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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Certificate of Analysis

Report Date: August 14, 2013

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

Client Sample ID:	MW-27_07172013	Project:	DNMI00100
Sample ID:	329987002	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	17-JUL-13 11:00		
Receive Date:	22-JUL-13		
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	+/-0.181	0.378	1.00	pCi/L		KDF1	08/11/13	1029	1318324	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			95.9	(25%-125%)

Notes:

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

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-006
Client Sample ID: MW-28_07172013
Collection Date: 7/17/2013 1030h
Received Date: 7/19/2013 1010h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	7/19/2013 1145h	7/26/2013 1700h	E200.8	0.0100	**1.65**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-006
Client Sample ID: MW-28_07172013
Collection Date: 7/17/2013 1030h
Received Date: 7/19/2013 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		7/22/2013 1819h	E300.0	20.0	**107**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-007
Client Sample ID: MW-29_07172013
Collection Date: 7/17/2013 1400h
Received Date: 7/19/2013 1010h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Iron	mg/L	7/19/2013 1145h	7/26/2013 1747h	E200.8	0.100	**1.40**	
Manganese	mg/L	7/19/2013 1145h	7/28/2013 2356h	E200.8	0.0100	**5.14**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-007
Client Sample ID: MW-29_07172013
Collection Date: 7/17/2013 1400h
Received Date: 7/19/2013 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Total Dissolved Solids	mg/L		7/19/2013 1210h	SM2540C	20.0	**4,270**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-005
Client Sample ID: MW-30_07102013
Collection Date: 7/10/2013 1445h
Received Date: 7/11/2013 1500h

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Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2053h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/12/2013 1225h	7/16/2013 1534h	E200.7	100	**254**	
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2338h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2338h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/17/2013 1049h	E200.7	10.0	**69.8**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 1928h	E200.8	0.0100	**0.0259**	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1026h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 1928h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1138h	E200.7	1.00	**6.66**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.00500	**0.0365**	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/17/2013 1049h	E200.7	10.0	**106**	
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0132h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/12/2013 1225h	7/16/2013 1928h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2022h	E200.8	0.000200	**0.00748**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1138h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2234h	E200.8	0.0100	< 0.0100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-005
Client Sample ID: MW-30_07102013
Collection Date: 7/10/2013 1445h
Received Date: 7/11/2013 1500h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2132h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**157**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/12/2013 218h	E300.0	50.0	**130**	
Fluoride	mg/L		7/12/2013 1640h	E300.0	0.100	**0.368**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**-2.16**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1622h	E353.2	1.00	**17.6**	
Sulfate	mg/L		7/12/2013 218h	E300.0	50.0	**824**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**24.2**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**23.2**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**1,580**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**1.05**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**1,500**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-005A
Client Sample ID: MW-30_07102013
Collection Date: 7/10/2013 1445h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 515h
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	48.0	50.00	96.0	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.7	77-129	

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Certificate of Analysis

Report Date: July 24, 2013

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

Client Sample ID:	MW-30_07102013	Project:	DNMI00100
Sample ID:	329520003	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	10-JUL-13 14:45		
Receive Date:	15-JUL-13		
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	0.672	1.00	pCi/L		KDF1	07/20/13	1526	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.0	(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

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Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-006
Client Sample ID: MW-31_07092013
Collection Date: 7/9/2013 1305h
Received Date: 7/11/2013 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2058h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/12/2013 1225h	7/16/2013 1517h	E200.7	100	**199**	
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2343h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2343h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/17/2013 1046h	E200.7	1.00	**94.7**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 1949h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1028h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 1949h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1134h	E200.7	1.00	**6.05**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.00500	**0.0757**	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/17/2013 1046h	E200.7	1.00	**105**	
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0140h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/12/2013 1225h	7/16/2013 1949h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2017h	E200.8	0.000200	**0.00790**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1134h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2240h	E200.8	0.0100	< 0.0100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-006
Client Sample ID: MW-31_07092013
Collection Date: 7/9/2013 1305h
Received Date: 7/11/2013 1500h

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Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2134h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**174**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/12/2013 328h	E300.0	50.0	**182**	
Fluoride	mg/L		7/12/2013 1703h	E300.0	0.100	**0.844**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**-0.591**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1623h	E353.2	10.0	**21.7**	
Sulfate	mg/L		7/12/2013 328h	E300.0	50.0	**659**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**22.7**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**22.4**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**1,510**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**1.10**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**1,370**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-006A
Client Sample ID: MW-31_07092013
Collection Date: 7/9/2013 1305h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 534h
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	47.6	50.00	95.2	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	47.6	50.00	95.1	77-129	

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Laboratory Director
Jose Rocha
QA Officer

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 24, 2013

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

Client Sample ID:	MW-31_07092013	Project:	DNMI00100
Sample ID:	329520009	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	09-JUL-13 13:05		
Receive Date:	15-JUL-13		
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		1.07	+/-0.315	0.635	1.00	pCi/L		KDF1	07/20/13	1526	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.4	(25%-125%)

Notes:

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

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

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Certificate of Analysis

Report Date: July 24, 2013

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

Client Sample ID:	MW-32_07092013	Project:	DNMI00100
Sample ID:	329520008	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	09-JUL-13 12:35		
Receive Date:	15-JUL-13		
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		6.46	+/-0.717	0.666	1.00	pCi/L		KDF1	07/20/13	1526	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			98.9	(25%-125%)

Notes:

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

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-007
Client Sample ID: MW-35_07092013
Collection Date: 7/9/2013 1500h
Received Date: 7/11/2013 1500h

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Laboratory Director

Jose Rocha
QA Officer

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2104h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/12/2013 1225h	7/16/2013 1542h	E200.7	100	**496**	
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2349h	E200.8	0.0300	**0.0732**	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2349h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/16/2013 1542h	E200.7	100	**146**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 1955h	E200.8	0.0100	**0.250**	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1030h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 1955h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1146h	E200.7	1.00	**11.4**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.00500	**0.00801**	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/16/2013 1542h	E200.7	100	**358**	
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0148h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/12/2013 1225h	7/16/2013 1955h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2033h	E200.8	0.000200	**0.0230**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1146h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2245h	E200.8	0.0100	< 0.0100	

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-007
Client Sample ID: MW-35_07092013
Collection Date: 7/9/2013 1500h
Received Date: 7/11/2013 1500h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2139h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**346**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/12/2013 414h	E300.0	10.0	**64.3**	
Fluoride	mg/L		7/12/2013 1726h	E300.0	0.100	**0.398**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**5.04**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1625h	E353.2	0.100	< 0.100	
Sulfate	mg/L		7/12/2013 351h	E300.0	500	**1,870**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**47.6**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**52.6**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**3,960**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**1.26**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**3,150**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-007A
Client Sample ID: MW-35_07092013
Collection Date: 7/9/2013 1500h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 553h
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	58.2	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	47.8	50.00	95.6	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	47.6	50.00	95.3	77-129	

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 24, 2013

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_07092013	Project:	DNMI00100
Sample ID:	329520007	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	09-JUL-13 15:00		
Receive Date:	15-JUL-13		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		5.70	+/-0.698	0.736	1.00	pCi/L		KDF1	07/20/13	1526	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.0	(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: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-008
Client Sample ID: MW-36_07102013
Collection Date: 7/10/2013 0750h
Received Date: 7/11/2013 1500h

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Jose Rocha
QA Officer

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/12/2013 1225h	7/16/2013 2109h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/12/2013 1225h	7/16/2013 1546h	E200.7	100	**430**	
Chromium	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/12/2013 1225h	7/12/2013 2354h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/12/2013 1225h	7/12/2013 2354h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/12/2013 1225h	7/16/2013 1546h	E200.7	100	**131**	
Manganese	mg/L	7/12/2013 1225h	7/16/2013 2000h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	7/15/2013 1550h	7/16/2013 1031h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/12/2013 1225h	7/16/2013 2000h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/12/2013 1225h	7/17/2013 1150h	E200.7	1.00	**9.88**	
Selenium	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.00500	**0.267**	
Silver	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/12/2013 1225h	7/16/2013 1546h	E200.7	100	**631**	
Thallium	mg/L	7/12/2013 1225h	7/13/2013 0157h	E200.8	0.000500	**0.000734**	
Tin	mg/L	7/12/2013 1225h	7/16/2013 2000h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/12/2013 1225h	8/21/2013 2038h	E200.8	0.000200	**0.0233**	^
Vanadium	mg/L	7/12/2013 1225h	7/17/2013 1150h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/12/2013 1225h	7/12/2013 2250h	E200.8	0.0100	< 0.0100	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-008
Client Sample ID: MW-36_07102013
Collection Date: 7/10/2013 750h
Received Date: 7/11/2013 1500h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	7/18/2013 1030h	7/18/2013 2141h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	**302**	
Carbonate (as CaCO3)	mg/L		7/12/2013 1054h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/12/2013 501h	E300.0	10.0	**59.8**	
Fluoride	mg/L		7/12/2013 1749h	E300.0	0.100	**0.331**	
Ion Balance	%		7/18/2013 1332h	Calc.	-15.0	**-7.27**	
Nitrate/Nitrite (as N)	mg/L		7/16/2013 1626h	E353.2	0.100	**0.186**	
Sulfate	mg/L		7/17/2013 2116h	E300.0	500	**2,960**	
Total Anions, Measured	meq/L		7/18/2013 1332h	Calc.		**69.4**	
Total Cations, Measured	meq/L		7/18/2013 1332h	Calc.		**60.0**	
Total Dissolved Solids	mg/L		7/12/2013 1205h	SM2540C	20.0	**4,530**	
Total Dissolved Solids Ratio, Measured/Calculated			7/18/2013 1332h	Calc.		**1.03**	
Total Dissolved Solids, Calculated	mg/L		7/18/2013 1332h	Calc.		**4,400**	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-008A
Client Sample ID: MW-36_07102013
Collection Date: 7/10/2013 750h
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 612h
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	58.3	50.00	117	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	46.4	50.00	92.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.9	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	47.1	50.00	94.1	77-129	

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Kyle F. Gross
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Jose Rocha
QA Officer

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: July 24, 2013

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

Client Sample ID:	MW-36_07102013	Project:	DNMI00100
Sample ID:	329520005	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	10-JUL-13 07:50		
Receive Date:	15-JUL-13		
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		2.67	+/-0.490	0.761	1.00	pCi/L		KDF1	07/20/13	1527	1314887	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			97.4	(25%-125%)

Notes:

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

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-007
Client Sample ID: MW-37_07232013
Collection Date: 7/23/2013 0715h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	7/29/2013 0945h	8/5/2013 0527h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	7/29/2013 0945h	8/1/2013 1206h	E200.7	100	**467**	
Chromium	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0100	< 0.0100	
Copper	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0100	< 0.0100	
Iron	mg/L	7/29/2013 0945h	8/5/2013 0527h	E200.8	0.0300	< 0.0300	
Lead	mg/L	7/29/2013 0945h	8/5/2013 0527h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	7/29/2013 0945h	8/1/2013 1206h	E200.7	100	**123**	
Manganese	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	8/1/2013 1550h	8/5/2013 0809h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	7/29/2013 0945h	8/1/2013 1418h	E200.7	1.00	**14.4**	
Selenium	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.00500	**0.00906**	
Silver	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	7/29/2013 0945h	8/1/2013 1206h	E200.7	100	**478**	
Thallium	mg/L	7/29/2013 0945h	8/7/2013 1158h	E200.8	0.000500	< 0.000500	
Tin	mg/L	7/29/2013 0945h	8/7/2013 1015h	E200.8	0.100	< 0.100	
Uranium	mg/L	7/29/2013 0945h	8/5/2013 0559h	E200.8	0.000300	**0.0128**	
Vanadium	mg/L	7/29/2013 0945h	8/1/2013 1418h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	7/29/2013 0945h	8/5/2013 0455h	E200.8	0.0100	**0.0271**	

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Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-007
Client Sample ID: MW-37_07232013
Collection Date: 7/23/2013 0715h
Received Date: 7/26/2013 0910h

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Laboratory Director

Jose Rocha
QA Officer

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	8/5/2013 1400h	8/5/2013 1944h	E350.1	0.0500	< 0.0500	[1]
Bicarbonate (as CaCO3)	mg/L		7/31/2013 0722h	SM2320B	1.00	**211**	
Carbonate (as CaCO3)	mg/L		7/31/2013 0722h	SM2320B	1.00	< 1.00	
Chloride	mg/L		7/26/2013 2204h	E300.0	10.0	**43.2**	
Fluoride	mg/L		7/27/2013 0635h	E300.0	0.100	**0.284**	
Ion Balance	%		8/5/2013 0917h	Calc.	-15.0	**-6.45**	
Nitrate/Nitrite (as N)	mg/L		8/2/2013 2004h	E353.2	0.100	**0.368**	
Sulfate	mg/L		7/26/2013 2141h	E300.0	500	**2,720**	
Total Anions, Measured	meq/L		8/5/2013 0917h	Calc.		**62.1**	
Total Cations, Measured	meq/L		8/5/2013 0917h	Calc.		**54.6**	
Total Dissolved Solids	mg/L		7/25/2013 1415h	SM2540C	20.0	**3,890**	
Total Dissolved Solids Ratio, Measured/Calculated			8/5/2013 0917h	Calc.		**0.979**	
Total Dissolved Solids, Calculated	mg/L		8/5/2013 0917h	Calc.		**3,970**	

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

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Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-007B
Client Sample ID: MW-37_07232013
Collection Date: 7/23/2013 0715h
Received Date: 7/26/2013 0910h

Test Code: 8260-W

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/26/2013 1406h
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	45.6	50.00	91.2	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.2	50.00	110	80-128	
Surr: Dibromofluoromethane	1868-53-7	46.9	50.00	93.8	80-124	
Surr: Toluene-d8	2037-26-5	54.5	50.00	109	77-129	

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 17, 2013

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

Client Sample ID:	MW-37_07232013	Project:	DNMI00100
Sample ID:	330123001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	23-JUL-13 07:15		
Receive Date:	24-JUL-13		
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	+/-0.214	0.440	1.00	pCi/L		KDF1	08/11/13	1030	1318324	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			95.2	(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: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-008
Client Sample ID: MW-65_07172013
Collection Date: 7/17/2013 1400h
Received Date: 7/19/2013 1010h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Iron	mg/L	7/19/2013 1145h	7/26/2013 1753h	E200.8	0.100	**1.43**	
Manganese	mg/L	7/19/2013 1145h	7/29/2013 001h	E200.8	0.0100	**5.04**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307411-008
Client Sample ID: MW-65_07172013
Collection Date: 7/17/2013 1400h
Received Date: 7/19/2013 1010h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Total Dissolved Solids	mg/L		7/19/2013 1210h	SM2540C	20.0	**4,420**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-008
Client Sample ID: MW-70_07182013
Collection Date: 7/18/2013 1145h
Received Date: 7/26/2013 0910h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Iron	mg/L	7/29/2013 0945h	8/12/2013 1259h	E200.8	0.0300	< 0.0300	
Selenium	mg/L	7/29/2013 0945h	8/5/2013 0500h	E200.8	0.00500	**0.108**	

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Jose Rocha
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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Sample ID: 1307232-009A
Client Sample ID: Trip Blank
Collection Date: 7/9/2013
Received Date: 7/11/2013 1500h

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/12/2013 632h
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	58.1	50.00	116	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.4	50.00	98.8	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.4	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	47.7	50.00	95.4	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Sample ID: 1307553-009A
Client Sample ID: Trip Blank
Collection Date: 7/23/2013
Received Date: 7/26/2013 0910h

Test Code: 8260-W

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 7/26/2013 1425h
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	47.0	50.00	94.0	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	47.6	50.00	95.3	80-124	
Surr: Toluene-d8	2037-26-5	53.6	50.00	107	77-129	

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

RE: 3rd Quarter Ground Water 2013

Dear Garrin Palmer: Lab Set ID: 1307232

American West Analytical Laboratories received 9 sample(s) on 7/11/2013 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.

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.

This is a revision to a report originally issued 7/22/2013. Pages 1, 7-14, and 34-39 have been revised.

Thank You,

Approved by: Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.08.27 14:23:01 -06'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Set ID: 1307232
Date Received: 7/11/2013 1500h

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Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1307232-001A	MW-14_07112013	7/11/2013	835h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-001B	MW-14_07112013	7/11/2013	835h	Aqueous	Anions, E300.0
1307232-001B	MW-14_07112013	7/11/2013	835h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-001C	MW-14_07112013	7/11/2013	835h	Aqueous	Total Dissolved Solids, A2540C
1307232-001D	MW-14_07112013	7/11/2013	835h	Aqueous	Ammonia, Aqueous
1307232-001D	MW-14_07112013	7/11/2013	835h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-001E	MW-14_07112013	7/11/2013	835h	Aqueous	ICP Metals, Dissolved
1307232-001E	MW-14_07112013	7/11/2013	835h	Aqueous	ICPMS Metals, Dissolved
1307232-001E	MW-14_07112013	7/11/2013	835h	Aqueous	Ion Balance
1307232-001E	MW-14_07112013	7/11/2013	835h	Aqueous	Mercury, Drinking Water Dissolved
1307232-002A	MW-26_07112013	7/11/2013	640h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-002B	MW-26_07112013	7/11/2013	640h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-002B	MW-26_07112013	7/11/2013	640h	Aqueous	Anions, E300.0
1307232-002C	MW-26_07112013	7/11/2013	640h	Aqueous	Total Dissolved Solids, A2540C
1307232-002D	MW-26_07112013	7/11/2013	640h	Aqueous	Ammonia, Aqueous
1307232-002D	MW-26_07112013	7/11/2013	640h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-002E	MW-26_07112013	7/11/2013	640h	Aqueous	Ion Balance
1307232-002E	MW-26_07112013	7/11/2013	640h	Aqueous	ICPMS Metals, Dissolved
1307232-002E	MW-26_07112013	7/11/2013	640h	Aqueous	Mercury, Drinking Water Dissolved
1307232-002E	MW-26_07112013	7/11/2013	640h	Aqueous	ICP Metals, Dissolved
1307232-003A	MW-25_07102013	7/10/2013	1100h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-003B	MW-25_07102013	7/10/2013	1100h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-003B	MW-25_07102013	7/10/2013	1100h	Aqueous	Anions, E300.0
1307232-003C	MW-25_07102013	7/10/2013	1100h	Aqueous	Total Dissolved Solids, A2540C
1307232-003D	MW-25_07102013	7/10/2013	1100h	Aqueous	Ammonia, Aqueous
1307232-003D	MW-25_07102013	7/10/2013	1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-003E	MW-25_07102013	7/10/2013	1100h	Aqueous	ICPMS Metals, Dissolved
1307232-003E	MW-25_07102013	7/10/2013	1100h	Aqueous	Ion Balance
1307232-003E	MW-25_07102013	7/10/2013	1100h	Aqueous	Mercury, Drinking Water Dissolved

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2013
Lab Set ID: 1307232
Date Received: 7/11/2013 1500h

Contact: Garrin Palmer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1307232-003E	MW-25_07102013	7/10/2013	1100h	Aqueous	ICP Metals, Dissolved
1307232-004A	MW-11_07102013	7/10/2013	1335h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-004B	MW-11_07102013	7/10/2013	1335h	Aqueous	Anions, E300.0
1307232-004B	MW-11_07102013	7/10/2013	1335h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-004C	MW-11_07102013	7/10/2013	1335h	Aqueous	Total Dissolved Solids, A2540C
1307232-004D	MW-11_07102013	7/10/2013	1335h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-004D	MW-11_07102013	7/10/2013	1335h	Aqueous	Ammonia, Aqueous
1307232-004E	MW-11_07102013	7/10/2013	1335h	Aqueous	Mercury, Drinking Water Dissolved
1307232-004E	MW-11_07102013	7/10/2013	1335h	Aqueous	ICPMS Metals, Dissolved
1307232-004E	MW-11_07102013	7/10/2013	1335h	Aqueous	ICP Metals, Dissolved
1307232-004E	MW-11_07102013	7/10/2013	1335h	Aqueous	Ion Balance
1307232-005A	MW-30_07102013	7/10/2013	1445h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-005B	MW-30_07102013	7/10/2013	1445h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-005B	MW-30_07102013	7/10/2013	1445h	Aqueous	Anions, E300.0
1307232-005C	MW-30_07102013	7/10/2013	1445h	Aqueous	Total Dissolved Solids, A2540C
1307232-005D	MW-30_07102013	7/10/2013	1445h	Aqueous	Ammonia, Aqueous
1307232-005D	MW-30_07102013	7/10/2013	1445h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-005E	MW-30_07102013	7/10/2013	1445h	Aqueous	ICPMS Metals, Dissolved
1307232-005E	MW-30_07102013	7/10/2013	1445h	Aqueous	Mercury, Drinking Water Dissolved
1307232-005E	MW-30_07102013	7/10/2013	1445h	Aqueous	Ion Balance
1307232-005E	MW-30_07102013	7/10/2013	1445h	Aqueous	ICP Metals, Dissolved
1307232-006A	MW-31_07092013	7/9/2013	1305h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-006B	MW-31_07092013	7/9/2013	1305h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-006B	MW-31_07092013	7/9/2013	1305h	Aqueous	Anions, E300.0
1307232-006C	MW-31_07092013	7/9/2013	1305h	Aqueous	Total Dissolved Solids, A2540C
1307232-006D	MW-31_07092013	7/9/2013	1305h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-006D	MW-31_07092013	7/9/2013	1305h	Aqueous	Ammonia, Aqueous
1307232-006E	MW-31_07092013	7/9/2013	1305h	Aqueous	Mercury, Drinking Water Dissolved
1307232-006E	MW-31_07092013	7/9/2013	1305h	Aqueous	Ion Balance
1307232-006E	MW-31_07092013	7/9/2013	1305h	Aqueous	ICP Metals, Dissolved
1307232-006E	MW-31_07092013	7/9/2013	1305h	Aqueous	ICPMS Metals, Dissolved

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American West
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Client: Energy Fuels Resources, Inc.
Project: 3rd Quarter Ground Water 2013
Lab Set ID: 1307232
Date Received: 7/11/2013 1500h

Contact: Garrin Palmer

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1307232-007A	MW-35_07092013	7/9/2013	1500h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-007B	MW-35_07092013	7/9/2013	1500h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-007B	MW-35_07092013	7/9/2013	1500h	Aqueous	Anions, E300.0
1307232-007C	MW-35_07092013	7/9/2013	1500h	Aqueous	Total Dissolved Solids, A2540C
1307232-007D	MW-35_07092013	7/9/2013	1500h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-007D	MW-35_07092013	7/9/2013	1500h	Aqueous	Ammonia, Aqueous
1307232-007E	MW-35_07092013	7/9/2013	1500h	Aqueous	Ion Balance
1307232-007E	MW-35_07092013	7/9/2013	1500h	Aqueous	ICPMS Metals, Dissolved
1307232-007E	MW-35_07092013	7/9/2013	1500h	Aqueous	Mercury, Drinking Water Dissolved
1307232-007E	MW-35_07092013	7/9/2013	1500h	Aqueous	ICP Metals, Dissolved
1307232-008A	MW-36_07102013	7/10/2013	750h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307232-008B	MW-36_07102013	7/10/2013	750h	Aqueous	Anions, E300.0
1307232-008B	MW-36_07102013	7/10/2013	750h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307232-008C	MW-36_07102013	7/10/2013	750h	Aqueous	Total Dissolved Solids, A2540C
1307232-008D	MW-36_07102013	7/10/2013	750h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307232-008D	MW-36_07102013	7/10/2013	750h	Aqueous	Ammonia, Aqueous
1307232-008E	MW-36_07102013	7/10/2013	750h	Aqueous	ICP Metals, Dissolved
1307232-008E	MW-36_07102013	7/10/2013	750h	Aqueous	Mercury, Drinking Water Dissolved
1307232-008E	MW-36_07102013	7/10/2013	750h	Aqueous	ICPMS Metals, Dissolved
1307232-008E	MW-36_07102013	7/10/2013	750h	Aqueous	Ion Balance
1307232-009A	Trip Blank	7/9/2013		Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Set ID: 1307232

Sample Receipt Information:

Date of Receipt: 7/11/2013
Date(s) of Collection: 7/9, 7/10 & 7/11/2013
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, 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
1307232-001E	Calcium	MSD	High analyte concentration
1307232-001E	Sodium	MS/MSD	High analyte concentration
1307232-002D	Nitrate/Nitrite (as N)	MS/MSD	Sample matrix interference

Duplicates (DUP): The parameters that require a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	3rd Quarter Ground Water 2013
Lab Set ID:	1307232

Sample Receipt Information:

Date of Receipt:	7/11/2013
Date(s) of Collection:	7/9, 7/10 & 7/11/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: Multiple target analytes were observed above reporting limits on sample MW-26_07112013 (AWAL 1307232-002A).

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.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges o
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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-26594**	Date Analyzed:	07/16/2013 1445h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Calcium		9.20	mg/L	E200.7	0.0227	1.00	10.00	0	92.0	85 - 115				
Magnesium		9.10	mg/L	E200.7	0.102	1.00	10.00	0	91.0	85 - 115				
Potassium		9.09	mg/L	E200.7	0.203	1.00	10.00	0	90.9	85 - 115				
Sodium		8.96	mg/L	E200.7	0.0514	1.00	10.00	0	89.6	85 - 115				
Vanadium		0.188	mg/L	E200.7	0.00150	0.00500	0.2000	0	93.8	85 - 115				
Lab Sample ID:	**LCS-26595**	Date Analyzed:	07/13/2013 014h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Thallium		0.186	mg/L	E200.8	0.000222	0.00200	0.2000	0	93.1	85 - 115				
Lab Sample ID:	**LCS-26595**	Date Analyzed:	07/12/2013 2131h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Arsenic		0.186	mg/L	E200.8	0.00118	0.00200	0.2000	0	93.2	85 - 115				
Cadmium		0.191	mg/L	E200.8	0.0000726	0.000500	0.2000	0	95.6	85 - 115				
Chromium		0.199	mg/L	E200.8	0.000938	0.00200	0.2000	0	99.7	85 - 115				
Cobalt		0.197	mg/L	E200.8	0.00364	0.00400	0.2000	0	98.3	85 - 115				
Copper		0.198	mg/L	E200.8	0.00152	0.00200	0.2000	0	99.0	85 - 115				
Iron		0.977	mg/L	E200.8	0.0472	0.100	1.000	0	97.7	85 - 115				
Lead		0.184	mg/L	E200.8	0.00126	0.00200	0.2000	0	92.2	85 - 115				
Molybdenum		0.187	mg/L	E200.8	0.000496	0.00200	0.2000	0	93.6	85 - 115				
Selenium		0.195	mg/L	E200.8	0.000686	0.00200	0.2000	0	97.4	85 - 115				
Silver		0.186	mg/L	E200.8	0.000101	0.00200	0.2000	0	93.0	85 - 115				
Uranium		0.181	mg/L	E200.8	0.0000598	0.00200	0.2000	0	90.3	85 - 115				
Zinc		0.969	mg/L	E200.8	0.00368	0.00500	1.000	0	96.9	85 - 115				
Lab Sample ID:	**LCS-26595**	Date Analyzed:	07/16/2013 1846h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Beryllium		0.212	mg/L	E200.8	0.0000698	0.00200	0.2000	0	106	85 - 115				
Manganese		0.202	mg/L	E200.8	0.00166	0.00200	0.2000	0	101	85 - 115				
Nickel		0.208	mg/L	E200.8	0.000898	0.00200	0.2000	0	104	85 - 115				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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-26595**	Date Analyzed:	07/16/2013 1846h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Tin		1.01	mg/L	E200.8	0.000620	0.00200	1.000	0	101	85 - 115				
Lab Sample ID:	**LCS-26644**	Date Analyzed:	07/16/2013 1008h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	07/15/2013 1550h											
Mercury		0.00351	mg/L	E245.1	0.0000175	0.000150	0.003330	0	105	85 - 115				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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-26594**	Date Analyzed:	07/16/2013 1441h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Calcium		< 1.00	mg/L	E200.7	0.0227	1.00								
Magnesium		< 1.00	mg/L	E200.7	0.102	1.00								
Potassium		< 1.00	mg/L	E200.7	0.203	1.00								
Sodium		< 1.00	mg/L	E200.7	0.0514	1.00								
Vanadium		< 0.00500	mg/L	E200.7	0.00150	0.00500								
Lab Sample ID:	**MB-26595**	Date Analyzed:	07/13/2013 0006h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Thallium		< 0.000500	mg/L	E200.8	0.0000555	0.000500								
Lab Sample ID:	**MB-26595**	Date Analyzed:	07/12/2013 2125h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Arsenic		< 0.00500	mg/L	E200.8	0.00118	0.00500								
Cadmium		< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Chromium		< 0.0250	mg/L	E200.8	0.000938	0.0250								
Cobalt		< 0.0100	mg/L	E200.8	0.00364	0.0100								
Copper		< 0.0100	mg/L	E200.8	0.00152	0.0100								
Molybdenum		< 0.0100	mg/L	E200.8	0.000496	0.0100								
Selenium		< 0.00500	mg/L	E200.8	0.000686	0.00500								
Silver		< 0.0100	mg/L	E200.8	0.000101	0.0100								
Zinc		< 0.0100	mg/L	E200.8	0.00368	0.0100								
Lab Sample ID:	**MB-26595**	Date Analyzed:	07/12/2013 2311h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Iron		< 0.0300	mg/L	E200.8	0.0118	0.0300								
Lead		< 0.00100	mg/L	E200.8	0.000316	0.00100								
Lab Sample ID:	**MB-26595**	Date Analyzed:	07/16/2013 1840h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Manganese		< 0.0100	mg/L	E200.8	0.00166	0.0100								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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-26595**	Date Analyzed:	07/16/2013 1840h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Nickel		< 0.0200	mg/L	E200.8	0.000898	0.0200								
Tin		< 0.100	mg/L	E200.8	0.000620	0.100								
Lab Sample ID:	**MB-26595**	Date Analyzed:	07/16/2013 2021h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Beryllium		< 0.000500	mg/L	E200.8	0.0000174	0.000500								
Lab Sample ID:	**MB-26595**	Date Analyzed:	08/21/2013 1956h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Uranium		< 0.000200	mg/L	E200.8	0.00000598	0.000200								^
Lab Sample ID:	**MB-26644**	Date Analyzed:	07/16/2013 1007h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	07/15/2013 1550h											
Mercury		< 0.000150	mg/L	E245.1	0.0000175	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: 1307232
Project: 3rd Quarter Ground Water 2013

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:	**1307232-001EMS**	Date Analyzed:	07/16/2013 1501h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Calcium		493	mg/L	E200.7	2.27	100	10.00	483	96.8	70 - 130				
Magnesium		150	mg/L	E200.7	10.2	100	10.00	143	72.1	70 - 130				
Sodium		318	mg/L	E200.7	5.14	100	10.00	314	40.8	70 - 130				
Lab Sample ID:	**1307232-001EMS**	Date Analyzed:	07/17/2013 1038h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Potassium		21.0	mg/L	E200.7	1.02	5.00	10.00	10.9	101	70 - 130				
Lab Sample ID:	**1307232-001EMS**	Date Analyzed:	07/17/2013 1119h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Vanadium		0.202	mg/L	E200.7	0.00150	0.00500	0.2000	0	101	70 - 130				
Lab Sample ID:	**1307232-001EMS**	Date Analyzed:	07/13/2013 0030h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Thallium		0.180	mg/L	E200.8	0.000222	0.00200	0.2000	0.000401	89.8	75 - 125				
Lab Sample ID:	**1307232-001EMS**	Date Analyzed:	07/12/2013 2152h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Arsenic		0.214	mg/L	E200.8	0.00118	0.00200	0.2000	0	107	75 - 125				
Cadmium		0.207	mg/L	E200.8	0.0000726	0.000500	0.2000	0.00129	103	75 - 125				
Chromium		0.208	mg/L	E200.8	0.000938	0.00200	0.2000	0	104	75 - 125				
Cobalt		0.208	mg/L	E200.8	0.00364	0.00400	0.2000	0	104	75 - 125				
Copper		0.204	mg/L	E200.8	0.00152	0.00200	0.2000	0	102	75 - 125				
Iron		1.03	mg/L	E200.8	0.0472	0.100	1.000	0	103	75 - 125				
Lead		0.192	mg/L	E200.8	0.00126	0.00200	0.2000	0	95.8	75 - 125				
Molybdenum		0.209	mg/L	E200.8	0.000496	0.00200	0.2000	0.00354	103	75 - 125				
Selenium		0.205	mg/L	E200.8	0.000686	0.00200	0.2000	0	102	75 - 125				
Silver		0.195	mg/L	E200.8	0.000101	0.00200	0.2000	0	97.5	75 - 125				
Uranium		0.245	mg/L	E200.8	0.0000598	0.00200	0.2000	0.0624	91.1	75 - 125				
Zinc		1.03	mg/L	E200.8	0.00368	0.00500	1.000	0.0114	102	75 - 125				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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:	**1307232-001EMS**	Date Analyzed:	07/16/2013 1902h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Beryllium		0.209	mg/L	E200.8	0.000174	0.00500	0.2000	0	104	75 - 125				
Manganese		2.34	mg/L	E200.8	0.00416	0.00500	0.2000	2.1	122	75 - 125				
Nickel		0.210	mg/L	E200.8	0.00224	0.00500	0.2000	0.00419	103	75 - 125				
Tin		1.00	mg/L	E200.8	0.00155	0.00500	1.000	0	100	75 - 125				
Lab Sample ID:	**1307232-001EMS**	Date Analyzed:	07/16/2013 1015h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	07/15/2013 1550h											
Mercury		0.00361	mg/L	E245.1	0.0000175	0.000150	0.003330	0	108	85 - 115				

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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: 1307232
Project: 3rd Quarter Ground Water 2013

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:	**1307232-001EMSD**	Date Analyzed:	07/16/2013 1505h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Calcium		485	mg/L	E200.7	2.27	100	10.00	483	10.9	70 - 130	493	1.76	20	²
Magnesium		150	mg/L	E200.7	10.2	100	10.00	143	74.7	70 - 130	150	0.169	20	
Sodium		314	mg/L	E200.7	5.14	100	10.00	314	-0.821	70 - 130	318	1.32	20	²
Lab Sample ID:	**1307232-001EMSD**	Date Analyzed:	07/17/2013 1042h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Potassium		21.2	mg/L	E200.7	1.02	5.00	10.00	10.9	103	70 - 130	21	0.948	20	
Lab Sample ID:	**1307232-001EMSD**	Date Analyzed:	07/17/2013 1122h											
Test Code:	200.7-DIS	Date Prepared:	07/12/2013 1225h											
Vanadium		0.197	mg/L	E200.7	0.00150	0.00500	0.2000	0	98.6	70 - 130	0.202	2.64	20	
Lab Sample ID:	**1307232-001EMSD**	Date Analyzed:	07/13/2013 0039h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Thallium		0.179	mg/L	E200.8	0.000222	0.00200	0.2000	0.000401	89.5	75 - 125	0.18	0.283	20	
Lab Sample ID:	**1307232-001EMSD**	Date Analyzed:	07/12/2013 2157h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Arsenic		0.225	mg/L	E200.8	0.00118	0.00200	0.2000	0	113	75 - 125	0.214	5.03	20	
Cadmium		0.214	mg/L	E200.8	0.0000726	0.000500	0.2000	0.00129	106	75 - 125	0.207	3.41	20	
Chromium		0.212	mg/L	E200.8	0.000938	0.00200	0.2000	0	106	75 - 125	0.208	2.12	20	
Cobalt		0.213	mg/L	E200.8	0.00364	0.00400	0.2000	0	107	75 - 125	0.208	2.47	20	
Copper		0.210	mg/L	E200.8	0.00152	0.00200	0.2000	0	105	75 - 125	0.204	3.14	20	
Iron		1.06	mg/L	E200.8	0.0472	0.100	1.000	0	106	75 - 125	1.03	2.77	20	
Lead		0.201	mg/L	E200.8	0.00126	0.00200	0.2000	0	101	75 - 125	0.192	4.78	20	
Molybdenum		0.218	mg/L	E200.8	0.000496	0.00200	0.2000	0.00354	107	75 - 125	0.209	4.50	20	
Selenium		0.215	mg/L	E200.8	0.000686	0.00200	0.2000	0	107	75 - 125	0.205	4.82	20	
Silver		0.205	mg/L	E200.8	0.000101	0.00200	0.2000	0	102	75 - 125	0.195	4.75	20	
Uranium		0.257	mg/L	E200.8	0.0000598	0.00200	0.2000	0.0624	97.2	75 - 125	0.245	4.86	20	^
Zinc		1.06	mg/L	E200.8	0.00368	0.00500	1.000	0.0114	105	75 - 125	1.03	2.82	20	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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:	**1307232-001EMSD**	Date Analyzed:	07/16/2013 1907h											
Test Code:	200.8-DIS	Date Prepared:	07/12/2013 1225h											
Beryllium		0.206	mg/L	E200.8	0.000174	0.00500	0.2000	0	103	75 - 125	0.209	1.02	20	
Manganese		2.33	mg/L	E200.8	0.00416	0.00500	0.2000	2.1	115	75 - 125	2.34	0.616	20	
Nickel		0.213	mg/L	E200.8	0.00224	0.00500	0.2000	0.00419	104	75 - 125	0.21	1.47	20	
Tin		0.979	mg/L	E200.8	0.00155	0.00500	1.000	0	97.9	75 - 125	1	2.55	20	
Lab Sample ID:	**1307232-001EMSD**	Date Analyzed:	07/16/2013 1017h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	07/15/2013 1550h											
Mercury		0.00348	mg/L	E245.1	0.0000175	0.000150	0.003330	0	105	85 - 115	0.00361	3.64	20	

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

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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: 1307232-001CDUP Date Analyzed: 07/12/2013 1205h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	3,520	mg/L	SM2540C	8.00	20.0					3600	2.24	5	

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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-R56762 Date Analyzed: 07/11/2013 1830h													
Test Code: 300.0-W													
Chloride	4.71	mg/L	E300.0	0.0114	1.00	5.000	0	94.3	90 - 110				
Fluoride	5.01	mg/L	E300.0	0.0126	0.100	5.000	0	100	90 - 110				
Sulfate	4.97	mg/L	E300.0	0.177	1.00	5.000	0	99.3	90 - 110				
Lab Sample ID: LCS-R56955 Date Analyzed: 07/17/2013 1611h													
Test Code: 300.0-W													
Sulfate	5.25	mg/L	E300.0	0.177	0.750	5.000	0	105	90 - 110				
Lab Sample ID: LCS-R56738 Date Analyzed: 07/12/2013 1054h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	52,000	mg/L	SM2320B	4.53	10.0	50,000	0	104	90 - 110				
Lab Sample ID: LCS-26697 Date Analyzed: 07/18/2013 2124h													
Test Code: NH3-W-350.1 Date Prepared: 07/18/2013 1030h													
Ammonia (as N)	0.919	mg/L	E350.1	0.0277	0.0500	1.000	0	91.9	90 - 110				
Lab Sample ID: LCS-R56876 Date Analyzed: 07/16/2013 1546h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.07	mg/L	E353.2	0.00252	0.100	1.000	0	107	90 - 110				
Lab Sample ID: LCS-R56813 Date Analyzed: 07/12/2013 1205h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	204	mg/L	SM2540C	4.00	10.0	205.0	0	99.5	80 - 120				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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-R56762 Date Analyzed: 07/11/2013 1804h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Fluoride	< 0.100	mg/L	E300.0	0.0126	0.100								
Sulfate	< 1.00	mg/L	E300.0	0.177	1.00								
Lab Sample ID: MB-R56955 Date Analyzed: 07/17/2013 1546h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.177	0.750								
Lab Sample ID: MB-R56738 Date Analyzed: 07/12/2013 1054h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 10.0	mg/L	SM2320B	4.53	10.0								
Carbonate (as CaCO3)	< 10.0	mg/L	SM2320B	4.53	10.0								
Lab Sample ID: MB-26697 Date Analyzed: 07/18/2013 2123h													
Test Code: NH3-W-350.1 Date Prepared: 07/18/2013 1030h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0277	0.0500								
Lab Sample ID: MB-R56876 Date Analyzed: 07/16/2013 1545h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
Lab Sample ID: MB-R56813 Date Analyzed: 07/12/2013 1205h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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: 1307232-001BMS Date Analyzed: 07/11/2013 2138h													
Test Code: 300.0-W													
Chloride	23,600	mg/L	E300.0	57.0	5,000	25,000	27.3	94.5	90 - 110				
Fluoride	25,000	mg/L	E300.0	63.0	500	25,000	0	100	90 - 110				
Sulfate	26,700	mg/L	E300.0	885	5,000	25,000	1910	99.0	90 - 110				
Lab Sample ID: 1307232-002BMS Date Analyzed: 07/11/2013 2358h													
Test Code: 300.0-W													
Chloride	24,000	mg/L	E300.0	57.0	5,000	25,000	68.1	95.6	90 - 110				
Sulfate	26,900	mg/L	E300.0	885	5,000	25,000	1540	101	90 - 110				
Lab Sample ID: 1307232-001BMS Date Analyzed: 07/12/2013 1054h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	453	mg/L	SM2320B	4.53	10.0	50.00	400	106	80 - 120				
Lab Sample ID: 1307232-001DMS Date Analyzed: 07/18/2013 2126h													
Test Code: NH3-W-350.1 Date Prepared: 07/18/2013 1030h													
Ammonia (as N)	0.950	mg/L	E350.1	0.0277	0.0500	1.000	0	95.0	90 - 110				
Lab Sample ID: 1307232-008DMS Date Analyzed: 07/18/2013 2142h													
Test Code: NH3-W-350.1 Date Prepared: 07/18/2013 1030h													
Ammonia (as N)	0.977	mg/L	E350.1	0.0277	0.0500	1.000	0	97.7	90 - 110				
Lab Sample ID: 1307232-002DMS Date Analyzed: 07/16/2013 1627h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	13.3	mg/L	E353.2	0.0252	1.00	10.00	1.98	113	90 - 110				1

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: 1307232
Project: 3rd Quarter Ground Water 2013

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: 1307232-001BMSD Date Analyzed: 07/11/2013 2248h													
Test Code: 300.0-W													
Chloride	22,800	mg/L	E300.0	57.0	5,000	25,000	27.3	91.0	90 - 110	23600	3.72	20	
Fluoride	24,000	mg/L	E300.0	63.0	500	25,000	0	96.0	90 - 110	25000	4.14	20	
Sulfate	25,500	mg/L	E300.0	885	5,000	25,000	1910	94.5	90 - 110	26700	4.37	20	
Lab Sample ID: 1307232-002BMSD Date Analyzed: 07/12/2013 021h													
Test Code: 300.0-W													
Chloride	24,000	mg/L	E300.0	57.0	5,000	25,000	68.1	95.6	90 - 110	24000	0.0255	20	
Sulfate	26,800	mg/L	E300.0	885	5,000	25,000	1540	101	90 - 110	26900	0.229	20	
Lab Sample ID: 1307232-001BMSD Date Analyzed: 07/12/2013 1054h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	451	mg/L	SM2320B	4.53	10.0	50.00	400	102	80 - 120	453	0.421	10	
Lab Sample ID: 1307232-001DMSD Date Analyzed: 07/18/2013 2128h													
Test Code: NH3-W-350.1 Date Prepared: 07/18/2013 1030h													
Ammonia (as N)	0.938	mg/L	E350.1	0.0277	0.0500	1.000	0	93.8	90 - 110	0.951	1.30	10	
Lab Sample ID: 1307232-008DMSD Date Analyzed: 07/18/2013 2143h													
Test Code: NH3-W-350.1 Date Prepared: 07/18/2013 1030h													
Ammonia (as N)	0.937	mg/L	E350.1	0.0277	0.0500	1.000	0	93.7	90 - 110	0.977	4.19	10	
Lab Sample ID: 1307232-002DMSD Date Analyzed: 07/16/2013 1629h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	13.5	mg/L	E353.2	0.0252	1.00	10.00	1.98	115	90 - 110	13.3	1.54	10	[1]

[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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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 071113B Date Analyzed: 07/11/2013 2333h													
Test Code: 8260-W													
Benzene	21.7	µg/L	SW8260C	0.149	2.00	20.00	0	109	62 - 127				
Chloroform	20.9	µg/L	SW8260C	0.277	2.00	20.00	0	105	67 - 132				
Methylene chloride	19.1	µg/L	SW8260C	0.155	2.00	20.00	0	95.6	32 - 185				
Naphthalene	17.8	µg/L	SW8260C	0.547	2.00	20.00	0	89.0	28 - 136				
Tetrahydrofuran	15.1	µg/L	SW8260C	0.874	2.00	20.00	0	75.4	43 - 146				
Toluene	23.9	µg/L	SW8260C	0.429	2.00	20.00	0	120	64 - 129				
Xylenes, Total	69.9	µg/L	SW8260C	0.870	2.00	60.00	0	116	52 - 134				
Surr: 1,2-Dichloroethane-d4	46.7	µg/L	SW8260C			50.00		93.4	76 - 138				
Surr: 4-Bromofluorobenzene	48.8	µg/L	SW8260C			50.00		97.6	77 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.5	67 - 128				
Surr: Toluene-d8	49.2	µg/L	SW8260C			50.00		98.5	81 - 135				
Lab Sample ID: LCS VOC 071213A Date Analyzed: 07/12/2013 1036h													
Test Code: 8260-W													
Benzene	21.8	µg/L	SW8260C	0.149	2.00	20.00	0	109	62 - 127				
Chloroform	24.6	µg/L	SW8260C	0.277	2.00	20.00	0	123	67 - 132				
Methylene chloride	26.0	µg/L	SW8260C	0.155	2.00	20.00	0	130	32 - 185				
Naphthalene	17.4	µg/L	SW8260C	0.547	2.00	20.00	0	87.0	28 - 136				
Tetrahydrofuran	16.1	µg/L	SW8260C	0.874	2.00	20.00	0	80.3	43 - 146				
Toluene	22.6	µg/L	SW8260C	0.429	2.00	20.00	0	113	64 - 129				
Xylenes, Total	69.4	µg/L	SW8260C	0.870	2.00	60.00	0	116	52 - 134				
Surr: 1,2-Dichloroethane-d4	54.6	µg/L	SW8260C			50.00		109	76 - 138				
Surr: 4-Bromofluorobenzene	45.8	µg/L	SW8260C			50.00		91.5	77 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	46.8	µg/L	SW8260C			50.00		93.5	81 - 135				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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 071113B Date Analyzed: 07/12/2013 011h													
Test Code: 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.45	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.35	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	1.28	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								
Surr: 1,2-Dichloroethane-d4	48.8	µg/L	SW8260C			50.00		97.5	76 - 138				
Surr: 4-Bromofluorobenzene	49.1	µg/L	SW8260C			50.00		98.1	77 - 121				
Surr: Dibromofluoromethane	48.5	µg/L	SW8260C			50.00		97.0	67 - 128				
Surr: Toluene-d8	48.8	µg/L	SW8260C			50.00		97.7	81 - 135				
Lab Sample ID: MB VOC 071213A Date Analyzed: 07/12/2013 1114h													
Test Code: 8260-W													
2-Butanone	< 20.0	µg/L	SW8260C	1.45	20.0								
Acetone	< 20.0	µg/L	SW8260C	3.35	20.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								

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Kyle F. Gross
Laboratory Director

Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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 071213A Date Analyzed: 07/12/2013 1114h													
Test Code: 8260-W													
Surr: 1,2-Dichloroethane-d4	57.9	µg/L	SW8260C			50.00		116	76 - 138				
Surr: 4-Bromofluorobenzene	46.3	µg/L	SW8260C			50.00		92.6	77 - 121				
Surr: Dibromofluoromethane	52.2	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	47.4	µg/L	SW8260C			50.00		94.8	81 - 135				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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: 1307232-001AMS Date Analyzed: 07/12/2013 651h													
Test Code: 8260-W													
Benzene	21.2	µg/L	SW8260C	0.149	2.00	20.00	0	106	66 - 145				
Chloroform	23.8	µg/L	SW8260C	0.277	2.00	20.00	0	119	50 - 146				
Methylene chloride	24.8	µg/L	SW8260C	0.155	2.00	20.00	0	124	30 - 192				
Naphthalene	16.5	µg/L	SW8260C	0.547	2.00	20.00	0	82.3	41 - 131				
Tetrahydrofuran	16.5	µg/L	SW8260C	0.874	2.00	20.00	0	82.6	43 - 146				
Toluene	21.2	µg/L	SW8260C	0.429	2.00	20.00	0	106	18 - 192				
Xylenes, Total	63.9	µg/L	SW8260C	0.870	2.00	60.00	0	107	42 - 167				
Surr: 1,2-Dichloroethane-d4	58.2	µg/L	SW8260C			50.00		116	72 - 151				
Surr: 4-Bromofluorobenzene	45.1	µg/L	SW8260C			50.00		90.2	80 - 128				
Surr: Dibromofluoromethane	53.8	µg/L	SW8260C			50.00		108	80 - 124				
Surr: Toluene-d8	46.2	µg/L	SW8260C			50.00		92.3	77 - 129				
Lab Sample ID: 1307267-002CMS Date Analyzed: 07/12/2013 1639h													
Test Code: 8260-W													
Benzene	22,500	µg/L	SW8260C	149	2,000	20,000	1680	104	66 - 145				
Chloroform	24,200	µg/L	SW8260C	277	2,000	20,000	0	121	50 - 146				
Methylene chloride	26,000	µg/L	SW8260C	155	2,000	20,000	0	130	30 - 192				
Naphthalene	17,500	µg/L	SW8260C	547	2,000	20,000	75.4	87.0	41 - 131				
Tetrahydrofuran	16,400	µg/L	SW8260C	874	2,000	20,000	0	82.0	43 - 146				
Toluene	23,300	µg/L	SW8260C	429	2,000	20,000	2070	106	18 - 192				
Xylenes, Total	67,300	µg/L	SW8260C	870	2,000	60,000	1740	109	42 - 167				
Surr: 1,2-Dichloroethane-d4	58,000	µg/L	SW8260C			50,000		116	72 - 151				
Surr: 4-Bromofluorobenzene	45,400	µg/L	SW8260C			50,000		90.9	80 - 128				
Surr: Dibromofluoromethane	53,600	µg/L	SW8260C			50,000		107	80 - 124				
Surr: Toluene-d8	46,500	µg/L	SW8260C			50,000		93.0	77 - 129				

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307232
Project: 3rd Quarter Ground Water 2013

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: 1307232-001AMSD Date Analyzed: 07/12/2013 710h													
Test Code: 8260-W													
Benzene	20.0	µg/L	SW8260C	0.149	2.00	20.00	0	99.8	66 - 145	21.2	5.93	25	
Chloroform	22.5	µg/L	SW8260C	0.277	2.00	20.00	0	113	50 - 146	23.8	5.49	25	
Methylene chloride	23.9	µg/L	SW8260C	0.155	2.00	20.00	0	120	30 - 192	24.8	3.86	25	
Naphthalene	15.7	µg/L	SW8260C	0.547	2.00	20.00	0	78.4	41 - 131	16.5	4.79	25	
Tetrahydrofuran	20.5	µg/L	SW8260C	0.874	2.00	20.00	0	102	43 - 146	16.5	21.5	25	
Toluene	19.9	µg/L	SW8260C	0.429	2.00	20.00	0	99.7	18 - 192	21.2	6.03	25	
Xylenes, Total	59.6	µg/L	SW8260C	0.870	2.00	60.00	0	99.3	42 - 167	63.9	7.00	25	
Surr: 1,2-Dichloroethane-d4	57.9	µg/L	SW8260C			50.00		116	72 - 151				
Surr: 4-Bromofluorobenzene	45.9	µg/L	SW8260C			50.00		91.7	80 - 128				
Surr: Dibromofluoromethane	54.2	µg/L	SW8260C			50.00		108	80 - 124				
Surr: Toluene-d8	46.8	µg/L	SW8260C			50.00		93.6	77 - 129				
Lab Sample ID: 1307267-002CMSD Date Analyzed: 07/12/2013 1658h													
Test Code: 8260-W													
Benzene	21,600	µg/L	SW8260C	149	2,000	20,000	1680	99.5	66 - 145	22500	4.22	25	
Chloroform	23,200	µg/L	SW8260C	277	2,000	20,000	0	116	50 - 146	24200	4.17	25	
Methylene chloride	25,100	µg/L	SW8260C	155	2,000	20,000	0	126	30 - 192	26100	3.71	25	
Naphthalene	17,700	µg/L	SW8260C	547	2,000	20,000	75.4	88.1	41 - 131	17500	1.25	25	
Tetrahydrofuran	17,800	µg/L	SW8260C	874	2,000	20,000	0	89.2	43 - 146	16400	8.42	25	
Toluene	22,200	µg/L	SW8260C	429	2,000	20,000	2070	101	18 - 192	23300	4.83	25	
Xylenes, Total	64,100	µg/L	SW8260C	870	2,000	60,000	1740	104	42 - 167	67300	4.89	25	
Surr: 1,2-Dichloroethane-d4	58,000	µg/L	SW8260C			50,000		116	72 - 151				
Surr: 4-Bromofluorobenzene	45,600	µg/L	SW8260C			50,000		91.2	80 - 128				
Surr: Dibromofluoromethane	53,300	µg/L	SW8260C			50,000		107	80 - 124				
Surr: Toluene-d8	46,300	µg/L	SW8260C			50,000		92.6	77 - 129				

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1307232**

Client: Energy Fuels Resources, Inc.

Due Date: 7/22/2013

Client ID: DEN100

Contact: Garrin Palmer

Project: **3rd Quarter Ground Water 2013**

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. All metals were field filtered.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307232-001A	**MW-14_07112013**	7/11/2013 0835h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-001B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307232-001C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307232-001D				**NH3-W-350.1**		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1307232-001E				**200.7-DIS**		☑	df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR		☑	df-met	
				200.8-DIS		☑	df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR		☑	df-met	
				HG-DW-DIS-245.1		☑	df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR		☑	df-met	
				IONBALANCE		☑	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1307232-002A	**MW-26_07112013**	7/11/2013 0640h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-002B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307232-002C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				

Printed: 7/15/2013 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK_____ HOK_____ HOK_____ COC Emailed DB 7/12/13

WORK ORDER Summary

Work Order: **1307232**

Client: Energy Fuels Resources, Inc.

Due Date: 7/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307232-002D	**MW-26_07112013**	7/11/2013 0640h	7/11/2013 1500h	**NH3-W-350.1**	Aqueous	☑	df - no2/no3 & nh3	1
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1307232-002E				**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				
1307232-003A	**MW-25_07102013**	7/10/2013 1100h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-003B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307232-003C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307232-003D				**NH3-W-350.1**		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1307232-003E				**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	

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WORK ORDER Summary

Work Order: **1307232**

Client: Energy Fuels Resources, Inc.

Due Date: 7/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307232-003E	**MW-25_07102013**	7/10/2013 1100h	7/11/2013 1500h	**IONBALANCE**	Aqueous	☑	df-met	1
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1307232-004A	**MW-11_07102013**	7/10/2013 1335h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-004B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307232-004C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307232-004D				**NH3-W-350.1**		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1307232-004E				**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				
1307232-005A	**MW-30_07102013**	7/10/2013 1445h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-005B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307232-005C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307232-005D				**NH3-W-350.1**		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				

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WORK ORDER Summary

Work Order: **1307232**

Client: Energy Fuels Resources, Inc.

Due Date: 7/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307232-005E	**MW-30_07102013**	7/10/2013 1445h	7/11/2013 1500h	**200.7-DIS**	Aqueous	☑	df-met	1
				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				
1307232-006A	**MW-31_07092013**	7/9/2013 1305h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-006B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307232-006C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307232-006D				**NH3-W-350.1**		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1307232-006E				**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				
1307232-007A	**MW-35_07092013**	7/9/2013 1500h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-007B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				

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WORK ORDER Summary

Work Order: **1307232**

Client: Energy Fuels Resources, Inc.

Due Date: 7/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307232-007B	**MW-35_07092013**	7/9/2013 1500h	7/11/2013 1500h	**ALK-W-2320B**	Aqueous	☑	df - wc	1
				2 SEL Analytes: ALKB ALKC				
1307232-007C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307232-007D				**NH3-W-350.1**		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1307232-007E				**200.7-DIS**		☑	df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR		☑	df-met	
				200.8-DIS		☑	df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR		☑	df-met	
				HG-DW-DIS-245.1		☑	df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR		☑	df-met	
				IONBALANCE		☑	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1307232-008A	**MW-36_07102013**	7/10/2013 0750h	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307232-008B				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307232-008C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307232-008D				**NH3-W-350.1**		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR		☑	df - no2/no3 & nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
1307232-008E				**200.7-DIS**		☑	df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR		☑	df-met	
				200.8-DIS		☑	df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR		☑	df-met	

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WORK ORDER Summary

Work Order: **1307232**

Client: Energy Fuels Resources, Inc.

Due Date: 7/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307232-008E	**MW-36_07102013**	7/10/2013 0750h	7/11/2013 1500h	**HG-DW-DIS-245.1**	Aqueous	☑	df-met	1
				1 SEL Analytes: HG				
				HG-DW-DIS-PR		☑	df-met	
				IONBALANCE		☑	df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1307232-009A	**Trip Blank**	7/9/2013	7/11/2013 1500h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				

American West Analytical Laboratories

Chain of Custody

Lab Sample Set # 1307232

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511

Contact: **Garrin Palmer**
Phone: **(435) 678-2221**
Email: **gpalmer@energyfuels.com**

QC Level: **3**

Project Name: **3rd Quarter Groundwater 2013**
PO#:
Sampler Name: **Tanner Holliday**

Turn Around Time
Standard

	Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	VOCs (8260C)	Fl, Cl, SO4 (4500E or 300)	TDS (2540C)	Carb/Bicarb (2320B)	Heavy Metals								Comments
1	**MW-14_07112013**	7/11/2013	7/11/2013 8:35	7	W	x	x	x	x	x	x	x								All Samples were
2	**MW-26_07112013**	7/11/2013	7/11/2013 6:40	7	W	x	x	x	x	x	x	x								field filtered.
3	**MW-25_07102013**	7/10/2013	7/10/2013 11:00	7	W	x	x	x	x	x	x	x								
4	**MW-11_07102013**	7/10/2013	7/10/2013 13:35	7	W	x	x	x	x	x	x	x								
5	**MW-30_07102013**	7/10/2013	7/10/2013 14:45	7	W	x	x	x	x	x	x	x								
6	**MW-31_07092013**	7/9/2013	7/9/2013 13:05	7	W	x	x	x	x	x	x	x								
7	**MW-35_07092013**	7/9/2013	7/9/2013 15:00	7	W	x	x	x	x	x	x	x								
8	**MW-36_07102013**	7/10/2013	7/10/2013 7:50	7	W	x	x	x	x	x	x	x								
9	**Trip Blank**	7/9/2013			W			x												
10	**Temp Blank**																			
11																				
12																				
13																				
14																				
15																				

Laboratory Use Only

Samples Were:
1. Shipped in Coolers
2. Analyzed within Holding Time
3. Accompanied by Chain of Custody
4. Received within Holding Time
5. Properly Preserved
6. Received in Proper Containers
7. Received Intact
8. Proper Volume Received
9. No Headspace
10. Proper Chemical Preservatives Added
11. Free of Chlorine
12. Preservatives Added by Lab Staff
13. Received within Sample Holding Times and QC Range

Temp: 1.9°C

Special Instructions: ***Email results to Garrin Palmer, Kathy Weinel, and David Turk***

Relinquished by: *Signature*	Date:	Received by: *Signature*	Date:
Tanner Holliday	7/11/2013	Denise Bruun	7/11/13
Print Name Tanner Holliday	Time: 1500	*Print Name* Denise Bruun	Time: 15:00
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:

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-NH3 G or E350.1	0.05 mg/L	28 days	H_2SO_4 to pH<2	≤ 6°C
Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H_2SO_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 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

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 **-RW 3/27/13	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
Radiologics					
~~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 BALANCE 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

Lab Set ID: 1307232

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006	-007	-008										
Ammonia	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes										
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3	yes	yes	yes	yes	yes	yes	yes	yes										
NO_2 & NO_3	pH <2 H_2SO_4	yes	yes	yes	yes	yes	yes	yes	yes										
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

RE: 3rd Quarter Ground Water 2013

Dear Garrin Palmer: Lab Set ID: 1307411

American West Analytical Laboratories received 8 sample(s) on 7/19/2013 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.

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.

Thank You,

Approved by: Jose G. Rocha
Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=Quality Assurance Officer, email=jose@awal-labs.com, c=US
Date: 2013.07.31 15:00:44 -06'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Set ID: 1307411
Date Received: 7/19/2013 1010h

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1307411-001A	MW-12_07172013	7/17/2013	1425h	Aqueous	ICPMS Metals, Dissolved
1307411-002A	MW-18_07152013	7/15/2013	1325h	Aqueous	ICPMS Metals, Dissolved
1307411-002B	MW-18_07152013	7/15/2013	1325h	Aqueous	Anions, E300.0
1307411-002C	MW-18_07152013	7/15/2013	1325h	Aqueous	Total Dissolved Solids, A2540C
1307411-003A	MW-19_07152013	7/15/2013	1530h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307411-004A	MW-23_07182013	7/18/2013	830h	Aqueous	ICPMS Metals, Dissolved
1307411-005A	MW-27_07172013	7/17/2013	1100h	Aqueous	Total Dissolved Solids, A2540C
1307411-005B	MW-27_07172013	7/17/2013	1100h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307411-005C	MW-27_07172013	7/17/2013	1100h	Aqueous	Anions, E300.0
1307411-006A	MW-28_07172013	7/17/2013	1030h	Aqueous	ICPMS Metals, Dissolved
1307411-006B	MW-28_07172013	7/17/2013	1030h	Aqueous	Anions, E300.0
1307411-007A	MW-29_07172013	7/17/2013	1400h	Aqueous	Total Dissolved Solids, A2540C
1307411-007B	MW-29_07172013	7/17/2013	1400h	Aqueous	ICPMS Metals, Dissolved
1307411-008A	MW-65_07172013	7/17/2013	1400h	Aqueous	ICPMS Metals, Dissolved
1307411-008B	MW-65_07172013	7/17/2013	1400h	Aqueous	Total Dissolved Solids, A2540C

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 3rd Quarter Ground Water 2013
Lab Set ID: 1307411

Sample Receipt Information:

Date of Receipt: 7/19/2013
Date(s) of Collection: 7/15, 7/17 & 7/18/2013
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, 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
1307411-003A	Nitrite/Nitrate (as N)	MS/MSD	Sample matrix interference
1307412-001A	Nitrite/Nitrate (as N)	MS/MSD	Sample matrix interference

Duplicates (DUP): The parameters that require a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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-26727**	Date Analyzed:	07/22/2013 1903h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Iron		0.995	mg/L	E200.8	0.0472	0.100	1.000	0	99.5	85 - 115				
Manganese		0.199	mg/L	E200.8	0.00166	0.00200	0.2000	0	99.4	85 - 115				
Selenium		0.197	mg/L	E200.8	0.000686	0.00200	0.2000	0	98.3	85 - 115				
Lab Sample ID:	**LCS-26727**	Date Analyzed:	07/29/2013 1124h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Thallium		0.179	mg/L	E200.8	0.000222	0.00200	0.2000	0	89.3	85 - 115				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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-26727**	Date Analyzed:	07/22/2013 1857h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Manganese		< 0.0100	mg/L	E200.8	0.00166	0.0100								
Selenium		< 0.00500	mg/L	E200.8	0.000686	0.00500								
Lab Sample ID:	**MB-26727**	Date Analyzed:	07/26/2013 1742h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Iron		< 0.0300	mg/L	E200.8	0.0118	0.0300								
Lab Sample ID:	**MB-26727**	Date Analyzed:	07/29/2013 1117h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Thallium		< 0.000500	mg/L	E200.8	0.0000555	0.000500								

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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:	**1307412-001EMS**	Date Analyzed:	07/22/2013 1913h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Iron		1.16	mg/L	E200.8	0.0472	0.100	1.000	0.172	99.2	75 - 125				
Manganese		0.454	mg/L	E200.8	0.00166	0.00200	0.2000	0.259	97.4	75 - 125				
Selenium		0.208	mg/L	E200.8	0.000686	0.00200	0.2000	0.0112	98.6	75 - 125				
Lab Sample ID:	**1307411-001AMS**	Date Analyzed:	07/26/2013 1644h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Iron		0.998	mg/L	E200.8	0.0472	0.100	1.000	0	99.8	75 - 125				
Manganese		0.224	mg/L	E200.8	0.00166	0.00200	0.2000	0.0336	95.4	75 - 125				
Selenium		0.227	mg/L	E200.8	0.000686	0.00200	0.2000	0.0205	103	75 - 125				
Lab Sample ID:	**1307411-001AMS**	Date Analyzed:	07/29/2013 1138h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Thallium		0.185	mg/L	E200.8	0.000222	0.00200	0.2000	0.000398	92.5	75 - 125				
Lab Sample ID:	**1307412-001EMS**	Date Analyzed:	07/29/2013 1205h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Thallium		0.191	mg/L	E200.8	0.000222	0.00200	0.2000	0.000061	95.4	75 - 125				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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:	**1307412-001EMSD**	Date Analyzed:	07/22/2013 1918h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Iron		1.15	mg/L	E200.8	0.0472	0.100	1.000	0.172	98.2	75 - 125	1.16	0.842	20	
Manganese		0.449	mg/L	E200.8	0.00166	0.00200	0.2000	0.259	95.3	75 - 125	0.454	0.918	20	
Selenium		0.207	mg/L	E200.8	0.000686	0.00200	0.2000	0.0112	97.7	75 - 125	0.208	0.852	20	
Lab Sample ID:	**1307411-001AMSD**	Date Analyzed:	07/26/2013 1649h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Iron		1.01	mg/L	E200.8	0.0472	0.100	1.000	0	101	75 - 125	0.998	1.61	20	
Manganese		0.235	mg/L	E200.8	0.00166	0.00200	0.2000	0.0336	101	75 - 125	0.224	4.47	20	
Selenium		0.232	mg/L	E200.8	0.000686	0.00200	0.2000	0.0205	106	75 - 125	0.227	1.85	20	
Lab Sample ID:	**1307411-001AMSD**	Date Analyzed:	07/29/2013 1144h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Thallium		0.186	mg/L	E200.8	0.000222	0.00200	0.2000	0.000398	93.0	75 - 125	0.185	0.531	20	
Lab Sample ID:	**1307412-001EMSD**	Date Analyzed:	07/29/2013 1212h											
Test Code:	200.8-DIS	Date Prepared:	07/19/2013 1145h											
Thallium		0.186	mg/L	E200.8	0.000222	0.00200	0.2000	0.000061	92.8	75 - 125	0.191	2.81	20	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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: 1307411-002CDUP Date Analyzed: 07/19/2013 1210h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	3,170	mg/L	SM2540C	8.00	20.0					3170	0	5	
Lab Sample ID: 1307412-001CDUP Date Analyzed: 07/19/2013 1210h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	860	mg/L	SM2540C	8.00	20.0					828	3.79	5	

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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-R57106 Date Analyzed: 07/22/2013 1250h													
Test Code: 300.0-W													
Chloride	4.76	mg/L	E300.0	0.0114	1.00	5.000	0	95.2	90 - 110				
Sulfate	5.02	mg/L	E300.0	0.177	1.00	5.000	0	100	90 - 110				
Lab Sample ID: LCS-R57135 Date Analyzed: 07/23/2013 1751h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.05	mg/L	E353.2	0.00252	0.100	1.000	0	105	90 - 110				
Lab Sample ID: LCS-R57066 Date Analyzed: 07/19/2013 1210h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	204	mg/L	SM2540C	4.00	10.0	205.0	0	99.5	80 - 120				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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-R57106 Date Analyzed: 07/22/2013 1225h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Sulfate	< 1.00	mg/L	E300.0	0.177	1.00								
Lab Sample ID: MB-R57135 Date Analyzed: 07/23/2013 1750h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
Lab Sample ID: MB-R57066 Date Analyzed: 07/19/2013 1210h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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: 1307411-002BMS Date Analyzed: 07/22/2013 1612h													
Test Code: 300.0-W													
Chloride	24,000	mg/L	E300.0	57.0	5,000	25,000	61.9	95.9	90 - 110				
Sulfate	27,400	mg/L	E300.0	885	5,000	25,000	1860	102	90 - 110				
Lab Sample ID: 1307412-001BMS Date Analyzed: 07/22/2013 1909h													
Test Code: 300.0-W													
Chloride	5,070	mg/L	E300.0	11.4	1,000	5,000	139	98.6	90 - 110				
Sulfate	5,720	mg/L	E300.0	177	1,000	5,000	394	107	90 - 110				
Lab Sample ID: 1307411-003AMS Date Analyzed: 07/23/2013 1800h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.6	mg/L	E353.2	0.0252	1.00	10.00	3.66	119	90 - 110				1
Lab Sample ID: 1307412-001DMS Date Analyzed: 07/23/2013 1812h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	14.0	mg/L	E353.2	0.0252	1.00	10.00	2.06	119	90 - 110				1

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

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307411
Project: 3rd Quarter Ground Water 2013

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: 1307411-002BMSD Date Analyzed: 07/22/2013 1728h													
Test Code: 300.0-W													
Chloride	23,900	mg/L	E300.0	57.0	5,000	25,000	61.9	95.2	90 - 110	24000	0.741	20	
Sulfate	27,300	mg/L	E300.0	885	5,000	25,000	1860	102	90 - 110	27400	0.514	20	
Lab Sample ID: 1307412-001BMSD Date Analyzed: 07/22/2013 1934h													
Test Code: 300.0-W													
Chloride	5,140	mg/L	E300.0	11.4	1,000	5,000	139	99.9	90 - 110	5070	1.26	20	
Sulfate	5,740	mg/L	E300.0	177	1,000	5,000	394	107	90 - 110	5720	0.299	20	
Lab Sample ID: 1307411-003AMSD Date Analyzed: 07/23/2013 1802h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	15.6	mg/L	E353.2	0.0252	1.00	10.00	3.66	119	90 - 110	15.6	0.214	10	[1]
Lab Sample ID: 1307412-001DMSD Date Analyzed: 07/23/2013 1813h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	13.8	mg/L	E353.2	0.0252	1.00	10.00	2.06	117	90 - 110	14	1.13	10	[1]

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

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1307411**

Client: Energy Fuels Resources, Inc.

Due Date: 7/31/2013

Client ID: DEN100

Contact: Garrin Palmer

Project: **3rd Quarter Ground Water 2013**

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. Sample for dissolved metals were field filtered.;

DB

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307411-001A	**MW-12_07172013**	7/17/2013 1425h	7/19/2013 1010h	**200.8-DIS**	Aqueous	☑	df-met	1
				1 SEL Analytes: SE				
				200.8-DIS-PR		☑	df-met	
1307411-002A	**MW-18_07152013**	7/15/2013 1325h	7/19/2013 1010h	**200.8-DIS**	Aqueous	☑	df-met	1
				1 SEL Analytes: TL				
				200.8-DIS-PR		☑	df-met	
1307411-002B				**300.0-W**		☑	df - so4	
				1 SEL Analytes: SO4				
1307411-002C				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307411-003A	**MW-19_07152013**	7/15/2013 1530h	7/19/2013 1010h	**NO2/NO3-W-353.2**	Aqueous	☑	df - no2/no3	1
				1 SEL Analytes: NO3NO2N				
1307411-004A	**MW-23_07182013**	7/18/2013 0830h	7/19/2013 1010h	**200.8-DIS**	Aqueous	☑	df - metals	1
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df - metals	
1307411-005A	**MW-27_07172013**	7/17/2013 1100h	7/19/2013 1010h	**TDS-W-2540C**	Aqueous	☑	ww - tds	1
				1 SEL Analytes: TDS				
1307411-005B				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1307411-005C				**300.0-W**		☑	df - cl	
				1 SEL Analytes: CL				
1307411-006A	**MW-28_07172013**	7/17/2013 1030h	7/19/2013 1010h	**200.8-DIS**	Aqueous	☑	df - metals	1
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df - metals	
1307411-006B				**300.0-W**		☑	df - cl	
				1 SEL Analytes: CL				
1307411-007A	**MW-29_07172013**	7/17/2013 1400h	7/19/2013 1010h	**TDS-W-2540C**	Aqueous	☑	ww - tds	1
				1 SEL Analytes: TDS				
1307411-007B				**200.8-DIS**		☑	df - metals	
				2 SEL Analytes: FE MN				
				200.8-DIS-PR		☐	df - metals	
1307411-008A	**MW-65_07172013**	7/17/2013 1400h	7/19/2013 1010h	**200.8-DIS**	Aqueous	☑	df - metals	1
				2 SEL Analytes: FE MN				

Printed: 7/19/2013 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK_____ HOK_____ HOK_____ COC Emailed DB 7/19/13

WORK ORDER Summary

Work Order: **1307411**

Client: Energy Fuels Resources, Inc.

Due Date: 7/31/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307411-008A	**MW-65_07172013**	7/17/2013 1400h	7/19/2013 1010h	**200.8-DIS-PR**	Aqueous	☐	df - metals	1
1307411-008B				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

Client Energy Fuels
Address 6425 S Hwy 191
Blanding (City) UT (State) 84511 (Zip)
Phone 435 678 2221 Fax
Contact Garrin Palmer
E-mail g palmer@energyfuels.com
Project Name 3rd Quarter Ground water 2013
Project Number/P.O.#
Sampler Name Tanner Holliday

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115

CHAIN OF CUSTODY

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Email:awal@awal-labs.com

Lab Sample Set # 1307411
Page 1 of 1

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

QC LEVEL: 1 2 2+ (3) 3+ 4

	Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	Selenium	Thallium	Sulfate	TDS	Nitrate + Nitrite	Manganese	Chloride	Iron			COMMENTS
1	MW-12_07172013	7/17/13 1425	W	1	X										
2	MW-18_07152013	7/15/13 1325	W	3		X	X	X							
3	MW-19_07152013	7/15/13 1530	W	1					X						
4	MW-23_07182013	7/18/13 0830	W	1						X					
5	MW-27_07172013	7/17/13 1100	W	3				X	X		X				
6	MW-28_07172013	7/17/13 1030	W	2						X	X				
7	MW-29_07172013	7/17/13 1400	W	2				X		X		X			
	Temp Blank	7/18/13	W												
8	MW-65_07172013	7/17/13 1400	W	2				X		X		X			← added per Kathy Weinel - DB 7/19/13

Relinquished By: Signature	Date	Received By: Signature	Date
Tanner Holliday	7/18/2013		
PRINT NAME Tanner Holliday	Time 1100	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 Brown	Date 7/19/13
PRINT NAME	Time	PRINT NAME Denise Brown	Time 1110

Special Instructions:
Metals were filtered in the field. DB 7/19/13

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 3.6°C
4 Received Broken/Leaking (Improperly Sealed) Y (N)
Notes:
5 Properly Preserved (Y) N
Checked at Bench Y N
Notes:
6 Received Within Holding Times (Y) N
Notes:

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)
Notes:

Lab Set ID: 1307411

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006	-007	-008										
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3	yes	yes		yes		yes	yes	yes										
NO_2 & NO_3	pH <2 H_2SO_4			yes		yes													
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_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

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

RE: 3rd Quarter Groundwater 2013

Dear Garrin Palmer: Lab Set ID: 1307553

American West Analytical Laboratories received 9 sample(s) on 7/26/2013 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.

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.

Thank You,

Approved by: Jose G. Rocha

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=Quality Assurance Officer, email=jose@awal-labs.com, c=US
Date: 2013.08.13 15:50:10 -06'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Set ID: 1307553
Date Received: 7/26/2013 0910h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1307553-001A	MW-01_07232013	7/23/2013	0935h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307553-001B	MW-01_07232013	7/23/2013	0935h	Aqueous	Anions, E300.0
1307553-001C	MW-01_07232013	7/23/2013	0935h	Aqueous	ICPMS Metals, Dissolved
1307553-002A	MW-03_07182013	7/18/2013	1430h	Aqueous	ICPMS Metals, Dissolved
1307553-002B	MW-03_07182013	7/18/2013	1430h	Aqueous	Anions, E300.0
1307553-003A	MW-03A_07192013	7/19/2013	0845h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307553-003B	MW-03A_07192013	7/19/2013	0845h	Aqueous	Total Dissolved Solids, A2540C
1307553-003C	MW-03A_07192013	7/19/2013	0845h	Aqueous	Anions, E300.0
1307553-003D	MW-03A_07192013	7/19/2013	0845h	Aqueous	ICPMS Metals, Dissolved
1307553-004A	MW-05_07182013	7/18/2013	0950h	Aqueous	ICPMS Metals, Dissolved
1307553-005A	MW-15_07182013	7/18/2013	1145h	Aqueous	ICPMS Metals, Dissolved
1307553-006A	MW-24_07192013	7/19/2013	0825h	Aqueous	ICPMS Metals, Dissolved
1307553-006B	MW-24_07192013	7/19/2013	0825h	Aqueous	Anions, E300.0
1307553-007A	MW-37_07232013	7/23/2013	0715h	Aqueous	Nitrite/Nitrate (as N), E353.2
1307553-007A	MW-37_07232013	7/23/2013	0715h	Aqueous	Ammonia, Aqueous
1307553-007B	MW-37_07232013	7/23/2013	0715h	Aqueous	VOA by GC/MS Method 8260C/5030C
1307553-007C	MW-37_07232013	7/23/2013	0715h	Aqueous	Anions, E300.0
1307553-007C	MW-37_07232013	7/23/2013	0715h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, A2320B
1307553-007D	MW-37_07232013	7/23/2013	0715h	Aqueous	Total Dissolved Solids, A2540C
1307553-007E	MW-37_07232013	7/23/2013	0715h	Aqueous	ICPMS Metals, Dissolved
1307553-007E	MW-37_07232013	7/23/2013	0715h	Aqueous	ICP Metals, Dissolved
1307553-007E	MW-37_07232013	7/23/2013	0715h	Aqueous	Mercury, Drinking Water Dissolved
1307553-007E	MW-37_07232013	7/23/2013	0715h	Aqueous	Ion Balance
1307553-008A	MW-70_07182013	7/18/2013	1145h	Aqueous	ICPMS Metals, Dissolved
1307553-009A	Trip Blank	7/23/2013		Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: 3rd Quarter Groundwater 2013
Lab Set ID: 1307553

Sample Receipt Information:

Date of Receipt: 7/26/2013
Date(s) of Collection: 7/18, 7/19, & 7/23/2013
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, 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
1307546-001B	Calcium	MS/MSD	High analyte concentration
1307546-001B	Magnesium	MS/MSD	High analyte concentration
1307553-001C	Manganese	MSD	Sample matrix interference
1307553-001C	Multiple Analytes	RPD	Suspected sample non-homogeneity or matrix interference
1307553-007A	Ammonia	MSD	Sample matrix interference

Duplicates (DUP): The parameters that require a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Volatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	3rd Quarter Groundwater 2013
Lab Set ID:	1307553

Sample Receipt Information:

Date of Receipt:	7/26/2013
Date(s) of Collection:	7/18, 7/19, & 7/23/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: One target analytes was observed above its reporting limit.

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.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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-26894**	Date Analyzed:	08/01/2013 1106h											
Test Code:	200.7-DIS	Date Prepared:	07/29/2013 0945h											
Calcium		9.73	mg/L	E200.7	0.0227	1.00	10.00	0	97.3	85 - 115				
Magnesium		9.39	mg/L	E200.7	0.102	1.00	10.00	0	93.9	85 - 115				
Potassium		9.22	mg/L	E200.7	0.203	1.00	10.00	0	92.2	85 - 115				
Sodium		9.26	mg/L	E200.7	0.0514	1.00	10.00	0	92.6	85 - 115				
Vanadium		0.198	mg/L	E200.7	0.00150	0.00500	0.2000	0	99.1	85 - 115				
Lab Sample ID:	**LCS-26895**	Date Analyzed:	08/05/2013 0315h											
Test Code:	200.8-DIS	Date Prepared:	07/29/2013 0945h											
Arsenic		0.187	mg/L	E200.8	0.00118	0.00200	0.2000	0	93.5	85 - 115				
Beryllium		0.191	mg/L	E200.8	0.0000698	0.00200	0.2000	0	95.6	85 - 115				
Cadmium		0.193	mg/L	E200.8	0.0000726	0.000500	0.2000	0	96.3	85 - 115				
Chromium		0.184	mg/L	E200.8	0.000938	0.00200	0.2000	0	92.1	85 - 115				
Cobalt		0.181	mg/L	E200.8	0.00364	0.00400	0.2000	0	90.7	85 - 115				
Copper		0.186	mg/L	E200.8	0.00152	0.00200	0.2000	0	93.2	85 - 115				
Iron		0.923	mg/L	E200.8	0.0472	0.100	1.000	0	92.3	85 - 115				
Lead		0.189	mg/L	E200.8	0.00126	0.00200	0.2000	0	94.4	85 - 115				
Manganese		0.185	mg/L	E200.8	0.00166	0.00200	0.2000	0	92.3	85 - 115				
Molybdenum		0.187	mg/L	E200.8	0.000496	0.00200	0.2000	0	93.3	85 - 115				
Nickel		0.184	mg/L	E200.8	0.000898	0.00200	0.2000	0	92.1	85 - 115				
Selenium		0.186	mg/L	E200.8	0.000686	0.00200	0.2000	0	92.8	85 - 115				
Silver		0.185	mg/L	E200.8	0.000101	0.00200	0.2000	0	92.4	85 - 115				
Uranium		0.178	mg/L	E200.8	0.0000598	0.00200	0.2000	0	89.0	85 - 115				
Zinc		0.921	mg/L	E200.8	0.00368	0.00500	1.000	0	92.1	85 - 115				
Lab Sample ID:	**LCS-26895**	Date Analyzed:	08/07/2013 0956h											
Test Code:	200.8-DIS	Date Prepared:	07/29/2013 0945h											
Tin		1.00	mg/L	E200.8	0.000620	0.100	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: 1307553
Project: 3rd Quarter Groundwater 2013

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-26997**	Date Analyzed:	08/05/2013 0806h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	08/01/2013 1550h											
Mercury		0.00316	mg/L	E245.1	0.0000175	0.000150	0.003330	0	94.8	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: 1307553
Project: 3rd Quarter Groundwater 2013

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-26894	Date Analyzed:	08/01/2013 1102h											
Test Code: 200.7-DIS	Date Prepared:	07/29/2013 0945h											
Calcium	< 1.00	mg/L	E200.7	0.0227	1.00								
Magnesium	< 1.00	mg/L	E200.7	0.102	1.00								
Potassium	< 1.00	mg/L	E200.7	0.203	1.00								
Sodium	< 1.00	mg/L	E200.7	0.0514	1.00								
Vanadium	< 0.00500	mg/L	E200.7	0.00150	0.00500								
Lab Sample ID: MB-26895	Date Analyzed:	08/05/2013 0309h											
Test Code: 200.8-DIS	Date Prepared:	07/29/2013 0945h											
Arsenic	< 0.00500	mg/L	E200.8	0.00118	0.00500								
Cadmium	< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Chromium	< 0.0250	mg/L	E200.8	0.000938	0.0250								
Cobalt	< 0.0100	mg/L	E200.8	0.00364	0.0100								
Copper	< 0.0100	mg/L	E200.8	0.00152	0.0100								
Manganese	< 0.0100	mg/L	E200.8	0.00166	0.0100								
Molybdenum	< 0.0100	mg/L	E200.8	0.000496	0.0100								
Nickel	< 0.0200	mg/L	E200.8	0.000898	0.0200								
Selenium	< 0.00500	mg/L	E200.8	0.000686	0.00500								
Silver	< 0.0100	mg/L	E200.8	0.000101	0.0100								
Zinc	< 0.0100	mg/L	E200.8	0.00368	0.0100								
Lab Sample ID: MB-26895	Date Analyzed:	08/05/2013 0521h											
Test Code: 200.8-DIS	Date Prepared:	07/29/2013 0945h											
Beryllium	< 0.000500	mg/L	E200.8	0.0000174	0.000500								
Iron	< 0.0300	mg/L	E200.8	0.0118	0.0300								
Lead	< 0.00100	mg/L	E200.8	0.000316	0.00100								
Lab Sample ID: MB-26895	Date Analyzed:	08/05/2013 0548h											
Test Code: 200.8-DIS	Date Prepared:	07/29/2013 0945h											
Uranium	< 0.000300	mg/L	E200.8	0.00000598	0.000300								

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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-26895**	Date Analyzed:	08/07/2013 0953h											
Test Code:	200.8-DIS	Date Prepared:	07/29/2013 0945h											
Tin		< 0.100	mg/L	E200.8	0.000620	0.100								
Lab Sample ID:	**MB-26997**	Date Analyzed:	08/05/2013 0804h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	08/01/2013 1550h											
Mercury		< 0.000150	mg/L	E245.1	0.0000175	0.000150								

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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:	**1307546-001BMS**	Date Analyzed:	08/01/2013 1136h											
Test Code:	200.7-DIS	Date Prepared:	07/29/2013 0945h											
Calcium		58.1	mg/L	E200.7	0.227	10.0	10.00	53.4	46.8	70 - 130				2
Magnesium		19.8	mg/L	E200.7	1.02	10.0	10.00	11.6	82.2	70 - 130				
Sodium		95.3	mg/L	E200.7	0.514	10.0	10.00	96.8	-14.9	70 - 130				2
Lab Sample ID:	**1307546-001BMS**	Date Analyzed:	08/01/2013 1358h											
Test Code:	200.7-DIS	Date Prepared:	07/29/2013 0945h											
Potassium		17.4	mg/L	E200.7	0.203	1.00	10.00	9.01	84.0	70 - 130				
Vanadium		0.208	mg/L	E200.7	0.00150	0.00500	0.2000	0.00684	101	70 - 130				
Lab Sample ID:	**1307553-001CMS**	Date Analyzed:	08/05/2013 0423h											
Test Code:	200.8-DIS	Date Prepared:	07/29/2013 0945h											
Arsenic		0.175	mg/L	E200.8	0.00118	0.00200	0.2000	0	87.7	75 - 125				
Beryllium		0.178	mg/L	E200.8	0.0000698	0.00200	0.2000	0	88.8	75 - 125				
Cadmium		0.182	mg/L	E200.8	0.0000726	0.000500	0.2000	0	91.2	75 - 125				
Chromium		0.174	mg/L	E200.8	0.000938	0.00200	0.2000	0	87.1	75 - 125				
Cobalt		0.171	mg/L	E200.8	0.00364	0.00400	0.2000	0	85.5	75 - 125				
Copper		0.172	mg/L	E200.8	0.00152	0.00200	0.2000	0	85.8	75 - 125				
Iron		1.02	mg/L	E200.8	0.0472	0.100	1.000	0.172	85.3	75 - 125				
Lead		0.180	mg/L	E200.8	0.00126	0.00200	0.2000	0	90.0	75 - 125				
Manganese		0.251	mg/L	E200.8	0.00166	0.00200	0.2000	0.0839	83.6	75 - 125				
Molybdenum		0.179	mg/L	E200.8	0.000496	0.00200	0.2000	0.00118	88.8	75 - 125				
Nickel		0.168	mg/L	E200.8	0.000898	0.00200	0.2000	0	84.2	75 - 125				
Selenium		0.165	mg/L	E200.8	0.000686	0.00200	0.2000	0.00119	81.7	75 - 125				
Silver		0.179	mg/L	E200.8	0.000101	0.00200	0.2000	0	89.6	75 - 125				
Uranium		0.173	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000396	86.1	75 - 125				
Zinc		0.847	mg/L	E200.8	0.00368	0.00500	1.000	0.00529	84.2	75 - 125				
Lab Sample ID:	**1307553-001CMS**	Date Analyzed:	08/07/2013 1010h											
Test Code:	200.8-DIS	Date Prepared:	07/29/2013 0945h											
Tin		0.993	mg/L	E200.8	0.000620	0.00200	1.000	0	99.3	75 - 125				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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:	**1307553-007EMS**	Date Analyzed:	08/05/2013 0812h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	08/01/2013 1550h											
Mercury		0.00322	mg/L	E245.1	0.0000175	0.000150	0.003330	0	96.8	85 - 115				

[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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: 1307546-001BMSD	Date Analyzed:	08/01/2013 1140h											
Test Code: 200.7-DIS	Date Prepared:	07/29/2013 0945h											
Calcium	58.2	mg/L	E200.7	0.227	10.0	10.00	53.4	48.2	70 - 130	58.1	0.236	20	[2]
Magnesium	19.8	mg/L	E200.7	1.02	10.0	10.00	11.6	82.5	70 - 130	19.8	0.154	20	
Sodium	96.2	mg/L	E200.7	0.514	10.0	10.00	96.8	-6.64	70 - 130	95.3	0.866	20	[2]
Lab Sample ID: 1307546-001BMSD	Date Analyzed:	08/01/2013 1402h											
Test Code: 200.7-DIS	Date Prepared:	07/29/2013 0945h											
Potassium	17.5	mg/L	E200.7	0.203	1.00	10.00	9.01	85.0	70 - 130	17.4	0.587	20	
Vanadium	0.205	mg/L	E200.7	0.00150	0.00500	0.2000	0.00684	99.1	70 - 130	0.208	1.43	20	
Lab Sample ID: 1307553-001CMSD	Date Analyzed:	08/05/2013 0428h											
Test Code: 200.8-DIS	Date Prepared:	07/29/2013 0945h											
Arsenic	0.227	mg/L	E200.8	0.00118	0.00200	0.2000	0	113	75 - 125	0.175	25.6	20	@
Beryllium	0.213	mg/L	E200.8	0.0000698	0.00200	0.2000	0	107	75 - 125	0.178	18.3	20	
Cadmium	0.219	mg/L	E200.8	0.0000726	0.000500	0.2000	0	110	75 - 125	0.182	18.3	20	
Chromium	0.226	mg/L	E200.8	0.000938	0.00200	0.2000	0	113	75 - 125	0.174	26.1	20	@
Cobalt	0.222	mg/L	E200.8	0.00364	0.00400	0.2000	0	111	75 - 125	0.171	25.9	20	@
Copper	0.221	mg/L	E200.8	0.00152	0.00200	0.2000	0	111	75 - 125	0.172	25.4	20	@
Iron	1.36	mg/L	E200.8	0.0472	0.100	1.000	0.172	119	75 - 125	1.02	28.3	20	@
Lead	0.216	mg/L	E200.8	0.00126	0.00200	0.2000	0	108	75 - 125	0.18	18.3	20	
Manganese	0.335	mg/L	E200.8	0.00166	0.00200	0.2000	0.0839	125	75 - 125	0.251	28.5	20	[1]@
Molybdenum	0.223	mg/L	E200.8	0.000496	0.00200	0.2000	0.00118	111	75 - 125	0.179	21.9	20	@
Nickel	0.222	mg/L	E200.8	0.000898	0.00200	0.2000	0	111	75 - 125	0.168	27.5	20	@
Selenium	0.230	mg/L	E200.8	0.000686	0.00200	0.2000	0.00119	114	75 - 125	0.165	33.2	20	@
Silver	0.208	mg/L	E200.8	0.000101	0.00200	0.2000	0	104	75 - 125	0.179	15.0	20	
Uranium	0.209	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000396	105	75 - 125	0.173	19.3	20	
Zinc	1.09	mg/L	E200.8	0.00368	0.00500	1.000	0.00529	109	75 - 125	0.847	25.3	20	@
Lab Sample ID: 1307553-001CMSD	Date Analyzed:	08/07/2013 1012h											
Test Code: 200.8-DIS	Date Prepared:	07/29/2013 0945h											
Tin	1.00	mg/L	E200.8	0.000620	0.00200	1.000	0	100	75 - 125	0.993	0.842	20	

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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:	**1307553-007EMSD**	Date Analyzed:	08/05/2013 0814h											
Test Code:	Hg-DW-DIS-245.1	Date Prepared:	08/01/2013 1550h											
Mercury		0.00333	mg/L	E245.1	0.0000175	0.000150	0.003330	0	100	85 - 115	0.00322	3.33	20	

@ - 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.
[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: 1307553
Project: 3rd Quarter Groundwater 2013

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: 1307546-001LDUP Date Analyzed: 07/25/2013 1415h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	568	mg/L	SM2540C	8.00	20.0					572	0.702	5	
Lab Sample ID: 1307553-003BDUP Date Analyzed: 07/25/2013 1415h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	5,650	mg/L	SM2540C	8.00	20.0					5860	3.55	5	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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-R57296 Date Analyzed: 07/26/2013 1615h													
Test Code: 300.0-W													
Chloride	4.85	mg/L	E300.0	0.0114	0.100	5.000	0	97.0	90 - 110				
Fluoride	5.39	mg/L	E300.0	0.0126	0.100	5.000	0	108	90 - 110				
Sulfate	5.10	mg/L	E300.0	0.177	0.750	5.000	0	102	90 - 110				
Lab Sample ID: LCS-R57422 Date Analyzed: 07/30/2013 1519h													
Test Code: 300.0-W													
Sulfate	5.08	mg/L	E300.0	0.177	0.750	5.000	0	102	90 - 110				
Lab Sample ID: LCS-R57386 Date Analyzed: 07/31/2013 0722h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	52,000	mg/L	SM2320B	4.53	10.0	50,000	0	104	90 - 110				
Lab Sample ID: LCS-27049 Date Analyzed: 08/05/2013 1943h													
Test Code: NH3-W-350.1 Date Prepared: 08/05/2013 1400h													
Ammonia (as N)	0.941	mg/L	E350.1	0.0277	0.0500	1.000	0	94.1	90 - 110				
Lab Sample ID: LCS-R57540 Date Analyzed: 08/02/2013 1943h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.00	mg/L	E353.2	0.00252	0.100	1.000	0	100	90 - 110				
Lab Sample ID: LCS-R57300 Date Analyzed: 07/25/2013 1415h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	196	mg/L	SM2540C	4.00	10.0	205.0	0	95.6	80 - 120				

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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-R57296 Date Analyzed: 07/26/2013 1552h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Fluoride	< 0.100	mg/L	E300.0	0.0126	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.177	0.750								
Lab Sample ID: MB-R57422 Date Analyzed: 07/30/2013 1456h													
Test Code: 300.0-W													
Sulfate	< 0.750	mg/L	E300.0	0.177	0.750								
Lab Sample ID: MB-R57386 Date Analyzed: 07/31/2013 0722h													
Test Code: ALK-W-2320B													
Bicarbonate (as CaCO3)	< 10.0	mg/L	SM2320B	4.53	10.0								
Carbonate (as CaCO3)	< 10.0	mg/L	SM2320B	4.53	10.0								
Lab Sample ID: MB-27049 Date Analyzed: 08/05/2013 1942h													
Test Code: NH3-W-350.1 Date Prepared: 08/05/2013 1400h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0277	0.0500								
Lab Sample ID: MB-R57540 Date Analyzed: 08/02/2013 1942h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
Lab Sample ID: MB-R57300 Date Analyzed: 07/25/2013 1415h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	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: 1307553
Project: 3rd Quarter Groundwater 2013

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: 1307553-007CMS Date Analyzed: 07/26/2013 2227h													
Test Code: 300.0-W													
Chloride	24,200	mg/L	E300.0	57.0	500	25,000	54.8	96.8	90 - 110				
Fluoride	26,600	mg/L	E300.0	63.0	500	25,000	0	106	90 - 110				
Sulfate	27,800	mg/L	E300.0	885	3,750	25,000	2720	100	90 - 110				
Lab Sample ID: 1307546-001FMS Date Analyzed: 07/27/2013 0000h													
Test Code: 300.0-W													
Chloride	25,000	mg/L	E300.0	57.0	500	25,000	141	99.3	90 - 110				
Fluoride	26,500	mg/L	E300.0	63.0	500	25,000	0.476	106	90 - 110				
Sulfate	25,600	mg/L	E300.0	885	3,750	25,000	34.7	102	90 - 110				
Lab Sample ID: 1307553-001BMS Date Analyzed: 07/30/2013 1606h													
Test Code: 300.0-W													
Sulfate	5,890	mg/L	E300.0	177	750	5,000	911	99.5	90 - 110				
Lab Sample ID: 1307553-007CMS Date Analyzed: 07/31/2013 0722h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	262	mg/L	SM2320B	4.53	10.0	50.00	211	102	80 - 120				
Lab Sample ID: 1307553-007AMS Date Analyzed: 08/05/2013 1945h													
Test Code: NH3-W-350.1 Date Prepared: 08/05/2013 1400h													
Ammonia (as N)	0.909	mg/L	E350.1	0.0277	0.0500	1.000	0	90.9	90 - 110				
Lab Sample ID: 1307553-007AMS Date Analyzed: 08/02/2013 1957h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.42	mg/L	E353.2	0.00252	0.100	1.000	0.368	105	90 - 110				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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: 1307553-007CMSD Date Analyzed: 07/26/2013 2250h													
Test Code: 300.0-W													
Chloride	24,100	mg/L	E300.0	57.0	500	25,000	54.8	96.3	90 - 110	24200	0.454	20	
Fluoride	25,700	mg/L	E300.0	63.0	500	25,000	0	103	90 - 110	26600	3.38	20	
Sulfate	27,400	mg/L	E300.0	885	3,750	25,000	2720	98.5	90 - 110	27800	1.59	20	
Lab Sample ID: 1307546-001FMSD Date Analyzed: 07/27/2013 0110h													
Test Code: 300.0-W													
Chloride	25,000	mg/L	E300.0	57.0	500	25,000	141	99.3	90 - 110	25000	0.00492	20	
Fluoride	26,600	mg/L	E300.0	63.0	500	25,000	0.476	106	90 - 110	26500	0.480	20	
Sulfate	25,600	mg/L	E300.0	885	3,750	25,000	34.7	102	90 - 110	25600	0.260	20	
Lab Sample ID: 1307553-001BMSD Date Analyzed: 07/30/2013 1629h													
Test Code: 300.0-W													
Sulfate	5,860	mg/L	E300.0	177	750	5,000	911	99.1	90 - 110	5890	0.384	20	
Lab Sample ID: 1307553-007CMSD Date Analyzed: 07/31/2013 0722h													
Test Code: ALK-W-2320B													
Alkalinity (as CaCO3)	264	mg/L	SM2320B	4.53	10.0	50.00	211	106	80 - 120	262	0.723	10	
Lab Sample ID: 1307553-007AMSD Date Analyzed: 08/05/2013 1946h													
Test Code: NH3-W-350.1 Date Prepared: 08/05/2013 1400h													
Ammonia (as N)	0.884	mg/L	E350.1	0.0277	0.0500	1.000	0	88.5	90 - 110	0.909	2.72	10	[1]
Lab Sample ID: 1307553-007AMSD Date Analyzed: 08/02/2013 2003h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.32	mg/L	E353.2	0.00252	0.100	1.000	0.368	95.5	90 - 110	1.42	7.16	10	

[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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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 072613A Date Analyzed: 07/26/2013 0454h													
Test Code: 8260-W													
Benzene	21.5	µg/L	SW8260C	0.149	2.00	20.00	0	107	62 - 127				
Chloroform	21.7	µg/L	SW8260C	0.277	2.00	20.00	0	108	67 - 132				
Methylene chloride	18.7	µg/L	SW8260C	0.155	2.00	20.00	0	93.5	32 - 185				
Naphthalene	17.3	µg/L	SW8260C	0.547	2.00	20.00	0	86.7	28 - 136				
Tetrahydrofuran	20.2	µg/L	SW8260C	0.874	2.00	20.00	0	101	43 - 146				
Toluene	21.5	µg/L	SW8260C	0.429	2.00	20.00	0	107	64 - 129				
Xylenes, Total	61.1	µg/L	SW8260C	0.870	2.00	60.00	0	102	52 - 134				
Surr: 1,2-Dichloroethane-d4	51.9	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	47.9	µg/L	SW8260C			50.00		95.8	77 - 121				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	49.6	µg/L	SW8260C			50.00		99.2	81 - 135				

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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 072613A Date Analyzed: 07/26/2013 0532h													
Test Code: 8260-W													
2-Butanone	< 10.0	µg/L	SW8260C	1.45	10.0								
Acetone	< 10.0	µg/L	SW8260C	3.35	10.0								
Benzene	< 1.00	µg/L	SW8260C	0.149	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260C	0.137	1.00								
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Chloromethane	< 1.00	µg/L	SW8260C	0.127	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Naphthalene	< 1.00	µg/L	SW8260C	0.547	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260C	0.874	1.00								
Toluene	< 1.00	µg/L	SW8260C	0.429	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260C	0.870	1.00								
Surr: 1,2-Dichloroethane-d4	54.5	µg/L	SW8260C			50.00		109	76 - 138				
Surr: 4-Bromofluorobenzene	49.1	µg/L	SW8260C			50.00		98.2	77 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	50.2	µg/L	SW8260C			50.00		100	81 - 135				

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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: 1307553-001AMS Date Analyzed: 07/26/2013 1444h													
Test Code: 8260-W													
Benzene	21.4	µg/L	SW8260C	0.149	2.00	20.00	0	107	66 - 145				
Chloroform	20.1	µg/L	SW8260C	0.277	2.00	20.00	0	101	50 - 146				
Methylene chloride	13.7	µg/L	SW8260C	0.155	2.00	20.00	0	68.6	30 - 192				
Naphthalene	19.7	µg/L	SW8260C	0.547	2.00	20.00	0	98.4	41 - 131				
Tetrahydrofuran	25.0	µg/L	SW8260C	0.874	2.00	20.00	1.86	116	43 - 146				
Toluene	22.9	µg/L	SW8260C	0.429	2.00	20.00	0	114	18 - 192				
Xylenes, Total	64.4	µg/L	SW8260C	0.870	2.00	60.00	0	107	42 - 167				
Surr: 1,2-Dichloroethane-d4	47.7	µg/L	SW8260C			50.00		95.3	72 - 151				
Surr: 4-Bromofluorobenzene	52.0	µg/L	SW8260C			50.00		104	80 - 128				
Surr: Dibromofluoromethane	49.5	µg/L	SW8260C			50.00		99.0	80 - 124				
Surr: Toluene-d8	52.9	µg/L	SW8260C			50.00		106	77 - 129				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1307553
Project: 3rd Quarter Groundwater 2013

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: 1307553-001AMSD Date Analyzed: 07/26/2013 1503h													
Test Code: 8260-W													
Benzene	20.4	µg/L	SW8260C	0.149	2.00	20.00	0	102	66 - 145	21.4	4.59	25	
Chloroform	19.4	µg/L	SW8260C	0.277	2.00	20.00	0	97.3	50 - 146	20.1	3.29	25	
Methylene chloride	13.5	µg/L	SW8260C	0.155	2.00	20.00	0	67.4	30 - 192	13.7	1.76	25	
Naphthalene	19.5	µg/L	SW8260C	0.547	2.00	20.00	0	97.5	41 - 131	19.7	0.919	25	
Tetrahydrofuran	21.5	µg/L	SW8260C	0.874	2.00	20.00	1.86	98.3	43 - 146	25	14.9	25	
Toluene	22.1	µg/L	SW8260C	0.429	2.00	20.00	0	111	18 - 192	22.9	3.33	25	
Xylenes, Total	61.7	µg/L	SW8260C	0.870	2.00	60.00	0	103	42 - 167	64.4	4.26	25	
Surr: 1,2-Dichloroethane-d4	48.0	µg/L	SW8260C			50.00		95.9	72 - 151				
Surr: 4-Bromofluorobenzene	51.3	µg/L	SW8260C			50.00		103	80 - 128				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260C			50.00		98.4	80 - 124				
Surr: Toluene-d8	52.3	µg/L	SW8260C			50.00		105	77 - 129				

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1307553**

Client: Energy Fuels Resources, Inc.

Due Date: 8/6/13

Client ID: DEN100

Contact: Garrin Palmer

Project: **3rd Quarter Groundwater 2013**

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Metals have been filtered in the field. Email Group.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307553-001A	**MW-01_07232013**	7/23/2013 0935h	7/26/2013 0910h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 1 / # of Surr: 4				
1307553-001B				**300.0-W**		☑	df - wc	1
				1 SEL Analytes: SO4				
1307553-001C				**200.8-DIS**		☑	df - diss.metals	
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df - diss.metals	
1307553-002A	**MW-03_07182013**	7/18/2013 1430h	7/26/2013 0910h	**200.8-DIS**	Aqueous	☑	df - diss.metals	1
				1 SEL Analytes: SE				
				200.8-DIS-PR		☐	df - diss.metals	
1307553-002B				**300.0-W**		☑	df - wc	
				1 SEL Analytes: F				
1307553-003A	**MW-03A_07192013**	7/19/2013 0845h	7/26/2013 0910h	**NO2/NO3-W-353.2**	Aqueous	☑	df - no2/no3	1
				1 SEL Analytes: NO3NO2N				
1307553-003B				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307553-003C				**300.0-W**		☑	df - wc	
				1 SEL Analytes: SO4				
1307553-003D				**200.8-DIS**		☑	df - diss.metals	
				1 SEL Analytes: SE				
				200.8-DIS-PR		☐	df - diss.metals	
1307553-004A	**MW-05_07182013**	7/18/2013 0950h	7/26/2013 0910h	**200.8-DIS**	Aqueous	☑	df - diss.metals	1
				1 SEL Analytes: U				
				200.8-DIS-PR		☐	df - diss.metals	
1307553-005A	**MW-15_07182013**	7/18/2013 1145h	7/26/2013 0910h	**200.7-DIS**	Aqueous	☑	df - diss.metals	1
				1 SEL Analytes: FE				
				200.7-DIS-PR		☐	df - diss.metals	
				200.8-DIS		☑	df - diss.metals	
				1 SEL Analytes: SE				
				200.8-DIS-PR		☐	df - diss.metals	
1307553-006A	**MW-24_07192013**	7/19/2013 0825h	7/26/2013 0910h	**200.8-DIS**	Aqueous	☑	df - diss.metals	1
				2 SEL Analytes: CD TL				
				200.8-DIS-PR		☐	df - diss.metals	

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WORK ORDER Summary

Work Order: **1307553**

Client: Energy Fuels Resources, Inc.

Due Date: 8/6/13

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1307553-006B	**MW-24_07192013**	7/19/2013 0825h	7/26/2013 0910h	**300.0-W**	Aqueous	☑	df - wc	1
				1 SEL Analytes: F				
1307553-007A	**MW-37_07232013**	7/23/2013 0715h	7/26/2013 0910h	**NH3-W-350.1**	Aqueous	☑	df - no2/no3/nh3	1
				1 SEL Analytes: NH3N				
				NH3-W-PR		☐	df - no2/no3/nh3	
				NO2/NO3-W-353.2		☑	df - no2/no3/nh3	
				1 SEL Analytes: NO3NO2N				
1307553-007B				**8260-W**		☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				
1307553-007C				**300.0-W**		☑	df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B		☑	df - wc	
				2 SEL Analytes: ALKB ALKC				
1307553-007D				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1307553-007E				**200.7-DIS**		☑	df - diss.metals	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR		☐	df - diss.metals	
				200.8-DIS		☑	df - diss.metals	
				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 - diss.metals	
				HG-DW-DIS-245.1		☑	df - diss.metals	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR		☐	df - diss.metals	
				IONBALANCE		☑	df - diss.metals	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
1307553-008A	**MW-70_07182013**	7/18/2013 1145h	7/26/2013 0910h	**200.7-DIS**	Aqueous	☑	df - diss.metals	1
				1 SEL Analytes: FE				
				200.7-DIS-PR		☐	df - diss.metals	
				200.8-DIS		☑	df - diss.metals	
				1 SEL Analytes: SE				
				200.8-DIS-PR		☐	df - diss.metals	
1307553-009A	**Trip Blank**	7/23/2013	7/26/2013 0910h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Custom; # of Analytes: 11 / # of Surr: 4				

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American West Analytical Laboratories

Chain of Custody

Lab Sample Set # 1307553

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511

Contact: **Garrin Palmer**
Phone: **(435) 678-2221**
Email: **gpalmer@energyfuels.com**

QC Level: **3**

Project Name: **3rd Quarter Groundwater 2013**
PO#:
Sampler Name: **Tanner Holliday**

Turn Around Time
Standard

	Sample ID:	Date Sampled	Time	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	VOCs (8260C)	Fl, Cl, SO4 (4500E or 300)	TDS (2540C)	Carb/Bicarb (2320B)	Heavy Metals per S.O.W	THF	Sulfate	Manganese	Selenium	Fluoride	Uranium	Iron	Cadmium	Thallium	comments
1	MW-01_07232013	7/23/2013	0935	5	w								x	x	x							All Metals have been Field Filtered
2	MW-03_07182013	7/18/2013	1430	2	w											x	x					
3	MW-03A_07192013	7/19/2013	0845	4	w	x				x				x		x						
4	MW-05_07182013	7/18/2013	0950	1	w													x				
5	MW-15_07182013	7/18/2013	1145	1	w											x			x			
6	MW-24_07192013	7/19/2013	0825	2	w												x			X	X	
7	MW-37_07232013	7/23/2013	0715	7	w	x	x	x	x	x	x	x										
8	MW-70_07182013	7/18/2013	1145	1	w											x			x			
9	Trip Blank	7/23/2013		3	w			X														
10	Temp Blank	7/23/2013		1	W																	
11																						
12																						
13																						
14																						
15																						

Laboratory Use Only

Samples Were: Fed X
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 1.7
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: ***Email results to Tanner Holliday, Kethy Weinel, and David Turk***

Relinquished by: Signature	Date:	Received by: Signature	Date:
Tanner Holliday	7/25/13		
Print Name: Tanner Holliday	Time: 1100	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: 7-26-13
Print Name	Time:	Print Name Elma Hayes	Time: 9:00

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

Contaminant	Analytical Method	Reporting Limit	Maximum Holding Times	Sample Preservation Requirements	Sample Temperature Requirements
[illegible]					
Ammonia (as N)	A4500-NH3 G or E350.1	0.05 mg/L	28 days	H_2SO_4 to pH<2	≤ 6°C
Nitrate & Nitrite (as N)	E353.1 or E353.2	0.1 mg/L	28 days	H_2SO_4 to pH<2	≤ 6°C
Volatile Organic Compounds (Groundwater, Soil, Solids and Liquids Impoundments)					
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
Other					
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

Constituent	Analytical Method Code	Reporting Limit	Holding Time	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 - Chlorinated Organics					
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
SVOC - Water Environment Samples Only					
1,2,4-Trichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,2-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,3-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1,4-Dichlorobenzene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
1-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,5-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4,6-Trichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dichlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dimethylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrophenol	SW8270D	<20 ug/L	7/40 days	None	≤ 6°C
2,4-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2,6-Dinitrotoluene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chloronaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Chlorophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylnaphthalene	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
2-Nitrophenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3&4-Methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
3,3'-Dichlorobenzidine	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C
4,6-Dinitro-2-methylphenol	SW8270D	<10 ug/L	7/40 days	None	≤ 6°C

Table 3 – GEL Groundwater, Tailings Impoundment, and Seeps and Springs Sampling

Contaminant	Analytical Method to be used	Reporting Limit	Maximum Holding Time	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	**-RW 3/27/13 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
Radiologics					
~~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 BALANCE 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

Lab Set ID: 1307553

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	-001	-002	-003	-004	-005	-006	-007	-008										
Ammonia	pH <2 H_2SO_4							yes											
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3	yes	yes	yes	yes	yes	yes	yes	yes										
NO_2 & NO_3	pH <2 H_2SO_4			yes				yes											
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

July 25, 2013

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 329520

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 15, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

Heather Shaffer

Heather Shaffer
Project Manager

Purchase Order: DW16138
Enclosures

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 329520

July 25, 2013

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 July 15, 2013 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. Please see the attached email for further details..

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
329520001	MW-14_07112013
329520002	MW-26_07112013
329520003	MW-30_07102013
329520004	MW-11_07102013
329520005	MW-36_07102013
329520006	MW-25_07102013
329520007	MW-35_07092013
329520008	MW-32_07092013
329520009	MW-31_07092013

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Heather Shaffer

Heather Shaffer
Project Manager

329520

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2108
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
3rd Quarter GW 2013	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-14_07112013	7/11/2013	835	Gross Alpha
MW-26_07112013	7/11/2013	640	Gross Alpha
MW-30_07102013	7/10/2013	1445	Gross Alpha
MW-11_01102013	7/10/2013	1305	Gross Alpha
MW-36_07102013	7/10/2013	750	Gross Alpha
MW-25_07102013	7/10/2013	1100	Gross Alpha
MW-35_07092013	7/9/2013	1500	Gross Alpha
MW-32_07092013	7/9/2013	1235	Gross Alpha
MW-31_07092013	7/9/2013	1305	Gross Alpha

Comments:

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	7/11/2013 1100	[illegible]	071513 1000
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	**SDG/AR/COC/Work Order:** 329520
Received By: H. Taylor	**Date Received:** 071513

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓	✓		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓	✓	Preservation Method: Ice bags Blue ice Dry ice (None) Other (describe) *all temperatures are recorded in Celsius 20
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 5105004 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			
14	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 12 187 Y4Y 02 9639 9601

Comments (Use Continuation Form if needed):

DA 7-11-13

GEL Laboratories LLC - Login Review Report

GEL Work Order/SDG: 329520
Client SDG: 329520
Project Manager: Heather Shaffer
Project Name: DNMI00100 White Mesa Mill GW
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 05-AUG-13
Package Due Date: 03-AUG-13
EDD Due Date: 05-AUG-13
Due Date: 05-AUG-13
JHC

Collector: C
Prelogin #: 20130705574
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
329520001	MW-14_07112013		11-JUL-13 08:35	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520002	MW-26_07112013		11-JUL-13 06:40	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520003	MW-30_07102013		10-JUL-13 14:45	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520004	MW-11_07102013		10-JUL-13 13:05	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520005	MW-36_07102013		10-JUL-13 07:50	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520006	MW-25_07102013		10-JUL-13 11:00	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520007	MW-35_07092013		09-JUL-13 15:00	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520008	MW-32_07092013		09-JUL-13 12:35	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		
329520009	MW-31_07092013		09-JUL-13 13:05	15-JUL-13 10:00	-2	1	GROUND WATER		21		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-14_07112013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-26_07112013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 MW-30_07102013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 MW-11_07102013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 MW-36_07102013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-006 MW-25_07102013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-007 MW-35_07092013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-008 MW-32_07092013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-009 MW-31_07092013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

GEL Laboratories LLC - Login Review Report

Product: GFCTORAL **Workdef ID:** 1297250 **In Product Group?** No **Group Name:** **Group Reference:**

Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001, 002, 003, 004, 005, 006, 007, 008, 009
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference: Gross Alpha
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	Yes

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 329520

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, Liquid**
Analytical Method:	EPA 900.1 Modified
Analytical Batch Number:	1314887

Sample ID	Client ID
329520001	MW-14_07112013
329520002	MW-26_07112013
329520003	MW-30_07102013
329520004	MW-11_07102013
329520005	MW-36_07102013
329520006	MW-25_07102013
329520007	MW-35_07092013
329520008	MW-32_07092013
329520009	MW-31_07092013
1202908968	Method Blank (MB)
1202908969	329520001(MW-14_07112013) Sample Duplicate (DUP)
1202908970	329520001(MW-14_07112013) Matrix Spike (MS)
1202908971	329520001(MW-14_07112013) Matrix Spike Duplicate (MSD)
1202908972	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 329520001 (MW-14_07112013).

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 1202908970 (MW-14_07112013) and 1202908971 (MW-14_07112013) were recounted due to low recovery. The recounts are reported. Sample 1202908968 (MB) was recounted due to a suspected blank false positive. The recount is reported. Samples 1202908969 (MW-14_07112013) and 329520001 (MW-14_07112013) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Chemical Recoveries
All chemical recoveries meet the required acceptance limits for this sample set.

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.

Additional Comments
The matrix spike and matrix spike duplicate, 1202908970 (MW-14_07112013) and 1202908971 (MW-14_07112013), 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: 329520 GEL Work Order: 329520

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: Heather M. McCarty **Name: Heather McCarty**

Date: 24 JUL 2013 **Title: Analyst II**

GEL LABORATORIES LLC

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

QC Summary

Report Date: July 24, 2013

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

Contact: **Ms. Kathy Weinel**

Workorder: **329520**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1314887										
QC1202908969 329520001 DUP										
Gross Radium Alpha	U	0.742	U	0.737	pCi/L	N/A		N/A	KDF1	07/21/13 11:2
	Uncertainty	+/-0.261		+/-0.278						
QC1202908972 LCS										
Gross Radium Alpha	555			443	pCi/L		79.7	(75%-125%)		07/20/13 15:2
	Uncertainty			+/-5.95						
QC1202908968 MB										
Gross Radium Alpha			U	0.161	pCi/L					07/21/13 11:2
	Uncertainty			+/-0.150						
QC1202908970 329520001 MS										
Gross Radium Alpha	1110 U	0.742		864	pCi/L		77.5	(75%-125%)		07/21/13 11:2
	Uncertainty	+/-0.261		+/-10.8						
QC1202908971 329520001 MSD										
Gross Radium Alpha	1110 U	0.742		842	pCi/L	2.65	75.4	(0%-20%)		07/21/13 13:1
	Uncertainty	+/-0.261		+/-10.7						

Notes:

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

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit

GEL LABORATORIES LLC

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

QC Summary

Workorder: **329520**

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.
^ 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.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

August 17, 2013

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 329987

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 22, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

Heather Shaffer

Heather Shaffer
Project Manager

Purchase Order: DW16138
Enclosures

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 329987

August 17, 2013

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 July 22, 2013 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:

Laboratory ID	Client ID
329987001	MW-19_07152013
329987002	MW-27_07172013

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Heather Shaffer

Heather Shaffer
Project Manager

329987

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2108
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
3rd Quarter Ground Water 2013	Garrin Palmer	Garrin Palmer

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-19_07152013	7/15/2013	1530	Gross Alpha
MW-27_07172013	7/17/2013	1100	Gross Alpha

Samples were field filtered.

Comments:

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Garrin Palmer	7/18/2013 1200	P. Ulent	7-22-13 09:35
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	SDG/AR/COC/Work Order: 329986 | 329987
Received By: D. Quinn	Date Received: 7-22-13

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM
Classified Radioactive II or III by RSO?		X	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		X	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		X	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		X	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 21
2a	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: Secondary Temperature Device Serial # (If Applicable): 61524649
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Sample ID's affected:
11	Number of containers received match number indicated on COC?			X	Sample ID's affected: Lab rec'd 1 Container each
12	Are sample containers identifiable as GEL provided?	X			
13	COC form is properly signed in relinquished/received sections?	X			
14	Carrier and tracking number.	X			Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 8015 5302 2044

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials NS Date 7/22/13 Page 1 of 1

GEL Laboratories LLC - Login Review Report

GEL Work Order/SDG: 329987 3rd Qtr Groundwater 2013
Client SDG: 329987
Project Manager: Heather Shaffer
Project Name: DNMI00100 White Mesa Mill GW
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 19-AUG-13
Package Due Date: 16-AUG-13
EDD Due Date: 19-AUG-13
Due Date: 19-AUG-13
HXS1

Collector: C
Prelogin #: 20130705880
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
329987001	MW-19_07152013		15-JUL-13 15:30	22-JUL-13 09:35	-2	1	GROUND WATER		20		1		
329987002	MW-27_07172013		17-JUL-13 11:00	22-JUL-13 09:35	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 MW-19_07152013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 MW-27_07172013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

Product: GFCTORAL **Workdef ID:** 1297250 **In Product Group?** No **Group Name:** **Group Reference:**

Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001, 002
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference: Gross Alpha
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	Yes

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments

GEL Laboratories LLC – Login Review Report

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 329987

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, Liquid**
Analytical Method:	EPA 900.1 Modified
Analytical Batch Number:	1318324

Sample ID	Client ID
329987001	MW-19_07152013
329987002	MW-27_07172013
1202917400	Method Blank (MB)
1202917401	329986001(Enterance Seep) Sample Duplicate (DUP)
1202917402	329986001(Enterance Seep) Matrix Spike (MS)
1202917403	329986001(Enterance Seep) Matrix Spike Duplicate (MSD)
1202917404	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 329986001 (Enterance Seep).

QC Information

All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries
All chemical recoveries meet the required acceptance limits for this sample set.

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.

Additional Comments
The matrix spike and matrix spike duplicate, 1202917402 (Enterance Seep) and 1202917403 (Enterance Seep), aliquots were reduced to conserve sample volume.

Qualifier Information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

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

Qualifier Definition Report
for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 329987 GEL Work Order: 329987

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: Heather M. McCarty **Name: Heather McCarty**

Date: 15 AUG 2013 **Title: Analyst II**

GEL LABORATORIES LLC

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

QC Summary

Report Date: August 14, 2013

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

Contact: **Ms. Kathy Weinel**

Workorder: **329987**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1318324										
QC1202917401 329986001 DUP										
Gross Radium Alpha		2.30		2.51	pCi/L	8.78		(0%-20%)	KDF1	08/11/13 10:2
	Uncertainty	+/-0.299		+/-0.327						
QC1202917404 LCS										
Gross Radium Alpha	555			571	pCi/L		103	(75%-125%)		08/11/13 10:2
	Uncertainty			+/-4.51						
QC1202917400 MB										
Gross Radium Alpha			U	0.344	pCi/L					08/11/13 10:2
	Uncertainty			+/-0.148						
QC1202917402 329986001 MS										
Gross Radium Alpha	1120	2.30		1070	pCi/L		95.3	(75%-125%)		08/11/13 10:2
	Uncertainty	+/-0.299		+/-8.62						
QC1202917403 329986001 MSD										
Gross Radium Alpha	1120	2.30		1200	pCi/L	11.8	107	(0%-20%)		08/11/13 10:2
	Uncertainty	+/-0.299		+/-9.68						

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: **329987**

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.
^ 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.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

August 12, 2013

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 330123

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 24, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

Heather Shaffer

Heather Shaffer
Project Manager

Purchase Order: DW16138
Enclosures

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 330123

August 12, 2013

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 July 24, 2013 for analysis.

Sample Identification: The laboratory received the following sample:

Laboratory ID	Client ID
330123001	MW-37_07232013

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Heather Shaffer

Heather Shaffer
Project Manager

330123

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2108
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
3rd Quarter Ground Water 2013	Tanner Holliday	Tanner Holliday

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-37_07232013	7/23/2013	715	Gross Alpha

Comments:

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Tanner Holliday	7/23/2013 1200	[illegible]	7-24-13 0900
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	SDG/AR/COC/Work Order: 330123 / 330124
Received By: JP	Date Received: 7-24-13

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 21
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 41502209 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			
					Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other
14	Carrier and tracking number.				8987 8421 0997

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JP Date 7-24-13 Page 1 of 1

GEL Laboratories LLC - Login Review Report

GEL Work Order/SDG: 330123 3rd Qtr Groundwater 2013
Client SDG: 330123
Project Manager: Heather Shaffer
Project Name: DNMI00100 White Mesa Mill GW
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 21-AUG-13
Package Due Date: 18-AUG-13
EDD Due Date: 21-AUG-13
Due Date: 21-AUG-13
HXS1

Collector: C
Prelogin #: 20130705975
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
330123001	MW-37_07232013		23-JUL-13 07:15	24-JUL-13 09:00	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data		Receive Codes
-001 MW-37_07232013	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
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference: Gross Alpha
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	Yes

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments

GEL Laboratories LLC - Login Review Report

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 330123

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, Liquid**
Analytical Method:	EPA 900.1 Modified
Analytical Batch Number:	1318324

Sample ID	Client ID
330123001	MW-37_07232013
1202917400	Method Blank (MB)
1202917401	329986001(Enterance Seep) Sample Duplicate (DUP)
1202917402	329986001(Enterance Seep) Matrix Spike (MS)
1202917403	329986001(Enterance Seep) Matrix Spike Duplicate (MSD)
1202917404	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 329986001 (Enterance Seep).

QC Information
All of the QC samples met the required acceptance limits.

Technical Information:

Holding Time
All sample procedures for this sample set were performed within the required holding time.

Sample Re-prep/Re-analysis
None of the samples in this sample set required reprep or reanalysis.

Chemical Recoveries
All chemical recoveries meet the required acceptance limits for this sample set.

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.

Additional Comments
The matrix spike and matrix spike duplicate, 1202917402 (Enterance Seep) and 1202917403 (Enterance Seep), aliquots were reduced to conserve sample volume.

Qualifier Information

Manual qualifiers were not required.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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Qualifier Definition Report
for

DNMI001 Energy Fuels Resources (USA), Inc.

Client SDG: 330123 GEL Work Order: 330123

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: Heather M. McCarty **Name: Heather McCarty**

Date: 17 AUG 2013 **Title: Analyst II**

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QC Summary

Report Date: August 17, 2013

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

Contact: **Ms. Kathy Weinel**

Workorder: **330123**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1318324										
QC1202917401 329986001 DUP										
Gross Radium Alpha		2.30		2.51	pCi/L	8.78		(0%-20%)	KDF1	08/11/13 10:2
	Uncertainty	+/-0.299		+/-0.327						
QC1202917404 LCS										
Gross Radium Alpha	555			571	pCi/L		103	(75%-125%)		08/11/13 10:2
	Uncertainty			+/-4.51						
QC1202917400 MB										
Gross Radium Alpha			U	0.344	pCi/L					08/11/13 10:2
	Uncertainty			+/-0.148						
QC1202917402 329986001 MS										
Gross Radium Alpha	1120	2.30		1070	pCi/L		95.3	(75%-125%)		08/11/13 10:2
	Uncertainty	+/-0.299		+/-8.62						
QC1202917403 329986001 MSD										
Gross Radium Alpha	1120	2.30		1200	pCi/L	11.8	107	(0%-20%)		08/11/13 10:2
	Uncertainty	+/-0.299		+/-9.68						

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: **330123**

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.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Tab F

Laboratory Analytical Reports – Accelerated Monitoring

Tab F1

Laboratory Analytical Reports – Accelerated Monitoring

August 2013

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-001
Client Sample ID: MW-11_08202013
Collection Date: 8/20/2013 1110h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	8/26/2013 0805h	8/28/2013 2244h	E200.8	0.0100	**0.158**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-002
Client Sample ID: MW-14_08202013
Collection Date: 8/20/2013 1305h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	8/26/2013 0805h	8/29/2013 1404h	E200.8	0.0100	**2.10**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-003
Client Sample ID: MW-25_08192013
Collection Date: 8/19/2013 1100h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	8/26/2013 0805h	8/28/2013 2306h	E200.8	0.000500	**0.00157**	
Uranium	mg/L	8/26/2013 0805h	8/28/2013 2359h	E200.8	0.000300	**0.00642**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-003
Client Sample ID: MW-25_08192013
Collection Date: 8/19/2013 1100h
Received Date: 8/23/2013 0940h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/26/2013 1442h	E300.0	5.00	**31.1**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-004
Client Sample ID: MW-26_08202013
Collection Date: 8/20/2013 1400h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	8/26/2013 0805h	8/29/2013 0004h	E200.8	0.000300	**0.0723**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-004
Client Sample ID: MW-26_08202013
Collection Date: 8/20/2013 1400h
Received Date: 8/23/2013 0940h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/26/2013 1505h	E300.0	10.0	**70.8**	
Nitrate/Nitrite (as N)	mg/L		8/27/2013 2055h	E353.2	1.00	**1.77**	

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-004D
Client Sample ID: MW-26_08202013
Collection Date: 8/20/2013 1400h
Received Date: 8/23/2013 0940h

Test Code: 8260-W

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 8/27/2013 2005h
Units: µg/L **Dilution Factor:** 20 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	20.0	**2,110**	~[1]

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	1,130	1,000	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	987	1,000	98.7	80-128	
Surr: Dibromofluoromethane	1868-53-7	1,060	1,000	106	80-124	
Surr: Toluene-d8	2037-26-5	997	1,000	99.7	77-129	

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
~ - The reporting limits were raised due to high analyte concentrations.

Analyzed: 8/27/2013 1926h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	**14.6**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.1	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.3	50.00	98.7	80-128	
Surr: Dibromofluoromethane	1868-53-7	54.2	50.00	108	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-005
Client Sample ID: MW-30_08202013
Collection Date: 8/20/2013 1005h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	8/26/2013 0805h	8/28/2013 2316h	E200.8	0.00500	**0.0363**	
Uranium	mg/L	8/26/2013 0805h	8/29/2013 0009h	E200.8	0.000300	**0.00707**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-005
Client Sample ID: MW-30_08202013
Collection Date: 8/20/2013 1005h
Received Date: 8/23/2013 0940h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/26/2013 1529h	E300.0	50.0	**126**	
Nitrate/Nitrite (as N)	mg/L		8/27/2013 2057h	E353.2	1.00	**16.4**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-006
Client Sample ID: MW-31_08192013
Collection Date: 8/19/2013 1300h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	8/26/2013 0805h	8/28/2013 2322h	E200.8	0.00500	**0.0732**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-006
Client Sample ID: MW-31_08192013
Collection Date: 8/19/2013 1300h
Received Date: 8/23/2013 0940h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		8/26/2013 1332h	E300.0	50.0	**183**	
Nitrate/Nitrite (as N)	mg/L		8/27/2013 2058h	E353.2	10.0	**16.0**	
Sulfate	mg/L		8/26/2013 1332h	E300.0	50.0	**656**	[1]
Total Dissolved Solids	mg/L		8/23/2013 1305h	SM2540C	20.0	**1,440**	

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

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-007
Client Sample ID: MW-35_08192013
Collection Date: 8/19/2013 1430h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	8/26/2013 0805h	8/28/2013 2343h	E200.8	0.0100	**0.262**	
Molybdenum	mg/L	8/26/2013 0805h	8/28/2013 2343h	E200.8	0.0100	< 0.0100	
Selenium	mg/L	8/26/2013 0805h	8/28/2013 2343h	E200.8	0.00500	< 0.00500	
Thallium	mg/L	8/26/2013 0805h	8/29/2013 1458h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	8/26/2013 0805h	8/29/2013 0015h	E200.8	0.000300	**0.0214**	

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Certificate of Analysis

Report Date: September 12, 2013

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_08192013	Project:	DNMI00100
Sample ID:	332169001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	19-AUG-13 14:30		
Receive Date:	23-AUG-13		
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	+/-0.503	0.790	1.00	pCi/L		KDF1	09/10/13	1328	1326397	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			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: August Monthly Groundwater 2013
Lab Sample ID: 1308428-008
Client Sample ID: MW-65_08202013
Collection Date: 8/20/2013 1110h
Received Date: 8/23/2013 0940h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	8/26/2013 0805h	8/28/2013 2348h	E200.8	0.0100	**0.164**	

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ORGANIC ANALYTICAL REPORT

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Sample ID: 1308428-009A
Client Sample ID: Trip Blank
Collection Date: 8/20/2013
Received Date: 8/23/2013 0940h

Test Code: 8260-W

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 8/27/2013 1945h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.7	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	48.8	50.00	97.7	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.0	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.2	50.00	100	77-129	

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American West
ANALYTICAL LABORATORIES

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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

RE: August Monthly Groundwater 2013

Dear Garrin Palmer: Lab Set ID: 1308428

American West Analytical Laboratories received 9 sample(s) on 8/23/2013 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.

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.

Thank You,

Approved by: Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.09.04 10:32:38 -06'00'

Laboratory Director or designee

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SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: August Monthly Groundwater 2013
Lab Set ID: 1308428
Date Received: 8/23/2013 0940h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1308428-001A	MW-11_08202013	8/20/2013	1110h	Aqueous	ICPMS Metals, Dissolved
1308428-002A	MW-14_08202013	8/20/2013	1305h	Aqueous	ICPMS Metals, Dissolved
1308428-003A	MW-25_08192013	8/19/2013	1100h	Aqueous	Anions, E300.0
1308428-003B	MW-25_08192013	8/19/2013	1100h	Aqueous	ICPMS Metals, Dissolved
1308428-004A	MW-26_08202013	8/20/2013	1400h	Aqueous	Anions, E300.0
1308428-004B	MW-26_08202013	8/20/2013	1400h	Aqueous	ICPMS Metals, Dissolved
1308428-004C	MW-26_08202013	8/20/2013	1400h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308428-004D	MW-26_08202013	8/20/2013	1400h	Aqueous	VOA by GC/MS Method 8260C/5030C
1308428-005A	MW-30_08202013	8/20/2013	1005h	Aqueous	Anions, E300.0
1308428-005B	MW-30_08202013	8/20/2013	1005h	Aqueous	ICPMS Metals, Dissolved
1308428-005C	MW-30_08202013	8/20/2013	1005h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308428-006A	MW-31_08192013	8/19/2013	1300h	Aqueous	Anions, E300.0
1308428-006B	MW-31_08192013	8/19/2013	1300h	Aqueous	ICPMS Metals, Dissolved
1308428-006C	MW-31_08192013	8/19/2013	1300h	Aqueous	Nitrite/Nitrate (as N), E353.2
1308428-006D	MW-31_08192013	8/19/2013	1300h	Aqueous	Total Dissolved Solids, A2540C
1308428-007A	MW-35_08192013	8/19/2013	1430h	Aqueous	ICPMS Metals, Dissolved
1308428-008A	MW-65_08202013	8/20/2013	1110h	Aqueous	ICPMS Metals, Dissolved
1308428-009A	Trip Blank	8/20/2013		Aqueous	VOA by GC/MS Method 8260C/5030C

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Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	August Monthly Groundwater 2013
Lab Set ID:	1308428

Sample Receipt Information:

Date of Receipt:	8/23/2013
Date(s) of Collection:	8/19 & 8/20/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, 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 exception: The MSD percent recovery for sulfate was outside of control limits on 1308428-006A due to sample matrix interference.

Duplicates (DUP): The parameters that require a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any

Volatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	August Monthly Groundwater 2013
Lab Set ID:	1308428

Sample Receipt Information:

Date of Receipt:	8/23/2013
Date(s) of Collection:	8/19 & 8/20/2013
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, with the following exception: The MSD percent recovery for chloroform was outside of control limits on sample 1308428-004D due to sample matrix interference.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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-27396**	Date Analyzed:	08/28/2013 2239h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Cadmium		0.210	mg/L	E200.8	0.0000726	0.000500	0.2000	0	105	85 - 115				
Manganese		0.215	mg/L	E200.8	0.00166	0.00200	0.2000	0	107	85 - 115				
Molybdenum		0.214	mg/L	E200.8	0.000496	0.00200	0.2000	0	107	85 - 115				
Selenium		0.205	mg/L	E200.8	0.000686	0.00200	0.2000	0	103	85 - 115				
Uranium		0.204	mg/L	E200.8	0.0000598	0.00200	0.2000	0	102	85 - 115				
Lab Sample ID:	**LCS-27396**	Date Analyzed:	08/29/2013 1417h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Thallium		0.184	mg/L	E200.8	0.000222	0.00200	0.2000	0	91.8	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: 1308428
Project: August Monthly Groundwater 2013

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-27396**	Date Analyzed:	08/28/2013 2234h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Cadmium		< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Manganese		< 0.0100	mg/L	E200.8	0.00166	0.0100								
Molybdenum		< 0.0100	mg/L	E200.8	0.000496	0.0100								
Selenium		< 0.00500	mg/L	E200.8	0.000686	0.00500								
Lab Sample ID:	**MB-27396**	Date Analyzed:	08/28/2013 2353h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Uranium		< 0.000300	mg/L	E200.8	0.00000598	0.000300								
Lab Sample ID:	**MB-27396**	Date Analyzed:	08/29/2013 1410h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Thallium		< 0.000500	mg/L	E200.8	0.0000555	0.000500								

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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:	**1308428-001AMS**	Date Analyzed:	08/28/2013 2250h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Cadmium		0.216	mg/L	E200.8	0.0000726	0.000500	0.2000	0	108	75 - 125				
Manganese		0.396	mg/L	E200.8	0.00166	0.00200	0.2000	0.158	119	75 - 125				
Molybdenum		0.229	mg/L	E200.8	0.000496	0.00200	0.2000	0.00233	113	75 - 125				
Selenium		0.211	mg/L	E200.8	0.000686	0.00200	0.2000	0	106	75 - 125				
Uranium		0.212	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000807	106	75 - 125				
Lab Sample ID:	**1308428-001AMS**	Date Analyzed:	08/29/2013 1445h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Thallium		0.175	mg/L	E200.8	0.000222	0.00200	0.2000	0	87.6	75 - 125				

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Laboratory Director

Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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:	**1308428-001AMSD**	Date Analyzed:	08/28/2013 2255h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Cadmium		0.188	mg/L	E200.8	0.0000726	0.000500	0.2000	0	93.9	75 - 125	0.216	14.0	20	
Manganese		0.353	mg/L	E200.8	0.00166	0.00200	0.2000	0.158	97.6	75 - 125	0.396	11.5	20	
Molybdenum		0.197	mg/L	E200.8	0.000496	0.00200	0.2000	0.00233	97.5	75 - 125	0.229	14.8	20	
Selenium		0.188	mg/L	E200.8	0.000686	0.00200	0.2000	0	94.1	75 - 125	0.211	11.5	20	
Uranium		0.184	mg/L	E200.8	0.0000598	0.00200	0.2000	0.000807	91.6	75 - 125	0.212	14.2	20	
Lab Sample ID:	**1308428-001AMSD**	Date Analyzed:	08/29/2013 1451h											
Test Code:	200.8-DIS	Date Prepared:	08/26/2013 0805h											
Thallium		0.178	mg/L	E200.8	0.000222	0.00200	0.2000	0	89.1	75 - 125	0.175	1.71	20	

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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: 1308428-006DDUP Date Analyzed: 08/23/2013 1305h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,400	mg/L	SM2540C	8.00	20.0					1440	2.82	5	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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-R58379 Date Analyzed: 08/26/2013 1309h													
Test Code: 300.0-W													
Chloride	4.77	mg/L	E300.0	0.0114	1.00	5.000	0	95.5	90 - 110				
Sulfate	4.97	mg/L	E300.0	0.177	1.00	5.000	0	99.4	90 - 110				
Lab Sample ID: LCS-R58414 Date Analyzed: 08/27/2013 2029h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.964	mg/L	E353.2	0.00252	0.100	1.000	0	96.4	90 - 110				
Lab Sample ID: LCS-R58326 Date Analyzed: 08/23/2013 1305h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	204	mg/L	SM2540C	4.00	10.0	205.0	0	99.5	80 - 120				

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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-R58379 Date Analyzed: 08/26/2013 1246h													
Test Code: 300.0-W													
Chloride	< 1.00	mg/L	E300.0	0.0114	1.00								
Sulfate	< 1.00	mg/L	E300.0	0.177	1.00								
Lab Sample ID: MB-R58414 Date Analyzed: 08/27/2013 2028h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
Lab Sample ID: MB-R58326 Date Analyzed: 08/23/2013 1305h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								

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Laboratory Director

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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: 1308428-006AMS Date Analyzed: 08/26/2013 1356h													
Test Code: 300.0-W													
Chloride	2,670	mg/L	E300.0	5.70	500	2,500	183	99.5	90 - 110				
Sulfate	3,220	mg/L	E300.0	88.5	500	2,500	656	103	90 - 110				
Lab Sample ID: 1308428-004CMS Date Analyzed: 08/27/2013 2110h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.5	mg/L	E353.2	0.0252	1.00	10.00	1.77	107	90 - 110				

analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any mber of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility

463 West 3600 South
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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: 1308428
Project: August Monthly Groundwater 2013

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: 1308428-006AMSD Date Analyzed: 08/26/2013 1419h													
Test Code: 300.0-W													
Chloride	2,790	mg/L	E300.0	5.70	500	2,500	183	104	90 - 110	2670	4.18	20	
Sulfate	3,410	mg/L	E300.0	88.5	500	2,500	656	110	90 - 110	3220	5.66	20	1
Lab Sample ID: 1308428-004CMSD Date Analyzed: 08/27/2013 2111h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0252	1.00	10.00	1.77	101	90 - 110	12.5	5.22	10	

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

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American West
ANALYTICAL LABORATORIES

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1308428
Project: August Monthly Groundwater 2013

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 082713B Date Analyzed: 08/27/2013 1829h													
Test Code: 8260-W													
Chloroform	15.4	µg/L	SW8260C	0.277	2.00	20.00	0	77.2	67 - 132				
Methylene chloride	11.6	µg/L	SW8260C	0.155	2.00	20.00	0	58.2	32 - 185				
Surr: 1,2-Dichloroethane-d4	53.9	µg/L	SW8260C			50.00		108	76 - 138				
Surr: 4-Bromofluorobenzene	49.0	µg/L	SW8260C			50.00		98.0	77 - 121				
Surr: Dibromofluoromethane	51.3	µg/L	SW8260C			50.00		103	67 - 128				
Surr: Toluene-d8	49.9	µg/L	SW8260C			50.00		99.9	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: 1308428
Project: August Monthly Groundwater 2013

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 082713B	Date Analyzed:	08/27/2013 1907h											
Test Code: 8260-W													
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	55.7	µg/L	SW8260C			50.00		111	76 - 138				
Surr: 4-Bromofluorobenzene	50.0	µg/L	SW8260C			50.00		100	77 - 121				
Surr: Dibromofluoromethane	51.8	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	51.0	µg/L	SW8260C			50.00		102	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: 1308428
Project: August Monthly Groundwater 2013

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: 1308428-004DMS Date Analyzed: 08/27/2013 2024h													
Test Code: 8260-W													
Chloroform	2,380	µg/L	SW8260C	5.54	40.0	400.0	2110	69.5	50 - 146				
Methylene chloride	233	µg/L	SW8260C	3.10	40.0	400.0	0	58.3	30 - 192				
Surr: 1,2-Dichloroethane-d4	1,120	µg/L	SW8260C			1,000		112	72 - 151				
Surr: 4-Bromofluorobenzene	962	µg/L	SW8260C			1,000		96.2	80 - 128				
Surr: Dibromofluoromethane	1,060	µg/L	SW8260C			1,000		106	80 - 124				
Surr: Toluene-d8	966	µg/L	SW8260C			1,000		96.6	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: 1308428
Project: August Monthly Groundwater 2013

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: 1308428-004DMSD Date Analyzed: 08/27/2013 2043h													
Test Code: 8260-W													
Chloroform	2,280	µg/L	SW8260C	5.54	40.0	400.0	2110	43.5	50 - 146	2380	4.46	25	[1]
Methylene chloride	224	µg/L	SW8260C	3.10	40.0	400.0	0	55.9	30 - 192	233	4.20	25	
Surr: 1,2-Dichloroethane-d4	1,120	µg/L	SW8260C			1,000		112	72 - 151				
Surr: 4-Bromofluorobenzene	965	µg/L	SW8260C			1,000		96.5	80 - 128				
Surr: Dibromofluoromethane	1,070	µg/L	SW8260C			1,000		107	80 - 124				
Surr: Toluene-d8	975	µg/L	SW8260C			1,000		97.5	77 - 129				

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

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American West Analytical Laboratories

UL
Denison

WORK ORDER Summary

Work Order: **1308428**

Client: Energy Fuels Resources, Inc.

Due Date: 9/4/2013

Client ID: DEN100

Contact: Garrin Palmer

Project: **August Monthly Groundwater 2013**

QC Level: III

WO Type: Project

Comments: PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. EDD-Denison and EIM-Locus. Email Group. All metals samples have been field filtered.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1308428-001A	**MW-11_08202013**	8/20/2013 1110h	8/23/2013 0940h	**200.8-DIS**	Aqueous	☑	df / dis metals	1
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df / dis metals	
1308428-002A	**MW-14_08202013**	8/20/2013 1305h	8/23/2013 0940h	**200.8-DIS**	Aqueous	☑	df / dis metals	1
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df / dis metals	
1308428-003A	**MW-25_08192013**	8/19/2013 1100h	8/23/2013 0940h	**300.0-W**	Aqueous	☑	df / wc	1
				1 SEL Analytes: CL				
1308428-003B				**200.8-DIS**		☑	df /metals	
				2 SEL Analytes: CD U				
				200.8-DIS-PR		☐	df /metals	
1308428-004A	**MW-26_08202013**	8/20/2013 1400h	8/23/2013 0940h	**300.0-W**	Aqueous	☑	df / wc	1
				1 SEL Analytes: CL				
1308428-004B				**200.8-DIS**		☑	df /metals	
				1 SEL Analytes: U				
				200.8-DIS-PR		☐	df /metals	
1308428-004C				**NO2/NO3-W-353.2**		☑	df / no2/no3	
				1 SEL Analytes: NO3NO2N				
1308428-004D				**8260-W**		☑	vOC	3
				Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4				
1308428-005A	**MW-30_08202013**	8/20/2013 1005h	8/23/2013 0940h	**300.0-W**	Aqueous	☑	df / wc	1
				1 SEL Analytes: CL				
1308428-005B				**200.8-DIS**		☑	df /metals	
				2 SEL Analytes: SE U				
				200.8-DIS-PR		☐	df /metals	
1308428-005C				**NO2/NO3-W-353.2**		☑	df / no2/no3	
				1 SEL Analytes: NO3NO2N				
1308428-006A	**MW-31_08192013**	8/19/2013 1300h	8/23/2013 0940h	**300.0-W**	Aqueous	☑	df / wc	1
				2 SEL Analytes: CL SO4				
1308428-006B				**200.8-DIS**		☑	df /metals	
				1 SEL Analytes: SE				
				200.8-DIS-PR		☐	df /metals	

Printed: 8/23/2013 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☑ RT ☑ CN ☑ TAT ☑ QC ☑ HOK_____ HOK_____ HOK_____ COC Emailed 8/23/13

WORK ORDER Summary

Work Order: **1308428**

Client: Energy Fuels Resources, Inc.

Due Date: 9/4/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1308428-006C	**MW-31_08192013**	8/19/2013 1300h	8/23/2013 0940h	**NO2/NO3-W-353.2**	Aqueous	☑	df / no2/no3	1
				1 SEL Analytes: NO3NO2N				
1308428-006D				**TDS-W-2540C**		☑	ww - tds	
				1 SEL Analytes: TDS				
1308428-007A	**MW-35_08192013**	8/19/2013 1430h	8/23/2013 0940h	**200.8-DIS**	Aqueous	☑	df /metals	1
				5 SEL Analytes: MN MO SE TL U				
				200.8-DIS-PR		☐	df /metals	
1308428-008A	**MW-65_08202013**	8/20/2013 1110h	8/23/2013 0940h	**200.8-DIS**	Aqueous	☑	df / dis metals	1
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df / dis metals	
1308428-009A	**Trip Blank**	8/20/2013	8/23/2013 0940h	**8260-W**	Aqueous	☑	vOC	3
				Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4				

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

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.

1308428
AWAL LAB SAMPLE SET #
PAGE ____ OF ____

QC LEVEL: 3

TURN AROUND TIME: STANDARD

UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE, SIGNED REPORTS WILL BE EMAILED BY 5:00 PM ON THE DAY THEY ARE DUE.

DUE DATE:

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: August Monthly Ground Water 2013
PROJECT #:
PO #:
SAMPLER NAME: Tanner Holliday

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:

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 Molybdenum and Thallium (200.7/200.8)	SO_4 (4500 or 300.0)	VOCs Chloroform and Dichloromethane (8260C)	KNOWN HAZARDS & SAMPLE COMMENTS
MW-11_08202013	8/20/13	1116	1	W		X									
MW-14_08202013	8/20/13	1305	1	W		X									
MW-25_08192013	8/19/13	1100	2	W			X		X	X					All Metals are Field Filtered
MW-26_08202013	8/20/13	1400	6	W	X		X		X					X	
MW-30_08202013	8/20/13	1005	3	W	X		X		X		X				
MW-31_08192013	8/19/13	1300	4	W	X		X	X			X		X		
MW-35_08192013	8/19/13	1430	1	W		X			X		X	X			
MW-65_08202013	8/20/13	1110	1	W		X									
Trip Blank	8/20/13		3	W										X	
Temp Blank	8/22/13		1	W											

LABORATORY USE ONLY

SAMPLES WERE: Fed-X
1 SHIPPED OR HAND DELIVERED
2 AMBIENT OR CHILLED
3 TEMPERATURE 2.1 °C
4 RECEIVED BROKEN/LEAKING (IMPROPERLY SEALED) Y N
5 PROPERLY PRESERVED Y N
CHECKED AT BENCH Y N
6 RECEIVED WITHIN HOLDING TIMES Y N

COC TAPE WAS:
1 PRESENT ON OUTER 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:	DATE:	RECEIVED BY:	DATE:
SIGNATURE: Tanner Holliday	8/22/13	SIGNATURE:	
PRINT NAME: Tanner Holliday	TIME: 1100	PRINT NAME:	TIME:
RELINQUISHED BY: SIGNATURE:	DATE:	RECEIVED BY: SIGNATURE: Elma Hay	DATE: 8/23/13
PRINT NAME:	TIME:	PRINT NAME: Elma Hay	TIME: 9:40
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.

Lab Set ID: 1308428

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8										
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3	yes	yes	yes	yes	yes	yes	yes	yes										
NO_2 & NO_3	pH <2 H_2SO_4				yes	yes	yes												
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_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

Kragh Curtis

From: Melton, Sean <Sean.Melton@centurylink.com>
Sent: Wednesday, September 04, 2013 3:44 PM
To: Kragh Curtis
Subject: 100/100 Mg Fiber Updated Pricing

Kragh,
Let me know you have questions. Let me know what you decide and I'll send over the documents for signatures. Thanks

Updated Terms (9/04/2013):
1, 2 & 3 Year Pricing (See below)
All Installation/Activation/Equipment Fees – *Waived*

Century Link Fiber Optic Data		
Bandwidth	**Term**	**Monthly Rate**
100/100 Mbps	12 Months	$360.00 (One month free service included)
100/100 Mbps	24 Months	$320.00 (Two months free service included)
100/100 Mbps	36 Months	$280.00 (Three months free service included)

Sean Melton
ASAE II
930 15th Street
Denver, CO 80202
mobile: 303.819.3020
facsimile: 303.391.2363
Email: Sean.Melton@centurylink.com

CenturyLink™
Business

GEL Laboratories LLC

a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407

P 843.556.8171 F 843.766.1178

www.gel.com

September 11, 2013

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 332169

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 23, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

Heather Shaffer

Heather Shaffer
Project Manager

Purchase Order: DW16138
Enclosures

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 332169

September 11, 2013

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 August 23, 2013 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:

Laboratory ID	Client ID
332169001	MW-35_08192013

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Heather Shaffer

Heather Shaffer
Project Manager

332169

Sheet 1 of 1

CHAIN OF CUSTODY

Samples Shipped to: Gel Laboratories
2040 Savage Road
Charleston, SC 29407

Contact: Garrin Palmer
Ph: 435 678 2108
gpalmer@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
August Monthly Ground Water 2013	Garrin Palmer	

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
MW-35_08192013	8/19/2013	1430	Gross Alpha

Comments:

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
	8/22/2013 1200		8-23-13 0925
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DAIMI	SDG/AR/COC/Work Order: 3321109
Received By: JP	Date Received: 8-23-13

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice (None) Other (describe) *all temperatures are recorded in Celsius 24
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 41507209 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			
14	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground (UPS) Field Services Courier Other 1Z 187 444 01 9342 4054

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JP Date 8-23-13 Page 1 of 1

GEL Laboratories LLC – Login Review Report

GEL Work Order/SDG: 332169 **August Ground Water 2013**
Client SDG: 332169
Project Manager: Heather Shaffer
Project Name: DNMI00100 White Mesa Mill GW
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 20-SEP-13
Package Due Date: 17-SEP-13
EDD Due Date: 20-SEP-13
Due Date: 20-SEP-13
HXS1

Collector: C
Prelogin #: 20130807234
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
332169001	MW-35_08192013		19-AUG-13 14:30	23-AUG-13 09:25	-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_08192013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	y	
						Temperature (C)	24	

Product: GFCTORAL **Workdef ID:** 1297250 **In Product Group?** No **Group Name:** **Group Reference:**
Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001
Parmname Check: All parmnames scheduled properly
Path: Standard
Product Reference: Gross Alpha
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	Yes

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments

GEL Laboratories LLC – Login Review Report

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 332169

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, Liquid**
Analytical Method:	EPA 900.1 Modified
Analytical Batch Number:	1326397

Sample ID	Client ID
332169001	MW-35_08192013
1202936611	Method Blank (MB)
1202936612	332169001(MW-35_08192013) Sample Duplicate (DUP)
1202936613	332169001(MW-35_08192013) Matrix Spike (MS)
1202936614	332169001(MW-35_08192013) Matrix Spike Duplicate (MSD)
1202936615	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 332169001 (MW-35_08192013).

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.

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.

Additional Comments
The matrix spike and matrix spike duplicate, 1202936613 (MW-35_08192013) and 1202936614 (MW-35_08192013), 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: 332169 GEL Work Order: 332169

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: **Name: Kate Gellatly**

Date: 12 SEP 2013 **Title: Analyst I**

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 12, 2013

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

Contact: **Ms. Kathy Weinel**

Workorder: **332169**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1326397										
QC1202936612 332169001 DUP										
Gross Radium Alpha		3.92		4.64	pCi/L	16.7		(0%-20%)	KDF1	09/10/13 13:2
	Uncertainty	+/-0.503		+/-0.548						
QC1202936615 LCS										
Gross Radium Alpha	555			467	pCi/L		84.1	(75%-125%)		09/10/13 13:2
	Uncertainty			+/-5.06						
QC1202936611 MB										
Gross Radium Alpha			U	-0.00832	pCi/L					09/10/13 13:2
	Uncertainty			+/-0.202						
QC1202936613 332169001 MS										
Gross Radium Alpha	1120	3.92		890	pCi/L		79.1	(75%-125%)		09/10/13 13:2
	Uncertainty	+/-0.503		+/-9.68						
QC1202936614 332169001 MSD										
Gross Radium Alpha	1120	3.92		905	pCi/L	1.61	80.4	(0%-20%)		09/10/13 13:2
	Uncertainty	+/-0.503		+/-9.84						

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

QC Summary

Workorder: **332169**

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.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Tab F2

Laboratory Analytical Reports – Accelerated Monitoring

September 2013

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-001
Client Sample ID: MW-11_09182013
Collection Date: 9/18/2013 1135h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	9/20/2013 1120h	9/24/2013 0255h	E200.8	0.0100	**0.134**	^

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. Confidential Business Information: This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-002
Client Sample ID: MW-14_09192013
Collection Date: 9/19/2013 0900h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	9/20/2013 1120h	9/24/2013 1457h	E200.8	0.0100	**2.19**	^

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INORGANIC ANALYTICAL REPORT

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Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-003
Client Sample ID: MW-25_09172013
Collection Date: 9/17/2013 1100h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/20/2013 1120h	9/24/2013 0317h	E200.8	0.000500	**0.00131**	
Uranium	mg/L	9/20/2013 1120h	9/24/2013 0405h	E200.8	0.000300	**0.00599**	^

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-003
Client Sample ID: MW-25_09172013
Collection Date: 9/17/2013 1100h
Received Date: 9/20/2013 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/24/2013 2014h	E300.0	5.00	**29.6**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-004
Client Sample ID: MW-26_09182013
Collection Date: 9/18/2013 0920h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Uranium	mg/L	9/20/2013 1120h	9/24/2013 0410h	E200.8	0.000300	**0.0199**	^

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-004
Client Sample ID: MW-26_09182013
Collection Date: 9/18/2013 0920h
Received Date: 9/20/2013 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/24/2013 2037h	E300.0	10.0	**77.3**	
Nitrate/Nitrite (as N)	mg/L		9/24/2013 2102h	E353.2	0.500	**3.60**	[1]

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

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-004D
Client Sample ID: MW-26_09182013
Collection Date: 9/18/2013 0920h
Received Date: 9/20/2013 1025h

Test Code: 8260-W

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/23/2013 0757h
Units: µg/L **Dilution Factor:** 100 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	100	**4,170**	~

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	5,300	5,000	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	5,080	5,000	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	5,110	5,000	102	80-124	
Surr: Toluene-d8	2037-26-5	4,940	5,000	98.9	77-129	

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

Analyzed: 9/20/2013 1316h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methylene chloride	75-09-2	1.00	**42.4**	

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	51.6	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	53.7	50.00	107	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	77-129	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-005
Client Sample ID: MW-30_09182013
Collection Date: 9/18/2013 1520h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	9/20/2013 1120h	9/24/2013 0322h	E200.8	0.00500	**0.0352**	^
Uranium	mg/L	9/20/2013 1120h	10/23/2013 1723h	E200.8	0.000300	**0.00700**	^

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-005
Client Sample ID: MW-30_09182013
Collection Date: 9/18/2013 1520h
Received Date: 9/20/2013 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/24/2013 2210h	E300.0	50.0	**131**	
Nitrate/Nitrite (as N)	mg/L		9/24/2013 2052h	E353.2	1.00	**16.9**	

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-006
Client Sample ID: MW-31_09172013
Collection Date: 9/17/2013 1320h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Selenium	mg/L	9/20/2013 1120h	9/24/2013 0327h	E200.8	0.00500	**0.0726**	^

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-006
Client Sample ID: MW-31_09172013
Collection Date: 9/17/2013 1320h
Received Date: 9/20/2013 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/24/2013 2234h	E300.0	100	**193**	
Nitrate/Nitrite (as N)	mg/L		10/2/2013 1522h	E353.2	2.00	**21.2**	
Sulfate	mg/L		9/24/2013 2234h	E300.0	100	**666**	
Total Dissolved Solids	mg/L		9/23/2013 1135h	SM2540C	20.0	**1,500**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-007
Client Sample ID: MW-35_09172013
Collection Date: 9/17/2013 1225h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Manganese	mg/L	9/20/2013 1120h	9/24/2013 0333h	E200.8	0.0100	**0.257**	^
Molybdenum	mg/L	9/20/2013 1120h	9/25/2013 1332h	E200.8	0.0100	< 0.0100	
Selenium	mg/L	9/20/2013 1120h	9/24/2013 0333h	E200.8	0.00500	< 0.00500	^
Thallium	mg/L	9/20/2013 1120h	9/30/2013 2017h	E200.8	0.000500	< 0.000500	
Uranium	mg/L	9/20/2013 1120h	9/24/2013 0415h	E200.8	0.000300	**0.0202**	^

^ - Reissue of a previously generated report. Information has been added, updated, or revised. Information herein supersedes that of the previously issued reports.

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GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: October 17, 2013

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_09172013	Project:	DNMI00100
Sample ID:	333788001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	17-SEP-13 12:25		
Receive Date:	20-SEP-13		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting												
GFPC, Total Alpha Radium, Liquid "As Received"												
Gross Radium Alpha		5.10	+/-0.476	0.976	1.00	pCi/L		KDF1	10/16/13	1224	1338760	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 900.1 Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			104	(25%-125%)

Notes:

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

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-008
Client Sample ID: MW-65_09172013
Collection Date: 9/17/2013 1100h
Received Date: 9/20/2013 1025h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/20/2013 1120h	9/24/2013 0338h	E200.8	0.000500	**0.00135**	
Uranium	mg/L	9/20/2013 1120h	9/24/2013 0421h	E200.8	0.000300	**0.00607**	^

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Jose Rocha
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INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-008
Client Sample ID: MW-65_09172013
Collection Date: 9/17/2013 1100h
Received Date: 9/20/2013 1025h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chloride	mg/L		9/24/2013 2343h	E300.0	5.00	**29.9**	

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ORGANIC ANALYTICAL REPORT

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Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Sample ID: 1309395-009A
Client Sample ID: Trip Blank
Collection Date: 9/18/2013
Received Date: 9/20/2013 1025h **Test Code:** 8260-W

Analytical Results VOAs by GC/MS Method 8260C/5030C

Analyzed: 9/20/2013 1257h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chloroform	67-66-3	1.00	< 1.00	
Methylene chloride	75-09-2	1.00	< 1.00	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.2	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.0	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.3	77-129	

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

RE: September Monthly GW 2013

Dear Garrin Palmer: Lab Set ID: 1309395

American West Analytical Laboratories received 9 sample(s) on 9/20/2013 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.

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.

This is a revision to a report originally issued 10/4/2013. Pages 1 and 5-12 have been revised.

Thank You,

Approved by: Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.10.28 09:58:43 -06'00'

Laboratory Director or designee

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SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Garrin Palmer
Project: September Monthly GW 2013
Lab Set ID: 1309395
Date Received: 9/20/2013 1025h

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
1309395-001A	MW-11_09182013	9/18/2013	1135h	Aqueous	ICPMS Metals, Dissolved
1309395-002A	MW-14_09192013	9/19/2013	0900h	Aqueous	ICPMS Metals, Dissolved
1309395-003A	MW-25_09172013	9/17/2013	1100h	Aqueous	ICPMS Metals, Dissolved
1309395-003B	MW-25_09172013	9/17/2013	1100h	Aqueous	Anions, E300.0
1309395-004A	MW-26_09182013	9/18/2013	0920h	Aqueous	ICPMS Metals, Dissolved
1309395-004B	MW-26_09182013	9/18/2013	0920h	Aqueous	Anions, E300.0
1309395-004C	MW-26_09182013	9/18/2013	0920h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309395-004D	MW-26_09182013	9/18/2013	0920h	Aqueous	VOA by GC/MS Method 8260C/5030C
1309395-005A	MW-30_09182013	9/18/2013	1520h	Aqueous	ICPMS Metals, Dissolved
1309395-005B	MW-30_09182013	9/18/2013	1520h	Aqueous	Anions, E300.0
1309395-005C	MW-30_09182013	9/18/2013	1520h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309395-006A	MW-31_09172013	9/17/2013	1320h	Aqueous	ICPMS Metals, Dissolved
1309395-006B	MW-31_09172013	9/17/2013	1320h	Aqueous	Anions, E300.0
1309395-006C	MW-31_09172013	9/17/2013	1320h	Aqueous	Nitrite/Nitrate (as N), E353.2
1309395-006D	MW-31_09172013	9/17/2013	1320h	Aqueous	Total Dissolved Solids, A2540C
1309395-007A	MW-35_09172013	9/17/2013	1225h	Aqueous	ICPMS Metals, Dissolved
1309395-008A	MW-65_09172013	9/17/2013	1100h	Aqueous	ICPMS Metals, Dissolved
1309395-008B	MW-65_09172013	9/17/2013	1100h	Aqueous	Anions, E300.0
1309395-009A	Trip Blank	9/18/2013		Aqueous	VOA by GC/MS Method 8260C/5030C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Garrin Palmer
Project: September Monthly GW 2013
Lab Set ID: 1309395

Sample Receipt Information:

Date of Receipt: 9/20/2013
Date(s) of Collection: 9/17, 9/18 & 9/19/2013
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, 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
1309395-004C	Nitrate-Nitrite	MSD	Sample matrix interference
1310048-001C	Nitrate-Nitrite	MS/MSD	Sample matrix interference

Duplicates (DUP): The parameters that require a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

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Volatile Case Narrative

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Jose Rocha
QA Officer

Client:	Energy Fuels Resources, Inc.
Contact:	Garrin Palmer
Project:	September Monthly GW 2013
Lab Set ID:	1309395

Sample Receipt Information:

Date of Receipt:	9/20/2013
Date(s) of Collection:	9/17, 9/18 & 9/19/2013
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: 1309395
Project: September Monthly GW 2013

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-27847**	Date Analyzed:	09/24/2013 0146h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Cadmium		0.191	mg/L	E200.8	0.0000726	0.000500	0.2000	0	95.4	85 - 115				
Manganese		0.197	mg/L	E200.8	0.00166	0.00200	0.2000	0	98.3	85 - 115				
Selenium		0.186	mg/L	E200.8	0.000686	0.00200	0.2000	0	93.1	85 - 115				
Uranium		0.197	mg/L	E200.8	0.0000598	0.00200	0.2000	0	98.3	85 - 115				
Lab Sample ID:	**LCS-27847**	Date Analyzed:	09/25/2013 1255h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Molybdenum		0.202	mg/L	E200.8	0.000496	0.00200	0.2000	0	101	85 - 115				
Lab Sample ID:	**LCS-27847**	Date Analyzed:	09/30/2013 0113h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Thallium		0.178	mg/L	E200.8	0.000222	0.00200	0.2000	0	88.9	85 - 115				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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-27847**	Date Analyzed:	09/24/2013 0141h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Cadmium		< 0.000500	mg/L	E200.8	0.0000726	0.000500								
Manganese		< 0.00200	mg/L	E200.8	0.00166	0.00200								
Selenium		< 0.00200	mg/L	E200.8	0.000686	0.00200								
Lab Sample ID:	**MB-27847**	Date Analyzed:	09/24/2013 0359h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Uranium		< 0.000200	mg/L	E200.8	0.00000598	0.000200								
Lab Sample ID:	**MB-27847**	Date Analyzed:	09/25/2013 1250h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Molybdenum		< 0.00200	mg/L	E200.8	0.000496	0.00200								
Lab Sample ID:	**MB-27847**	Date Analyzed:	09/30/2013 2008h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Thallium		< 0.000500	mg/L	E200.8	0.0000555	0.000500								

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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:	**1309395-001AMS**	Date Analyzed:	09/24/2013 0301h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Cadmium		0.192	mg/L	E200.8	0.0000726	0.000500	0.2000	0	95.8	75 - 125				
Manganese		0.337	mg/L	E200.8	0.00166	0.00200	0.2000	0.134	102	75 - 125				
Selenium		0.196	mg/L	E200.8	0.000686	0.00200	0.2000	0	98.0	75 - 125				
Uranium		0.196	mg/L	E200.8	0.0000598	0.00200	0.2000	0.0006	97.7	75 - 125				
Lab Sample ID:	**1309395-001AMS**	Date Analyzed:	09/25/2013 1321h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Molybdenum		0.209	mg/L	E200.8	0.000496	0.00200	0.2000	0.00228	103	75 - 125				
Lab Sample ID:	**1309395-001AMS**	Date Analyzed:	09/30/2013 0159h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Thallium		0.188	mg/L	E200.8	0.000222	0.00200	0.2000	0.000775	93.8	75 - 125				

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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:	**1309395-001AMSD**	Date Analyzed:	09/24/2013 0306h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Cadmium		0.190	mg/L	E200.8	0.0000726	0.000500	0.2000	0	94.8	75 - 125	0.192	1.01	20	
Manganese		0.333	mg/L	E200.8	0.00166	0.00200	0.2000	0.134	99.8	75 - 125	0.337	1.09	20	
Selenium		0.191	mg/L	E200.8	0.000686	0.00200	0.2000	0	95.4	75 - 125	0.196	2.66	20	
Uranium		0.192	mg/L	E200.8	0.0000598	0.00200	0.2000	0.0006	95.8	75 - 125	0.196	2.00	20	
Lab Sample ID:	**1309395-001AMSD**	Date Analyzed:	09/25/2013 1327h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Molybdenum		0.214	mg/L	E200.8	0.000496	0.00200	0.2000	0.00228	106	75 - 125	0.209	2.52	20	
Lab Sample ID:	**1309395-001AMSD**	Date Analyzed:	09/30/2013 0208h											
Test Code:	200.8-DIS	Date Prepared:	09/20/2013 1120h											
Thallium		0.195	mg/L	E200.8	0.000222	0.00200	0.2000	0.000775	97.3	75 - 125	0.188	3.58	20	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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: 1309395-006CDUP Date Analyzed: 10/02/2013 1524h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	19.3	mg/L	E353.2	0.0504	0.200					21.2	9.31	20	
Lab Sample ID: 1309395-006DDUP Date Analyzed: 09/23/2013 1135h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	1,530	mg/L	SM2540C	8.00	20.0					1500	2.11	5	

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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-R59488 Date Analyzed: 09/24/2013 1728h													
Test Code: 300.0-W													
Chloride	4.55	mg/L	E300.0	0.0114	0.100	5.000	0	91.0	90 - 110				
Sulfate	4.81	mg/L	E300.0	0.177	0.750	5.000	0	96.1	90 - 110				
Lab Sample ID: LCS-R59458 Date Analyzed: 09/24/2013 2043h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.08	mg/L	E353.2	0.00252	0.100	1.000	0	108	90 - 110				
Lab Sample ID: LCS-R59732 Date Analyzed: 10/02/2013 1517h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.898	mg/L	E353.2	0.00252	0.0100	1.000	0	89.8	90 - 110				§
Lab Sample ID: LCS-R59420 Date Analyzed: 09/23/2013 1135h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	204	mg/L	SM2540C	4.00	10.0	205.0	0	99.5	80 - 120				

§ - QC limits are set with an accuracy of two significant figures, therefore the recovery rounds to an acceptable value within the control limits.

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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-R59488 Date Analyzed: 09/24/2013 1704h													
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0114	0.100								
Sulfate	< 0.750	mg/L	E300.0	0.177	0.750								
Lab Sample ID: MB-R59458 Date Analyzed: 09/24/2013 2041h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.100	mg/L	E353.2	0.00252	0.100								
Lab Sample ID: MB-R59732 Date Analyzed: 10/02/2013 1515h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00252	0.0100								
Lab Sample ID: MB-R59420 Date Analyzed: 09/23/2013 1135h													
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	4.00	10.0								

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Jose Rocha
QA Officer

American West
ANALYTICAL LABORATORIES

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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: 1309395-006BMS Date Analyzed: 09/24/2013 2257h													
Test Code: 300.0-W													
Chloride	4,980	mg/L	E300.0	11.4	100	5,000	193	95.7	90 - 110				
Sulfate	5,680	mg/L	E300.0	177	750	5,000	666	100	90 - 110				
Lab Sample ID: 1309395-004CMS Date Analyzed: 09/24/2013 2103h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	8.82	mg/L	E353.2	0.0126	0.500	5.000	3.6	104	90 - 110				
Lab Sample ID: 1310048-001CMS Date Analyzed: 10/02/2013 1526h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.975	mg/L	E353.2	0.00252	0.0100	1.000	0.16	81.5	90 - 110				1

[1] - 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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: 1309395-006BMSD Date Analyzed: 09/24/2013 2320h													
Test Code: 300.0-W													
Chloride	5,050	mg/L	E300.0	11.4	100	5,000	193	97.1	90 - 110	4980	1.36	20	
Sulfate	5,820	mg/L	E300.0	177	750	5,000	666	103	90 - 110	5680	2.30	20	
Lab Sample ID: 1309395-004CMSD Date Analyzed: 09/24/2013 2104h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	9.22	mg/L	E353.2	0.0126	0.500	5.000	3.6	112	90 - 110	8.82	4.46	10	[1]
Lab Sample ID: 1310048-001CMSD Date Analyzed: 10/02/2013 1528h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	0.920	mg/L	E353.2	0.00252	0.0100	1.000	0.16	76.0	90 - 110	0.975	5.83	10	[1]

[1] - 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

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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 VOA 092013A Date Analyzed: 09/20/2013 0708h													
Test Code: 8260-W													
Chloroform	22.1	µg/L	SW8260C	0.277	2.00	20.00	0	110	67 - 132				
Methylene chloride	20.1	µg/L	SW8260C	0.155	2.00	20.00	0	101	32 - 185				
Surr: 1,2-Dichloroethane-d4	54.2	µg/L	SW8260C			50.00		108	76 - 138				
Surr: 4-Bromofluorobenzene	48.0	µg/L	SW8260C			50.00		96.0	77 - 121				
Surr: Dibromofluoromethane	51.9	µg/L	SW8260C			50.00		104	67 - 128				
Surr: Toluene-d8	49.0	µg/L	SW8260C			50.00		97.9	81 - 135				
Lab Sample ID: LCS VOC 092313A Date Analyzed: 09/23/2013 0702h													
Test Code: 8260-W													
Chloroform	20.9	µg/L	SW8260C	0.277	2.00	20.00	0	105	67 - 132				
Surr: 1,2-Dichloroethane-d4	50.3	µg/L	SW8260C			50.00		101	76 - 138				
Surr: 4-Bromofluorobenzene	49.8	µg/L	SW8260C			50.00		99.6	77 - 121				
Surr: Dibromofluoromethane	50.8	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	49.8	µg/L	SW8260C			50.00		99.6	81 - 135				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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 092013A Date Analyzed: 09/20/2013 0745h													
Test Code: 8260-W													
Chloroform	< 1.00	µg/L	SW8260C	0.277	1.00								
Methylene chloride	< 1.00	µg/L	SW8260C	0.155	1.00								
Surr: 1,2-Dichloroethane-d4	54.3	µg/L	SW8260C			50.00		109	76 - 138				
Surr: 4-Bromofluorobenzene	50.8	µg/L	SW8260C			50.00		102	77 - 121				
Surr: Dibromofluoromethane	51.0	µg/L	SW8260C			50.00		102	67 - 128				
Surr: Toluene-d8	49.7	µg/L	SW8260C			50.00		99.4	81 - 135				
Lab Sample ID: MB VOC 092313A Date Analyzed: 09/23/2013 0739h													
Test Code: 8260-W													
Chloroform	< 2.00	µg/L	SW8260C	0.277	2.00								
Surr: 1,2-Dichloroethane-d4	51.9	µg/L	SW8260C			50.00		104	76 - 138				
Surr: 4-Bromofluorobenzene	52.6	µg/L	SW8260C			50.00		105	77 - 121				
Surr: Dibromofluoromethane	50.5	µg/L	SW8260C			50.00		101	67 - 128				
Surr: Toluene-d8	50.0	µg/L	SW8260C			50.00		99.9	81 - 135				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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: 1309395-004DMS Date Analyzed: 09/23/2013 0816h													
Test Code: 8260-W													
Chloroform	6,800	µg/L	SW8260C	27.7	200	2,000	4170	131	50 - 146				
Surr: 1,2-Dichloroethane-d4	5,270	µg/L	SW8260C			5,000		105	72 - 151				
Surr: 4-Bromofluorobenzene	4,880	µg/L	SW8260C			5,000		97.7	80 - 128				
Surr: Dibromofluoromethane	5,280	µg/L	SW8260C			5,000		106	80 - 124				
Surr: Toluene-d8	4,860	µg/L	SW8260C			5,000		97.2	77 - 129				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 1309395
Project: September Monthly GW 2013

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: 1309395-004DMSD Date Analyzed: 09/23/2013 0834h													
Test Code: 8260-W													
Chloroform	6,470	µg/L	SW8260C	27.7	200	2,000	4170	115	50 - 146	6800	4.90	25	
Surr: 1,2-Dichloroethane-d4	5,430	µg/L	SW8260C			5,000		109	72 - 151				
Surr: 4-Bromofluorobenzene	4,940	µg/L	SW8260C			5,000		98.8	80 - 128				
Surr: Dibromofluoromethane	5,240	µg/L	SW8260C			5,000		105	80 - 124				
Surr: Toluene-d8	4,940	µg/L	SW8260C			5,000		98.8	77 - 129				

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REVISED: 10/23/2013
Uranium added to MW-30 -RW

UL
Denison

WORK ORDER Summary

Work Order: **1309395**

Client: Energy Fuels Resources, Inc.
Due Date: 10/29/2013
Client ID: DEN100
Contact: Garrin Palmer
Project: **September Monthly GW 2013**
QC Level: III
WO Type: Project
Comments: PA Rush. QC 3 (Summary/No chromatograms). Project specific DL's: see COC. Run 200.8 on the Agilent. Uranium added to sample #5 10/23/2013, per Kathy. EDD-Denison and EIM-Locus. Email Group.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309395-001A	**MW-11_09182013**	9/18/2013 1135h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df dismet	
1309395-002A	**MW-14_09192013**	9/19/2013 0900h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				1 SEL Analytes: MN				
				200.8-DIS-PR		☐	df dismet	
1309395-003A	**MW-25_09172013**	9/17/2013 1100h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				2 SEL Analytes: CD U				
				200.8-DIS-PR		☐	df dismet	
1309395-003B				**300.0-W**		☑	df - cl	
				1 SEL Analytes: CL				
1309395-004A	**MW-26_09182013**	9/18/2013 0920h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				1 SEL Analytes: U				
				200.8-DIS-PR		☐	df dismet	
1309395-004B				**300.0-W**		☑	df - cl	
				1 SEL Analytes: CL				
1309395-004C				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1309395-004D				**8260-W**		☑	vOC	3
				Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4				
1309395-005A	**MW-30_09182013**	9/18/2013 1520h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				2 SEL Analytes: SE U				
				200.8-DIS-PR		☐	df dismet	
1309395-005B				**300.0-W**		☑	df - cl	
				1 SEL Analytes: CL				
1309395-005C				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1309395-006A	**MW-31_09172013**	9/17/2013 1320h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				1 SEL Analytes: SE				
				200.8-DIS-PR		☐	df dismet	

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WORK ORDER Summary

Work Order: **1309395**

Client: Energy Fuels Resources, Inc.

Due Date: 10/29/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1309395-006B	**MW-31_09172013**	9/17/2013 1320h	9/20/2013 1025h	**300.0-W**	Aqueous	☑	df - cl	1
				2 SEL Analytes: CL SO4				
1309395-006C				**NO2/NO3-W-353.2**		☑	df - no2/no3	
				1 SEL Analytes: NO3NO2N				
1309395-006D				**TDS-W-2540C**		☑	ww-tds	
				1 SEL Analytes: TDS				
1309395-007A	**MW-35_09172013**	9/17/2013 1225h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				5 SEL Analytes: MN MO SE TL U				
				200.8-DIS-PR		☐	df dismet	
1309395-008A	**MW-65_09172013**	9/17/2013 1100h	9/20/2013 1025h	**200.8-DIS**	Aqueous	☑	df dismet	1
				2 SEL Analytes: CD U				
				200.8-DIS-PR		☐	df dismet	
1309395-008B				**300.0-W**		☑	df - cl	
				1 SEL Analytes: CL				
1309395-009A	**Trip Blank**	9/18/2013	9/20/2013 1025h	**8260-W**	Aqueous	☑	vOC	3
				Test Group: 8260-W-Custom; # of Analytes: 2 / # of Surr: 4				

Printed: 10/23/2013 FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK____ HOK_____ HOK_____ COC Emailed_____

Client: Energy Fuels
Address: 6425 S. Hwy 191
Blanding UT 84511
City State Zip
Phone: 435 678 2221 Fax:
Contact: Garrin Palmer
E-mail: gpalmer@energyfuels.com
Project Name: September Monthly GW 2013
Project Number/P.O.#:
Sampler Name: Garrin Palmer

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115

CHAIN OF CUSTODY

(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

Lab Sample Set # 1309395
Page 1 of 1

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

	Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	Manganese	Uranium	Radium	Chloride	Nitrate + Nitrite	Chloroform Dichloromethane	Selenium	TDS	Sulfate	Molybdenum	Thallium	COMMENTS
1	MW-11_09182013	9/18/13 1135	W	1	X											
2	MW-14_09192013	9/19/13 0900	W	1	X											
3	MW-25_09172013	9/17/13 1100	W	2		X	X	X								
4	MW-26_09182013	9/18/13 0920	W	6		X		X	X	X						Uranium added to MW-30 per Kathy Weinel 10/23/13 for results no later than Tuesday 10/29 -RW
5	MW-30_09182013	9/18/13 1520	W	3		X		X	X		X					
6	MW-31_09172013	9/17/13 1320	W	4				X	X		X	X	X			
7	MW-35_09172013	9/17/13 1225	W	1	X	X					X			X	X	
8	MW-65_09172013	9/17/13 1100	W	2		X	X	X								*Bottle reads MW-70
9	Trip Blank	9/18/13	W	3						X						
—	Temp Blank		W	1												

QC LEVEL
1 2 2+
(3) 3+ 4

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped on hand delivered (Y) Notes: Fed-X
2 Ambient or Chilled (Chilled) Notes:
3 Temperature 0.9
4 Received Broken/Leaking (Improperly Sealed) Y (N) Notes:
5 Properly Preserved (Y) N Checked at Bench Y N Notes:
6 Received Within Holding Times (Y) N Notes:

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) Notes:

Relinquished By: Signature	Date	Received By: Signature	Date
Garrin Palmer	9/19/13		
PRINT NAME: Garrin Palmer	Time: 1200	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature: Elma Hayward	Date: 9/20/13
PRINT NAME	Time	PRINT NAME: Elma Hayward	Time: 1025
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:
All metals have been field filtered per Kathy Weinel

Lab Set ID: 309395

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5	6	7	8										
Ammonia	pH <2 H_2SO_4																		
COD	pH <2 H_2SO_4																		
Cyanide	pH >12 NaOH																		
Metals	pH <2 HNO_3	yes	yes	yes	yes	yes	yes	yes	yes										
NO_2 & NO_3	pH <2 H_2SO_4				yes	yes	yes												
O & G	pH <2 HCL																		
Phenols	pH <2 H_2SO_4																		
Sulfide	pH > 9NaOH, Zn Acetate																		
TKN	pH <2 H_2SO_4																		
T PO_4	pH <2 H_2SO_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

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171 F 843.766.1178

www.gel.com

October 17, 2013

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 333788

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 20, 2013. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4505.

Sincerely,

Heather Shaffer

Heather Shaffer
Project Manager

Purchase Order: DW16138
Enclosures

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 333788

October 17, 2013

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 September 20, 2013 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:

Laboratory ID	Client ID
333788001	MW-35_09172013

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.

Heather Shaffer

Heather Shaffer
Project Manager

Page: 1 of 1
Project #:
GEL Quote #:
COC Number (1):
PO Number:

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 333788

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Energy Fuels Phone #: 435 678 2221

Project/Site Name: September Monthly GW Fax #:

Address: 6425 S. Hwy 191

Collected by: Garrin Palmer Send Results To: Kathy Weinel / Garrin

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Gross Alpha	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MW-35_09172013	09/17/13	1225		X	W			1	X		Sample was Field Filtered.

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge) Fax Results: Yes / No Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: Eastern Pacific Central Other _____ Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Garrin Palmer	9/19/13	1200	1 [illegible]	9-20-13	0845
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? *YES* *NO*
Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMI	**SDG/AR/COC/Work Order:** 333788
Received By: JP	**Date Received:** 9-20-13

Suspected Hazard Information	**Yes**	**No**	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
COC/Samples marked as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0cpm
Classified Radioactive II or III by RSO?		✓	If yes, Were swipes taken of sample contatiners < action levels?
COC/Samples marked containing PCBs?		✓	
Package, COC, and/or Samples marked as beryllium or asbestos containing?		✓	If yes, samples are to be segregeated as Safety Controlled Samples, and opened by the GEL Safety Group.
Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#:
Samples identified as Foreign Soil?		✓	

	Sample Receipt Criteria	**Yes**	**NA**	**No**	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		✓		Preservation Method: Ice bags Blue ice Dry ice None Other (describe) *all temperatures are recorded in Celsius 22
2a	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: 41502209 Secondary Temperature Device Serial # (If Applicable):
3	Chain of custody documents included with shipment?	✓			
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		✓		Sample ID's and containers affected:
7	Are Encore containers present?			✓	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Sample ID's affected:
11	Number of containers received match number indicated on COC?	✓			Sample ID's affected:
12	Are sample containers identifiable as GEL provided?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			
14	Carrier and tracking number.				Circle Applicable: FedEx Air FedEx Ground UPS Field Services Courier Other 8032 7122 0419

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JP Date 9-23-13 Page 1 of 1

GEL Laboratories LLC - Login Review Report

GEL Work Order/SDG: 333788
Client SDG: 333788
Project Manager: Heather Shaffer
Project Name: DNMI00100 White Mesa Mill GW
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 18-OCT-13
Package Due Date: 15-OCT-13
EDD Due Date: 18-OCT-13
Due Date: 18-OCT-13
HXS1

Collector: C
Prelogin #: 20130908262
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
333788001	MW-35_09172013		17-SEP-13 12:25	20-SEP-13 08:45	-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_09172013	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha			Cooler Seal Undisturbed	y	FF
							Temperature (C)	22	

Product: GFCTORAL **Workdef ID:** 1297250 **In Product Group?** No **Group Name:** **Group Reference:**

Method: EPA 900.1 Modified
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001
Parmname Check: All parmnames scheduled properly

Path: Standard
Product Reference: Gross Alpha
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	Yes

Contingent Tests

Action	Product Name	Description	Samples

Login Requirements:

Requirement	Include?	Comments

GEL Laboratories LLC − Login Review Report

Peer Review by:_____ Work Order (SDG#), PO# Checked?_____ C of C signed in receiver location? _____

Radiochemistry Case Narrative
Energy Fuels Resources (DNMI)
SDG 333788

Method/Analysis Information

Product:	**GFPC, Total Alpha Radium, Liquid**
Analytical Method:	EPA 900.1 Modified
Analytical Batch Number:	1338760

Sample ID	Client ID
333788001	MW-35_09172013
1202966793	Method Blank (MB)
1202966794	334116003(SMW11) Sample Duplicate (DUP)
1202966795	334116003(SMW11) Matrix Spike (MS)
1202966796	334116003(SMW11) Matrix Spike Duplicate (MSD)
1202966797	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-RAD-A-010 REV# 15.

Calibration Information:

Calibration Information
All initial and continuing calibration requirements have been met.

Standards Information
Standard solutions for these analysis are NIST traceable or verified with a NIST traceable standard and used before the expiration dates.

Sample Geometry
All counting sources were prepared in the same geometry as the calibration standards.

Quality Control (QC) Information:

Blank Information
The blank volume is representative of the sample volume in this batch.

Designated QC
The following sample was used for QC: 334116003 (SMW11).

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 reprepped due to low recovery. The re-analysis is being reported.

Chemical Recoveries
All chemical recoveries meet the required acceptance limits for this sample set.

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.

Additional Comments
The matrix spike and matrix spike duplicate, 1202966795 (SMW11) and 1202966796 (SMW11), 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: 333788 GEL Work Order: 333788

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: 17 OCT 2013 **Title: Analyst I**

GEL LABORATORIES LLC

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

QC Summary

Report Date: October 17, 2013

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

Contact: **Ms. Kathy Weinel**

Workorder: **333788**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 1338760										
QC1202966794 334116003 DUP										
Gross Radium Alpha	U	0.644	U	0.684	pCi/L	N/A		N/A	KDF1	10/16/13 12:2
	Uncertainty	+/-0.311		+/-0.259						
QC1202966797 LCS										
Gross Radium Alpha	555			417	pCi/L		75.1	(75%-125%)		10/16/13 12:2
	Uncertainty			+/-7.87						
QC1202966793 MB										
Gross Radium Alpha			U	-0.20	pCi/L					10/16/13 12:2
	Uncertainty			+/-0.217						
QC1202966795 334116003 MS										
Gross Radium Alpha	1120 U	0.644		943	pCi/L		84	(75%-125%)		10/16/13 12:2
	Uncertainty	+/-0.311		+/-15.8						
QC1202966796 334116003 MSD										
Gross Radium Alpha	1120 U	0.644		946	pCi/L	0.251	84.2	(0%-20%)		10/16/13 12:2
	Uncertainty	+/-0.311		+/-15.6						

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: 333788

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.
^ 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	7/23/2013	182.82	185	Y	1840	1849	0.49	7.04	7.04	0.00	15.20	15.15	0.33	241	241	0.00	5	5	Y	0.00
MW-03	7/18/2013	49.12	60	Y	5799	5801	0.03	6.47	6.46	0.15	15.62	15.60	0.13	364	364	0.00	0	0	N	0.00
MW-03A	7/19/2013	62.16	65	Pumped dry	5951	5929	0.37	6.50	6.50	0.00	17.75	18.03	1.57	NM		NC	NM		N	NC
MW-05	7/18/2013	192.89	200	Y	2977	2975	0.07	7.39	7.39	0.00	14.88	14.87	0.07	259	255	1.56	0	0	N	0.00
MW-11	7/10/2013	256.98	260	Y	2851	2851	0.00	7.40	7.40	0.00	15.78	15.75	0.19	199	199	0.00	0	0	N	0.00
MW-12	7/17/2013	131.38	135	Y	4188	4210	0.52	6.62	6.60	0.30	17.51	17.55	0.23	320	319	0.31	2.0	1.9	Y	5.13
MW-14	7/11/2013	151.06	155	Y	3897	3894	0.08	6.45	6.47	0.31	15.16	15.14	0.13	368	369	0.27	0	0	N	0.00
MW-15	7/18/2013	183.56	185	Y	4311	4314	0.07	6.68	6.68	0.00	15.43	15.35	0.52	352	351	0.28	0	0	N	0.00
MW-18	7/15/2013	382.11	390	Y	507	539	6.12	6.47	6.45	0.31	15.31	15.28	0.20	350	349	0.29	0	0	N	0.00
MW-19	7/15/2013	553.99	570	Y	1670	1667	0.18	6.95	6.91	0.58	16.97	16.98	0.06	338	338	0.00	415	426	Y	2.62
MW-23	7/18/2013	121.00	125	Y	3923	3926	0.08	6.62	6.61	0.15	16.56	16.57	0.06	376	376	0.00	5.9	6.10	N	3.33
MW-24	7/19/2013	40.06	60	Y	4502	4494	0.18	5.85	5.80	0.86	17.28	17.61	1.89	NM		NC	NM		N	NC
MW-25	7/10/2013	251.63	270	Y	3201	3197	0.13	6.40	6.32	1.26	15.36	15.3	0.39	458	457	0.22	0	0	N	0.00
MW-26	7/11/2013	NA			3390		NC	6.43		NC	15.37		NC	251		NC	0		N	NC
MW-27	7/17/2013	255.66	265	Y	1579	1577	0.13	7.00	7.00	0.00	15.35	15.41	0.39	342	343	0.29	0	0	N	0.00
MW-28	7/17/2013	203.36	210	Y	3986	3995	0.23	5.97	5.97	0.00	15.11	15.10	0.07	356	356	0.00	1.7	1.7	N	0.00
MW-29	7/17/2013	153.77	165	Y	4706	4703	0.06	6.40	6.37	0.47	15.41	15.40	0.06	232	233	0.43	20	20	Y	0.00
MW-30	7/10/2013	208.53	210	Y	1754	1766	0.68	6.91	6.87	0.58	15.78	15.80	0.13	288	288	0.00	0	0	N	0.00
MW-31	7/9/2013	376.27	380	Y	2002	2000	0.10	6.97	6.98	0.14	15.70	15.69	0.06	307	308	0.33	0	0	N	0.00
MW-32	7/9/2013	352.37	360	Y	3780	3794	0.37	6.42	6.39	0.47	15.43	15.39	0.26	228	229	0.44	44	43	Y	2.30
MW-35	7/9/2013	72.82	75	Y	4143	4135	0.19	6.53	6.51	0.31	16.05	16.05	0.00	314	313	0.32	0	0	N	0.00
MW-36	7/10/2013	66.80	70	Y	4903	4905	0.04	6.74	6.75	0.15	15.38	15.39	0.06	490	489	0.20	0	0	N	0.00
MW-37	7/23/2013	N/A	N/A	Bailed dry.	4496	4472	0.54	6.92	6.90	0.29	15.91	15.86	0.31	NM		NC	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: Acelerated 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 August Monthly																				
MW-11	8/20/2013	257.82	260	Y	2958	2960	0.07	7.74	7.70	0.52	15.47	15.45	0.13	183	178	2.77	0	0	Y	0.00
MW-14	8/20/2013	151.36	155	Y	3987	3997	0.25	6.86	6.86	0.00	15.80	15.76	0.25	335	335	0.00	0	0	Y	0.00
MW-25	8/19/2013	251.51	255	Y	3272	3273	0.03	6.74	6.74	0.00	15.30	15.35	0.33	377	377	0.00	44	45	N	2.25
MW-26	8/20/2013	NA			1496		NC	7.41		NC	16.65		NC	189		NC	1.0		Y	NC
MW-30	8/20/2013	209.14	210	Y	2077	2076	0.05	7.06	7.06	0.00	15.09	15.2	0.73	275	274	0.36	0	0	Y	0.00
MW-31	8/19/2013	376.45	390	Y	901	900	0.11	7.41	7.36	0.68	15.04	15.04	0.00	347	346	0.29	0	0	Y	0.00
MW-35	8/19/2013	73.54	75	Y	4274	4239	0.82	7.04	7.02	0.28	15.87	15.90	0.19	268	267	0.37	0	0	Y	0.00
Accelerated September Monthly																				
MW-11	9/18/2013	259.15	265	Y	2892	2895	0.10	7.40	7.39	0.14	15.18	15.14	0.26	106	104	1.90	12.2	12.6	N	3.23
MW-14	9/19/2013	152.26	160	Y	3894	3890	0.10	6.47	6.48	0.15	15.29	15.30	0.07	362	363	0.28	0	0	Y	0.00
MW-25	9/17/2013	251.26	255	Y	3241	3240	0.03	6.54	6.54	0.00	14.82	14.79	0.20	274	274	0.00	19.1	19.3	N	1.04
MW-26	9/18/2013	NA			3414		NC	6.71		NC	15.23		NC	237		NC	0.5		Y	NC
MW-30	9/18/2013	210.04	215	Y	2060	2058	0.10	6.78	6.78	0.00	14.80	14.88	0.54	230	229	0.44	0	0	Y	0.00
MW-31	9/17/2013	376.57	380	Y	2062	2059	0.15	7.08	7.06	0.28	15.00	14.95	0.33	297	297	0.00	0	0	Y	0.00
MW-35	9/17/2013	73.36	75	Y	4206	4216	0.24	6.51	6.50	0.15	15.34	15.24	0.65	218	217	0.46	0	0	Y	0.00

The QAP states that turbidity should be less than 5 Nephelometric Turbidity Units ("NTU") prior to sampling unless the well is characterized by water that has a higher turbidity. The QAP does not require that turbidity measurements be less than 5 NTU prior to sampling. As such, the noted observations regarding turbidity measurements less than 5 NTU are included for information purposes only.

MW-26 is a continuously pumped well.

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-01	Tetrahydrofuran	7/23/2013	7/26/2013	3	14	OK
MW-01	Sulfate	7/23/2013	7/30/2013	7	28	OK
MW-01	Manganese	7/23/2013	8/5/2013	13	180	OK
MW-03	Fluoride	7/18/2013	7/27/2013	9	27	OK
MW-03	Selenium	7/18/2013	8/5/2013	18	180	OK
MW-03A	Selenium	7/19/2013	8/5/2013	17	180	OK
MW-03A	Nitrate/Nitrite (as N)	7/19/2013	8/2/2013	14	28	OK
MW-03A	Total Dissolved Solids	7/19/2013	7/25/2013	6	7	OK
MW-03A	Sulfate	7/19/2013	7/26/2013	7	28	OK
MW-05	Uranium	7/18/2013	8/5/2013	18	180	OK
MW-11	Gross Radium Alpha	7/10/2013	7/20/2013	10	180	OK
MW-11	Toluene	7/10/2013	7/12/2013	2	14	OK
MW-11	Tetrahydrofuran	7/10/2013	7/12/2013	2	14	OK
MW-11	Xylenes, Total	7/10/2013	7/12/2013	2	14	OK
MW-11	Sulfate	7/10/2013	7/12/2013	2	28	OK
MW-11	Chloride	7/10/2013	7/12/2013	2	28	OK
MW-11	Fluoride	7/10/2013	7/12/2013	2	27	OK
MW-11	Carbon tetrachloride	7/10/2013	7/12/2013	2	14	OK
MW-11	Acetone	7/10/2013	7/12/2013	2	14	OK
MW-11	Chloroform	7/10/2013	7/12/2013	2	14	OK
MW-11	Benzene	7/10/2013	7/12/2013	2	14	OK
MW-11	Chloromethane	7/10/2013	7/12/2013	2	14	OK
MW-11	Iron	7/10/2013	7/12/2013	2	180	OK
MW-11	Lead	7/10/2013	7/12/2013	2	180	OK
MW-11	Magnesium	7/10/2013	7/17/2013	7	180	OK
MW-11	Manganese	7/10/2013	7/16/2013	6	180	OK
MW-11	Mercury	7/10/2013	7/16/2013	6	180	OK
MW-11	Molybdenum	7/10/2013	7/12/2013	2	180	OK
MW-11	Nickel	7/10/2013	7/16/2013	6	180	OK
MW-11	Potassium	7/10/2013	7/17/2013	7	180	OK
MW-11	Silver	7/10/2013	7/12/2013	2	180	OK
MW-11	Sodium	7/10/2013	7/16/2013	6	180	OK
MW-11	Thallium	7/10/2013	7/13/2013	3	180	OK
MW-11	Tin	7/10/2013	7/16/2013	6	180	OK
MW-11	Arsenic	7/10/2013	7/12/2013	2	180	OK
MW-11	Beryllium	7/10/2013	7/16/2013	6	180	OK
MW-11	Cadmium	7/10/2013	7/12/2013	2	180	OK
MW-11	Chromium	7/10/2013	7/12/2013	2	180	OK
MW-11	Cobalt	7/10/2013	7/12/2013	2	180	OK
MW-11	Copper	7/10/2013	7/12/2013	2	180	OK
MW-11	Uranium	7/10/2013	8/21/2013	42	180	OK
MW-11	Vanadium	7/10/2013	7/17/2013	7	180	OK
MW-11	Zinc	7/10/2013	7/12/2013	2	180	OK
MW-11	Calcium	7/10/2013	7/17/2013	7	180	OK
MW-11	Methylene chloride	7/10/2013	7/12/2013	2	14	OK
MW-11	Ammonia (as N)	7/10/2013	7/18/2013	8	28	OK
MW-11	Selenium	7/10/2013	7/12/2013	2	180	OK
MW-11	Total Dissolved Solids	7/10/2013	7/12/2013	2	7	OK
MW-11	Nitrate/Nitrite (as N)	7/10/2013	7/16/2013	6	28	OK
MW-11	Carbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-11	Bicarbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-11	Naphthalene	7/10/2013	7/12/2013	2	14	OK
MW-11	2-Butanone	7/10/2013	7/12/2013	2	14	OK
MW-12	Selenium	7/17/2013	7/26/2013	9	180	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-14	Gross Radium Alpha	7/11/2013	7/21/2013	10	180	OK
MW-14	Magnesium	7/11/2013	7/16/2013	5	180	OK
MW-14	Lead	7/11/2013	7/12/2013	1	180	OK
MW-14	Iron	7/11/2013	7/12/2013	1	180	OK
MW-14	Chloromethane	7/11/2013	7/12/2013	1	14	OK
MW-14	Benzene	7/11/2013	7/12/2013	1	14	OK
MW-14	Chloroform	7/11/2013	7/12/2013	1	14	OK
MW-14	Acetone	7/11/2013	7/12/2013	1	14	OK
MW-14	Carbon tetrachloride	7/11/2013	7/12/2013	1	14	OK
MW-14	Fluoride	7/11/2013	7/12/2013	1	27	OK
MW-14	Chloride	7/11/2013	7/11/2013	0	28	OK
MW-14	Sulfate	7/11/2013	7/11/2013	0	28	OK
MW-14	Xylenes, Total	7/11/2013	7/12/2013	1	14	OK
MW-14	Tetrahydrofuran	7/11/2013	7/12/2013	1	14	OK
MW-14	Toluene	7/11/2013	7/12/2013	1	14	OK
MW-14	Manganese	7/11/2013	7/16/2013	5	180	OK
MW-14	Mercury	7/11/2013	7/16/2013	5	180	OK
MW-14	Cadmium	7/11/2013	7/12/2013	1	180	OK
MW-14	Chromium	7/11/2013	7/12/2013	1	180	OK
MW-14	Cobalt	7/11/2013	7/12/2013	1	180	OK
MW-14	Copper	7/11/2013	7/12/2013	1	180	OK
MW-14	Uranium	7/11/2013	8/21/2013	41	180	OK
MW-14	Vanadium	7/11/2013	7/17/2013	6	180	OK
MW-14	Zinc	7/11/2013	7/12/2013	1	180	OK
MW-14	Calcium	7/11/2013	7/16/2013	5	180	OK
MW-14	Methylene chloride	7/11/2013	7/12/2013	1	14	OK
MW-14	Ammonia (as N)	7/11/2013	7/18/2013	7	28	OK
MW-14	Molybdenum	7/11/2013	7/12/2013	1	180	OK
MW-14	Nickel	7/11/2013	7/16/2013	5	180	OK
MW-14	Potassium	7/11/2013	7/17/2013	6	180	OK
MW-14	Silver	7/11/2013	7/12/2013	1	180	OK
MW-14	Sodium	7/11/2013	7/16/2013	5	180	OK
MW-14	Thallium	7/11/2013	7/13/2013	2	180	OK
MW-14	Tin	7/11/2013	7/16/2013	5	180	OK
MW-14	Arsenic	7/11/2013	7/12/2013	1	180	OK
MW-14	Beryllium	7/11/2013	7/16/2013	5	180	OK
MW-14	Carbonate (as CaCO3)	7/11/2013	7/12/2013	1	14	OK
MW-14	Nitrate/Nitrite (as N)	7/11/2013	7/16/2013	5	28	OK
MW-14	Total Dissolved Solids	7/11/2013	7/12/2013	1	7	OK
MW-14	Selenium	7/11/2013	7/12/2013	1	180	OK
MW-14	2-Butanone	7/11/2013	7/12/2013	1	14	OK
MW-14	Naphthalene	7/11/2013	7/12/2013	1	14	OK
MW-14	Bicarbonate (as CaCO3)	7/11/2013	7/12/2013	1	14	OK
MW-15	Selenium	7/18/2013	8/5/2013	18	180	OK
MW-15	Iron	7/18/2013	8/12/2013	25	180	OK
MW-18	Sulfate	7/15/2013	7/22/2013	7	28	OK
MW-18	Thallium	7/15/2013	7/29/2013	14	180	OK
MW-18	Total Dissolved Solids	7/15/2013	7/19/2013	4	7	OK
MW-19	Nitrate/Nitrite (as N)	7/15/2013	7/23/2013	8	28	OK
MW-19	Gross Radium Alpha	7/15/2013	8/11/2013	27	180	OK
MW-23	Manganese	7/18/2013	7/26/2013	8	180	OK
MW-24	Fluoride	7/19/2013	7/27/2013	8	27	OK
MW-24	Thallium	7/19/2013	8/7/2013	19	180	OK
MW-24	Cadmium	7/19/2013	8/5/2013	17	180	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-25	Gross Radium Alpha	7/10/2013	7/20/2013	10	180	OK
MW-25	Magnesium	7/10/2013	7/16/2013	6	180	OK
MW-25	Toluene	7/10/2013	7/12/2013	2	14	OK
MW-25	Tetrahydrofuran	7/10/2013	7/12/2013	2	14	OK
MW-25	Xylenes, Total	7/10/2013	7/12/2013	2	14	OK
MW-25	Sulfate	7/10/2013	7/12/2013	2	28	OK
MW-25	Chloride	7/10/2013	7/12/2013	2	28	OK
MW-25	Vanadium	7/10/2013	7/17/2013	7	180	OK
MW-25	Zinc	7/10/2013	7/12/2013	2	180	OK
MW-25	Calcium	7/10/2013	7/16/2013	6	180	OK
MW-25	Fluoride	7/10/2013	7/12/2013	2	27	OK
MW-25	Carbon tetrachloride	7/10/2013	7/12/2013	2	14	OK
MW-25	Acetone	7/10/2013	7/12/2013	2	14	OK
MW-25	Chloroform	7/10/2013	7/12/2013	2	14	OK
MW-25	Benzene	7/10/2013	7/12/2013	2	14	OK
MW-25	Chloromethane	7/10/2013	7/12/2013	2	14	OK
MW-25	Iron	7/10/2013	7/12/2013	2	180	OK
MW-25	Lead	7/10/2013	7/12/2013	2	180	OK
MW-25	Cadmium	7/10/2013	7/12/2013	2	180	OK
MW-25	Manganese	7/10/2013	7/16/2013	6	180	OK
MW-25	Mercury	7/10/2013	7/16/2013	6	180	OK
MW-25	Molybdenum	7/10/2013	7/12/2013	2	180	OK
MW-25	Nickel	7/10/2013	7/16/2013	6	180	OK
MW-25	Potassium	7/10/2013	7/17/2013	7	180	OK
MW-25	Chromium	7/10/2013	7/12/2013	2	180	OK
MW-25	Cobalt	7/10/2013	7/12/2013	2	180	OK
MW-25	Copper	7/10/2013	7/12/2013	2	180	OK
MW-25	Uranium	7/10/2013	8/21/2013	42	180	OK
MW-25	Silver	7/10/2013	7/12/2013	2	180	OK
MW-25	Sodium	7/10/2013	7/16/2013	6	180	OK
MW-25	Thallium	7/10/2013	7/13/2013	3	180	OK
MW-25	Tin	7/10/2013	7/16/2013	6	180	OK
MW-25	Arsenic	7/10/2013	7/12/2013	2	180	OK
MW-25	Beryllium	7/10/2013	7/16/2013	6	180	OK
MW-25	Nitrate/Nitrite (as N)	7/10/2013	7/16/2013	6	28	OK
MW-25	Total Dissolved Solids	7/10/2013	7/12/2013	2	7	OK
MW-25	Methylene chloride	7/10/2013	7/12/2013	2	14	OK
MW-25	Ammonia (as N)	7/10/2013	7/18/2013	8	28	OK
MW-25	Selenium	7/10/2013	7/12/2013	2	180	OK
MW-25	2-Butanone	7/10/2013	7/12/2013	2	14	OK
MW-25	Naphthalene	7/10/2013	7/12/2013	2	14	OK
MW-25	Bicarbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-25	Carbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-26	Iron	7/11/2013	7/12/2013	1	180	OK
MW-26	Lead	7/11/2013	7/12/2013	1	180	OK
MW-26	Toluene	7/11/2013	7/12/2013	1	14	OK
MW-26	Tetrahydrofuran	7/11/2013	7/12/2013	1	14	OK
MW-26	Xylenes, Total	7/11/2013	7/12/2013	1	14	OK
MW-26	Sulfate	7/11/2013	7/11/2013	0	28	OK
MW-26	Chloride	7/11/2013	7/11/2013	0	28	OK
MW-26	Fluoride	7/11/2013	7/12/2013	1	27	OK
MW-26	Carbon tetrachloride	7/11/2013	7/12/2013	1	14	OK
MW-26	Acetone	7/11/2013	7/12/2013	1	14	OK
MW-26	Chloroform	7/11/2013	7/12/2013	1	14	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-26	Benzene	7/11/2013	7/12/2013	1	14	OK
MW-26	Chloromethane	7/11/2013	7/12/2013	1	14	OK
MW-26	Cadmium	7/11/2013	7/12/2013	1	180	OK
MW-26	Bicarbonate (as CaCO3)	7/11/2013	7/12/2013	1	14	OK
MW-26	Carbonate (as CaCO3)	7/11/2013	7/12/2013	1	14	OK
MW-26	Nitrate/Nitrite (as N)	7/11/2013	7/16/2013	5	28	OK
MW-26	Total Dissolved Solids	7/11/2013	7/12/2013	1	7	OK
MW-26	Chromium	7/11/2013	7/12/2013	1	180	OK
MW-26	Magnesium	7/11/2013	7/16/2013	5	180	OK
MW-26	Manganese	7/11/2013	7/16/2013	5	180	OK
MW-26	Mercury	7/11/2013	7/16/2013	5	180	OK
MW-26	Cobalt	7/11/2013	7/12/2013	1	180	OK
MW-26	Copper	7/11/2013	7/12/2013	1	180	OK
MW-26	Uranium	7/11/2013	8/21/2013	41	180	OK
MW-26	Vanadium	7/11/2013	7/17/2013	6	180	OK
MW-26	Zinc	7/11/2013	7/12/2013	1	180	OK
MW-26	Calcium	7/11/2013	7/16/2013	5	180	OK
MW-26	Methylene chloride	7/11/2013	7/12/2013	1	14	OK
MW-26	Ammonia (as N)	7/11/2013	7/18/2013	7	28	OK
MW-26	Selenium	7/11/2013	7/12/2013	1	180	OK
MW-26	2-Butanone	7/11/2013	7/12/2013	1	14	OK
MW-26	Naphthalene	7/11/2013	7/12/2013	1	14	OK
MW-26	Molybdenum	7/11/2013	7/12/2013	1	180	OK
MW-26	Nickel	7/11/2013	7/16/2013	5	180	OK
MW-26	Potassium	7/11/2013	7/17/2013	6	180	OK
MW-26	Silver	7/11/2013	7/12/2013	1	180	OK
MW-26	Sodium	7/11/2013	7/16/2013	5	180	OK
MW-26	Thallium	7/11/2013	7/13/2013	2	180	OK
MW-26	Tin	7/11/2013	7/16/2013	5	180	OK
MW-26	Arsenic	7/11/2013	7/12/2013	1	180	OK
MW-26	Beryllium	7/11/2013	7/16/2013	5	180	OK
MW-26	Gross Radium Alpha	7/11/2013	7/20/2013	9	180	OK
MW-27	Gross Radium Alpha	7/17/2013	8/11/2013	25	180	OK
MW-27	Chloride	7/17/2013	7/22/2013	5	28	OK
MW-27	Nitrate/Nitrite (as N)	7/17/2013	7/23/2013	6	28	OK
MW-27	Total Dissolved Solids	7/17/2013	7/19/2013	2	7	OK
MW-28	Chloride	7/17/2013	7/22/2013	5	28	OK
MW-28	Manganese	7/17/2013	7/26/2013	9	180	OK
MW-29	Iron	7/17/2013	7/26/2013	9	180	OK
MW-29	Manganese	7/17/2013	7/28/2013	11	180	OK
MW-29	Total Dissolved Solids	7/17/2013	7/19/2013	2	7	OK
MW-30	Gross Radium Alpha	7/10/2013	7/20/2013	10	180	OK
MW-30	Toluene	7/10/2013	7/12/2013	2	14	OK
MW-30	Cadmium	7/10/2013	7/12/2013	2	180	OK
MW-30	Chromium	7/10/2013	7/12/2013	2	180	OK
MW-30	Cobalt	7/10/2013	7/12/2013	2	180	OK
MW-30	Copper	7/10/2013	7/12/2013	2	180	OK
MW-30	Uranium	7/10/2013	8/21/2013	42	180	OK
MW-30	Vanadium	7/10/2013	7/17/2013	7	180	OK
MW-30	Zinc	7/10/2013	7/12/2013	2	180	OK
MW-30	Tetrahydrofuran	7/10/2013	7/12/2013	2	14	OK
MW-30	Xylenes, Total	7/10/2013	7/12/2013	2	14	OK
MW-30	Sulfate	7/10/2013	7/12/2013	2	28	OK
MW-30	Chloride	7/10/2013	7/12/2013	2	28	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-30	Fluoride	7/10/2013	7/12/2013	2	27	OK
MW-30	Carbon tetrachloride	7/10/2013	7/12/2013	2	14	OK
MW-30	Acetone	7/10/2013	7/12/2013	2	14	OK
MW-30	Chloroform	7/10/2013	7/12/2013	2	14	OK
MW-30	Benzene	7/10/2013	7/12/2013	2	14	OK
MW-30	Chloromethane	7/10/2013	7/12/2013	2	14	OK
MW-30	Iron	7/10/2013	7/12/2013	2	180	OK
MW-30	Lead	7/10/2013	7/12/2013	2	180	OK
MW-30	Magnesium	7/10/2013	7/17/2013	7	180	OK
MW-30	Manganese	7/10/2013	7/16/2013	6	180	OK
MW-30	Mercury	7/10/2013	7/16/2013	6	180	OK
MW-30	Molybdenum	7/10/2013	7/12/2013	2	180	OK
MW-30	Nickel	7/10/2013	7/16/2013	6	180	OK
MW-30	Potassium	7/10/2013	7/17/2013	7	180	OK
MW-30	Silver	7/10/2013	7/12/2013	2	180	OK
MW-30	Sodium	7/10/2013	7/17/2013	7	180	OK
MW-30	Thallium	7/10/2013	7/13/2013	3	180	OK
MW-30	Tin	7/10/2013	7/16/2013	6	180	OK
MW-30	Arsenic	7/10/2013	7/12/2013	2	180	OK
MW-30	Beryllium	7/10/2013	7/16/2013	6	180	OK
MW-30	Calcium	7/10/2013	7/16/2013	6	180	OK
MW-30	Methylene chloride	7/10/2013	7/12/2013	2	14	OK
MW-30	Ammonia (as N)	7/10/2013	7/18/2013	8	28	OK
MW-30	Selenium	7/10/2013	7/12/2013	2	180	OK
MW-30	2-Butanone	7/10/2013	7/12/2013	2	14	OK
MW-30	Naphthalene	7/10/2013	7/12/2013	2	14	OK
MW-30	Bicarbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-30	Carbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-30	Nitrate/Nitrite (as N)	7/10/2013	7/16/2013	6	28	OK
MW-30	Total Dissolved Solids	7/10/2013	7/12/2013	2	7	OK
MW-31	Chloromethane	7/9/2013	7/12/2013	3	14	OK
MW-31	Iron	7/9/2013	7/12/2013	3	180	OK
MW-31	Lead	7/9/2013	7/12/2013	3	180	OK
MW-31	Magnesium	7/9/2013	7/17/2013	8	180	OK
MW-31	Manganese	7/9/2013	7/16/2013	7	180	OK
MW-31	Mercury	7/9/2013	7/16/2013	7	180	OK
MW-31	Molybdenum	7/9/2013	7/12/2013	3	180	OK
MW-31	Nickel	7/9/2013	7/16/2013	7	180	OK
MW-31	Potassium	7/9/2013	7/17/2013	8	180	OK
MW-31	Silver	7/9/2013	7/12/2013	3	180	OK
MW-31	Sodium	7/9/2013	7/17/2013	8	180	OK
MW-31	Thallium	7/9/2013	7/13/2013	4	180	OK
MW-31	Toluene	7/9/2013	7/12/2013	3	14	OK
MW-31	Tetrahydrofuran	7/9/2013	7/12/2013	3	14	OK
MW-31	Xylenes, Total	7/9/2013	7/12/2013	3	14	OK
MW-31	Sulfate	7/9/2013	7/12/2013	3	28	OK
MW-31	Chloride	7/9/2013	7/12/2013	3	28	OK
MW-31	Fluoride	7/9/2013	7/12/2013	3	27	OK
MW-31	Carbon tetrachloride	7/9/2013	7/12/2013	3	14	OK
MW-31	Acetone	7/9/2013	7/12/2013	3	14	OK
MW-31	Chloroform	7/9/2013	7/12/2013	3	14	OK
MW-31	Benzene	7/9/2013	7/12/2013	3	14	OK
MW-31	Cadmium	7/9/2013	7/12/2013	3	180	OK
MW-31	Chromium	7/9/2013	7/12/2013	3	180	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-31	Cobalt	7/9/2013	7/12/2013	3	180	OK
MW-31	Copper	7/9/2013	7/12/2013	3	180	OK
MW-31	Uranium	7/9/2013	8/21/2013	43	180	OK
MW-31	Vanadium	7/9/2013	7/17/2013	8	180	OK
MW-31	Zinc	7/9/2013	7/12/2013	3	180	OK
MW-31	Calcium	7/9/2013	7/16/2013	7	180	OK
MW-31	Methylene chloride	7/9/2013	7/12/2013	3	14	OK
MW-31	Ammonia (as N)	7/9/2013	7/18/2013	9	28	OK
MW-31	Selenium	7/9/2013	7/12/2013	3	180	OK
MW-31	2-Butanone	7/9/2013	7/12/2013	3	14	OK
MW-31	Tin	7/9/2013	7/16/2013	7	180	OK
MW-31	Arsenic	7/9/2013	7/12/2013	3	180	OK
MW-31	Beryllium	7/9/2013	7/16/2013	7	180	OK
MW-31	Naphthalene	7/9/2013	7/12/2013	3	14	OK
MW-31	Bicarbonate (as CaCO3)	7/9/2013	7/12/2013	3	14	OK
MW-31	Carbonate (as CaCO3)	7/9/2013	7/12/2013	3	14	OK
MW-31	Nitrate/Nitrite (as N)	7/9/2013	7/16/2013	7	28	OK
MW-31	Total Dissolved Solids	7/9/2013	7/12/2013	3	7	OK
MW-31	Gross Radium Alpha	7/9/2013	7/20/2013	11	180	OK
MW-32	Gross Radium Alpha	7/9/2013	7/20/2013	11	180	OK
MW-35	Gross Radium Alpha	7/9/2013	7/20/2013	11	180	OK
MW-35	Toluene	7/9/2013	7/12/2013	3	14	OK
MW-35	Cadmium	7/9/2013	7/12/2013	3	180	OK
MW-35	Chromium	7/9/2013	7/12/2013	3	180	OK
MW-35	Cobalt	7/9/2013	7/12/2013	3	180	OK
MW-35	Copper	7/9/2013	7/12/2013	3	180	OK
MW-35	Uranium	7/9/2013	8/21/2013	43	180	OK
MW-35	Vanadium	7/9/2013	7/17/2013	8	180	OK
MW-35	Tetrahydrofuran	7/9/2013	7/12/2013	3	14	OK
MW-35	Xylenes, Total	7/9/2013	7/12/2013	3	14	OK
MW-35	Sulfate	7/9/2013	7/12/2013	3	28	OK
MW-35	Chloride	7/9/2013	7/12/2013	3	28	OK
MW-35	Fluoride	7/9/2013	7/12/2013	3	27	OK
MW-35	Carbon tetrachloride	7/9/2013	7/12/2013	3	14	OK
MW-35	Acetone	7/9/2013	7/12/2013	3	14	OK
MW-35	Chloroform	7/9/2013	7/12/2013	3	14	OK
MW-35	Benzene	7/9/2013	7/12/2013	3	14	OK
MW-35	Chloromethane	7/9/2013	7/12/2013	3	14	OK
MW-35	Iron	7/9/2013	7/12/2013	3	180	OK
MW-35	Lead	7/9/2013	7/12/2013	3	180	OK
MW-35	Magnesium	7/9/2013	7/16/2013	7	180	OK
MW-35	Manganese	7/9/2013	7/16/2013	7	180	OK
MW-35	Mercury	7/9/2013	7/16/2013	7	180	OK
MW-35	Molybdenum	7/9/2013	7/12/2013	3	180	OK
MW-35	Nickel	7/9/2013	7/16/2013	7	180	OK
MW-35	Potassium	7/9/2013	7/17/2013	8	180	OK
MW-35	Silver	7/9/2013	7/12/2013	3	180	OK
MW-35	Sodium	7/9/2013	7/16/2013	7	180	OK
MW-35	Thallium	7/9/2013	7/13/2013	4	180	OK
MW-35	Tin	7/9/2013	7/16/2013	7	180	OK
MW-35	Arsenic	7/9/2013	7/12/2013	3	180	OK
MW-35	Beryllium	7/9/2013	7/16/2013	7	180	OK
MW-35	Zinc	7/9/2013	7/12/2013	3	180	OK
MW-35	Calcium	7/9/2013	7/16/2013	7	180	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-35	Methylene chloride	7/9/2013	7/12/2013	3	14	OK
MW-35	Ammonia (as N)	7/9/2013	7/18/2013	9	28	OK
MW-35	Selenium	7/9/2013	7/12/2013	3	180	OK
MW-35	2-Butanone	7/9/2013	7/12/2013	3	14	OK
MW-35	Naphthalene	7/9/2013	7/12/2013	3	14	OK
MW-35	Bicarbonate (as CaCO3)	7/9/2013	7/12/2013	3	14	OK
MW-35	Carbonate (as CaCO3)	7/9/2013	7/12/2013	3	14	OK
MW-35	Nitrate/Nitrite (as N)	7/9/2013	7/16/2013	7	28	OK
MW-35	Total Dissolved Solids	7/9/2013	7/12/2013	3	7	OK
MW-36	Benzene	7/10/2013	7/12/2013	2	14	OK
MW-36	Chloromethane	7/10/2013	7/12/2013	2	14	OK
MW-36	Iron	7/10/2013	7/12/2013	2	180	OK
MW-36	Lead	7/10/2013	7/12/2013	2	180	OK
MW-36	Magnesium	7/10/2013	7/16/2013	6	180	OK
MW-36	Manganese	7/10/2013	7/16/2013	6	180	OK
MW-36	Mercury	7/10/2013	7/16/2013	6	180	OK
MW-36	Molybdenum	7/10/2013	7/12/2013	2	180	OK
MW-36	Nickel	7/10/2013	7/16/2013	6	180	OK
MW-36	Potassium	7/10/2013	7/17/2013	7	180	OK
MW-36	Toluene	7/10/2013	7/12/2013	2	14	OK
MW-36	Tetrahydrofuran	7/10/2013	7/12/2013	2	14	OK
MW-36	Xylenes, Total	7/10/2013	7/12/2013	2	14	OK
MW-36	Sulfate	7/10/2013	7/17/2013	7	28	OK
MW-36	Chloride	7/10/2013	7/12/2013	2	28	OK
MW-36	Fluoride	7/10/2013	7/12/2013	2	27	OK
MW-36	Carbon tetrachloride	7/10/2013	7/12/2013	2	14	OK
MW-36	Acetone	7/10/2013	7/12/2013	2	14	OK
MW-36	Chloroform	7/10/2013	7/12/2013	2	14	OK
MW-36	Cadmium	7/10/2013	7/12/2013	2	180	OK
MW-36	Chromium	7/10/2013	7/12/2013	2	180	OK
MW-36	Cobalt	7/10/2013	7/12/2013	2	180	OK
MW-36	Copper	7/10/2013	7/12/2013	2	180	OK
MW-36	Uranium	7/10/2013	8/21/2013	42	180	OK
MW-36	Vanadium	7/10/2013	7/17/2013	7	180	OK
MW-36	Zinc	7/10/2013	7/12/2013	2	180	OK
MW-36	Calcium	7/10/2013	7/16/2013	6	180	OK
MW-36	Methylene chloride	7/10/2013	7/12/2013	2	14	OK
MW-36	Ammonia (as N)	7/10/2013	7/18/2013	8	28	OK
MW-36	Silver	7/10/2013	7/12/2013	2	180	OK
MW-36	Sodium	7/10/2013	7/16/2013	6	180	OK
MW-36	Thallium	7/10/2013	7/13/2013	3	180	OK
MW-36	Tin	7/10/2013	7/16/2013	6	180	OK
MW-36	Arsenic	7/10/2013	7/12/2013	2	180	OK
MW-36	Beryllium	7/10/2013	7/16/2013	6	180	OK
MW-36	Selenium	7/10/2013	7/12/2013	2	180	OK
MW-36	2-Butanone	7/10/2013	7/12/2013	2	14	OK
MW-36	Naphthalene	7/10/2013	7/12/2013	2	14	OK
MW-36	Total Dissolved Solids	7/10/2013	7/12/2013	2	7	OK
MW-36	Gross Radium Alpha	7/10/2013	7/20/2013	10	180	OK
MW-36	Bicarbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-36	Carbonate (as CaCO3)	7/10/2013	7/12/2013	2	14	OK
MW-36	Nitrate/Nitrite (as N)	7/10/2013	7/16/2013	6	28	OK
MW-37	Acetone	7/23/2013	7/26/2013	3	14	OK
MW-37	Iron	7/23/2013	8/5/2013	13	180	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-37	Lead	7/23/2013	8/5/2013	13	180	OK
MW-37	Chloroform	7/23/2013	7/26/2013	3	14	OK
MW-37	Benzene	7/23/2013	7/26/2013	3	14	OK
MW-37	Copper	7/23/2013	8/5/2013	13	180	OK
MW-37	Gross Radium Alpha	7/23/2013	8/11/2013	19	180	OK
MW-37	Uranium	7/23/2013	8/5/2013	13	180	OK
MW-37	Vanadium	7/23/2013	8/1/2013	9	180	OK
MW-37	Beryllium	7/23/2013	8/5/2013	13	180	OK
MW-37	Cadmium	7/23/2013	8/5/2013	13	180	OK
MW-37	Chromium	7/23/2013	8/5/2013	13	180	OK
MW-37	Cobalt	7/23/2013	8/5/2013	13	180	OK
MW-37	Tin	7/23/2013	8/7/2013	15	180	OK
MW-37	Arsenic	7/23/2013	8/5/2013	13	180	OK
MW-37	Toluene	7/23/2013	7/26/2013	3	14	OK
MW-37	Tetrahydrofuran	7/23/2013	7/26/2013	3	14	OK
MW-37	Xylenes, Total	7/23/2013	7/26/2013	3	14	OK
MW-37	Sulfate	7/23/2013	7/26/2013	3	28	OK
MW-37	Chloride	7/23/2013	7/26/2013	3	28	OK
MW-37	Fluoride	7/23/2013	7/27/2013	4	27	OK
MW-37	Carbon tetrachloride	7/23/2013	7/26/2013	3	14	OK
MW-37	Chloromethane	7/23/2013	7/26/2013	3	14	OK
MW-37	Magnesium	7/23/2013	8/1/2013	9	180	OK
MW-37	Manganese	7/23/2013	8/5/2013	13	180	OK
MW-37	Mercury	7/23/2013	8/5/2013	13	180	OK
MW-37	Molybdenum	7/23/2013	8/5/2013	13	180	OK
MW-37	Nickel	7/23/2013	8/5/2013	13	180	OK
MW-37	Potassium	7/23/2013	8/1/2013	9	180	OK
MW-37	Silver	7/23/2013	8/5/2013	13	180	OK
MW-37	Sodium	7/23/2013	8/1/2013	9	180	OK
MW-37	Thallium	7/23/2013	8/7/2013	15	180	OK
MW-37	Zinc	7/23/2013	8/5/2013	13	180	OK
MW-37	Calcium	7/23/2013	8/1/2013	9	180	OK
MW-37	Methylene chloride	7/23/2013	7/26/2013	3	14	OK
MW-37	Ammonia (as N)	7/23/2013	8/5/2013	13	28	OK
MW-37	Selenium	7/23/2013	8/5/2013	13	180	OK
MW-37	2-Butanone	7/23/2013	7/26/2013	3	14	OK
MW-37	Naphthalene	7/23/2013	7/26/2013	3	14	OK
MW-37	Bicarbonate (as CaCO3)	7/23/2013	7/31/2013	8	14	OK
MW-37	Carbonate (as CaCO3)	7/23/2013	7/31/2013	8	14	OK
MW-37	Nitrate/Nitrite (as N)	7/23/2013	8/2/2013	10	28	OK
MW-37	Total Dissolved Solids	7/23/2013	7/25/2013	2	7	OK
MW-65	Total Dissolved Solids	7/17/2013	7/19/2013	2	7	OK
MW-65	Iron	7/17/2013	7/26/2013	9	180	OK
MW-65	Manganese	7/17/2013	7/29/2013	12	180	OK
MW-70	Iron	7/18/2013	8/12/2013	25	180	OK
MW-70	Selenium	7/18/2013	8/5/2013	18	180	OK
Trip Blank	Toluene	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Tetrahydrofuran	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Xylenes, Total	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Carbon tetrachloride	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Acetone	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Chloroform	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Benzene	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Chloromethane	7/9/2013	7/12/2013	3	14	OK

G-2A: Holding Time Evaluation

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Methylene chloride	7/9/2013	7/12/2013	3	14	OK
Trip Blank	2-Butanone	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Naphthalene	7/9/2013	7/12/2013	3	14	OK
Trip Blank	Toluene	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Tetrahydrofuran	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Xylenes, Total	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Carbon tetrachloride	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Acetone	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Chloroform	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Benzene	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Chloromethane	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Methylene chloride	7/23/2013	7/26/2013	3	14	OK
Trip Blank	2-Butanone	7/23/2013	7/26/2013	3	14	OK
Trip Blank	Naphthalene	7/23/2013	7/26/2013	3	14	OK

G-2B: Holding Time Evaluation - Accelerated Samples

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
Trip Blank	Chloroform	8/20/2013	8/27/2013	7	14	OK
Trip Blank	Methylene chloride	8/20/2013	8/27/2013	7	14	OK
Trip Blank	Chloroform	9/18/2013	9/20/2013	2	14	OK
Trip Blank	Methylene chloride	9/18/2013	9/20/2013	2	14	OK
MW-11	Manganese	8/20/2013	8/28/2013	8	180	OK
MW-11	Manganese	9/18/2013	9/24/2013	6	180	OK
MW-14	Manganese	8/20/2013	8/29/2013	9	180	OK
MW-14	Manganese	9/19/2013	9/24/2013	5	180	OK
MW-25	Uranium	8/19/2013	8/28/2013	9	180	OK
MW-25	Cadmium	8/19/2013	8/28/2013	9	180	OK
MW-25	Chloride	8/19/2013	8/26/2013	7	28	OK
MW-25	Chloride	9/17/2013	9/24/2013	7	28	OK
MW-25	Cadmium	9/17/2013	9/24/2013	7	180	OK
MW-25	Uranium	9/17/2013	9/24/2013	7	180	OK
MW-26	Nitrate/Nitrite (as N)	8/20/2013	8/27/2013	7	28	OK
MW-26	Methylene chloride	8/20/2013	8/27/2013	7	14	OK
MW-26	Uranium	8/20/2013	8/29/2013	9	180	OK
MW-26	Chloroform	8/20/2013	8/27/2013	7	14	OK
MW-26	Chloride	8/20/2013	8/26/2013	6	28	OK
MW-26	Chloride	9/18/2013	9/24/2013	6	28	OK
MW-26	Chloroform	9/18/2013	9/23/2013	5	14	OK
MW-26	Uranium	9/18/2013	9/24/2013	6	180	OK
MW-26	Methylene chloride	9/18/2013	9/20/2013	2	14	OK
MW-26	Nitrate/Nitrite (as N)	9/18/2013	9/24/2013	6	28	OK
MW-30	Chloride	8/20/2013	8/26/2013	6	28	OK
MW-30	Uranium	8/20/2013	8/29/2013	9	180	OK
MW-30	Selenium	8/20/2013	8/28/2013	8	180	OK
MW-30	Nitrate/Nitrite (as N)	8/20/2013	8/27/2013	7	28	OK
MW-30	Chloride	9/18/2013	9/24/2013	6	28	OK
MW-30	Uranium	9/18/2013	10/23/2013	35	180	OK
MW-30	Selenium	9/18/2013	9/24/2013	6	180	OK
MW-30	Nitrate/Nitrite (as N)	9/18/2013	9/24/2013	6	28	OK
MW-31	Sulfate	8/19/2013	8/26/2013	7	28	OK
MW-31	Chloride	8/19/2013	8/26/2013	7	28	OK
MW-31	Selenium	8/19/2013	8/28/2013	9	180	OK
MW-31	Nitrate/Nitrite (as N)	8/19/2013	8/27/2013	8	28	OK
MW-31	Total Dissolved Solids	8/19/2013	8/23/2013	4	7	OK
MW-31	Sulfate	9/17/2013	9/24/2013	7	28	OK
MW-31	Chloride	9/17/2013	9/24/2013	7	28	OK
MW-31	Selenium	9/17/2013	9/24/2013	7	180	OK
MW-31	Nitrate/Nitrite (as N)	9/17/2013	10/2/2013	15	28	OK
MW-31	Total Dissolved Solids	9/17/2013	9/23/2013	6	7	OK
MW-35	Manganese	8/19/2013	8/28/2013	9	180	OK
MW-35	Molybdenum	8/19/2013	8/28/2013	9	180	OK
MW-35	Thallium	8/19/2013	8/29/2013	10	180	OK
MW-35	Uranium	8/19/2013	8/29/2013	10	180	OK
MW-35	Selenium	8/19/2013	8/28/2013	9	180	OK
MW-35	Gross Radium Alpha	8/19/2013	9/10/2013	22	180	OK
MW-35	Manganese	9/17/2013	9/24/2013	7	180	OK
MW-35	Molybdenum	9/17/2013	9/25/2013	8	180	OK
MW-35	Thallium	9/17/2013	9/30/2013	13	180	OK
MW-35	Uranium	9/17/2013	9/24/2013	7	180	OK
MW-35	Selenium	9/17/2013	9/24/2013	7	180	OK
MW-35	Gross Radium Alpha	9/17/2013	10/16/2013	29	180	OK

G-2B: Holding Time Evaluation - Accelerated Samples

Location ID	Parameter Name	Sample Date	Analysis Date	Hold Time (Days)	Allowed Hold Time (Days)	Hold Time Check
MW-65	Manganese	8/20/2013	8/28/2013	8	180	OK
MW-65	Chloride	9/17/2013	9/24/2013	7	28	OK
MW-65	Cadmium	9/17/2013	9/24/2013	7	180	OK
MW-65	Uranium	9/17/2013	9/24/2013	7	180	OK

G-3A: Laboratory Receipt Temperature Check

Sample Batch	Wells in Batch	Temperature
GEL 329520	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-32, MW-35, MW-36	NA
GEL 329987	MW-19, MW-27	NA
GEL 330123	MW-37	NA
AWAL 1307232	MW-11, MW-14, MW-25, MW-26, MW-30, MW-31, MW-32, MW-35, MW-36, Trip Blank	1.9°C
AWAL 1307553	MW-01, MW-03, MW-03A, MW-05, MW-15, MW-24, MW-37, MW-70, Trip Blank	1.7°C
AWAL 1307411	MW-12, MW-18, MW-19, MW-23, MW-27, MW-28, MW-29, MW-65	3.6°C

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
GEL 332169	MW-35	NA
AWAL 1308428	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65	2.1°C
GEL 333788	MW-35	NA
AWAL 1309395	MW-11, MW-25, MW-26, MW-30, MW-31, MW-35, MW-65	0.9°C

N/A = These shipments contained samples for the analysis of gross alpha only. Per Table 1 in the approved QAP,samples submitted for gross alpha analyses do not have a sample temperature requirement.

G-4A: Analytical Method Check

Parameter	QAP Method*	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	E350.1
Nitrate + Nitrite (as N)	E353.1 or E353.2	E353.2
Metals	E200.7 or E200.8	E200.7 and E200.8
Gross Alpha	E900.0 or E900.1	E900.1
VOCs	SW8260B or SW8260C	SW8260C
Chloride	A4500-Cl B or A4500-Cl E or E300.0	E300.0
Fluoride	A4500-F C or E300.0	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C
Carbonate as CO3, Bicarbonate as HCO3	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	E300.0
Sulfate	A4500-SO4 E or E300.0	E300.0
TDS	A2540 C	A2540 C

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Toluene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Acetone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Benzene	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloromethane	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	2-Butanone	20	ug/L	U	20	ug/L	OK	1
Trip Blank	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-01	Tetrahydrofuran	1	ug/L		1	ug/L	OK	1
MW-01	Sulfate	100	mg/l		1	mg/l	OK	100
MW-01	Manganese	10	ug/L		10	ug/L	OK	20
MW-03	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-03	Selenium	5	ug/L		5	ug/L	OK	20
MW-03A	Sulfate	750	mg/l		1	mg/l	OK	1000
MW-03A	Selenium	5	ug/L		5	ug/L	OK	20
MW-03A	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-03A	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-05	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-11	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-11	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-11	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-11	Sulfate	100	mg/l		1	mg/l	OK	100
MW-11	Chloride	5	mg/l		1	mg/l	OK	5
MW-11	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-11	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-11	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-11	Gross Radium Alpha	0.64	pCi/L	U	1	pCi/L	OK	1
MW-11	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-11	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-11	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-11	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-11	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-11	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-11	Calcium	1	mg/l		0.5	mg/l	OK	1
MW-11	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-11	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-11	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-11	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-11	Chromium	25	ug/L	U	25	ug/L	OK	20

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-11	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-11	Copper	10	ug/L	U	10	ug/L	OK	20
MW-11	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-11	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-11	Silver	10	ug/L	U	10	ug/L	OK	20
MW-11	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-11	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-11	Tin	100	ug/L	U	100	ug/L	OK	20
MW-11	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-11	Lead	1	ug/L	U	1	ug/L	OK	5
MW-11	Magnesium	1	mg/l		0.5	mg/l	OK	1
MW-11	Manganese	10	ug/L		10	ug/L	OK	20
MW-11	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-11	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-11	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-11	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-11	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-11	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-11	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-11	Iron	30	ug/L		30	ug/L	OK	5
MW-12	Selenium	5	ug/L		5	ug/L	OK	20
MW-14	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-14	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-14	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-14	Sulfate	500	mg/l		1	mg/l	OK	500
MW-14	Chloride	5	mg/l		1	mg/l	OK	5
MW-14	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-14	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-14	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-14	Gross Radium Alpha	0.63	pCi/L	U	1	pCi/L	OK	1
MW-14	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-14	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-14	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-14	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-14	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-14	Zinc	10	ug/L		10	ug/L	OK	20
MW-14	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-14	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-14	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-14	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-14	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-14	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-14	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-14	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-14	Copper	10	ug/L	U	10	ug/L	OK	20
MW-14	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-14	Potassium	5	mg/l		0.5	mg/l	OK	5
MW-14	Silver	10	ug/L	U	10	ug/L	OK	20
MW-14	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-14	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-14	Tin	100	ug/L	U	100	ug/L	OK	20
MW-14	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-14	Lead	1	ug/L	U	1	ug/L	OK	5

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-14	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-14	Manganese	10	ug/L		10	ug/L	OK	50
MW-14	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-14	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-14	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-14	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-14	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-14	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-14	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-14	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-14	Iron	30	ug/L	U	30	ug/L	OK	5
MW-15	Iron	30	ug/L	U	30	ug/L	OK	5
MW-15	Selenium	5	ug/L		5	ug/L	OK	20
MW-18	Sulfate	500	mg/l		1	mg/l	OK	500
MW-18	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-18	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-19	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-19	Gross Radium Alpha	0.385	pCi/L	U	1	pCi/L	OK	1
MW-23	Manganese	10	ug/L		10	ug/L	OK	20
MW-24	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-24	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-24	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-25	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-25	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-25	Sulfate	500	mg/l		1	mg/l	OK	500
MW-25	Chloride	5	mg/l		1	mg/l	OK	5
MW-25	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-25	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-25	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-25	Gross Radium Alpha	0.789	pCi/L	U	1	pCi/L	OK	1
MW-25	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-25	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-25	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-25	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-25	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-25	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-25	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-25	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-25	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-25	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-25	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-25	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-25	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-25	Copper	10	ug/L	U	10	ug/L	OK	20
MW-25	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-25	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-25	Silver	10	ug/L	U	10	ug/L	OK	20
MW-25	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-25	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-25	Tin	100	ug/L	U	100	ug/L	OK	20
MW-25	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-25	Lead	1	ug/L	U	1	ug/L	OK	5

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-25	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-25	Manganese	10	ug/L		10	ug/L	OK	20
MW-25	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-25	Molybdenum	10	ug/L		10	ug/L	OK	20
MW-25	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-25	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-25	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-25	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-25	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-25	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-25	Iron	30	ug/L	U	30	ug/L	OK	5
MW-26	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-26	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-26	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-26	Sulfate	500	mg/l		1	mg/l	OK	500
MW-26	Chloride	10	mg/l		1	mg/l	OK	10
MW-26	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-26	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-26	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-26	Gross Radium Alpha	0.726	pCi/L		1	pCi/L	OK	1
MW-26	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-26	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-26	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-26	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-26	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-26	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-26	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK	1
MW-26	Ammonia (as N)	0.05	ug/L		0.05	ug/L	OK	1
MW-26	Selenium	5	ug/L		5	ug/L	OK	20
MW-26	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-26	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-26	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-26	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-26	Copper	10	ug/L	U	10	ug/L	OK	20
MW-26	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-26	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-26	Silver	10	ug/L	U	10	ug/L	OK	20
MW-26	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-26	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-26	Tin	100	ug/L	U	100	ug/L	OK	20
MW-26	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-26	Lead	1	ug/L	U	1	ug/L	OK	5
MW-26	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-26	Manganese	10	ug/L		10	ug/L	OK	20
MW-26	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-26	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-26	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-26	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-26	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-26	Chloroform	10	ug/L		1	ug/L	OK	10
MW-26	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-26	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-26	Iron	30	ug/L		30	ug/L	OK	5

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-27	Chloride	10	mg/l		1	mg/l	OK	10
MW-27	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-27	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-27	Gross Radium Alpha	0.378	pCi/L	U	1	pCi/L	OK	1
MW-28	Chloride	20	mg/l		1	mg/l	OK	20
MW-28	Manganese	10	ug/L		10	ug/L	OK	20
MW-29	Iron	100	ug/L		30	ug/L	OK	20
MW-29	Manganese	10	ug/L		10	ug/L	OK	100
MW-29	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-30	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-30	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-30	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-30	Sulfate	50	mg/l		1	mg/l	OK	50
MW-30	Chloride	50	mg/l		1	mg/l	OK	50
MW-30	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-30	Nitrate/Nitrite (as N)	1	ug/L		0.1	ug/L	OK	10
MW-30	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-30	Gross Radium Alpha	0.672	pCi/L	U	1	pCi/L	OK	1
MW-30	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-30	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-30	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-30	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-30	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-30	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-30	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-30	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-30	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-30	Selenium	5	ug/L		5	ug/L	OK	20
MW-30	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-30	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-30	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-30	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-30	Copper	10	ug/L	U	10	ug/L	OK	20
MW-30	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-30	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-30	Silver	10	ug/L	U	10	ug/L	OK	20
MW-30	Sodium	10	mg/l		0.5	mg/l	OK	10
MW-30	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-30	Tin	100	ug/L	U	100	ug/L	OK	20
MW-30	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-30	Lead	1	ug/L	U	1	ug/L	OK	5
MW-30	Magnesium	10	mg/l		0.5	mg/l	OK	10
MW-30	Manganese	10	ug/L		10	ug/L	OK	20
MW-30	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-30	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-30	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-30	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-30	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-30	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-30	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-30	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-30	Iron	30	ug/L	U	30	ug/L	OK	5
MW-31	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-31	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-31	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-31	Sulfate	50	mg/l		1	mg/l	OK	50
MW-31	Chloride	50	mg/l		1	mg/l	OK	50
MW-31	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-31	Nitrate/Nitrite (as N)	10	ug/L		0.1	ug/L	OK	100
MW-31	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-31	Gross Radium Alpha	0.635	pCi/L		1	pCi/L	OK	1
MW-31	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-31	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-31	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-31	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-31	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-31	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-31	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-31	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-31	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-31	Selenium	5	ug/L		5	ug/L	OK	20
MW-31	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-31	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-31	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-31	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-31	Copper	10	ug/L	U	10	ug/L	OK	20
MW-31	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-31	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-31	Silver	10	ug/L	U	10	ug/L	OK	20
MW-31	Sodium	1	mg/l		0.5	mg/l	OK	1
MW-31	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-31	Tin	100	ug/L	U	100	ug/L	OK	20
MW-31	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-31	Lead	1	ug/L	U	1	ug/L	OK	5
MW-31	Magnesium	1	mg/l		0.5	mg/l	OK	1
MW-31	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-31	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-31	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-31	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-31	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-31	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-31	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-31	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-31	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-31	Iron	30	ug/L	U	30	ug/L	OK	5
MW-32	Gross Radium Alpha	0.666	pCi/L		1	pCi/L	OK	1
MW-35	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-35	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-35	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-35	Sulfate	500	mg/l		1	mg/l	OK	500
MW-35	Chloride	10	mg/l		1	mg/l	OK	10
MW-35	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-35	Nitrate/Nitrite (as N)	0.1	ug/L	U	0.1	ug/L	OK	1
MW-35	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-35	Gross Radium Alpha	0.736	pCi/L		1	pCi/L	OK	1
MW-35	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-35	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-35	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-35	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-35	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-35	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-35	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-35	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-35	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-35	Selenium	5	ug/L		5	ug/L	OK	20
MW-35	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-35	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-35	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-35	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-35	Copper	10	ug/L	U	10	ug/L	OK	20
MW-35	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-35	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-35	Silver	10	ug/L	U	10	ug/L	OK	20
MW-35	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-35	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-35	Tin	100	ug/L	U	100	ug/L	OK	20
MW-35	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-35	Lead	1	ug/L	U	1	ug/L	OK	5
MW-35	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-35	Manganese	10	ug/L		10	ug/L	OK	20
MW-35	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-35	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-35	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-35	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-35	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-35	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-35	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-35	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-35	Iron	30	ug/L		30	ug/L	OK	5
MW-36	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-36	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-36	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-36	Sulfate	500	mg/l		1	mg/l	OK	500
MW-36	Chloride	10	mg/l		1	mg/l	OK	10
MW-36	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-36	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-36	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-36	Gross Radium Alpha	0.761	pCi/L		1	pCi/L	OK	1
MW-36	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-36	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-36	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-36	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-36	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-36	Zinc	10	ug/L	U	10	ug/L	OK	20
MW-36	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-36	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-36	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-36	Selenium	5	ug/L		5	ug/L	OK	20
MW-36	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-36	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-36	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-36	Cobalt	10	ug/L	U	10	ug/L	OK	20

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-36	Copper	10	ug/L	U	10	ug/L	OK	20
MW-36	Uranium	0.2	ug/L		0.3	ug/L	OK	2
MW-36	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-36	Silver	10	ug/L	U	10	ug/L	OK	20
MW-36	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-36	Thallium	0.5	ug/L		0.5	ug/L	OK	5
MW-36	Tin	100	ug/L	U	100	ug/L	OK	20
MW-36	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-36	Lead	1	ug/L	U	1	ug/L	OK	5
MW-36	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-36	Manganese	10	ug/L	U	10	ug/L	OK	20
MW-36	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-36	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-36	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-36	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-36	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-36	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-36	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-36	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-36	Iron	30	ug/L	U	30	ug/L	OK	5
MW-37	Toluene	1	ug/L	U	1	ug/L	OK	1
MW-37	Tetrahydrofuran	1	ug/L	U	1	ug/L	OK	1
MW-37	Xylenes, Total	1	ug/L	U	1	ug/L	OK	1
MW-37	Sulfate	500	mg/l		1	mg/l	OK	500
MW-37	Chloride	10	mg/l		1	mg/l	OK	10
MW-37	Fluoride	0.1	mg/l		0.1	mg/l	OK	1
MW-37	Nitrate/Nitrite (as N)	0.1	ug/L		0.1	ug/L	OK	1
MW-37	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-37	Gross Radium Alpha	0.44	pCi/L	U	1	pCi/L	OK	1
MW-37	2-Butanone	20	ug/L	U	20	ug/L	OK	1
MW-37	Naphthalene	1	ug/L	U	1	ug/L	OK	1
MW-37	Bicarbonate (as CaCO3)	1	mg/l		1	mg/l	OK	1
MW-37	Carbonate (as CaCO3)	1	mg/l	U	1	mg/l	OK	1
MW-37	Vanadium	15	ug/L	U	15	ug/L	OK	1
MW-37	Zinc	10	ug/L		10	ug/L	OK	20
MW-37	Calcium	100	mg/l		0.5	mg/l	OK	100
MW-37	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-37	Ammonia (as N)	0.05	ug/L	U	0.05	ug/L	OK	1
MW-37	Selenium	5	ug/L		5	ug/L	OK	20
MW-37	Beryllium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-37	Cadmium	0.5	ug/L	U	0.5	ug/L	OK	20
MW-37	Chromium	25	ug/L	U	25	ug/L	OK	20
MW-37	Cobalt	10	ug/L	U	10	ug/L	OK	20
MW-37	Copper	10	ug/L	U	10	ug/L	OK	20
MW-37	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-37	Potassium	1	mg/l		0.5	mg/l	OK	1
MW-37	Silver	10	ug/L	U	10	ug/L	OK	20
MW-37	Sodium	100	mg/l		0.5	mg/l	OK	100
MW-37	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-37	Tin	100	ug/L	U	100	ug/L	OK	20
MW-37	Arsenic	5	ug/L	U	5	ug/L	OK	20
MW-37	Lead	1	ug/L	U	1	ug/L	OK	5
MW-37	Magnesium	100	mg/l		0.5	mg/l	OK	100
MW-37	Manganese	10	ug/L	U	10	ug/L	OK	20

G-5A Reporting Limit Check

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-37	Mercury	0.5	ug/L	U	0.5	ug/L	OK	1
MW-37	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-37	Nickel	20	ug/L	U	20	ug/L	OK	20
MW-37	Carbon tetrachloride	1	ug/L	U	1	ug/L	OK	1
MW-37	Acetone	20	ug/L	U	20	ug/L	OK	1
MW-37	Chloroform	1	ug/L	U	1	ug/L	OK	1
MW-37	Benzene	1	ug/L	U	1	ug/L	OK	1
MW-37	Chloromethane	1	ug/L	U	1	ug/L	OK	1
MW-37	Iron	30	ug/L	U	30	ug/L	OK	5
MW-65	Iron	100	ug/L		30	ug/L	OK	20
MW-65	Manganese	10	ug/L		10	ug/L	OK	100
MW-65	Total Dissolved Solids	20	mg/l		10	mg/l	OK	2
MW-70	Iron	30	ug/L	U	30	ug/L	OK	5
MW-70	Selenium	5	ug/L		5	ug/L	OK	20

U = Value was reported as nondetect.

G-5B Reporting Limit Check - Accelerated Samples

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Chloroform	1	ug/L	U	1	ug/L	OK	1
Trip Blank	Methylene chloride	1	ug/L	U	1	ug/L	OK	1
MW-11	Manganese	10	ug/L		10	ug/L	OK	20
MW-11	Manganese	10	ug/L		10	ug/L	OK	20
MW-14	Manganese	10	ug/L		10	ug/L	OK	50
MW-14	Manganese	10	ug/L		10	ug/L	OK	50
MW-25	Chloride	5	mg/L		1	mg/l	OK	5
MW-25	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-25	Chloride	5	mg/L		1	mg/l	OK	5
MW-25	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-25	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-26	Chloride	10	mg/L		1	mg/l	OK	10
MW-26	Chloroform	20	ug/L		1	ug/L	OK	20
MW-26	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK	1
MW-26	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-26	Chloride	10	mg/L		1	mg/l	OK	10
MW-26	Chloroform	100	ug/L		1	ug/L	OK	100
MW-26	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-26	Methylene chloride	1	ug/L		1	ug/L	OK	1
MW-26	Nitrate/Nitrite (as N)	0.5	mg/L		0.1	ug/L	OK	5
MW-30	Chloride	50	mg/L		1	mg/l	OK	50
MW-30	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-30	Selenium	5	ug/L		5	ug/L	OK	20
MW-30	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-30	Chloride	50	mg/L		1	mg/l	OK	50
MW-30	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-30	Selenium	5	ug/L		5	ug/L	OK	20
MW-30	Nitrate/Nitrite (as N)	1	mg/L		0.1	ug/L	OK	10
MW-31	Sulfate	50	mg/L		1	mg/l	OK	50
MW-31	Chloride	50	mg/L		1	mg/l	OK	50
MW-31	Selenium	5	ug/L		5	ug/L	OK	20
MW-31	Nitrate/Nitrite (as N)	10	mg/L		0.1	ug/L	OK	100
MW-31	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-31	Sulfate	100	mg/L		1	mg/l	OK	100
MW-31	Chloride	100	mg/L		1	mg/l	OK	100
MW-31	Selenium	5	ug/L		5	ug/L	OK	20
MW-31	Nitrate/Nitrite (as N)	2	mg/L		0.1	ug/L	OK	20
MW-31	Total Dissolved Solids	20	MG/L		10	mg/l	OK	2
MW-35	Manganese	10	ug/L		10	ug/L	OK	20
MW-35	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-35	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-35	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-35	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-35	Gross Radium Alpha	0.79	pCi/L		1	pCi/L	OK	1
MW-35	Manganese	10	ug/L		10	ug/L	OK	20
MW-35	Molybdenum	10	ug/L	U	10	ug/L	OK	20
MW-35	Thallium	0.5	ug/L	U	0.5	ug/L	OK	5
MW-35	Uranium	0.3	ug/L		0.3	ug/L	OK	2
MW-35	Selenium	5	ug/L	U	5	ug/L	OK	20
MW-35	Gross Radium Alpha	0.976	pCi/L		1	pCi/L	OK	1

G-5B Reporting Limit Check - Accelerated Samples

Location	Analyte	Lab Reporting Limit	Units	Qualifier	Required Reporting Limit	Units	RL Check	DILUTION FACTOR
MW-65	Manganese	10	ug/L		10	ug/L	OK	20
MW-65	Chloride	5	mg/L		1	mg/l	OK	5
MW-65	Cadmium	0.5	ug/L		0.5	ug/L	OK	20
MW-65	Uranium	0.3	ug/L		0.3	ug/L	OK	2

U = Value was reported as nondetected.

G-6A: Trip Blank Evaluation

All trip blanks for the Quarter were non detect.

Blank	Sample Date	Laboratory
1	7/9/2013	American West Analytical Laboratories
2	7/23/2013	American West Analytical Laboratories

G-6B: Trip Blank Evaluation

All trip blanks for the Accelerated samples were non detect.

Blank	Sample Date	Laboratory
1	8/20/2013	American West Analytical Laboratories
2	9/18/2013	American West Analytical Laboratories

G-7A: QA/QC Evaluation for Routine Sample Duplicates

Constituent	MW-29	MW-65	%RPD
Iron (mg/L)	1.4	1.43	2.12
Manganese	5.14	5.04	1.96
TDS (mg/L)	4270	4420	3.45
Constituent	**MW-15**	**MW-70**	**%RPD**
Iron	ND	ND	NC
Selenium	0.1	0.108	7.69

NC = Not Calculated

G-7B: QA/QC Evaluation for Accelerated Sample Duplicates

Constituent	MW-11 8/20/2013	MW-65 8/20/2013	%RPD*
Manganese	0.158	0.164	3.73
Constituent	**MW-25 9/17/2013**	**MW-65 9/17/2013**	**%RPD**
Cadmium	1.31	1.35	3.01
Uranium	5.99	6.07	1.33
Chloride (mg/L)	29.6	29.9	1.01

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-11	7/10/2013	<1.0	0.272	NC	3.75	NC
MW-14	7/11/2013	<1.0	0.261	NC	7.5	NC
MW-19	7/15/2013	<1.0	0.185	NC	2.36	NC
MW-25	7/10/2013	<1.0	0.326	NC	7.5	NC
MW-26	7/11/2013	4.55	0.619	Y	4.69	NA
MW-27	7/17/2013	<1.0	0.181	NC	2	NC
MW-30	7/10/2013	<1.0	0.253	NC	3.75	NC
MW-31	7/9/2013	1.07	0.315	N	7.5	Y
MW-32	7/9/2013	6.46	0.717	Y	3.33	NA
MW-35	7/9/2013	5.70	0.698	Y	3.75	NA
MW-36	7/10/2013	2.67	0.490	Y	--	
MW-37	7/23/2013	<1.0	0.214	NC	--	

GWCLs have not been established for MW-20, MW-22, MW-36, and MW-37.

N/A - the counting error is less than 20% of the activity as required by the GWDP and/or the value is above the GWCL and this check column is not applicable.

NC = Not calculated. The sample results are nondetect and the check is not applicable.

G-8B: Radiologics Counting Error for Accelerated Samples

Well	Sample Date	Gross Alpha minus Rn & U	Gross Alpha minus Rn and U Precision (+/-)	Counting Error ≤ 20%	GWCL	Within GWCL?
MW-35	8/19/2013	3.92	0.503	Y	3.75	N/A
MW-35	9/17/2013	5.10	0.476	Y	3.75	N/A

N/A - the counting error is less than 20% of the activity as required by the GWDP. The value is above the GWCL and this check column is not applicable.

MS/MSD Rec. Range

G-9A: Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	RPD	RPD Range
1307232	MW-14	Sodium*	NC	NC	NC	20
1307232	MW-14	Calcium*	NC	NC	NC	20
1307232	MW-26	Nitrate/Nitrite as N	113	115	1.54	10
1307411	MW-19	Nitrate/Nitrite as N	119	119	0.214	10
1307411	MW-12	Nitrate/Nitrite as N	119	117	1.13	10
1307553	MW-01	Sodium*	NC	NC	NC	20
1307553	MW-01	Calcium*	NC	NC	NC	20
1307553	MW-37	Ammonia	90.9	88.5	2.72	10

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

Method Blank detections

Lab Report	Well/Sample	Analyte	Reported	QAP
1307232	Method Blank	Toluene	1.28 ug/L	1.0 ug/L

G-9B: Accelerated Laboratory Matrix QC

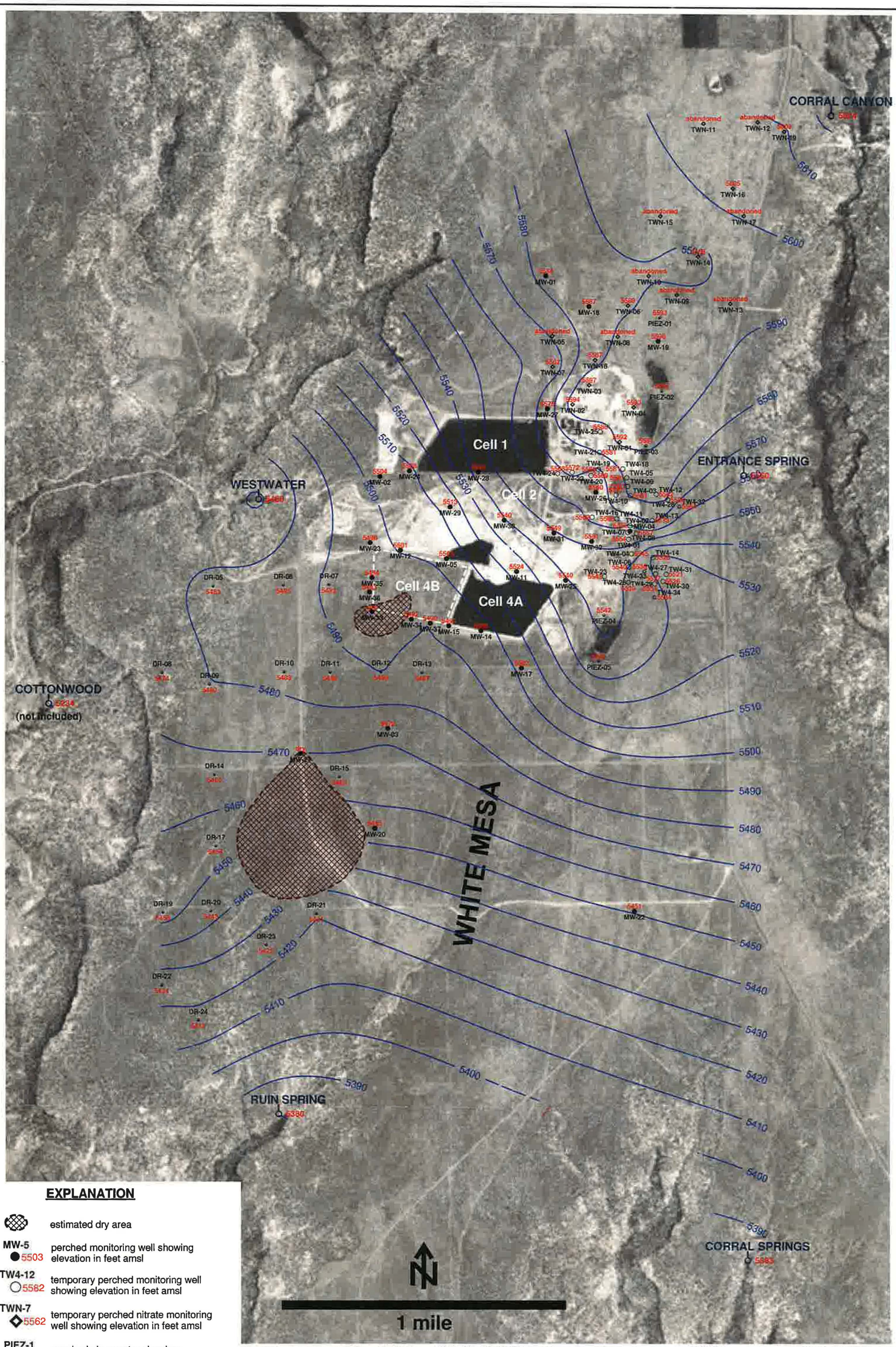
Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD %	RPD Range %
1308428 - August Accelerated	MW-26	Clhoroform	69.5	43.5	50 - 146	4.46	25
1309395 - September Accelerated	N/A	Nitrate+Nitrite (as N)	81.5	76	90 - 110	5.83	10
1309395 - September Accelerated	MW-26	Nitrate+Nitrite (as N)	104	112	90 - 110	4.46	10

N/A Sample was not an EFRI sample.

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 ○ 5582 — temporary perched monitoring well showing elevation in feet amsl
- TWN-7 ◇ 5562 — temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1 ◒ 5593 — perched piezometer showing elevation in feet amsl
- TW4-32 ☼ 5564 — temporary perched monitoring well installed September, 2013 showing approximate 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.

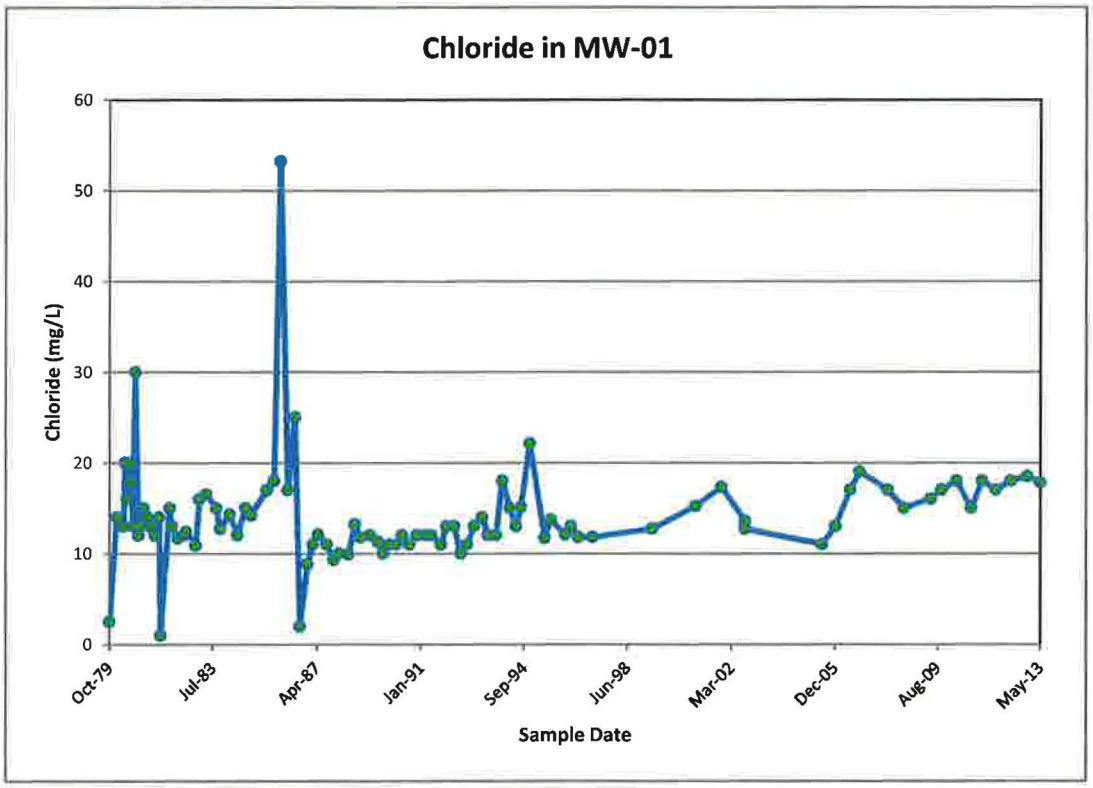
KRIGED 3rd QUARTER, 2013 WATER LEVELS WHITE MESA SITE

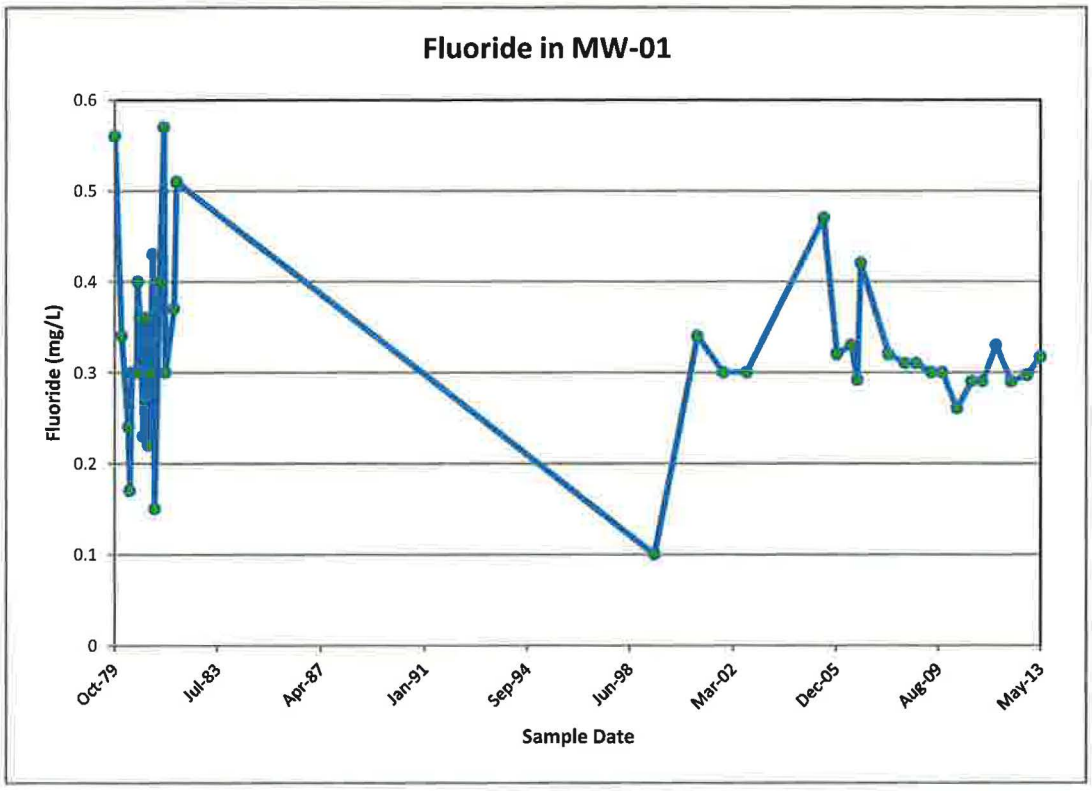
APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov13/Uwl0913.srf	H-1

Tab I

Groundwater Time Concentration Plots

Time concentration plots for MW-01

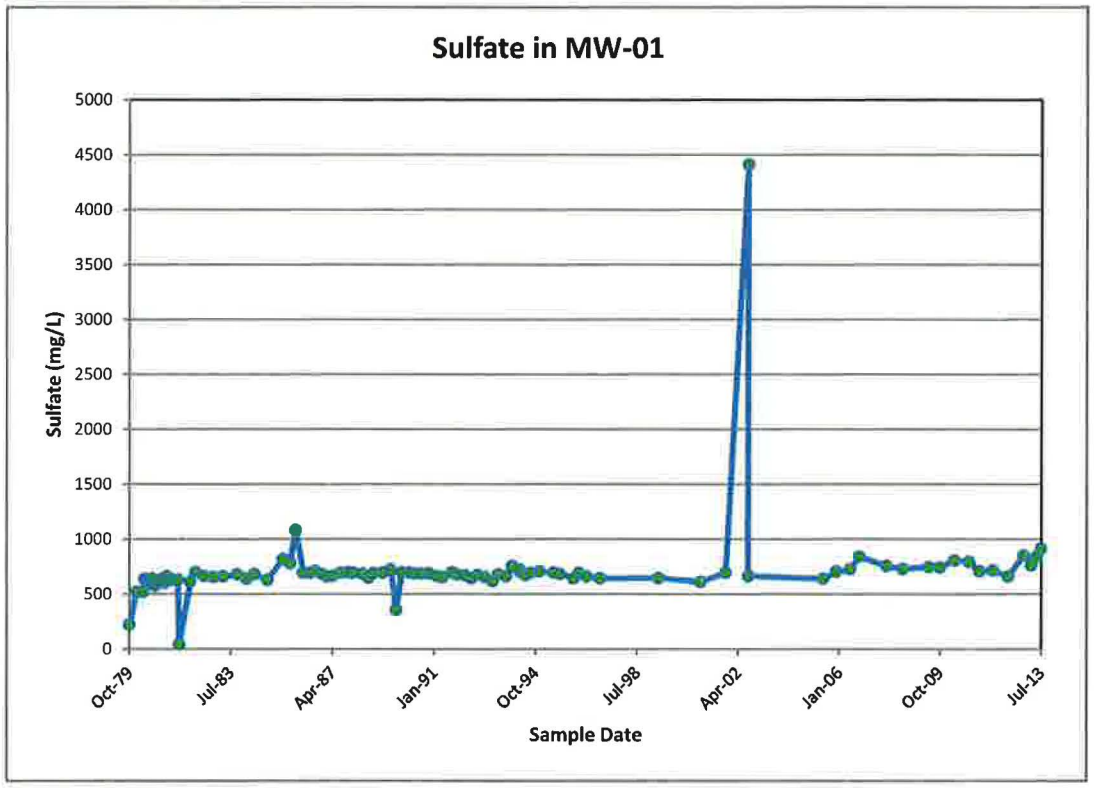


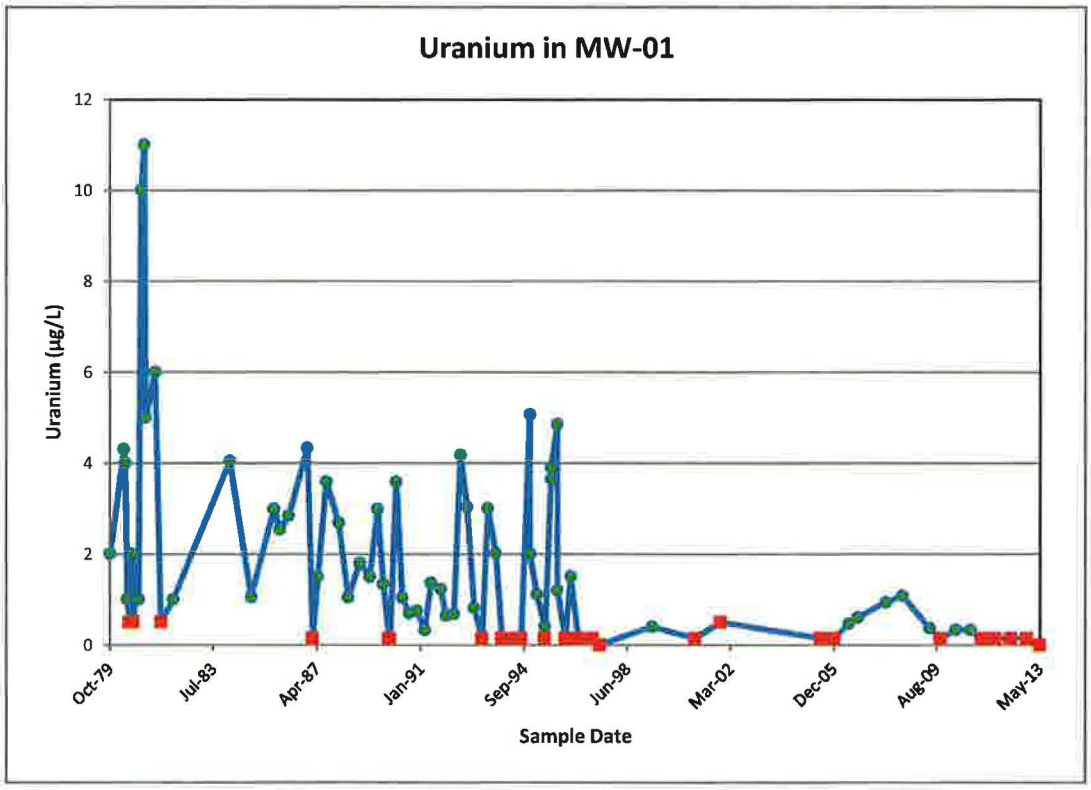


Detected Values

Non-Detected Values

Time concentration plots for MW-01

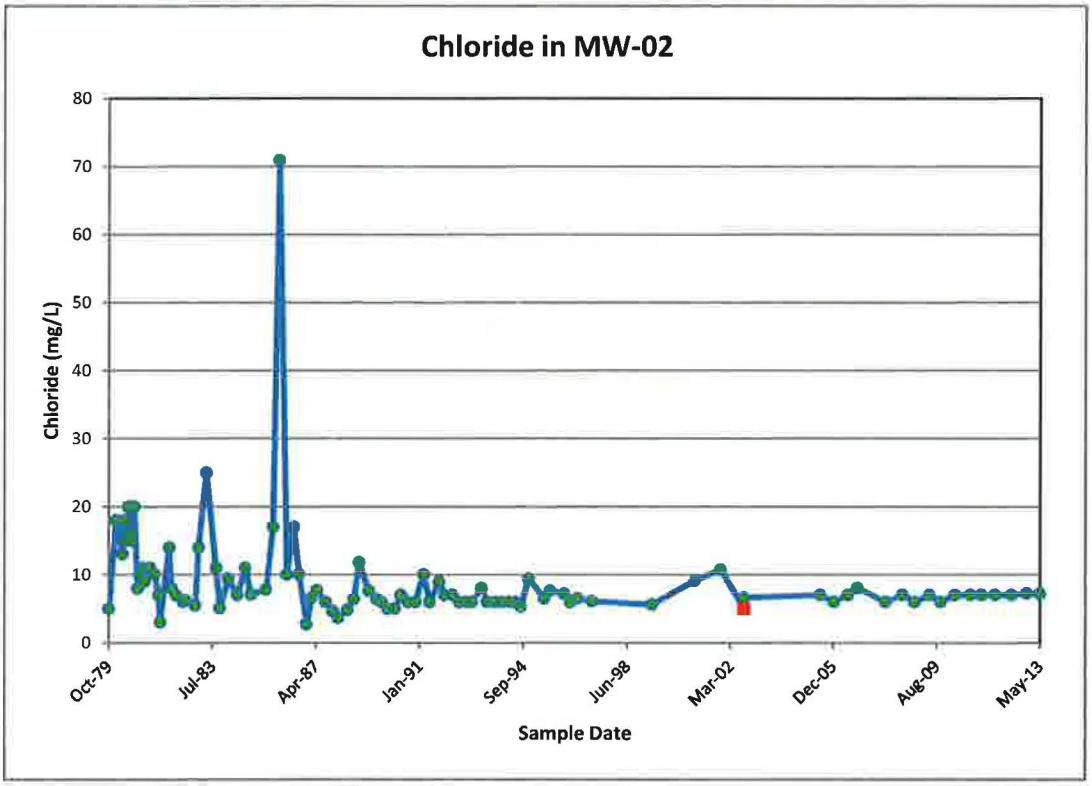


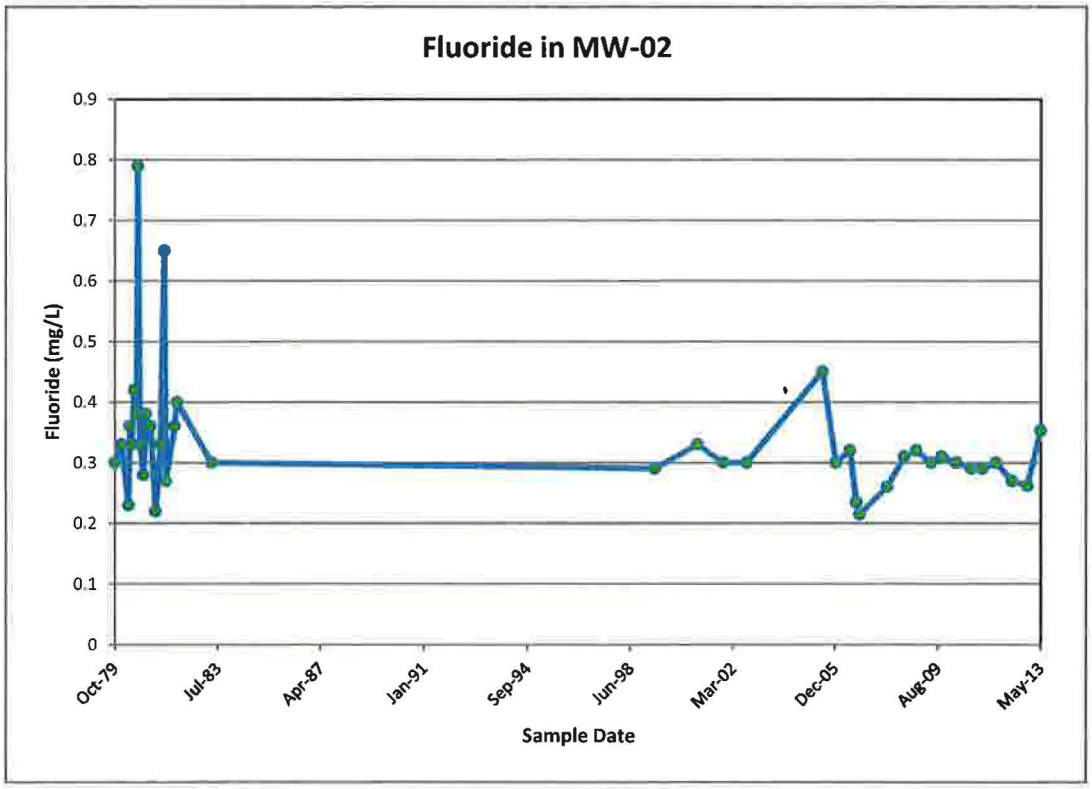


Detected Values

Non-Detected Values

Time concentration plots for MW-02

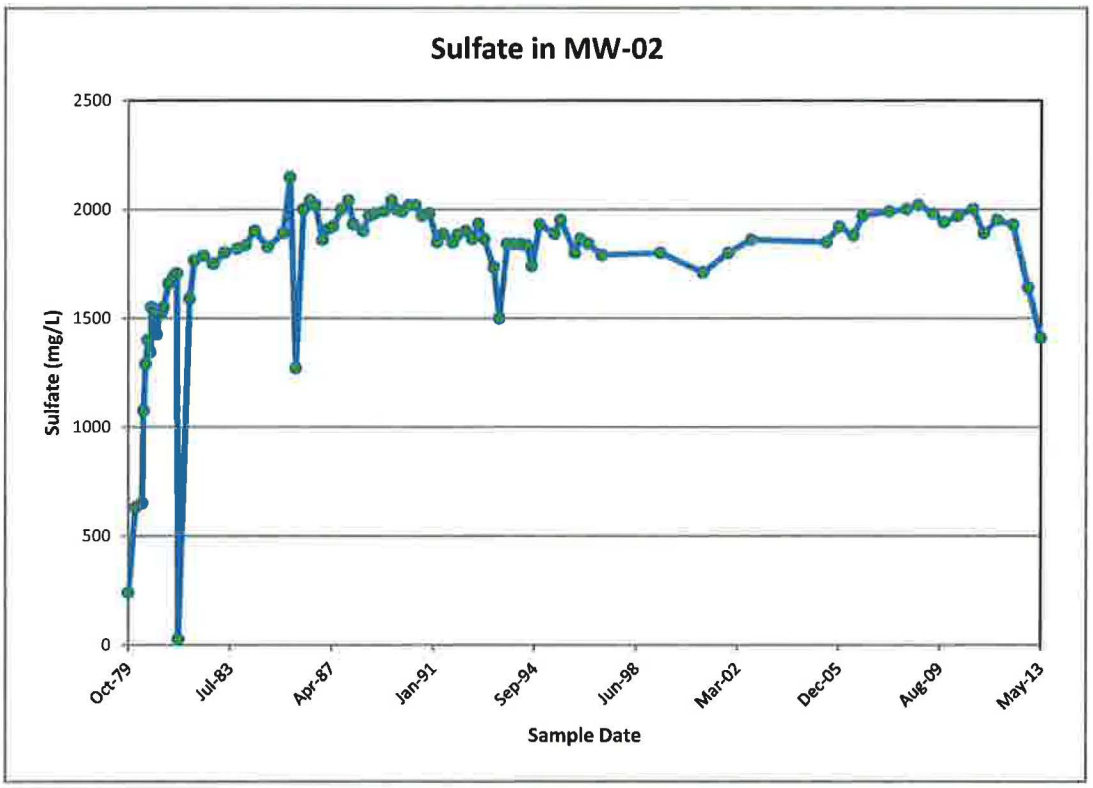


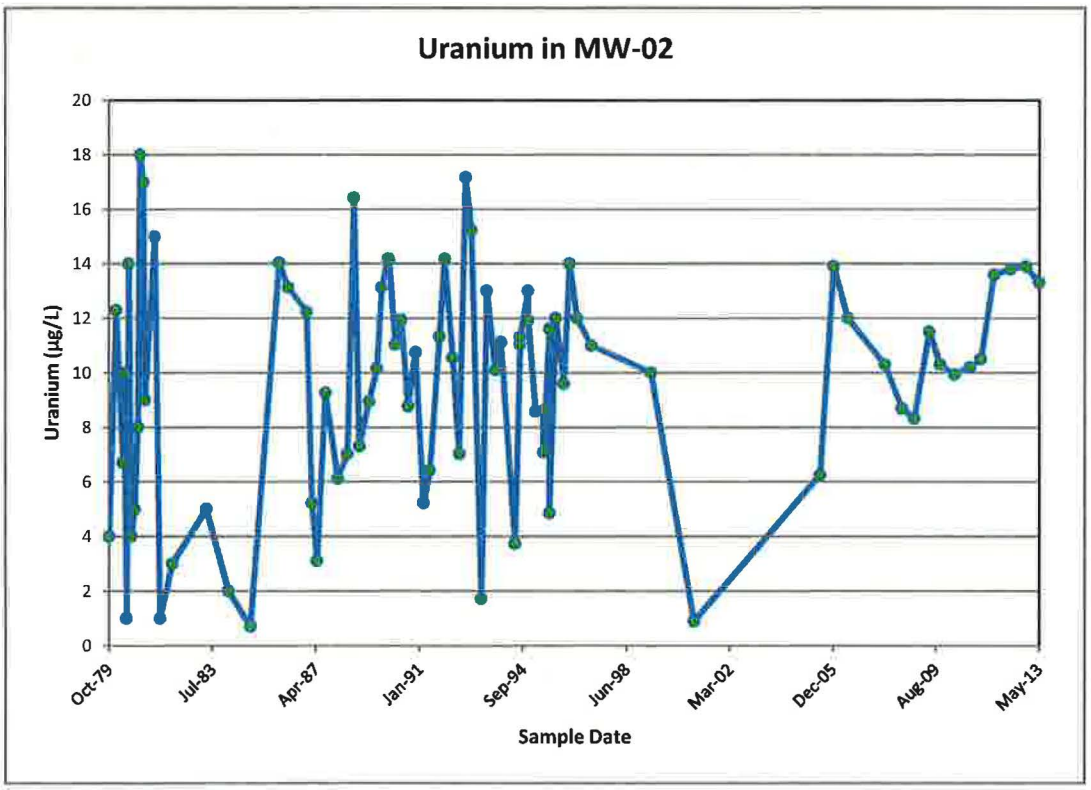


Detected Values

Non-Detected Values

Time concentration plots for MW-02

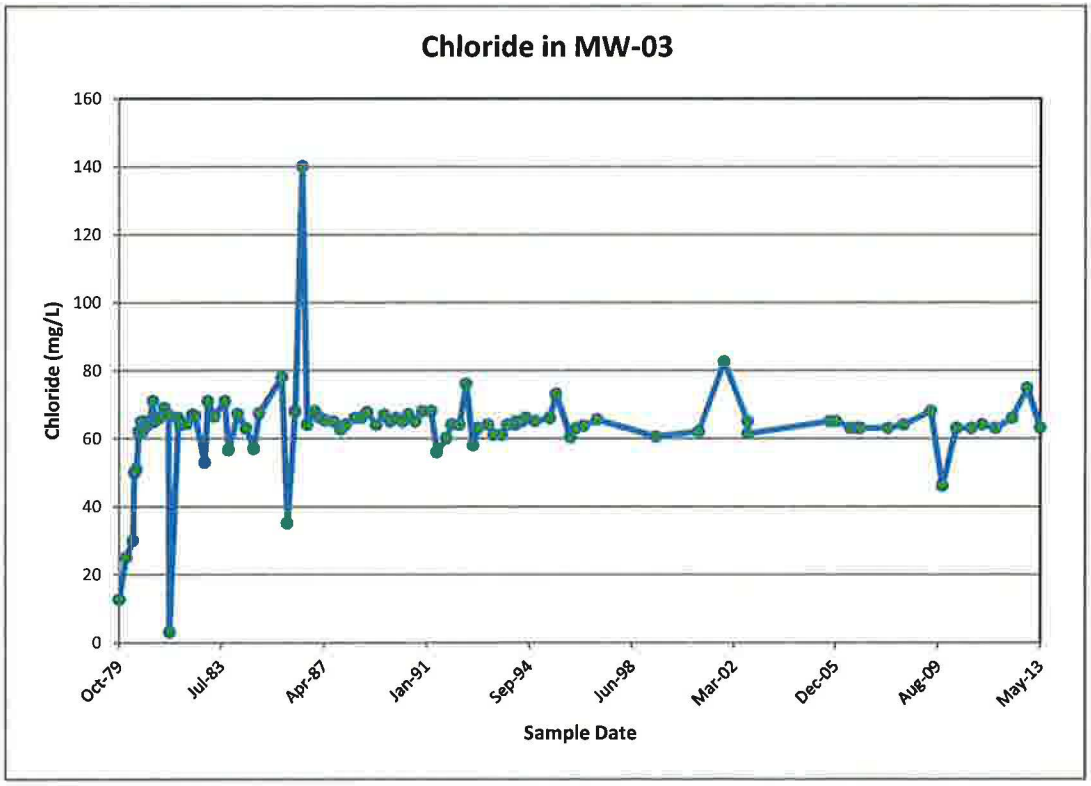


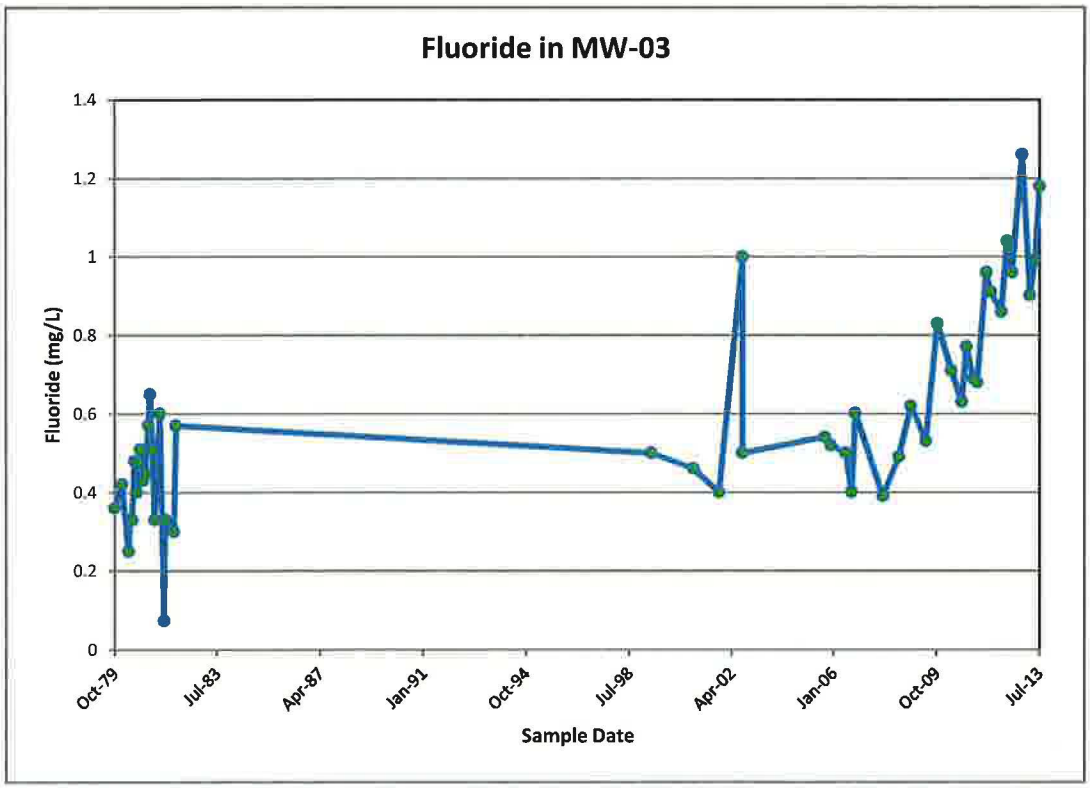


Detected Values

Non-Detected Values

Time concentration plots for MW-03

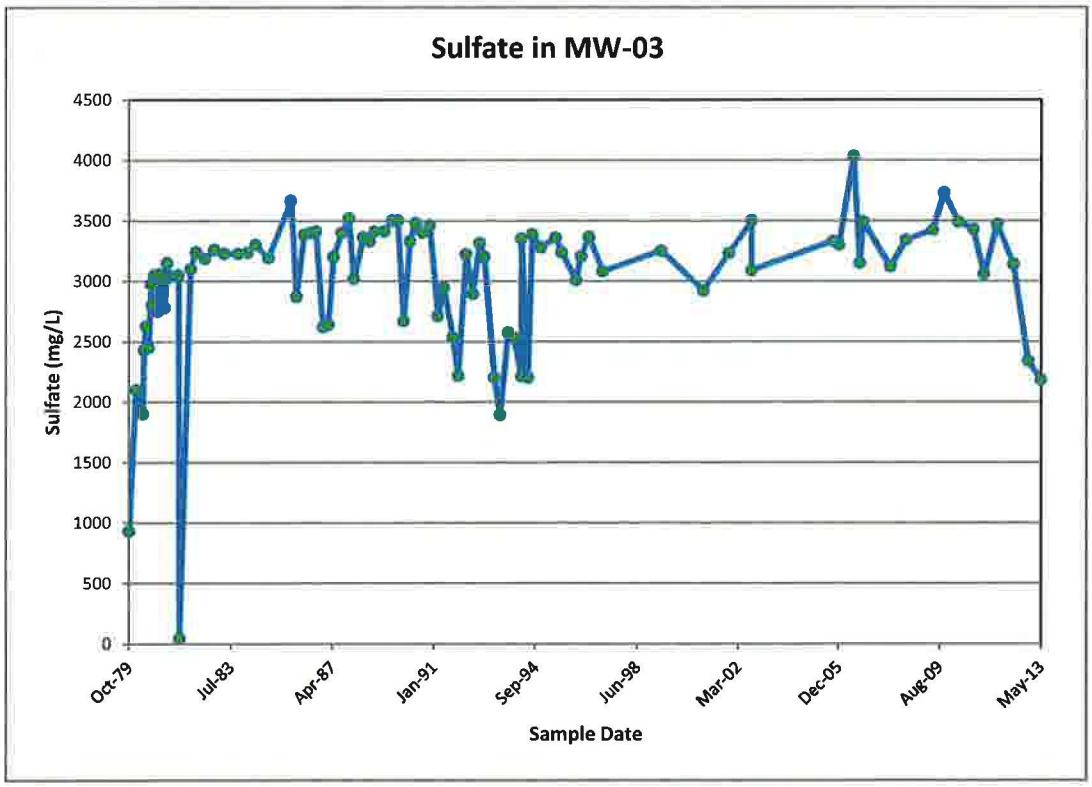


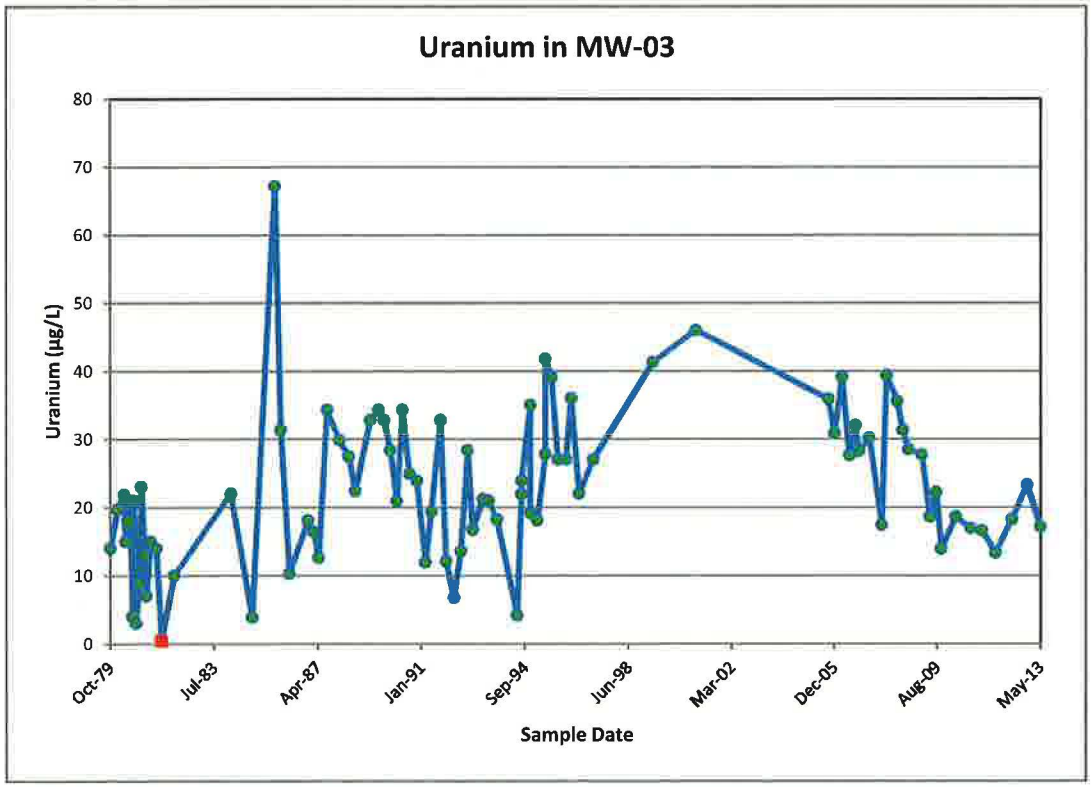


Detected Values

Non-Detected Values

Time concentration plots for MW-03





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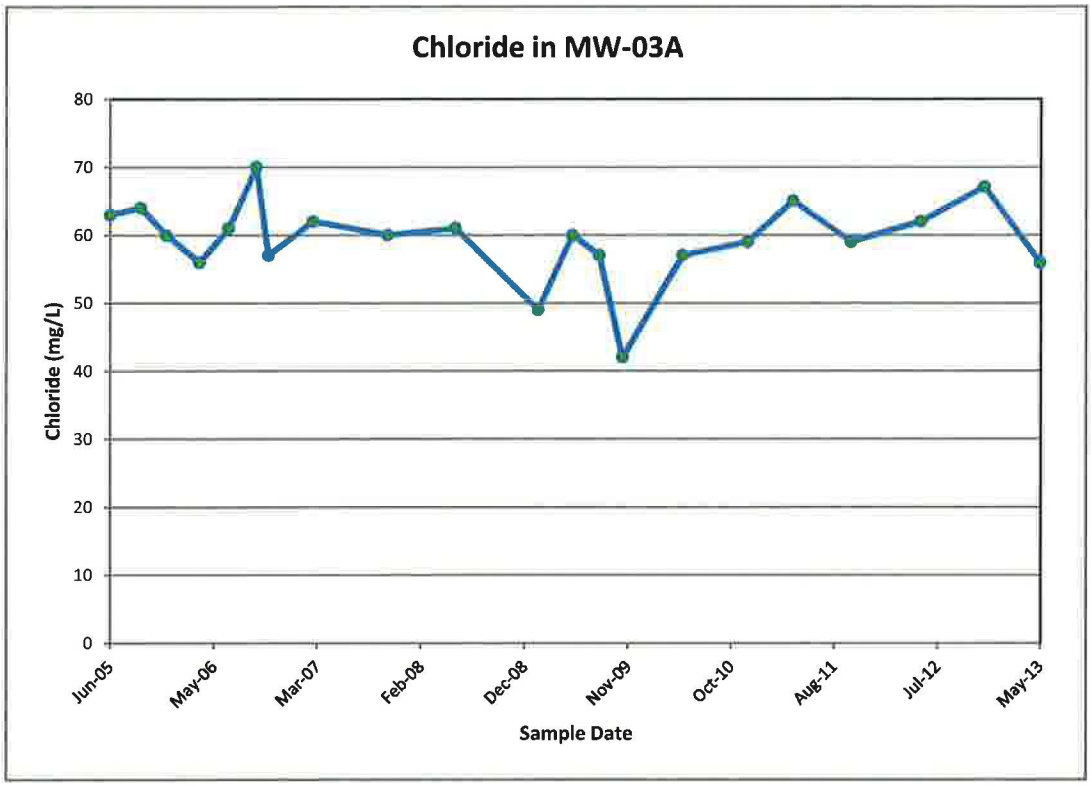
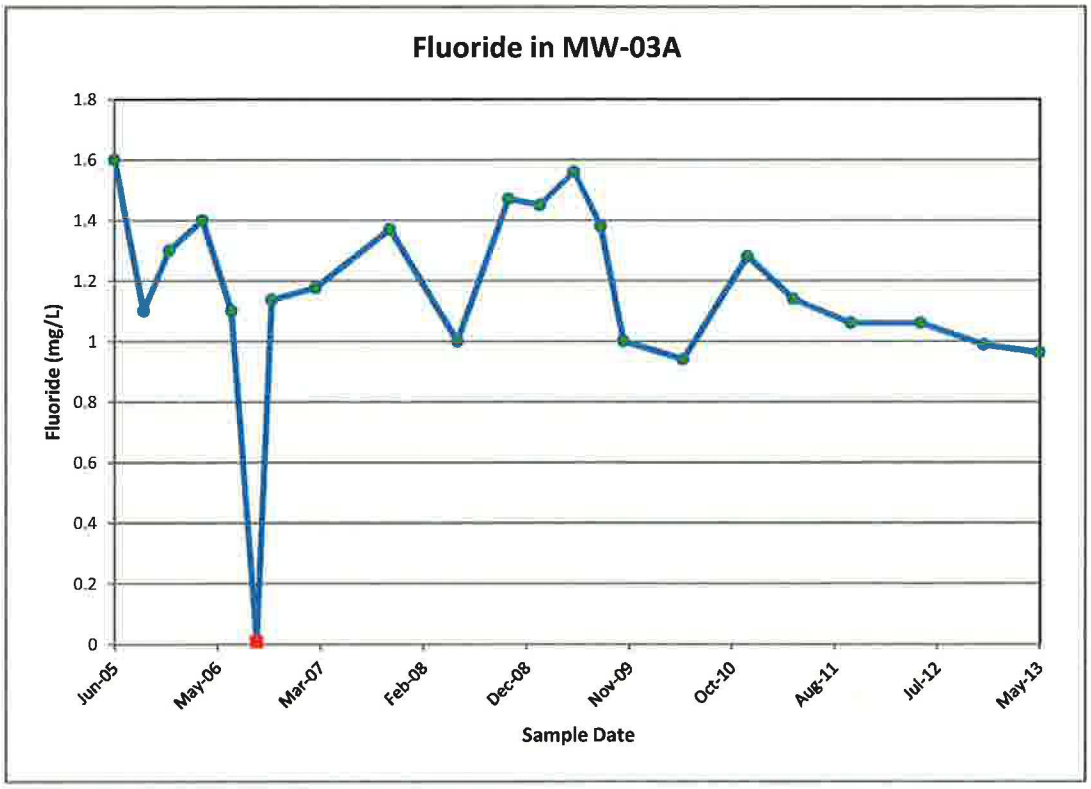
Time concentration plots for MW-03A





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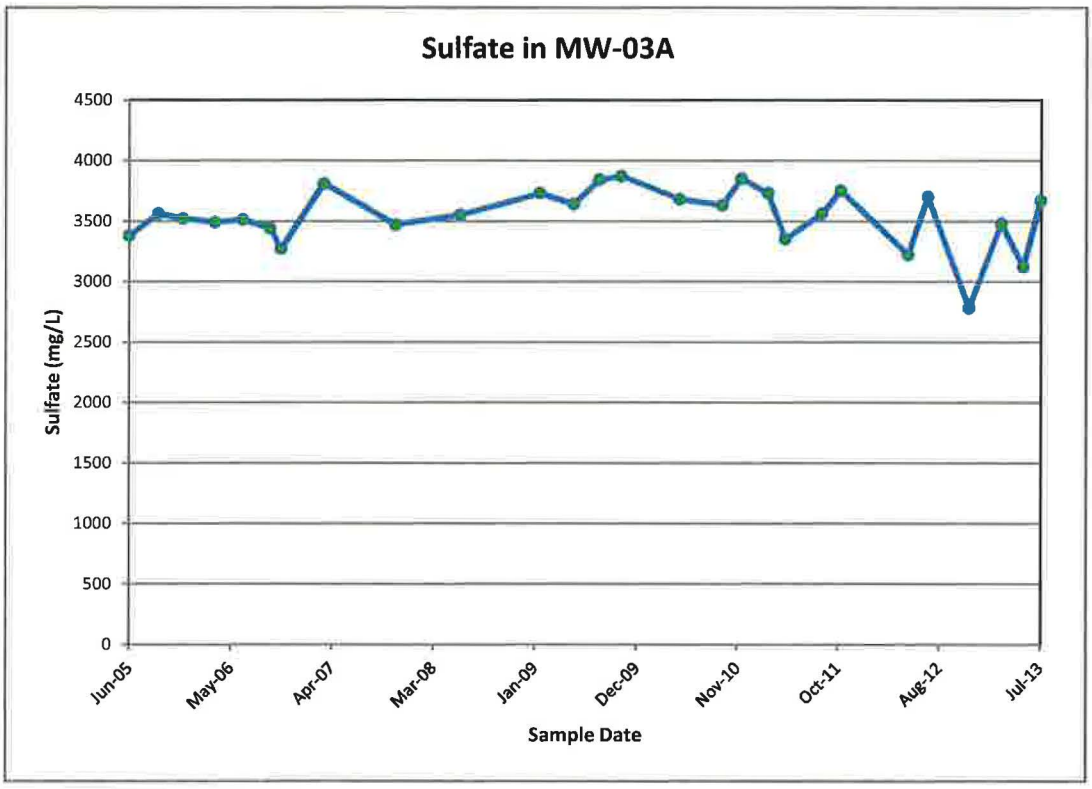
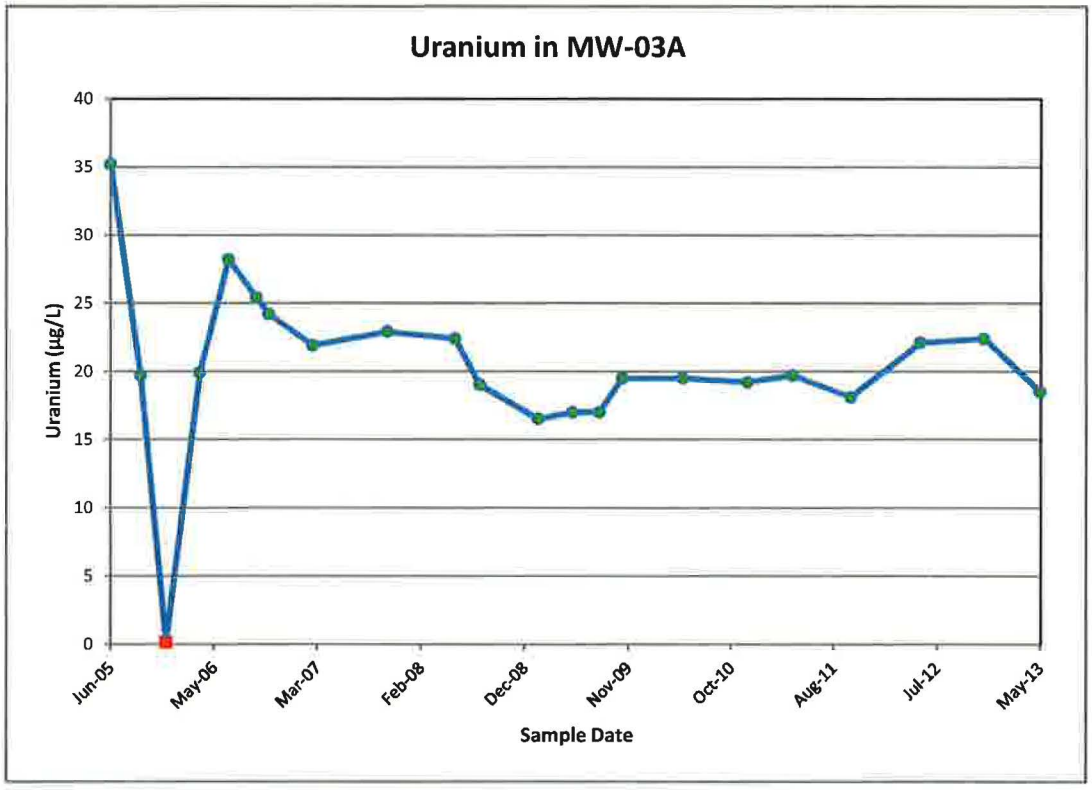
Time concentration plots for MW-03A

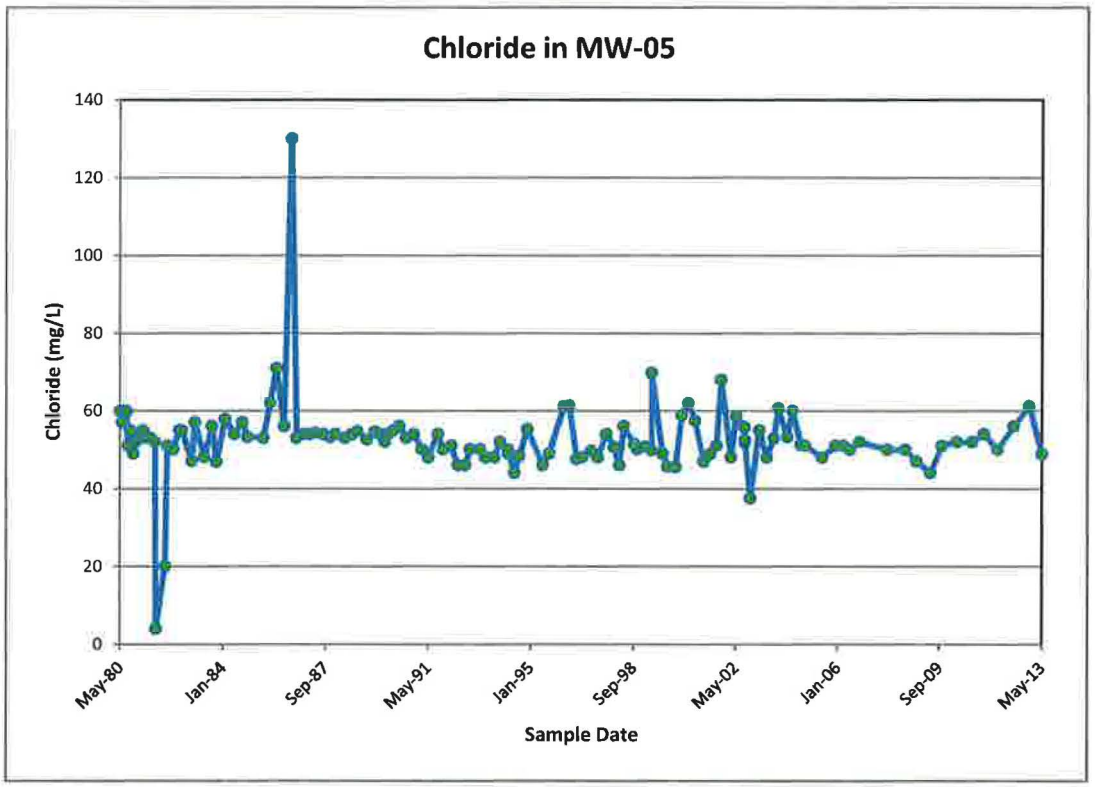


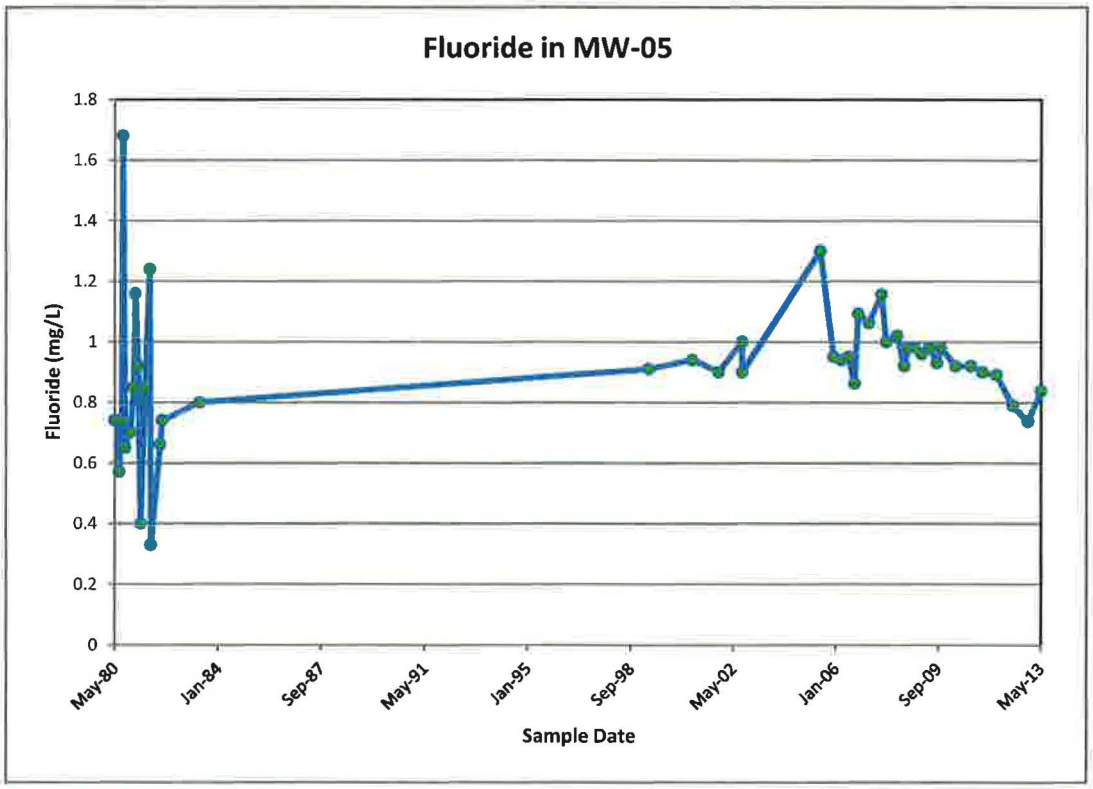


Detected Values

Non-Detected Values

Time concentration plots for MW-05





Detected Values

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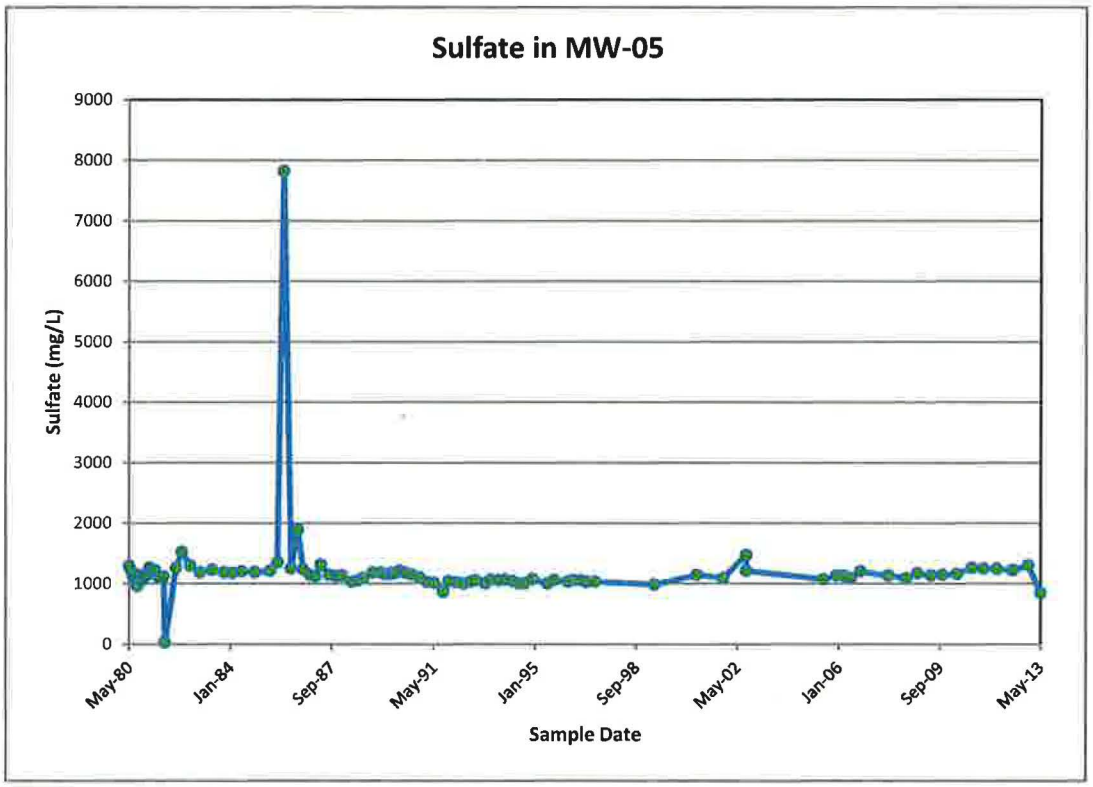
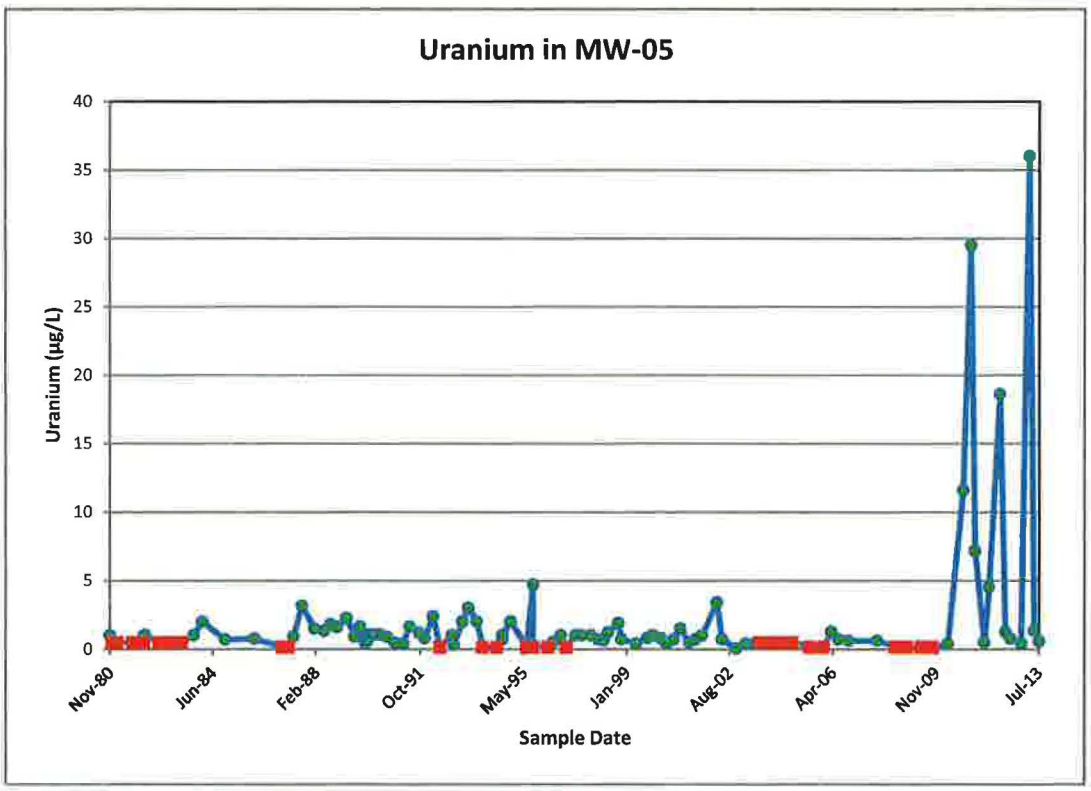
Time concentration plots for MW-05

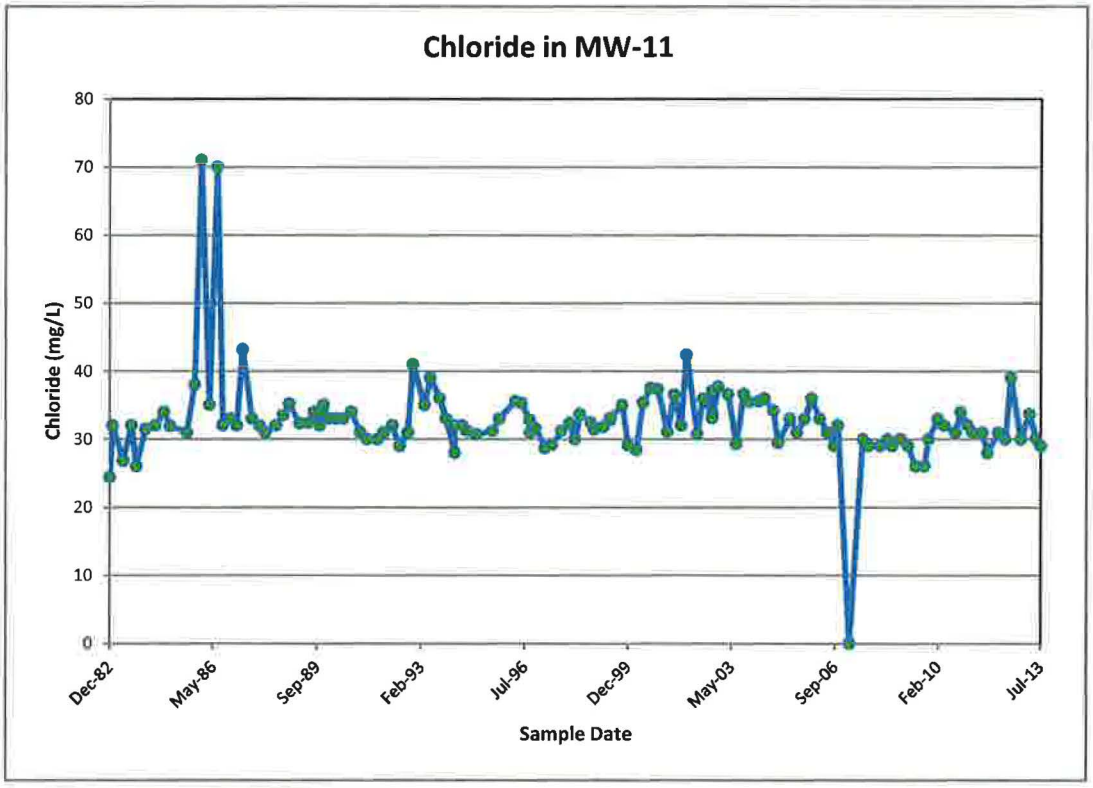


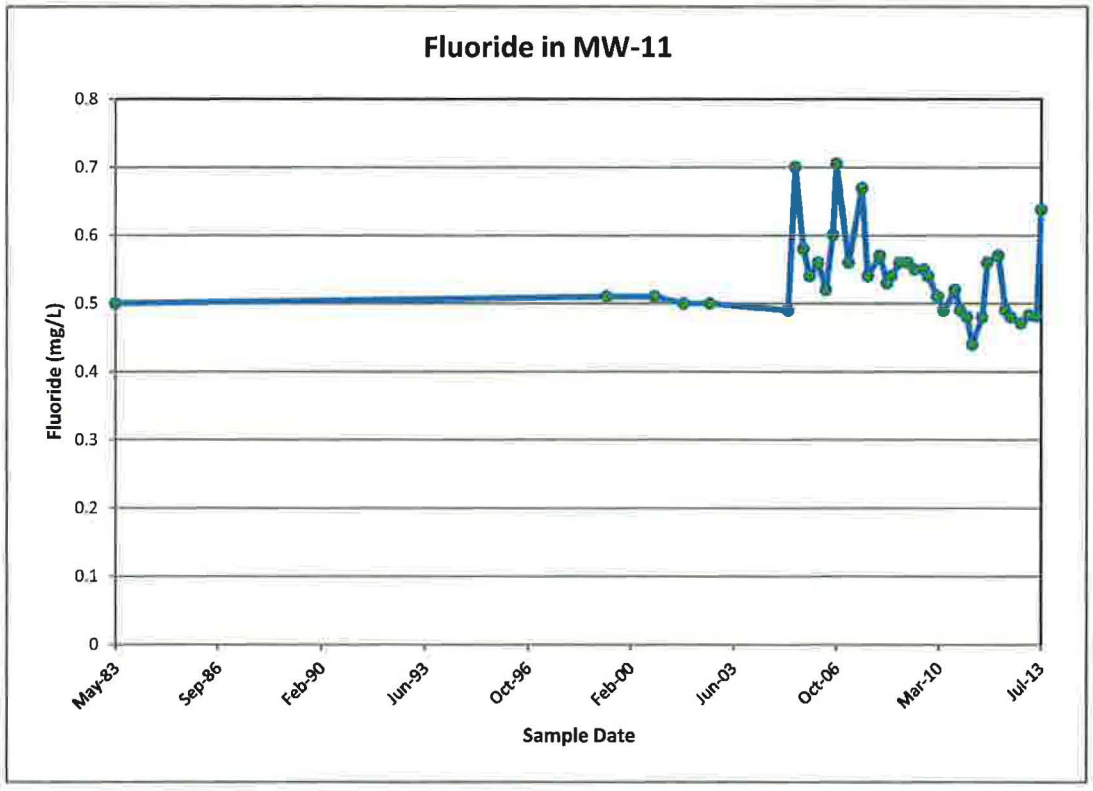


Detected Values

Non-Detected Values

Time concentration plots for MW-11





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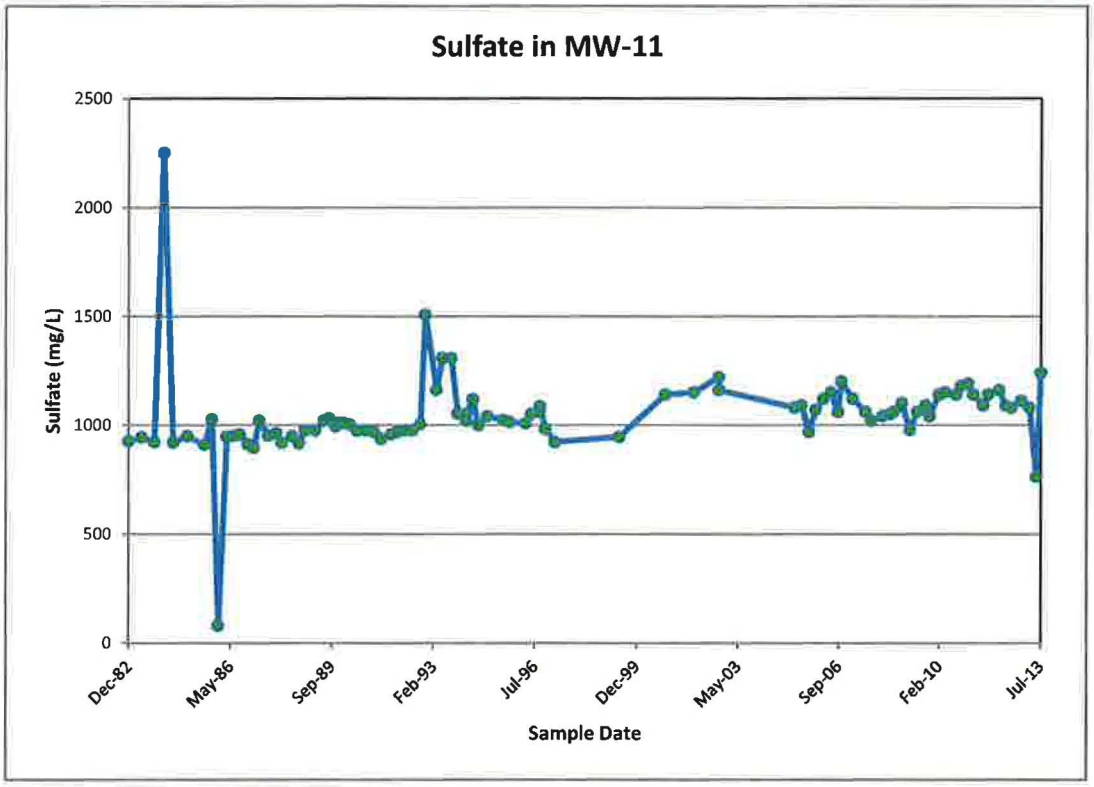
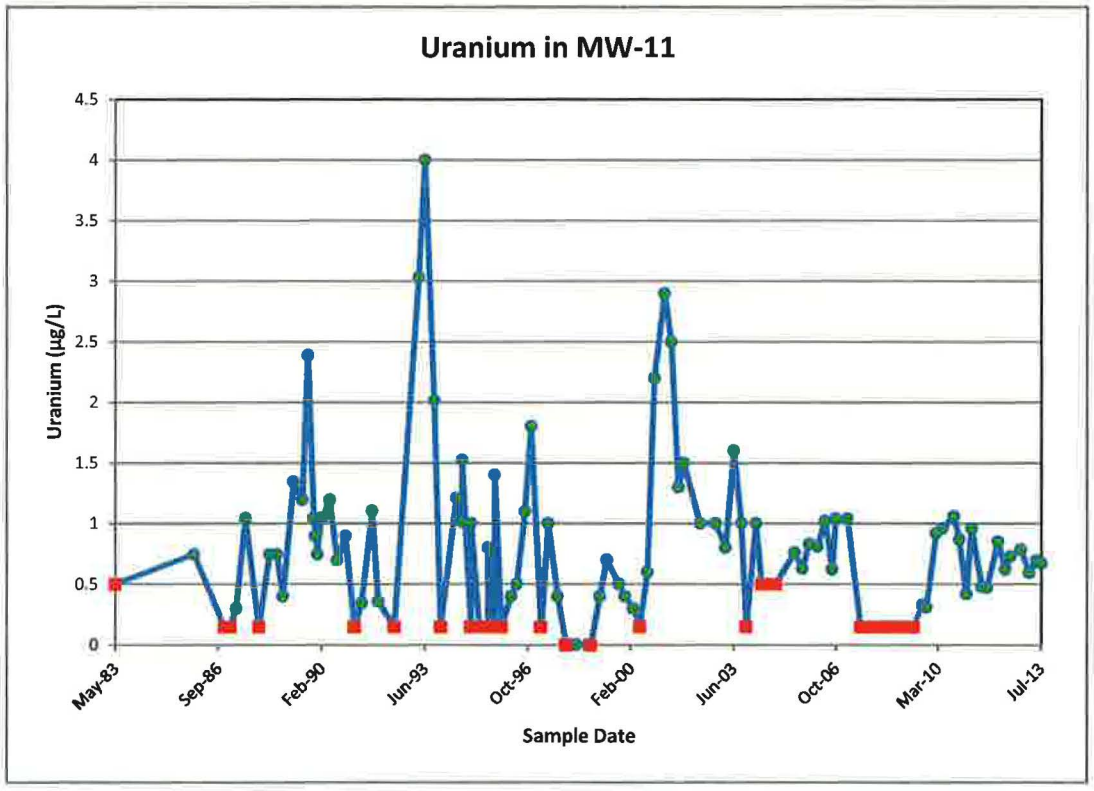
Time concentration plots for MW-11





Detected Values

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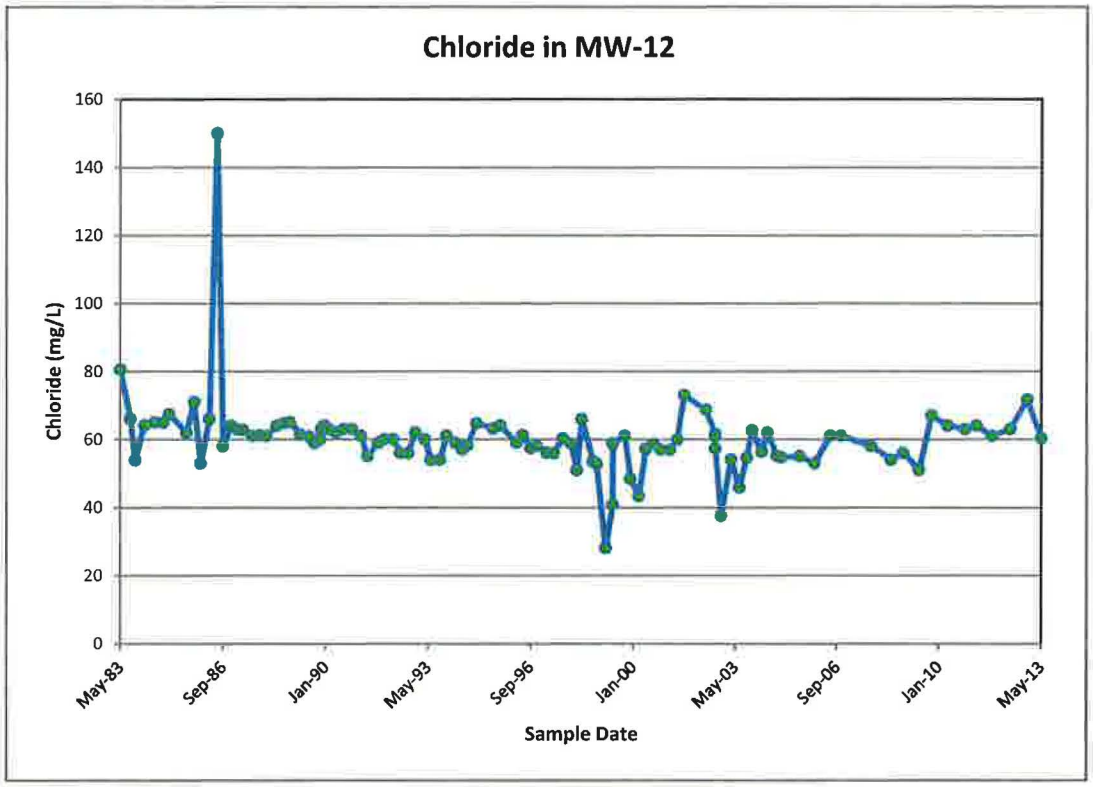
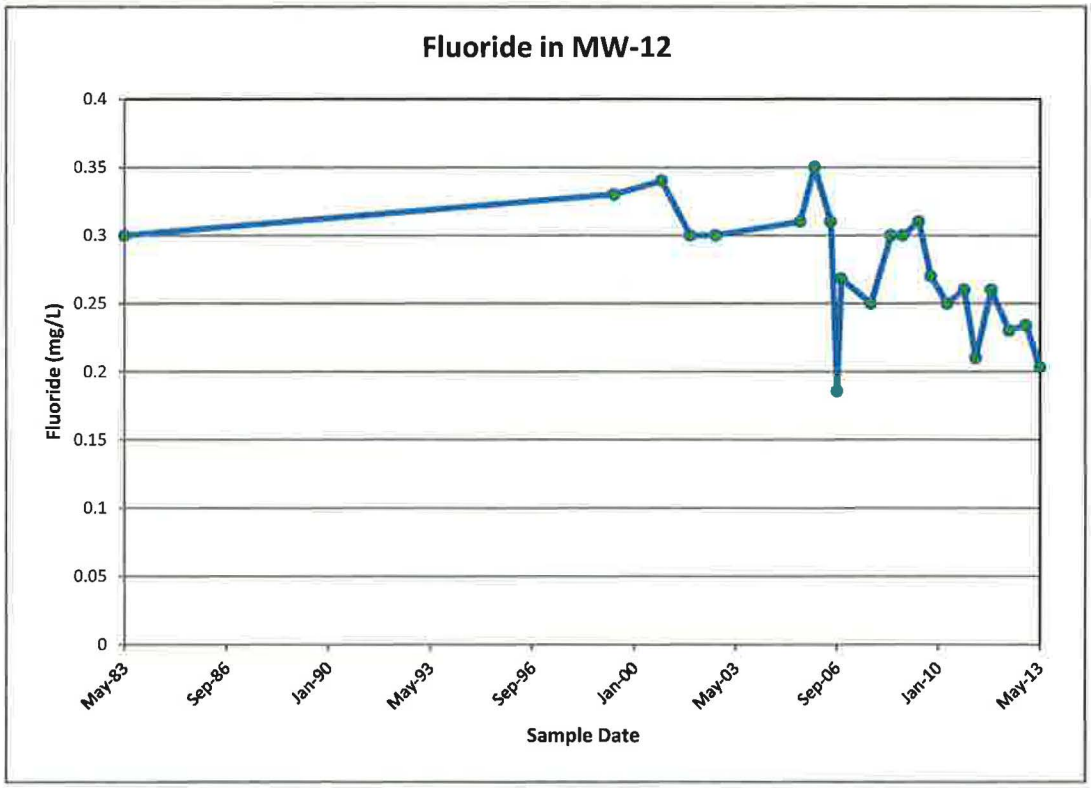
Time concentration plots for MW-12





Detected Values

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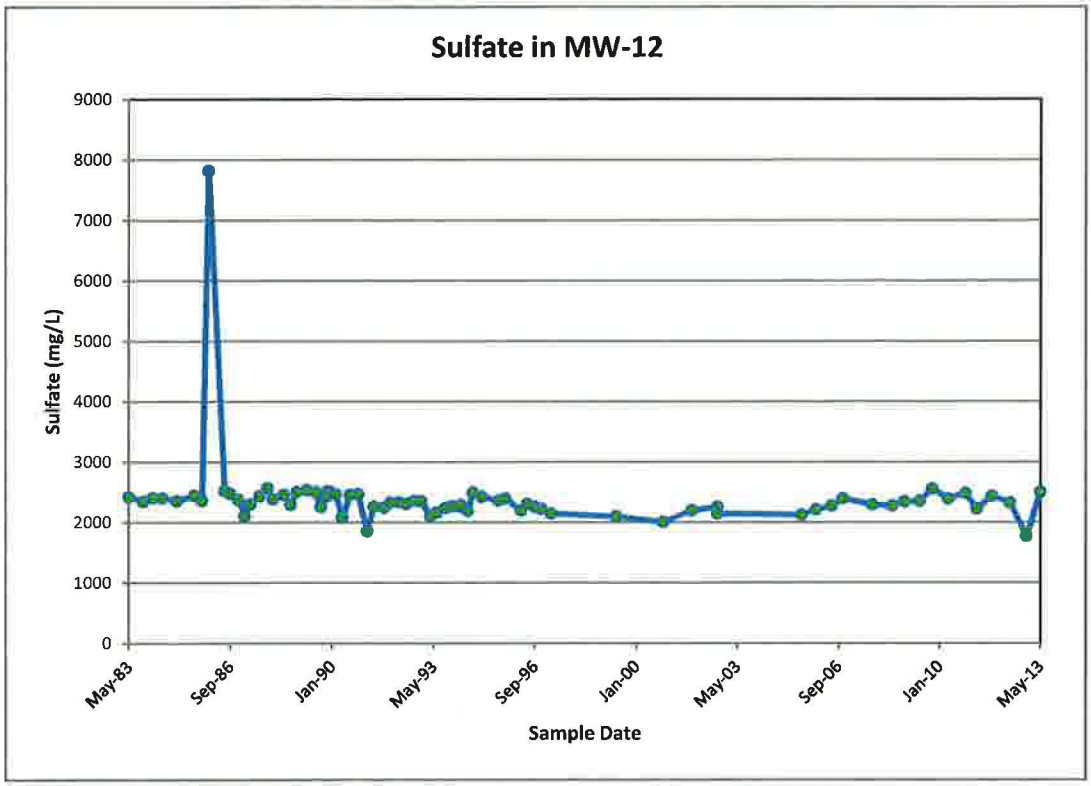
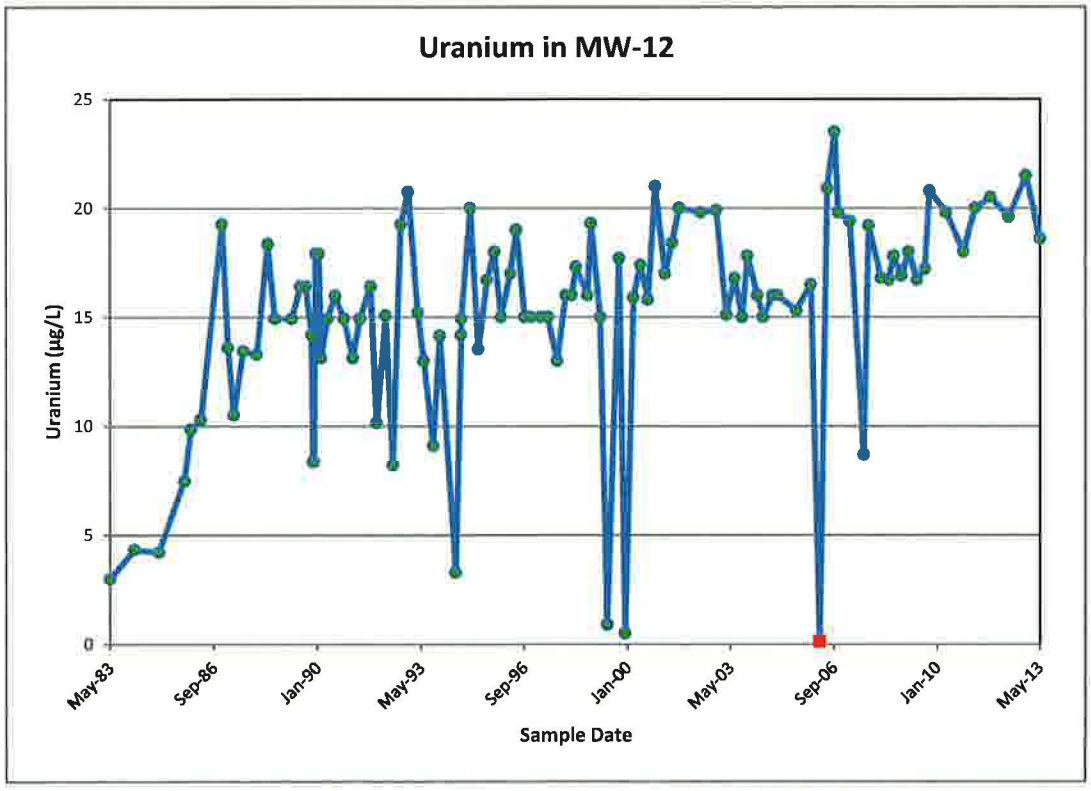
Time concentration plots for MW-12

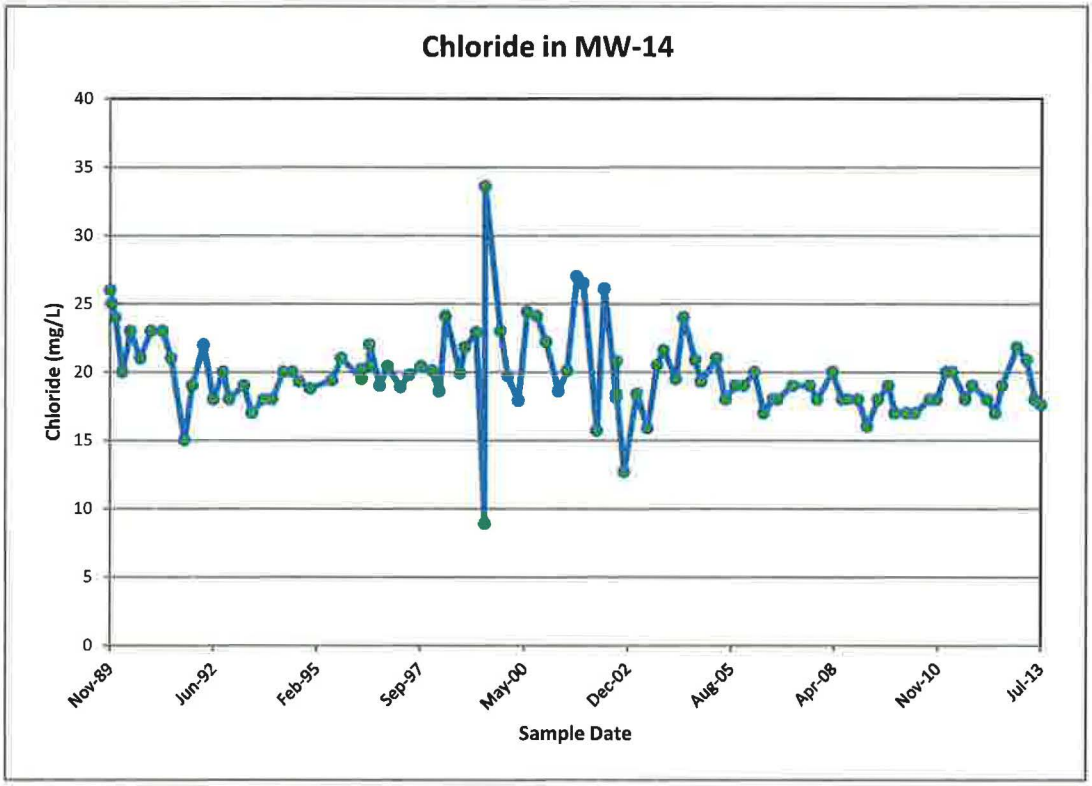


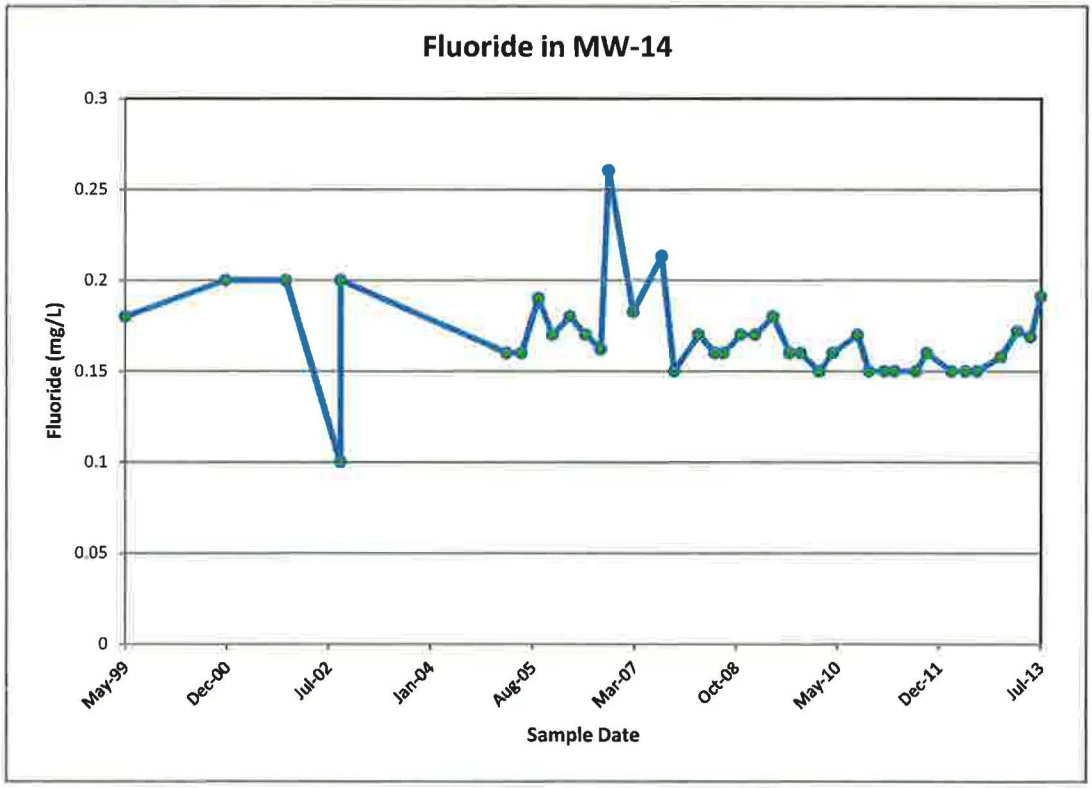


Detected Values

Non-Detected Values

Time concentration plots for MW-14

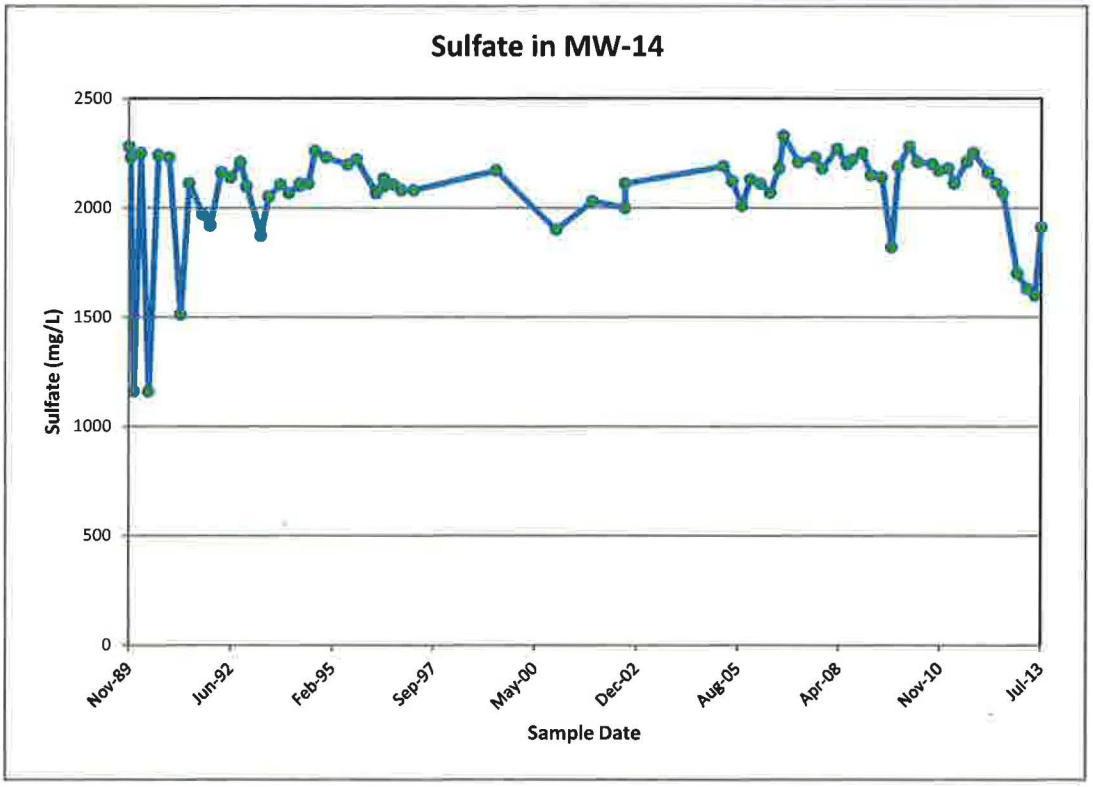


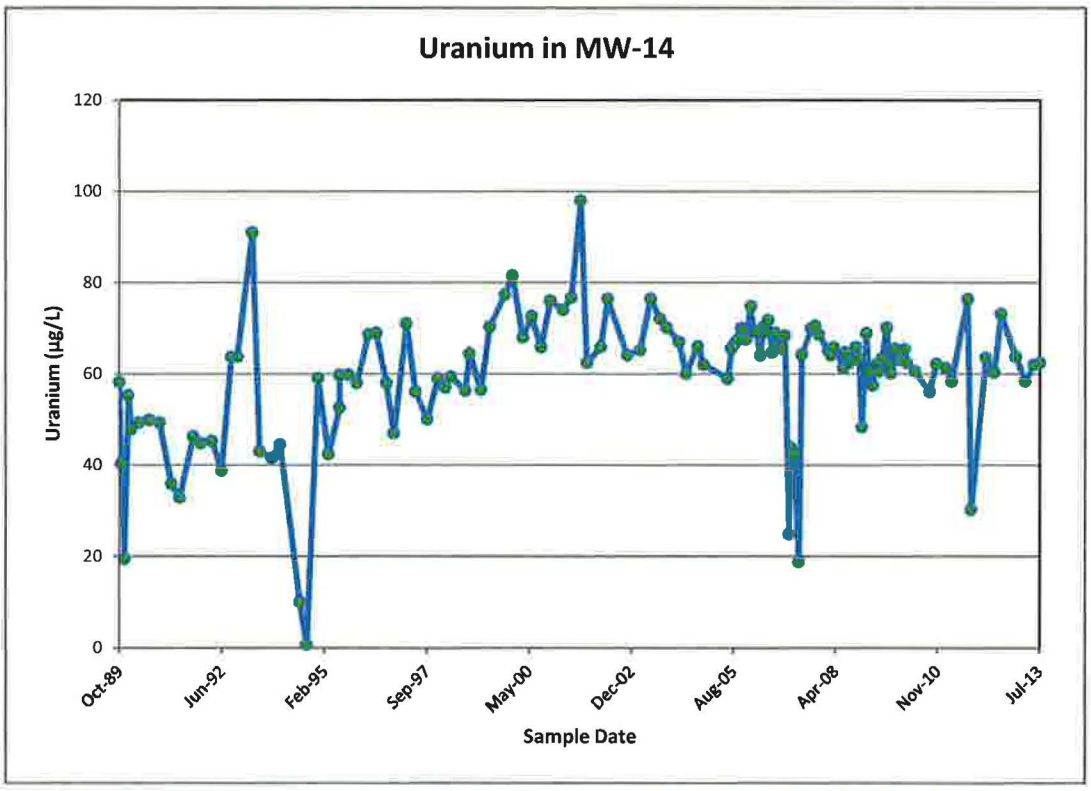


Detected Values

Non-Detected Values

Time concentration plots for MW-14

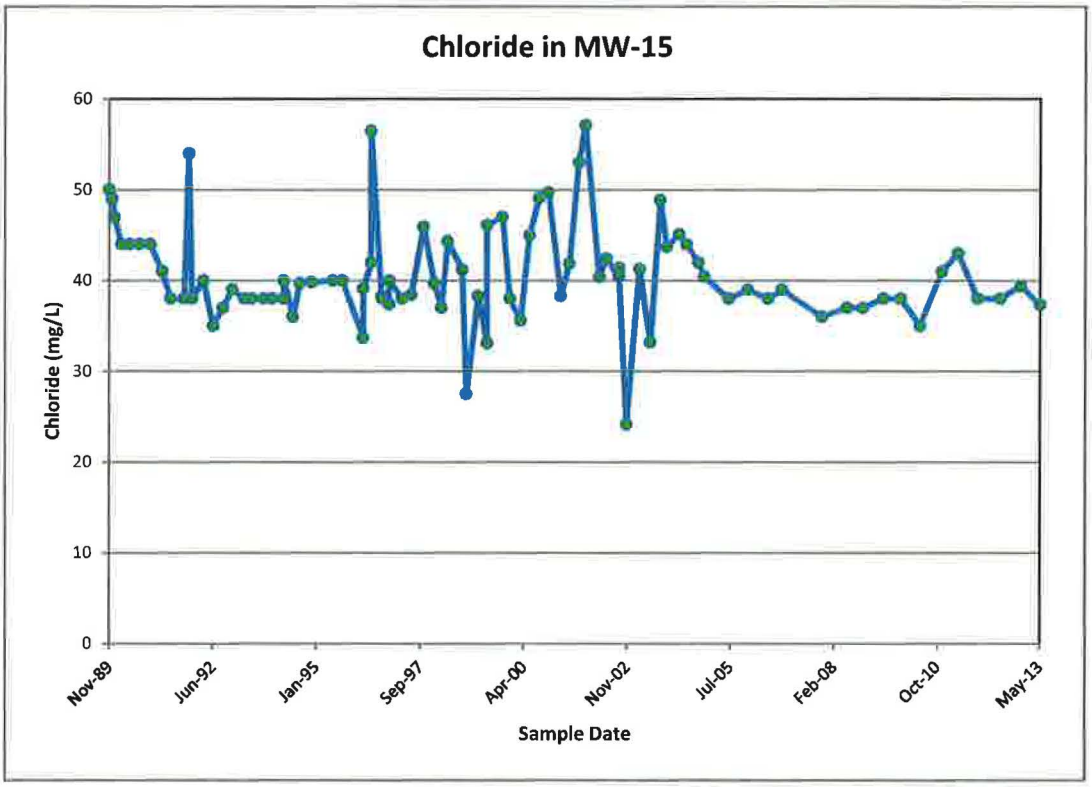


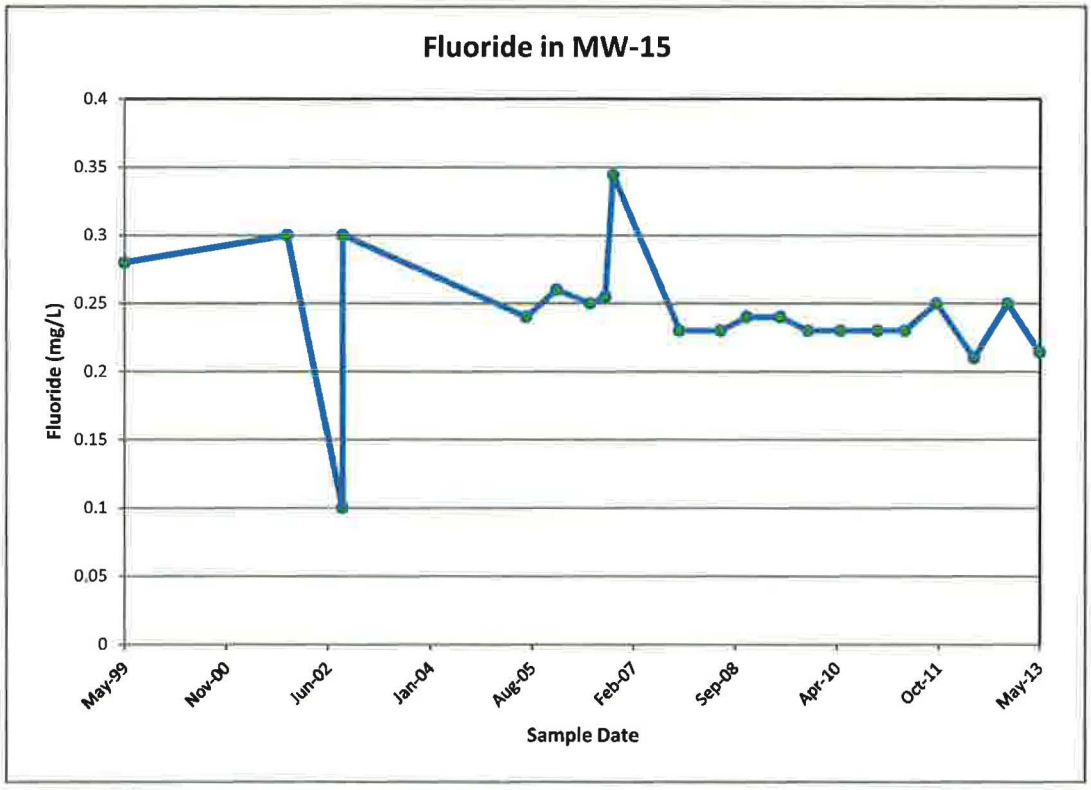


Detected Values

Non-Detected Values

Time concentration plots for MW-15

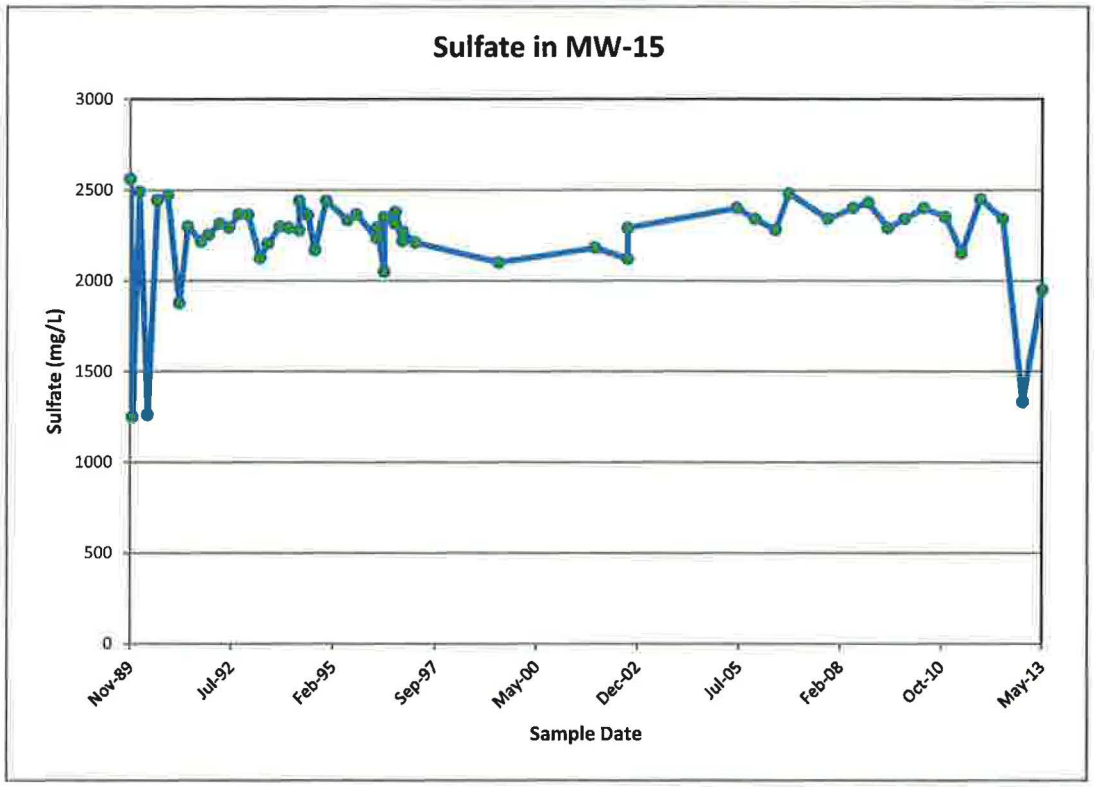


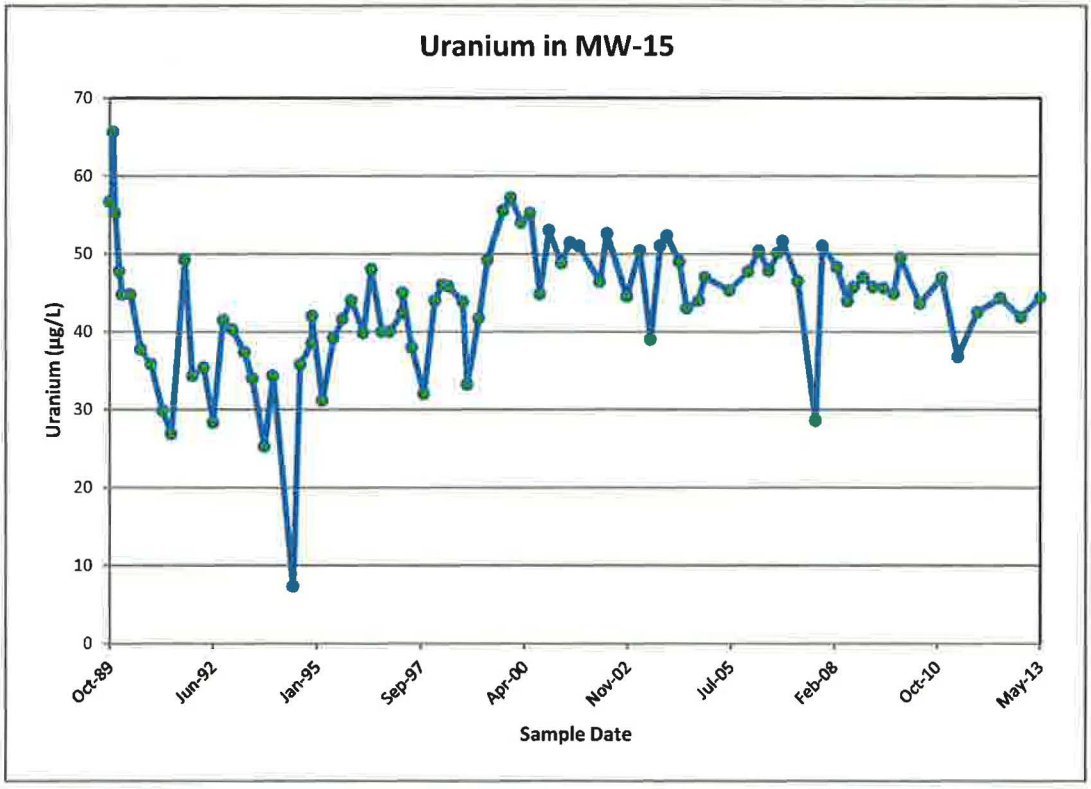


Detected Values

Non-Detected Values

Time concentration plots for MW-15

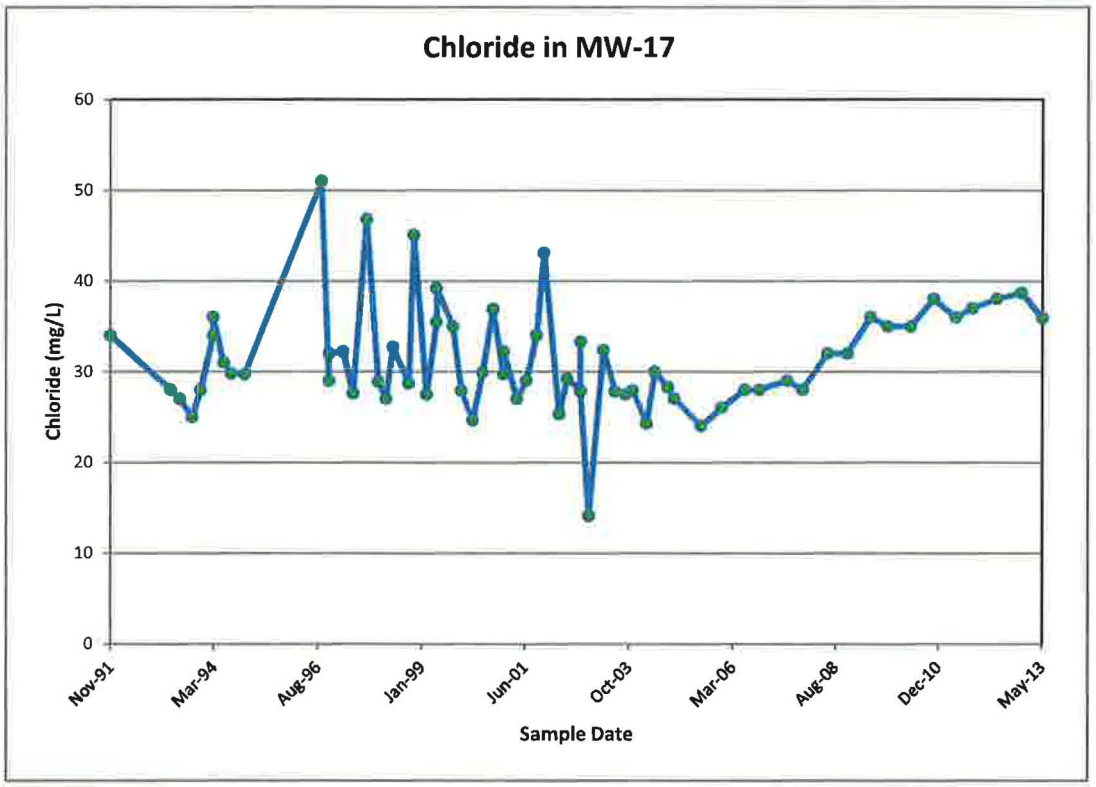


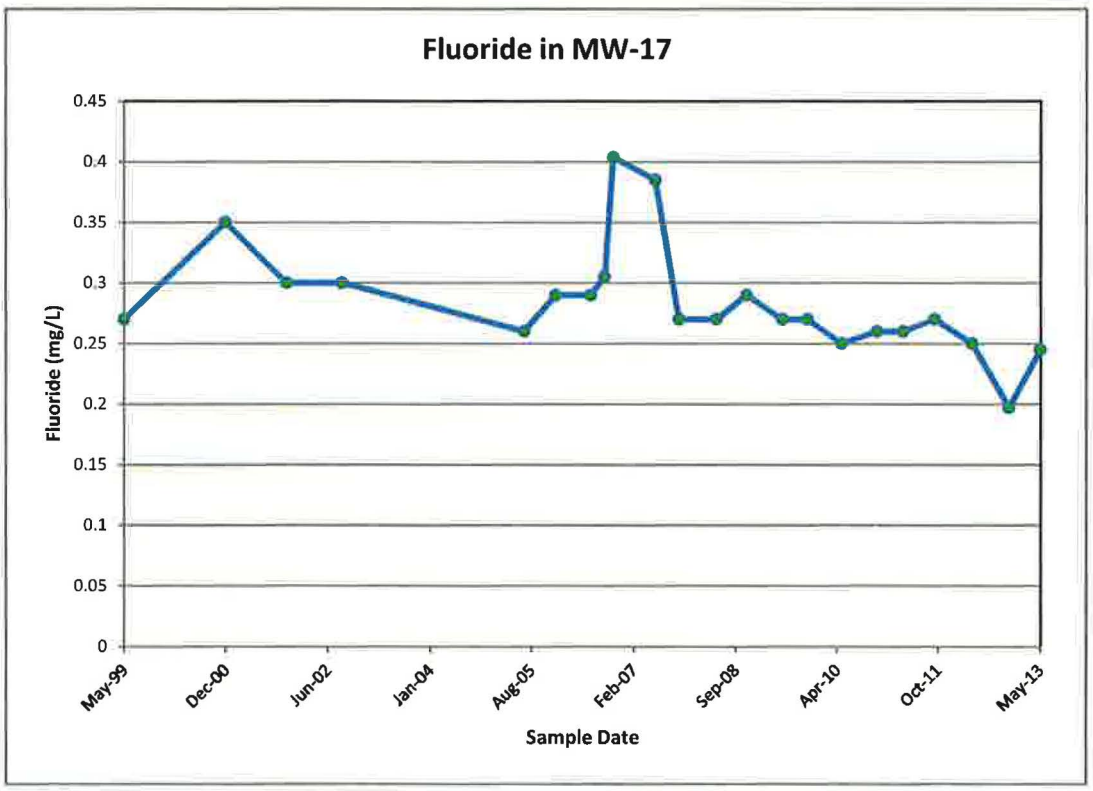


Detected Values

Non-Detected Values

Time concentration plots for MW-17





Detected Values

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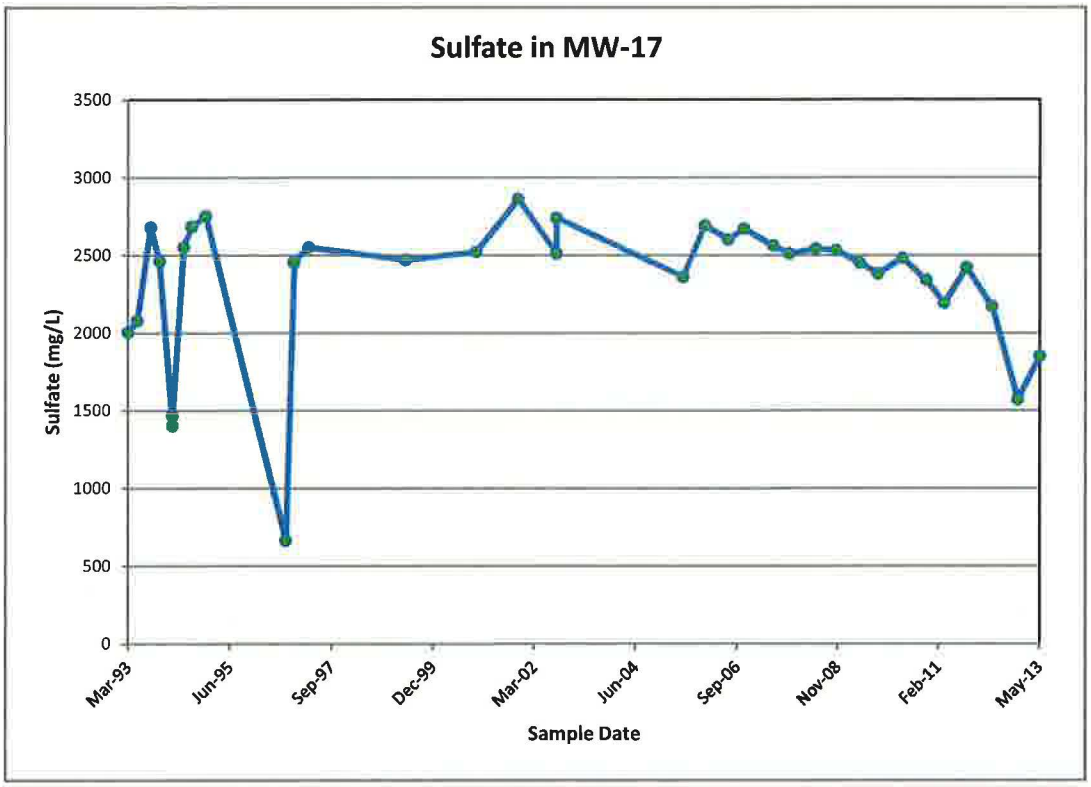
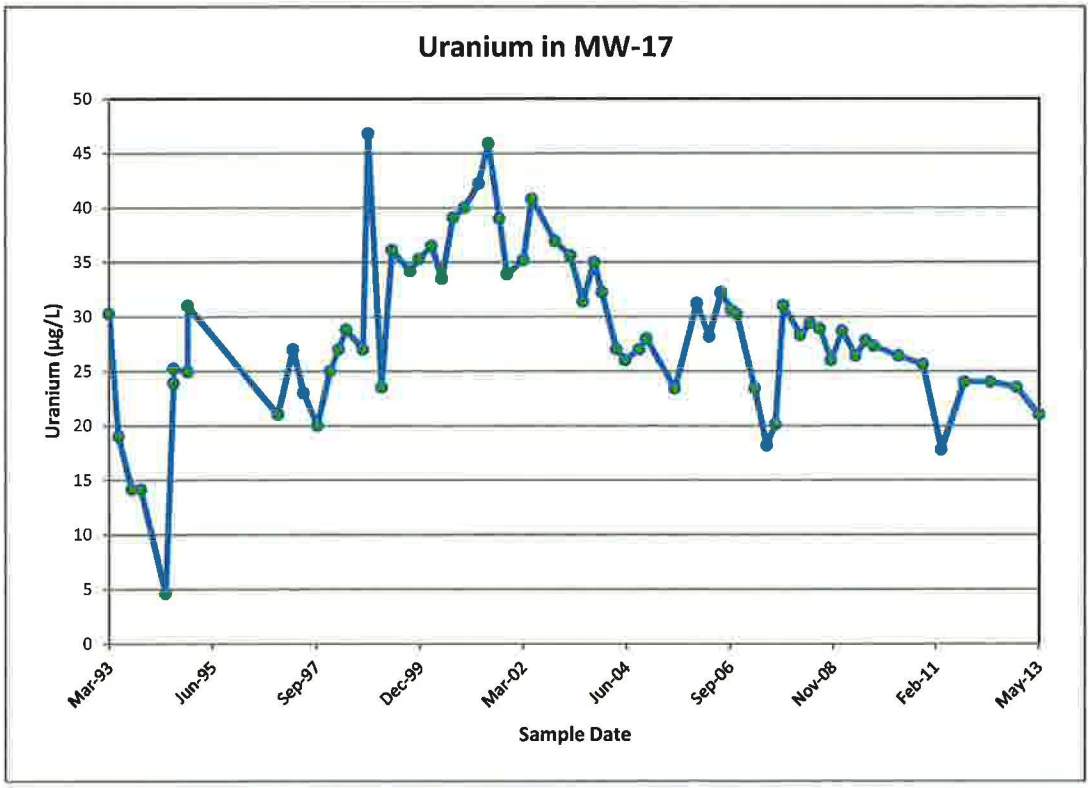
Time concentration plots for MW-17

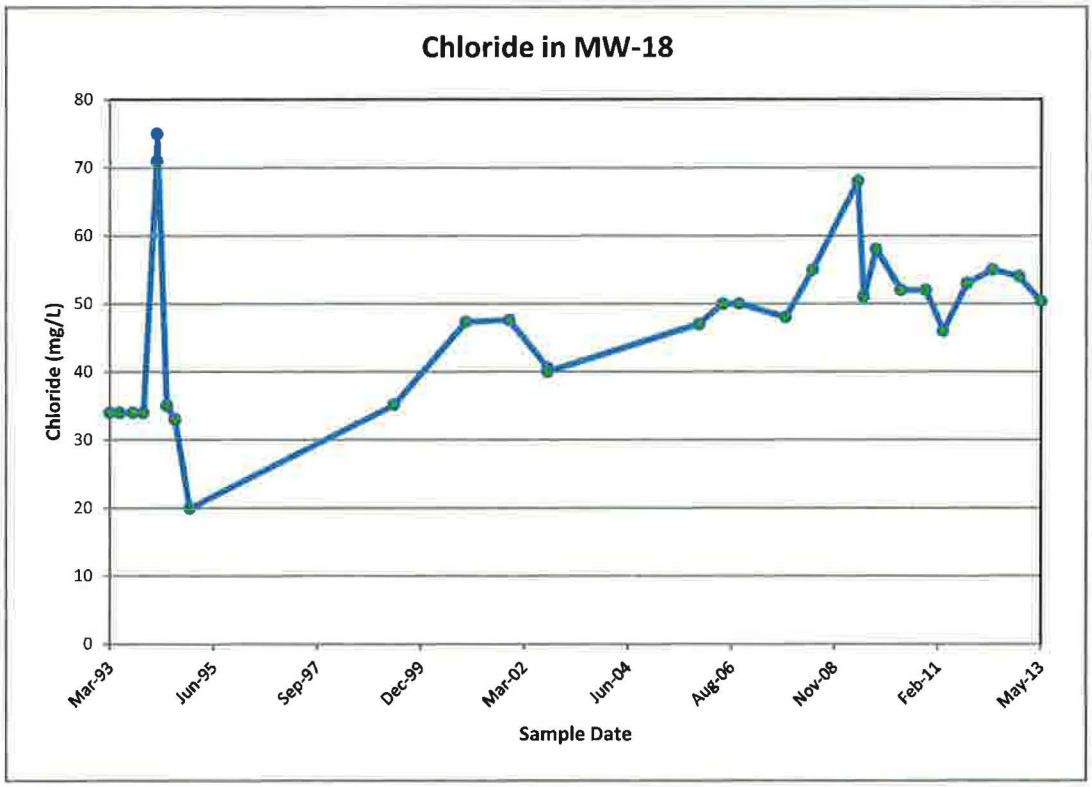


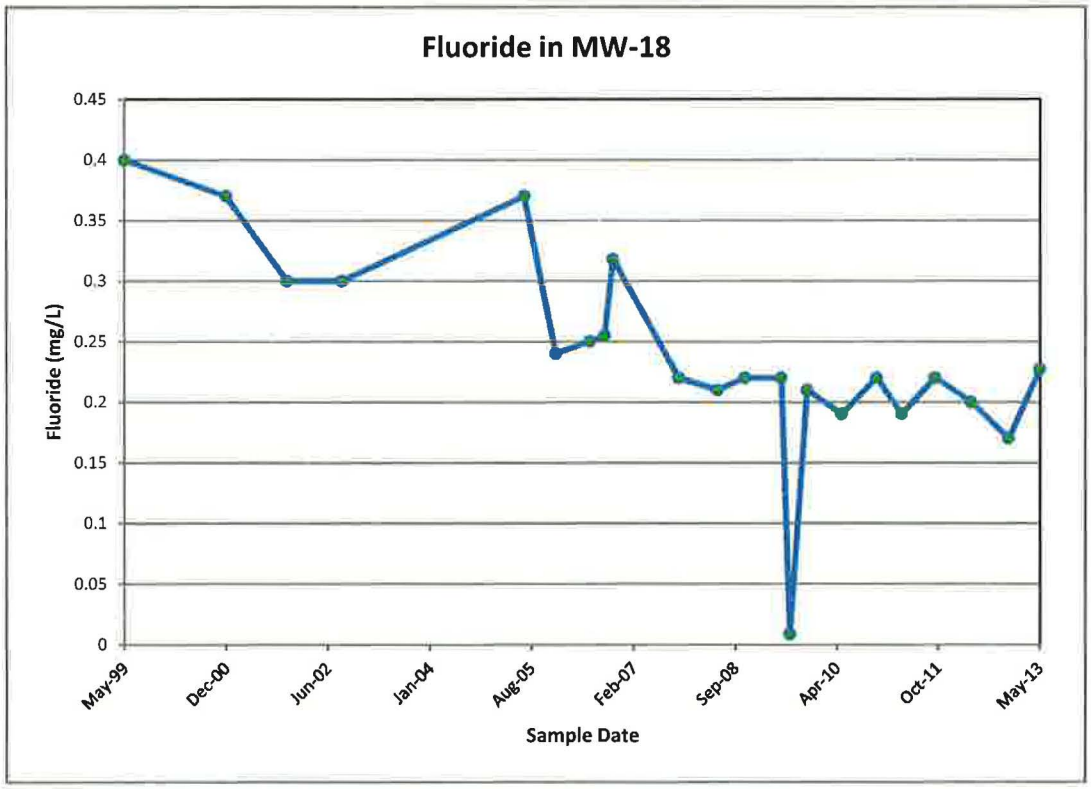


Detected Values

Non-Detected Values

Time concentration plots for MW-18

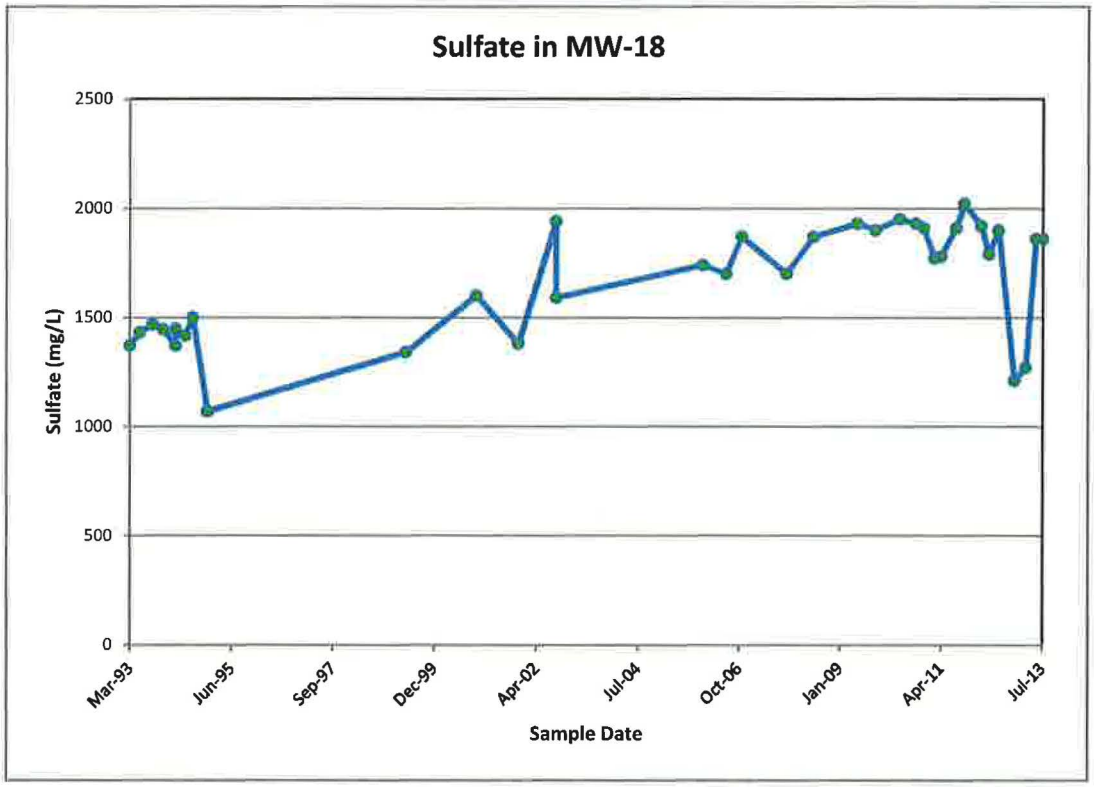


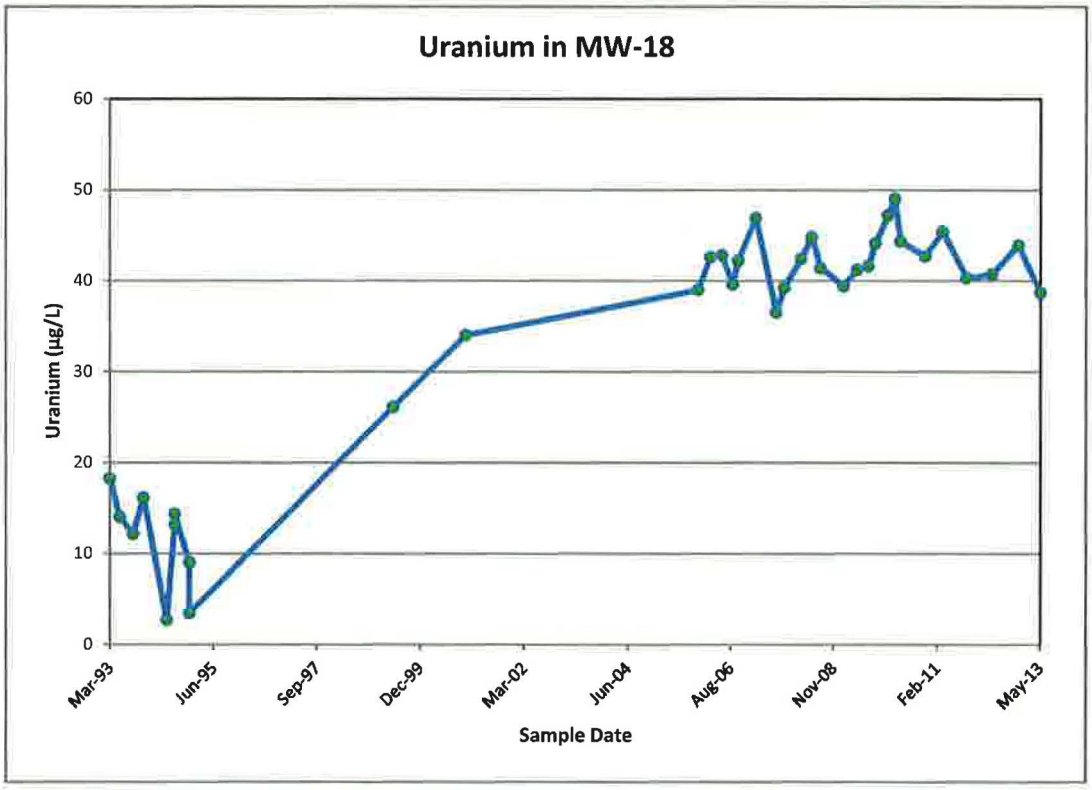


Detected Values

Non-Detected Values

Time concentration plots for MW-18

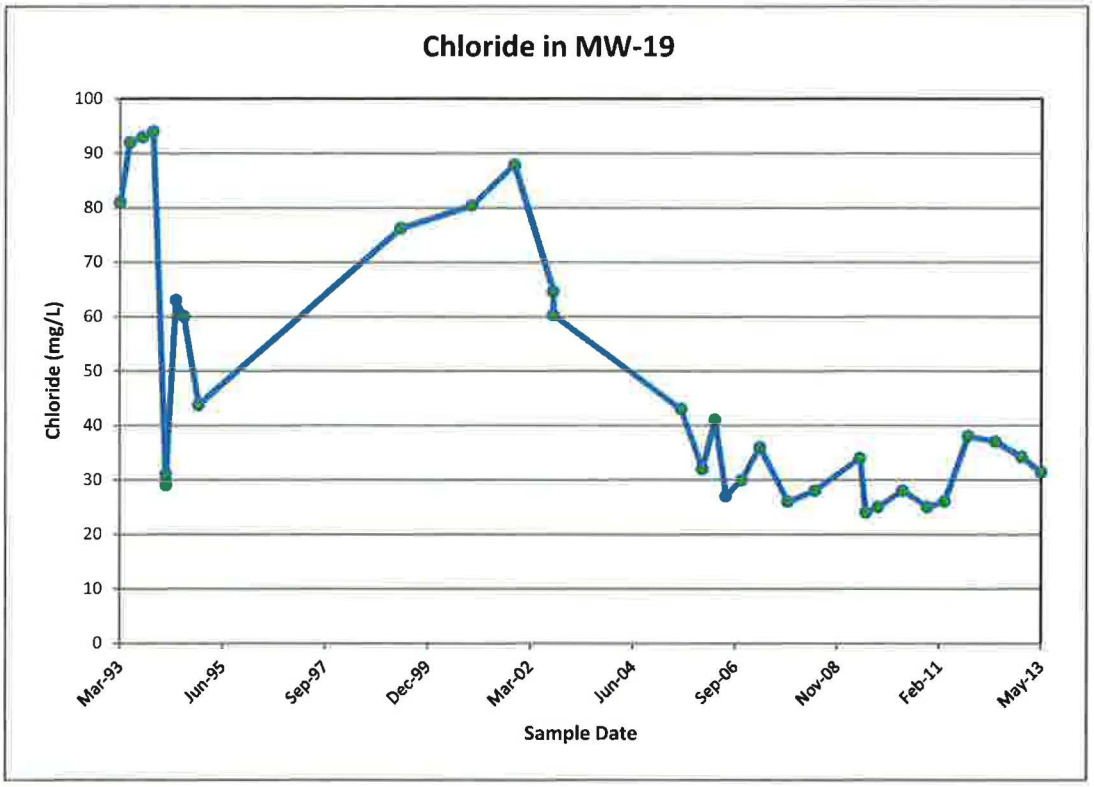


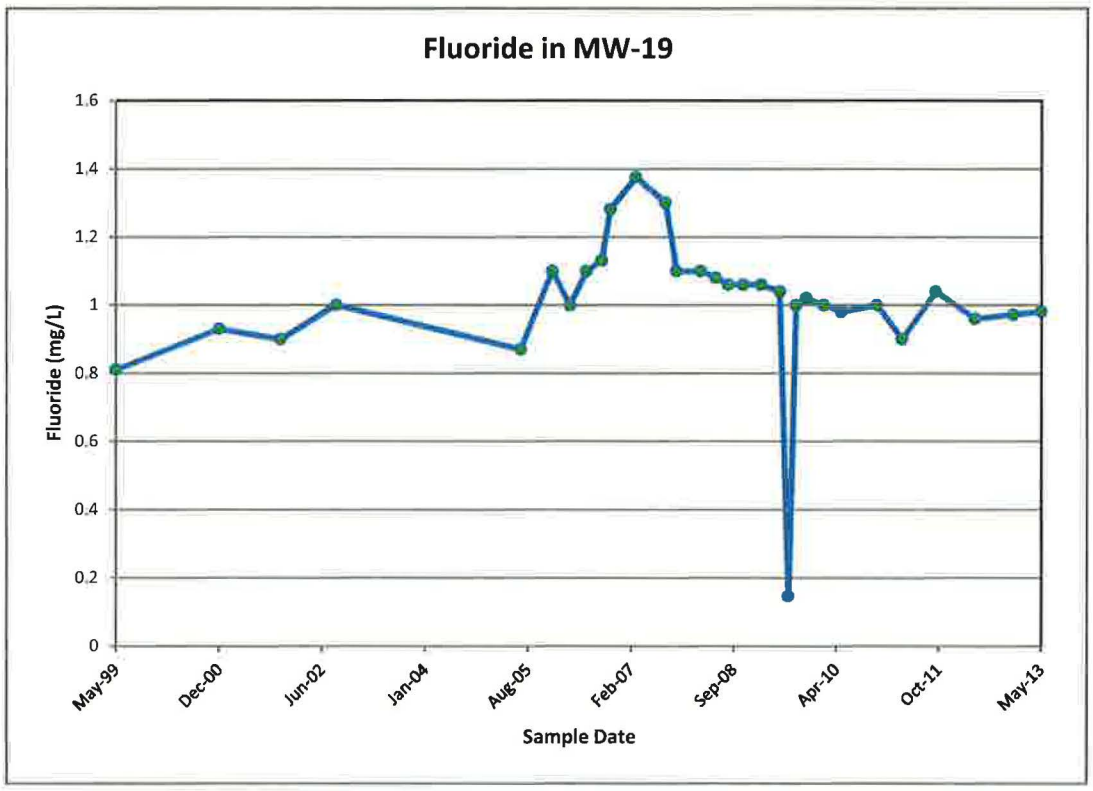


Detected Values

Non-Detected Values

Time concentration plots for MW-19

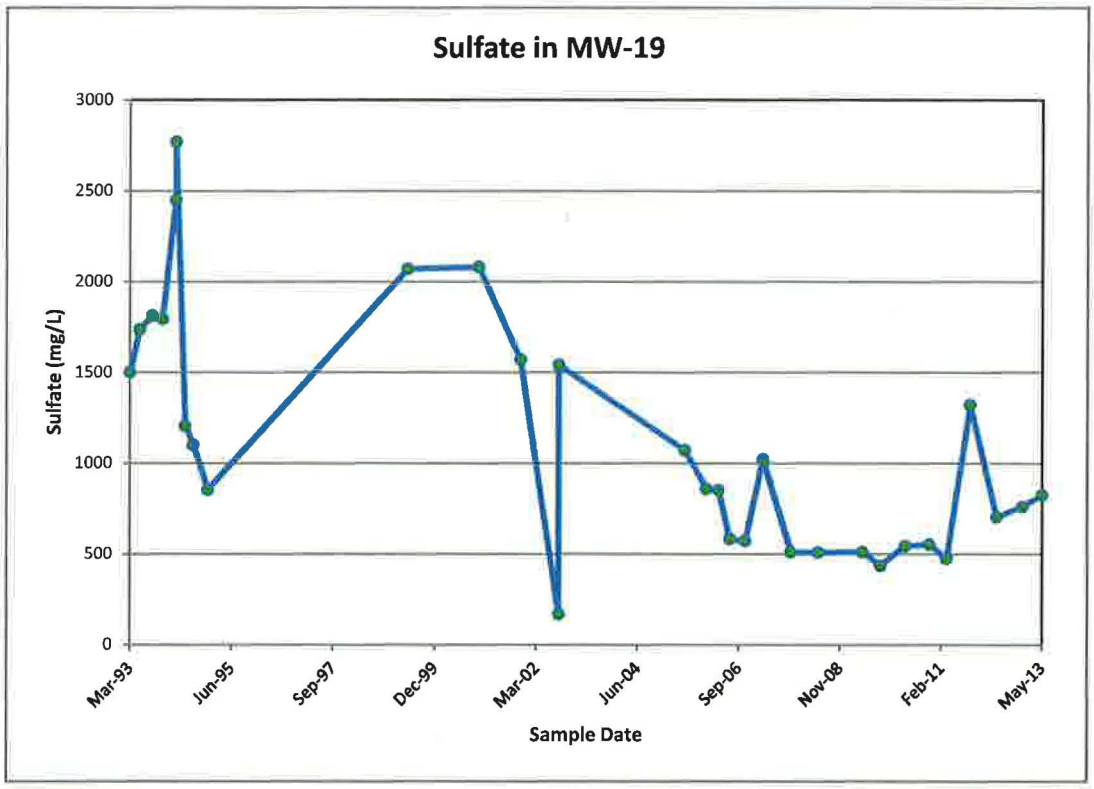


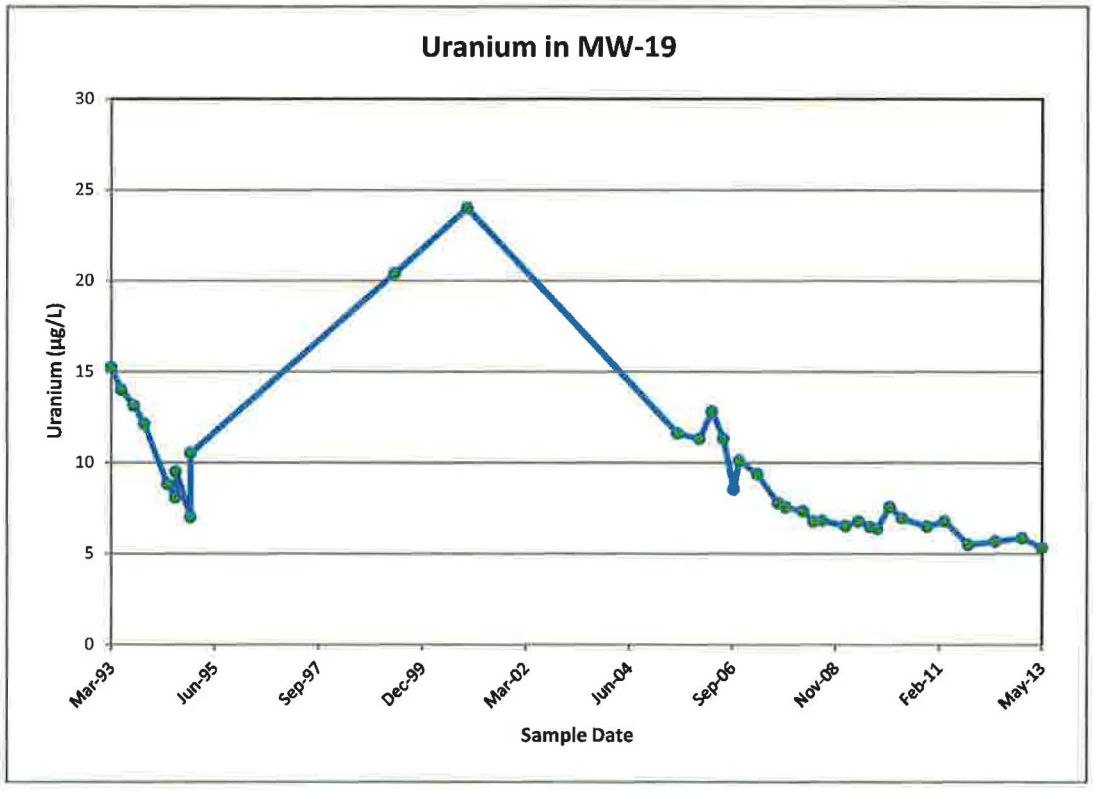


Detected Values

Non-Detected Values

Time concentration plots for MW-19

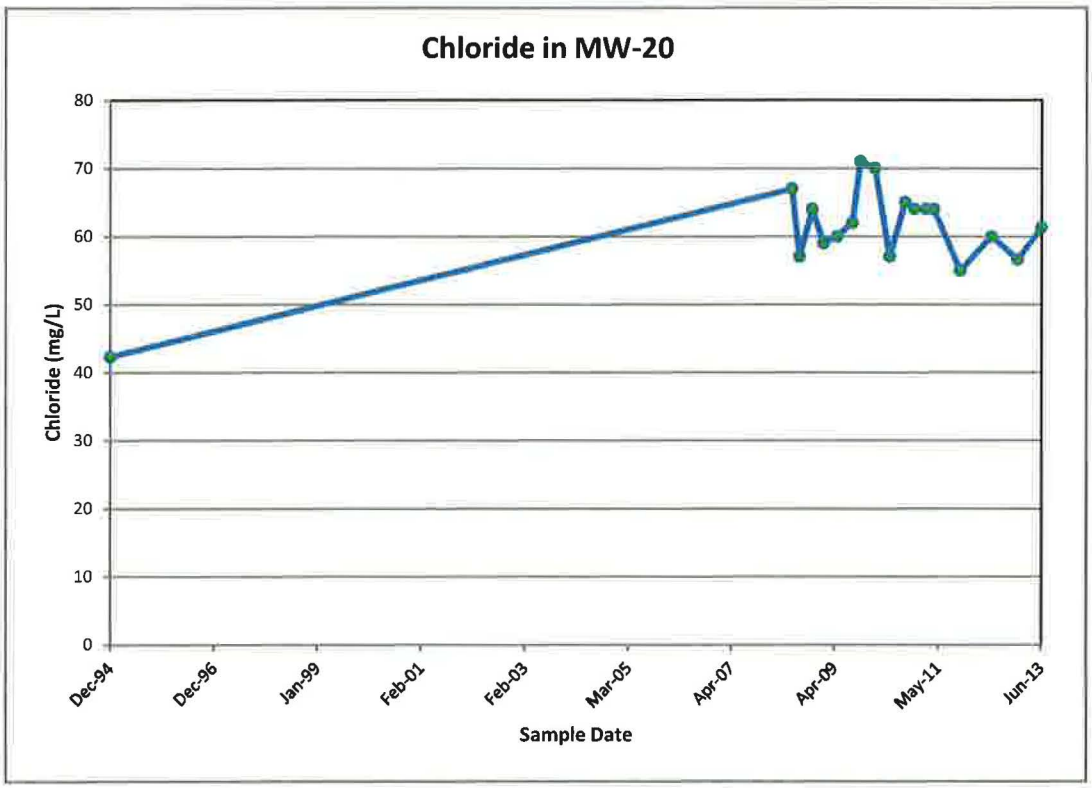


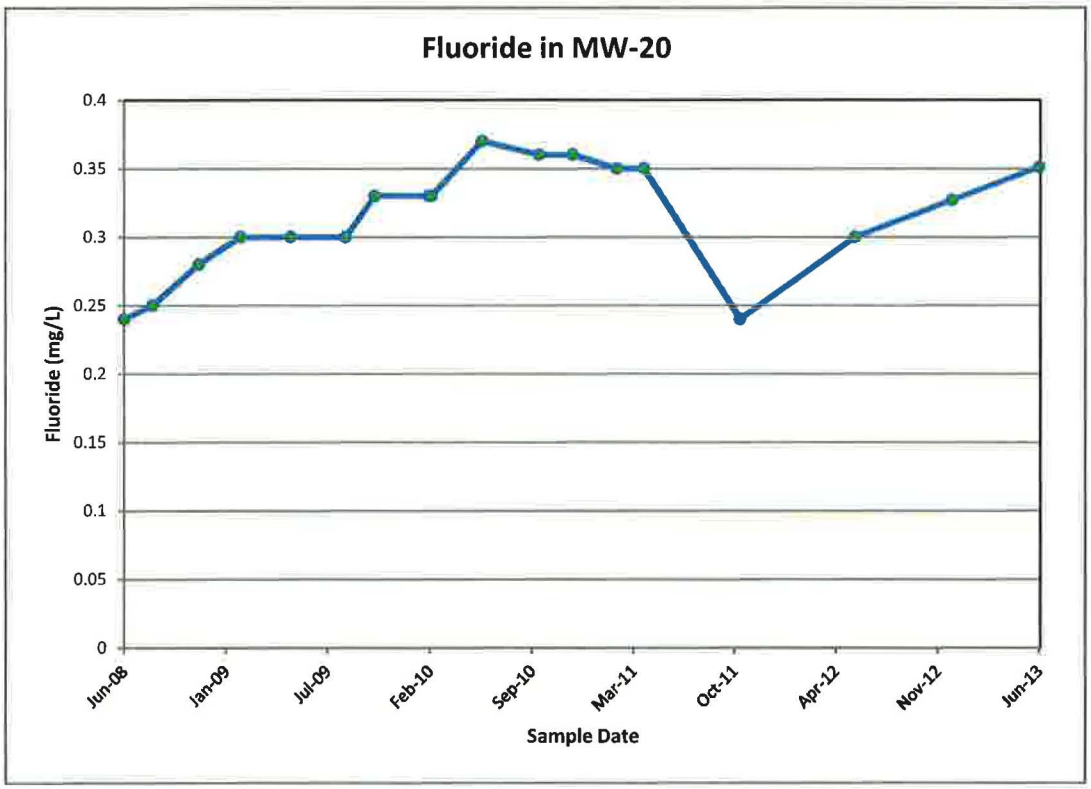


Detected Values

Non-Detected Values

Time concentration plots for MW-20





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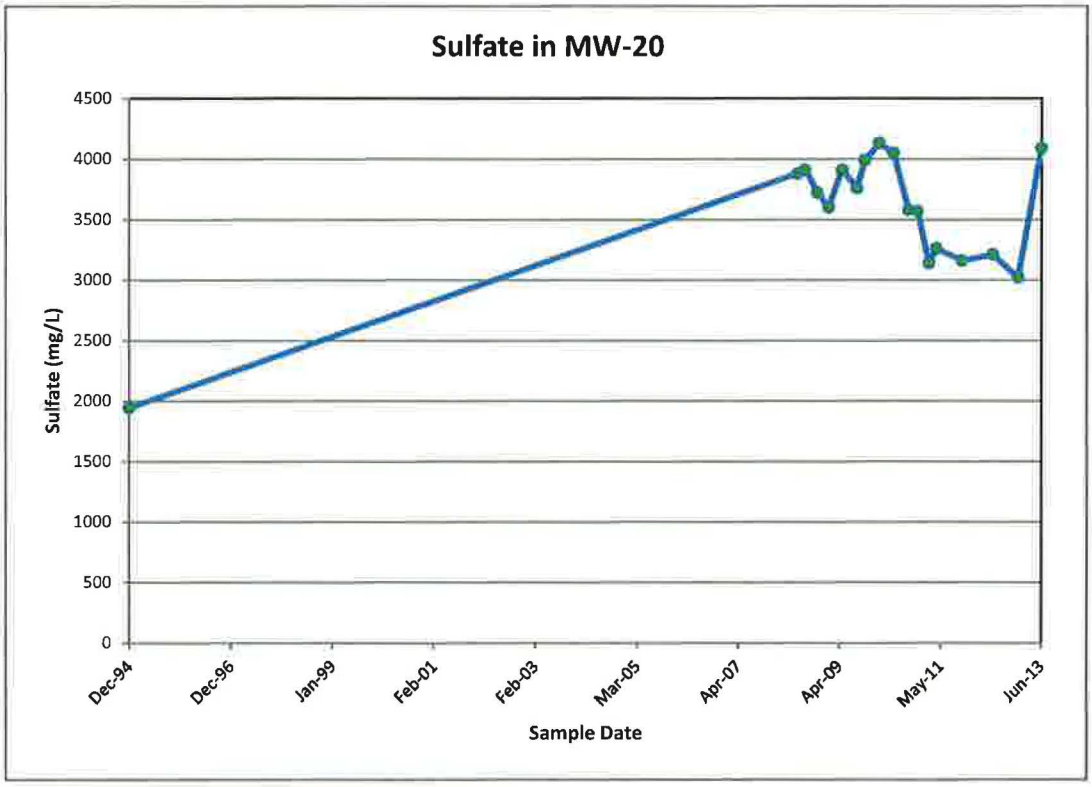
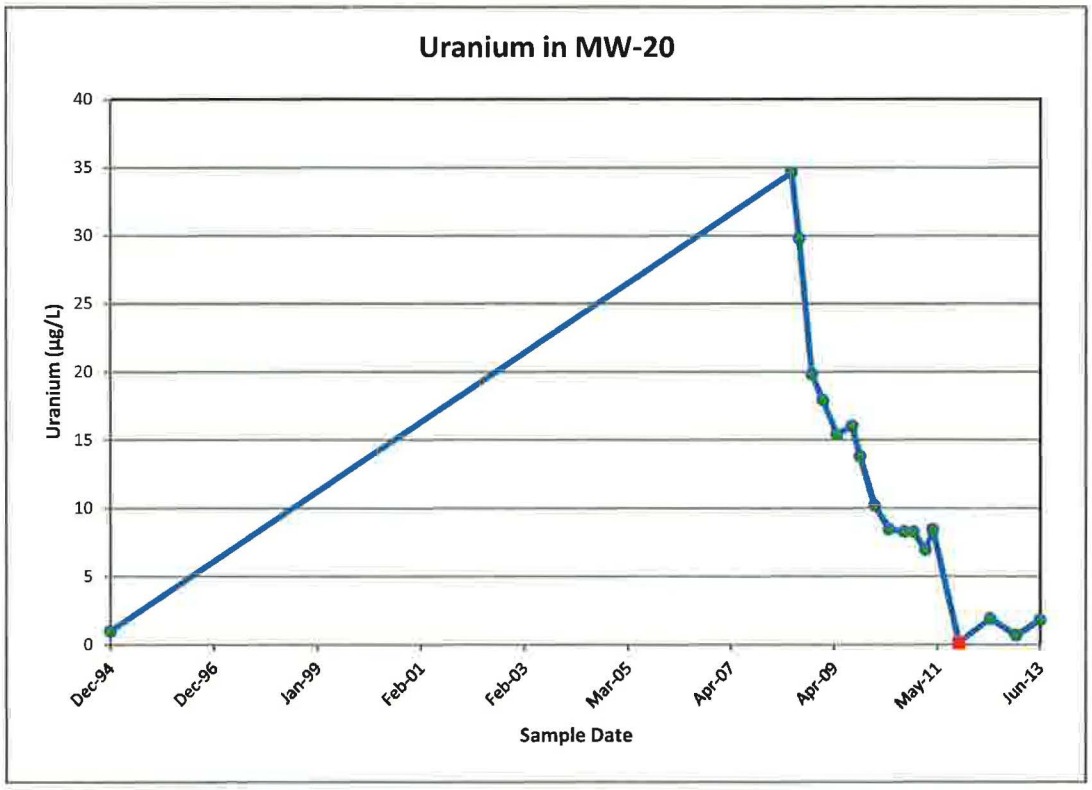
Time concentration plots for MW-20





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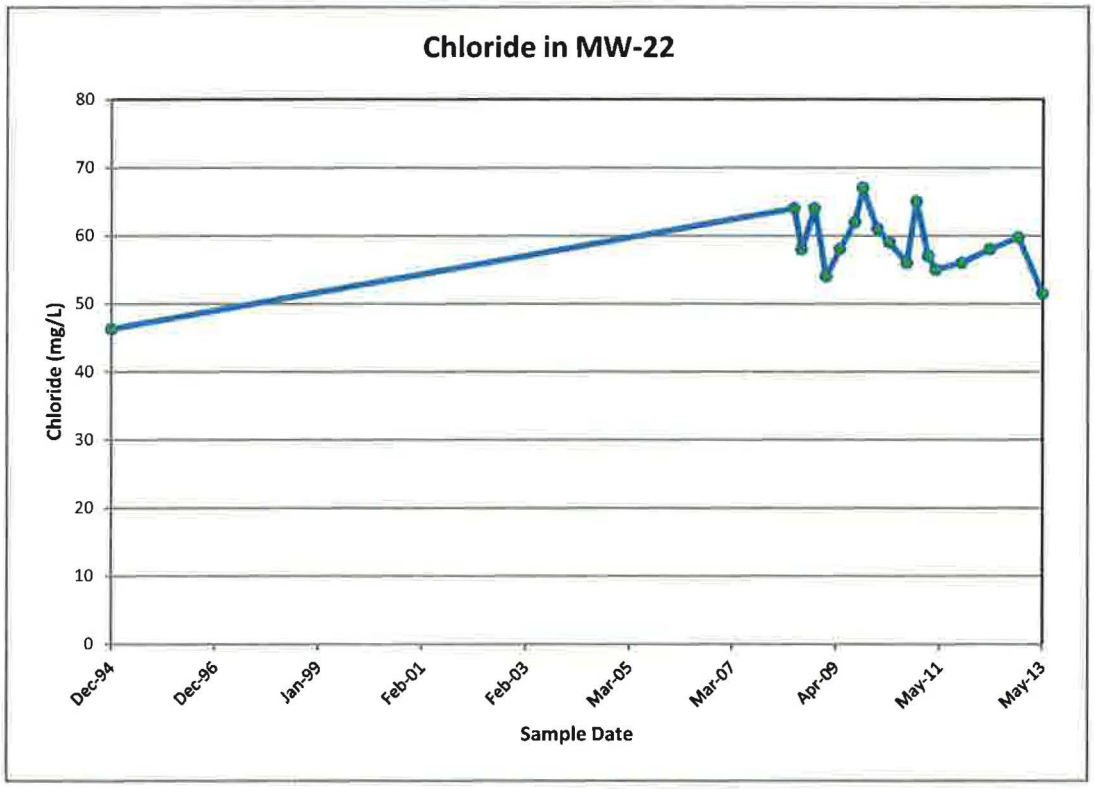
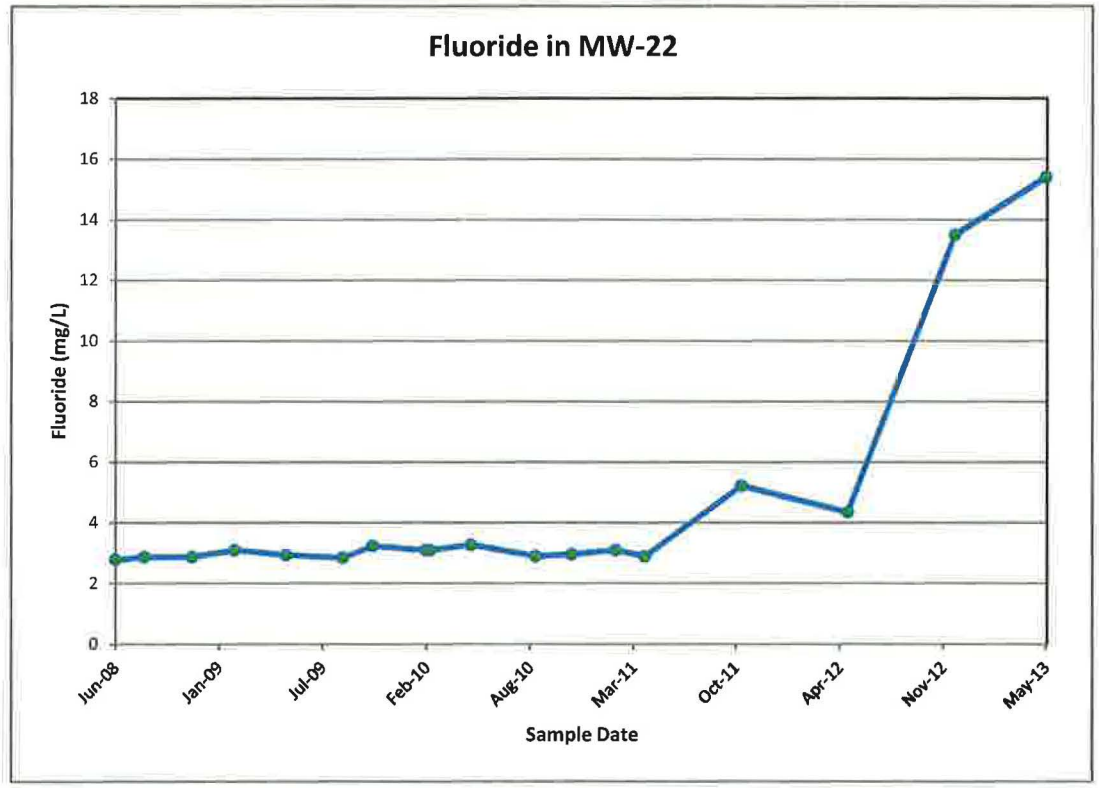
Time concentration plots for MW-22





Detected Values

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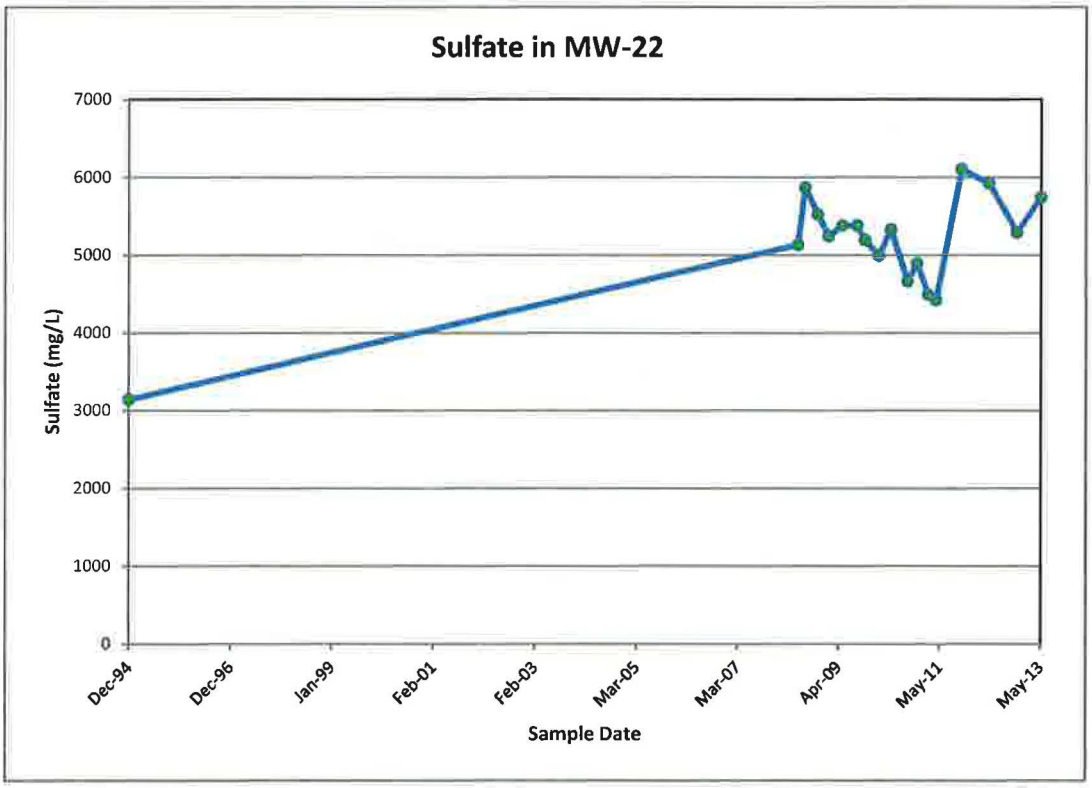
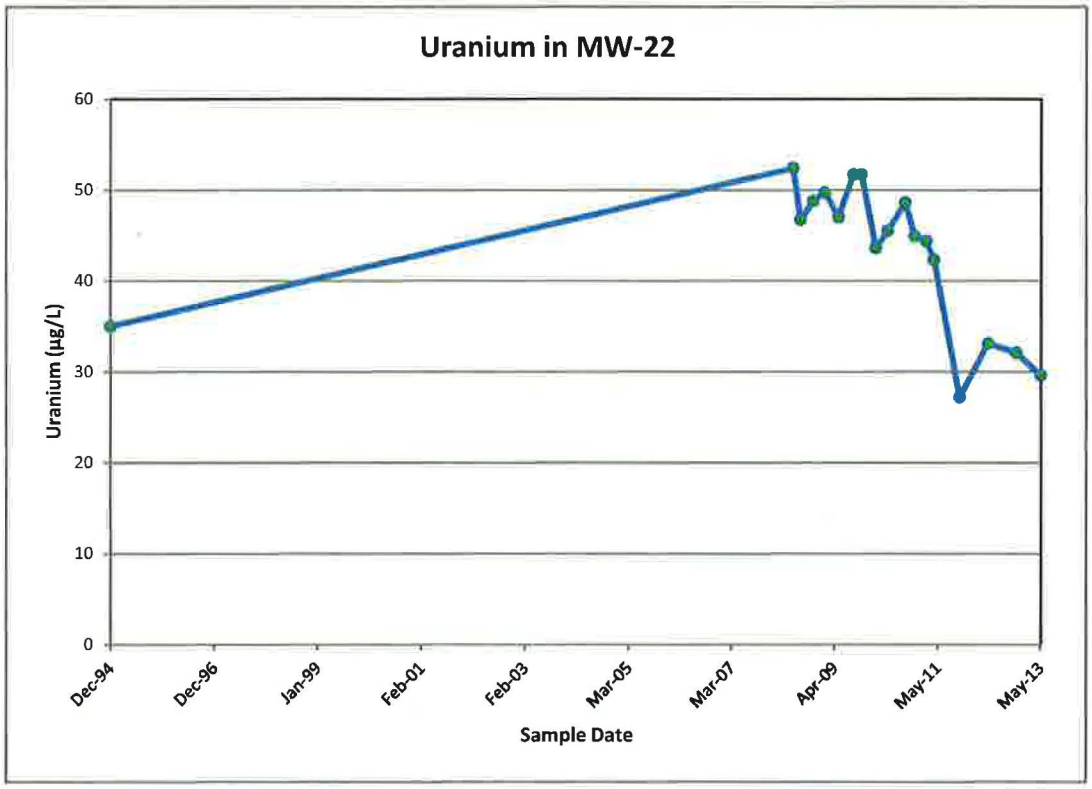
Time concentration plots for MW-22





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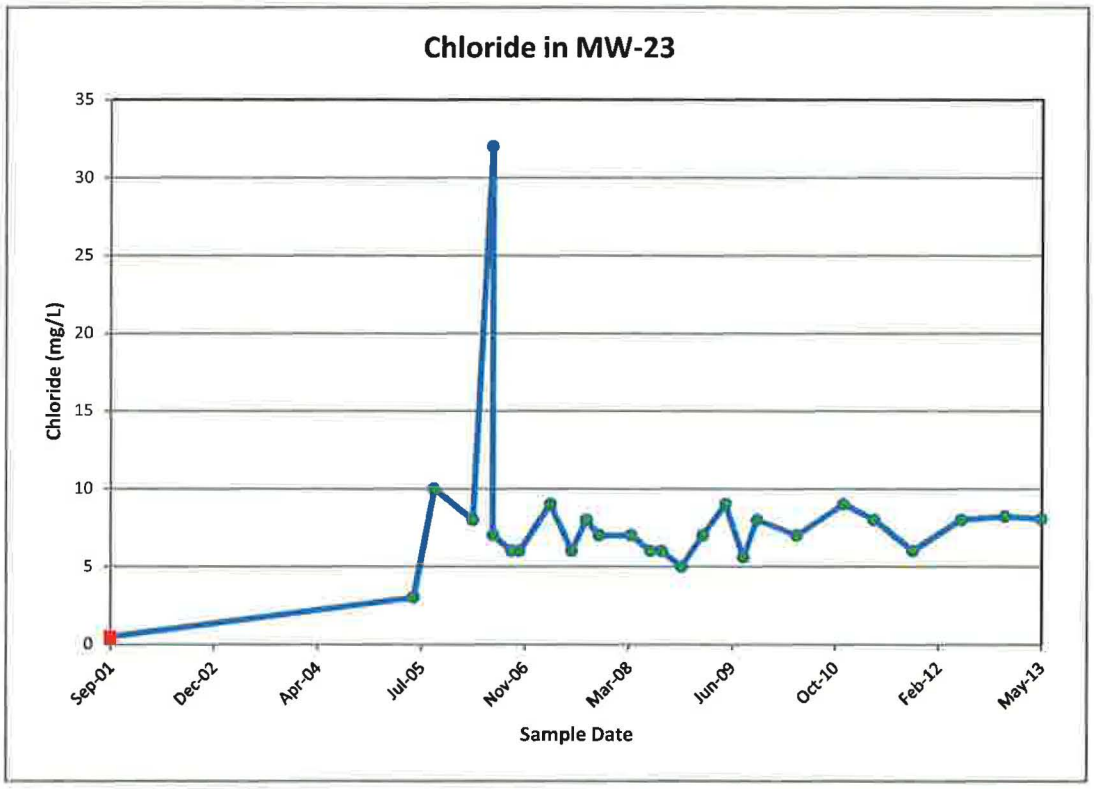
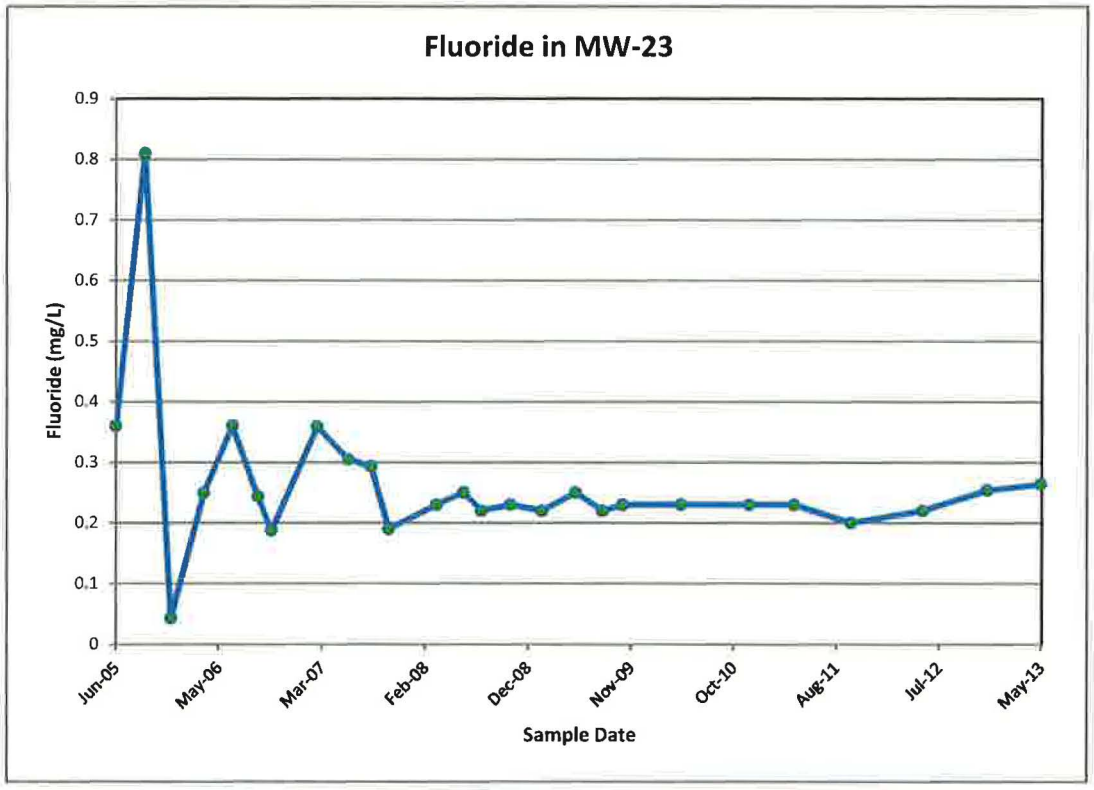
Time concentration plots for MW-23





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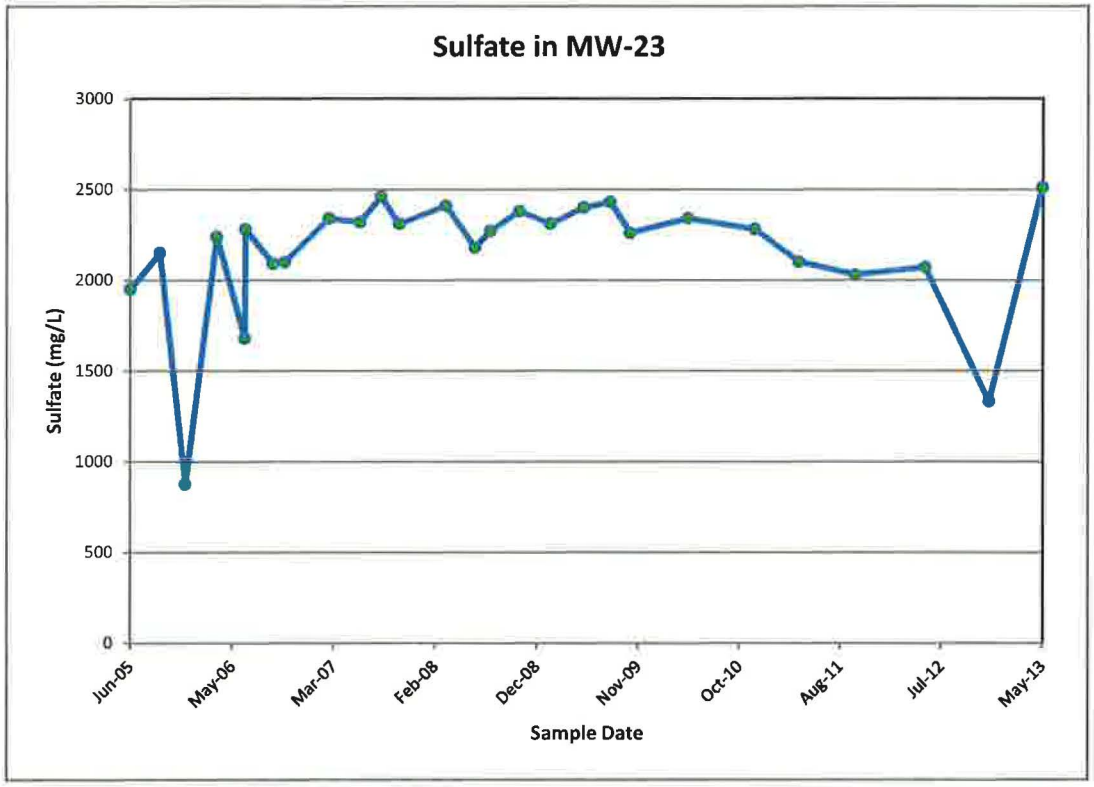
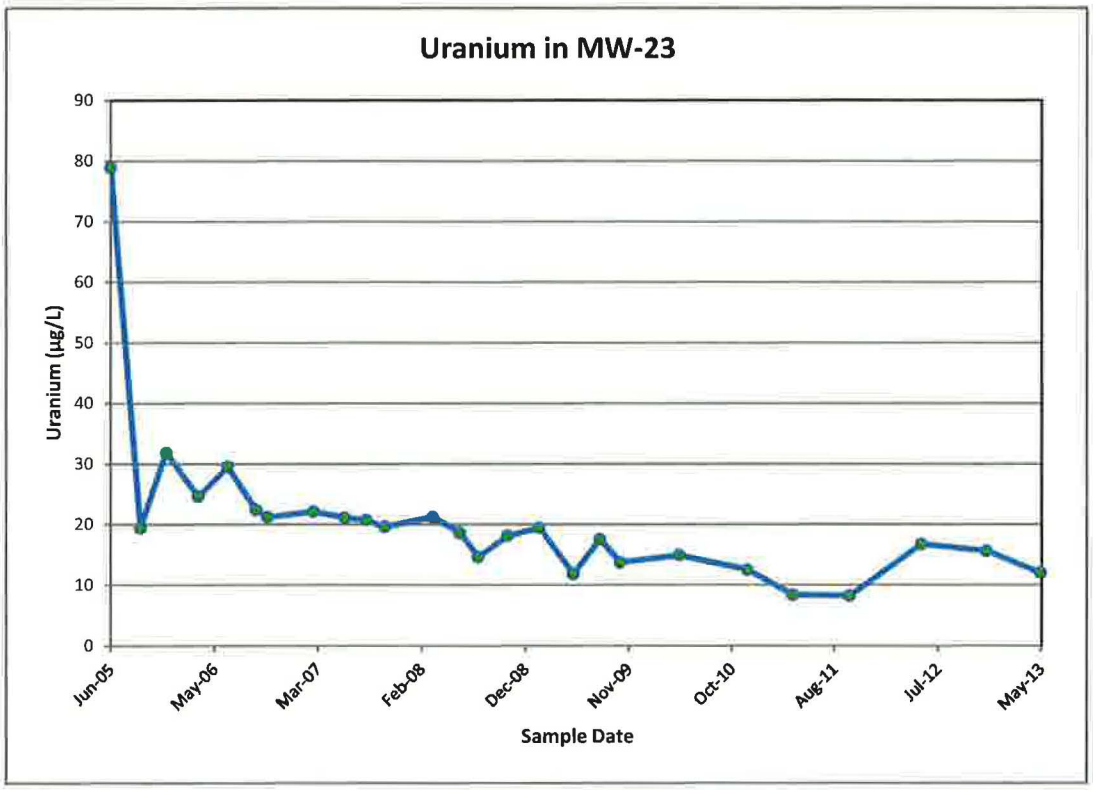
Time concentration plots for MW-23





Detected Values

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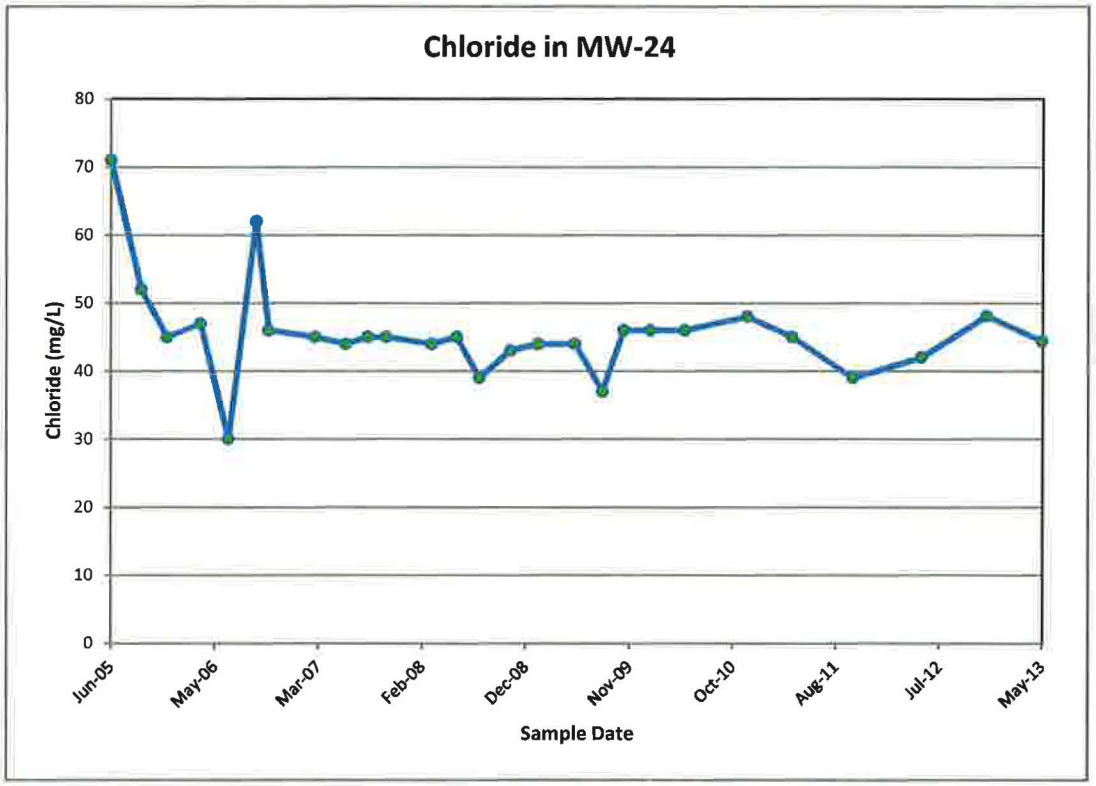
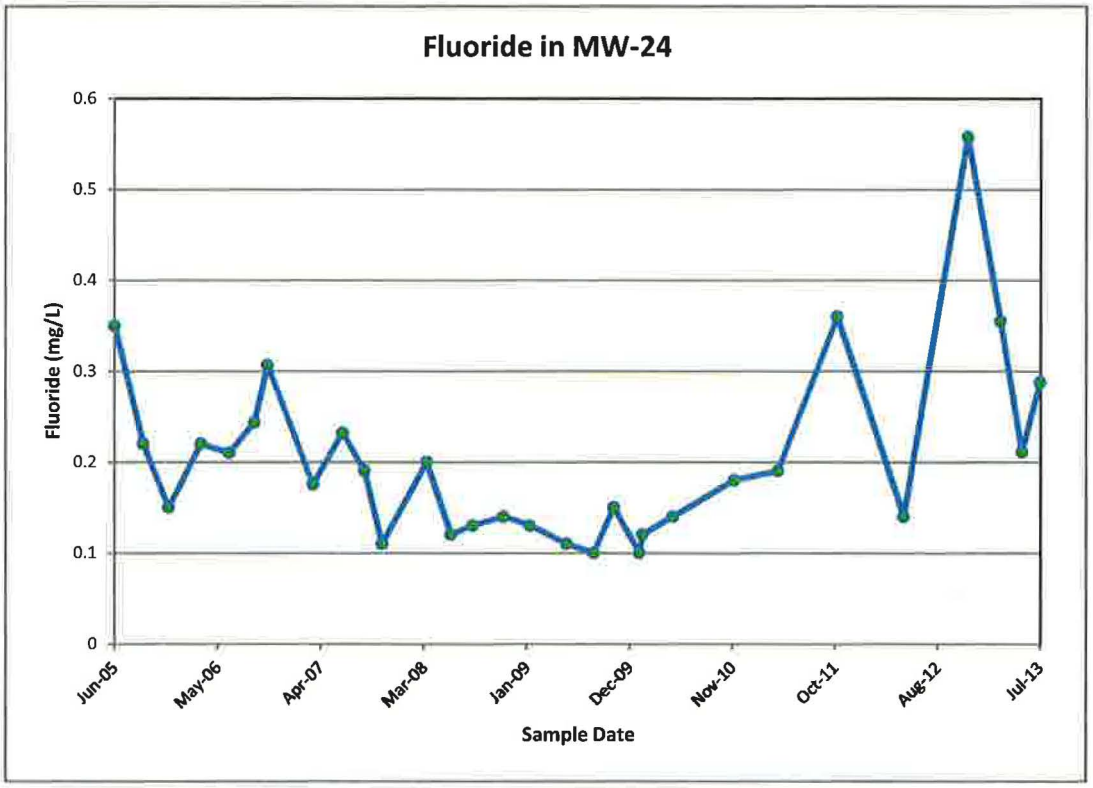
Time concentration plots for MW-24





Detected Values

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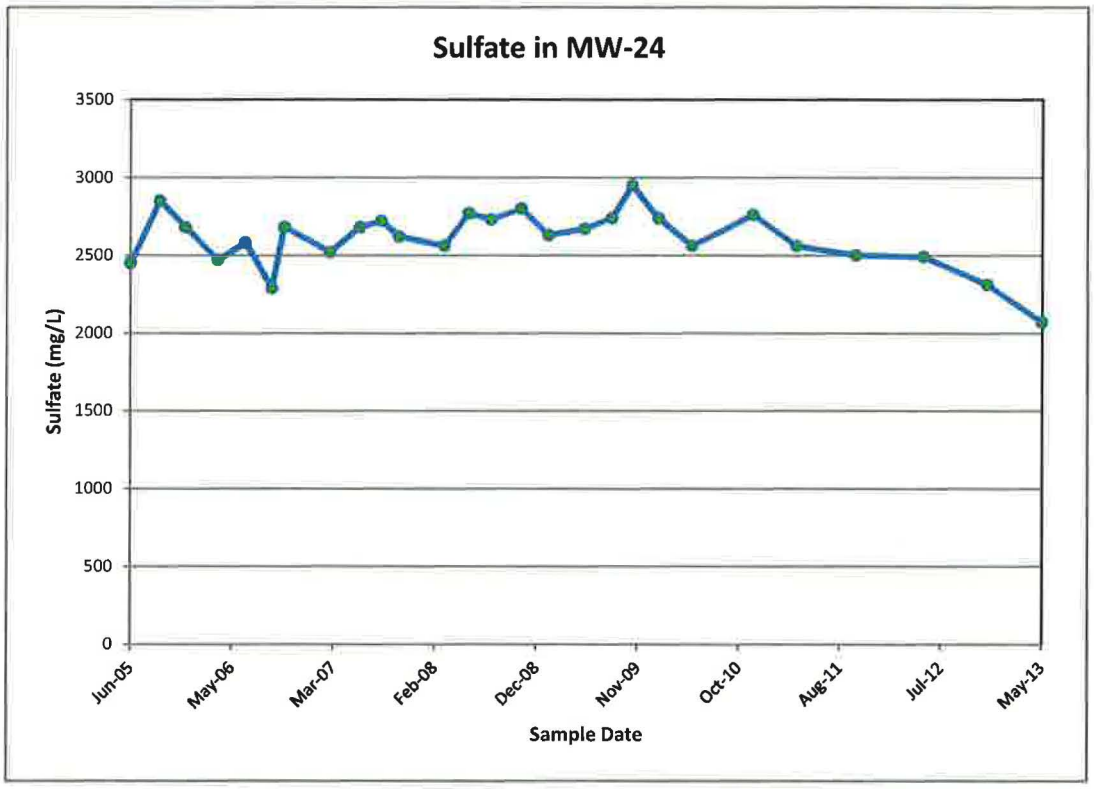
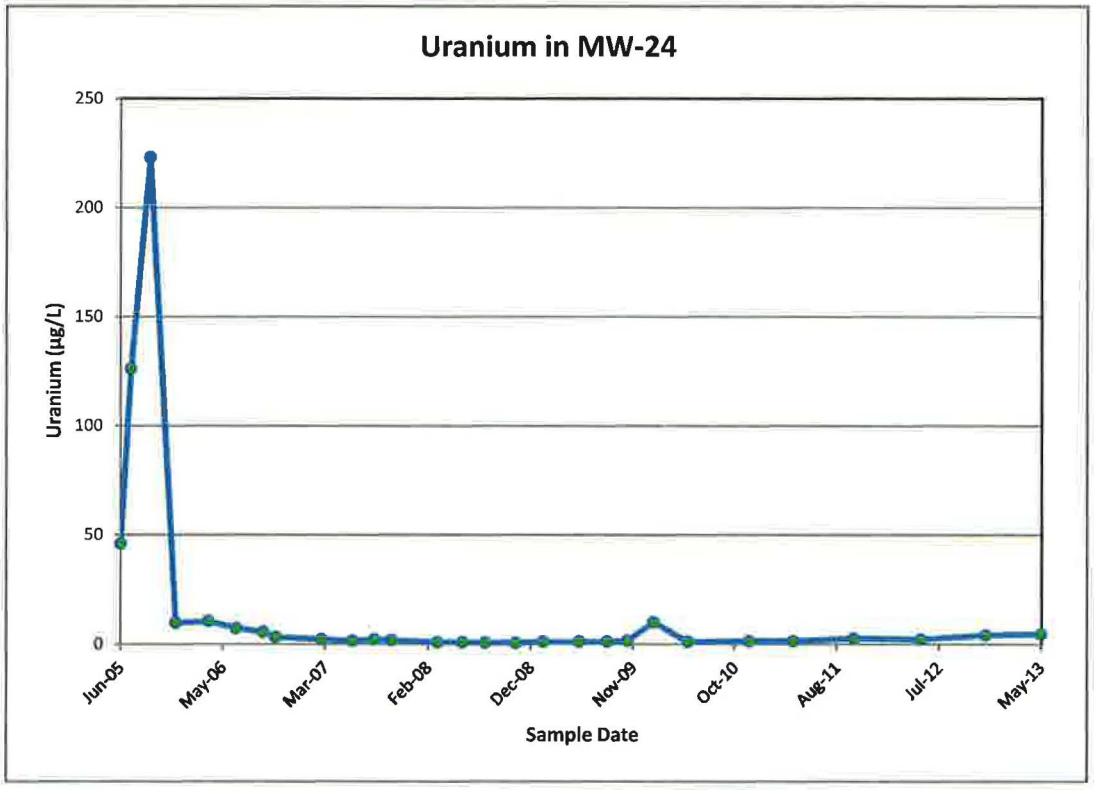
Time concentration plots for MW-24





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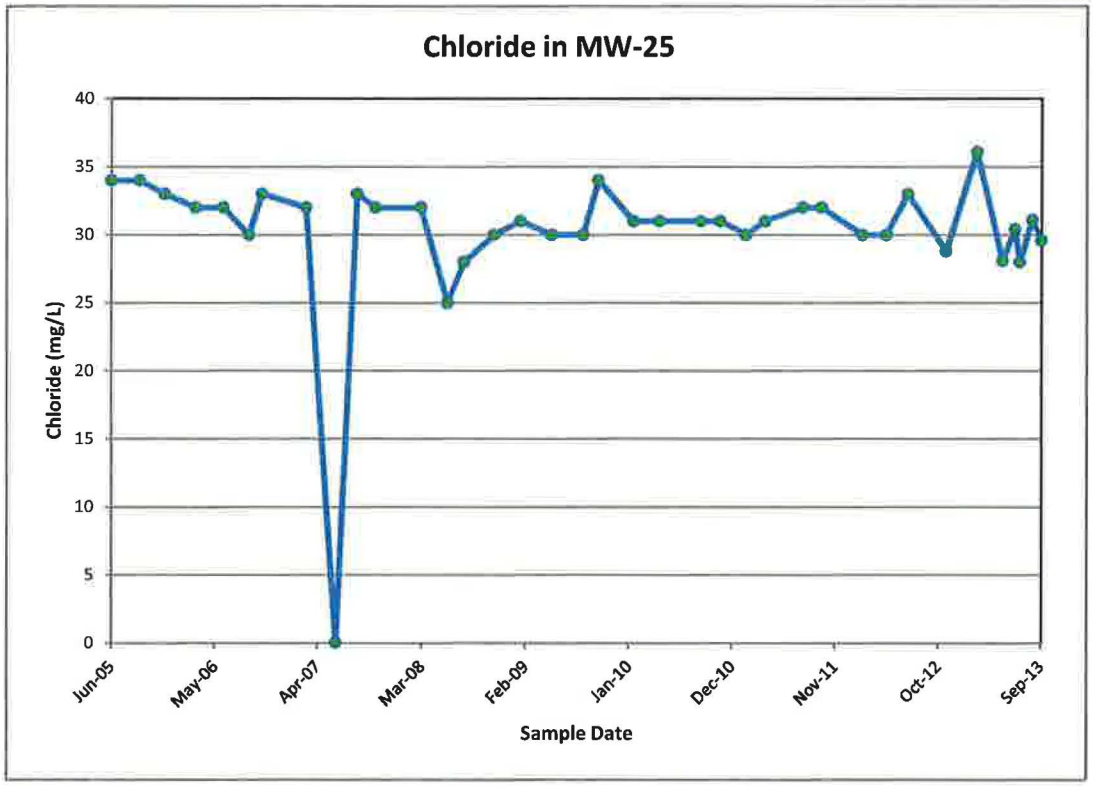
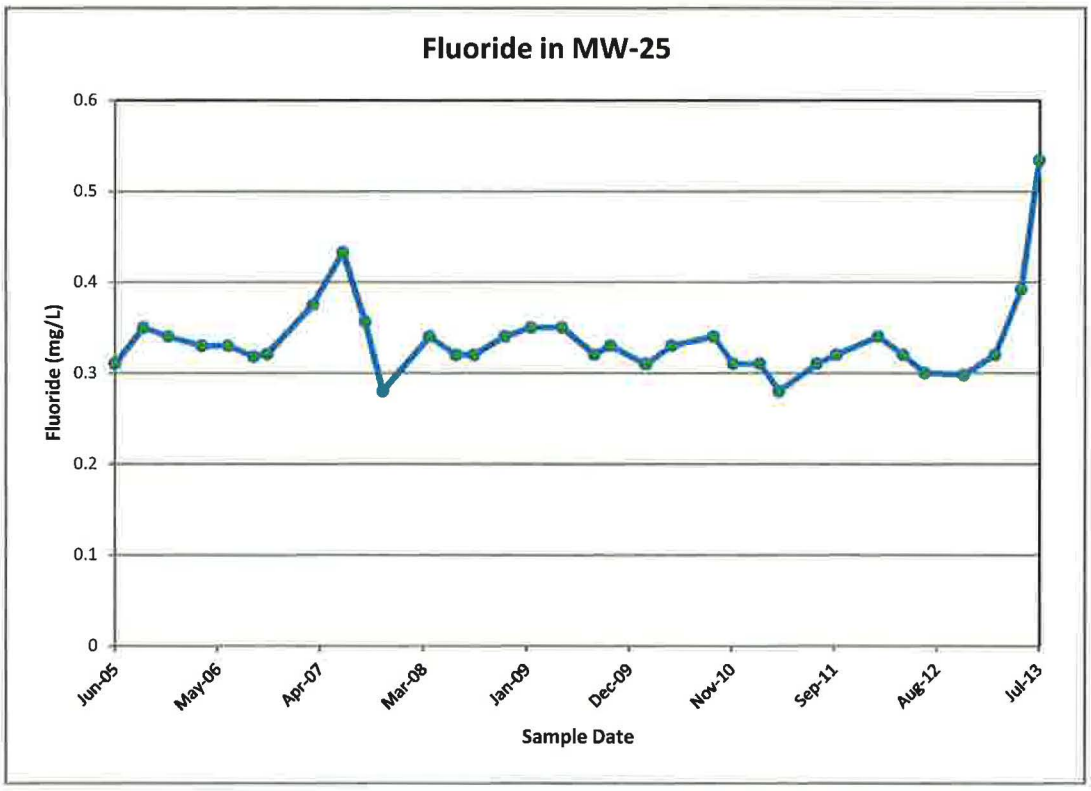
Time concentration plots for MW-25





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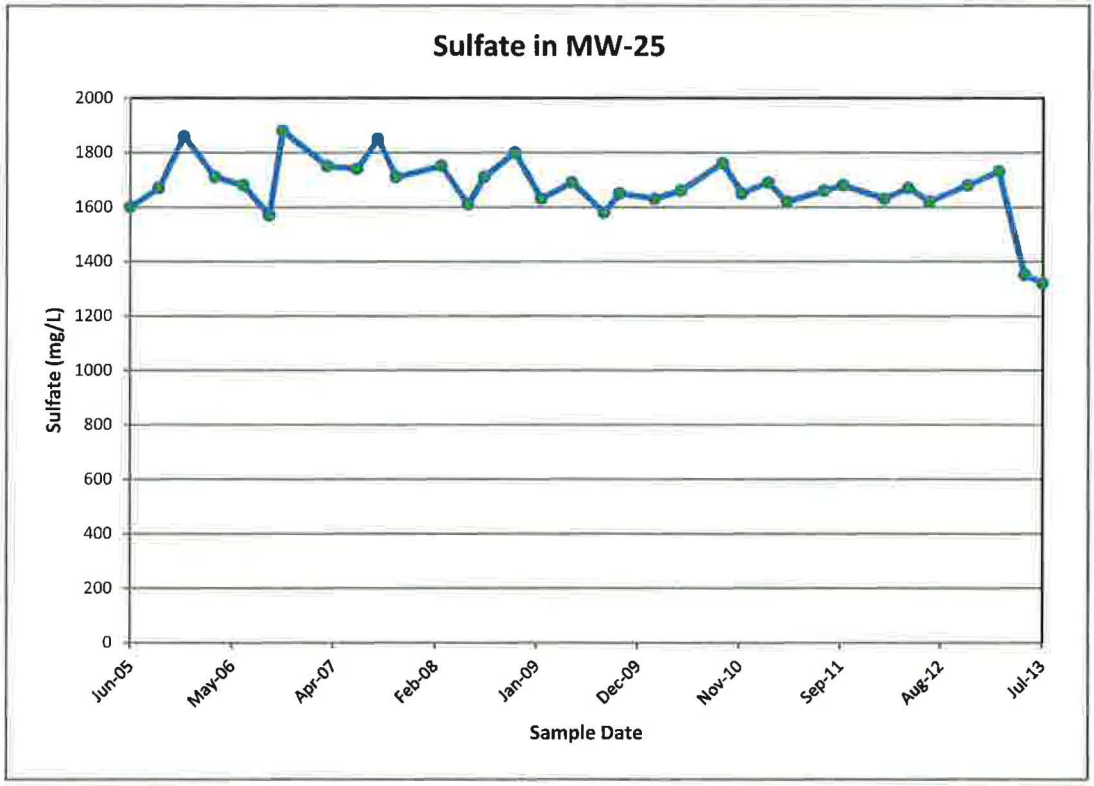
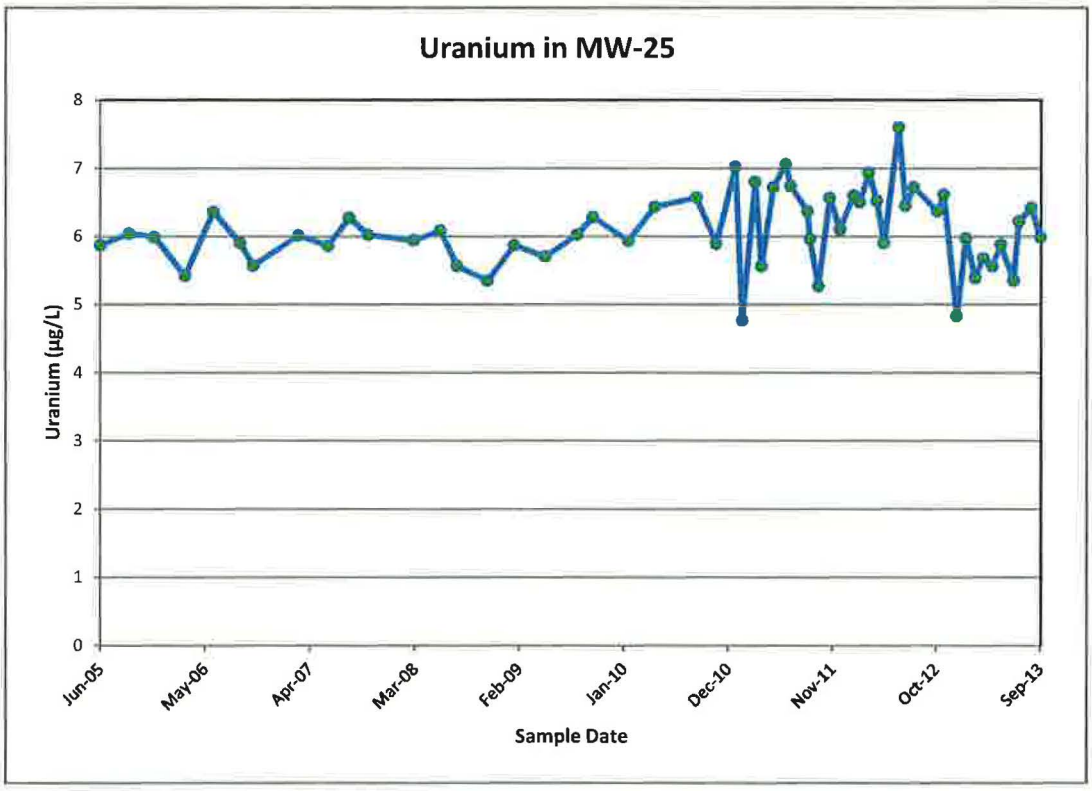
Time concentration plots for MW-25





Detected Values

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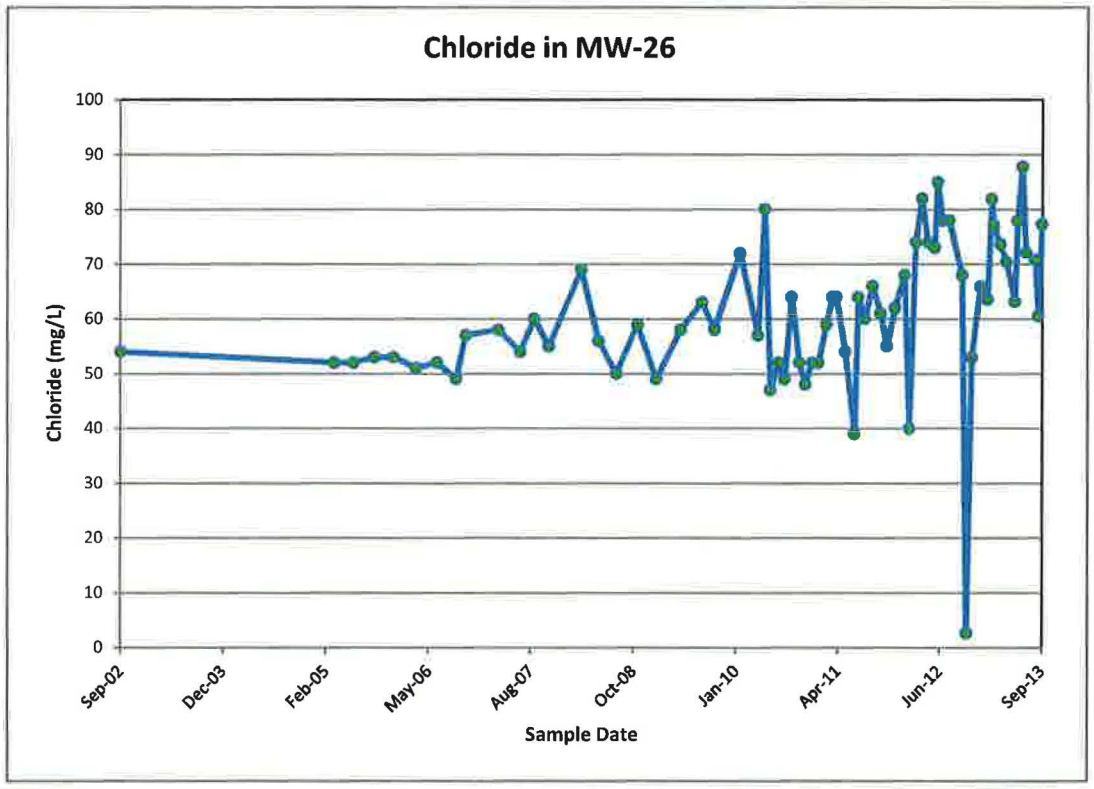
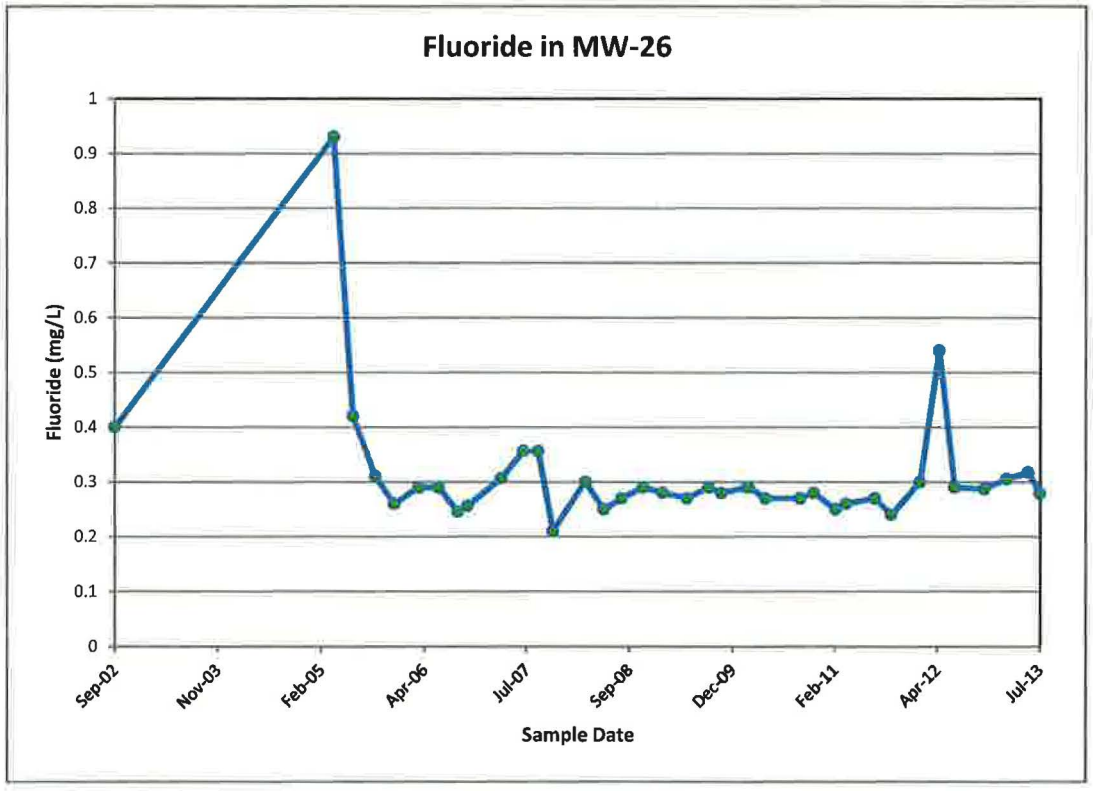
Time concentration plots for MW-26





Detected Values

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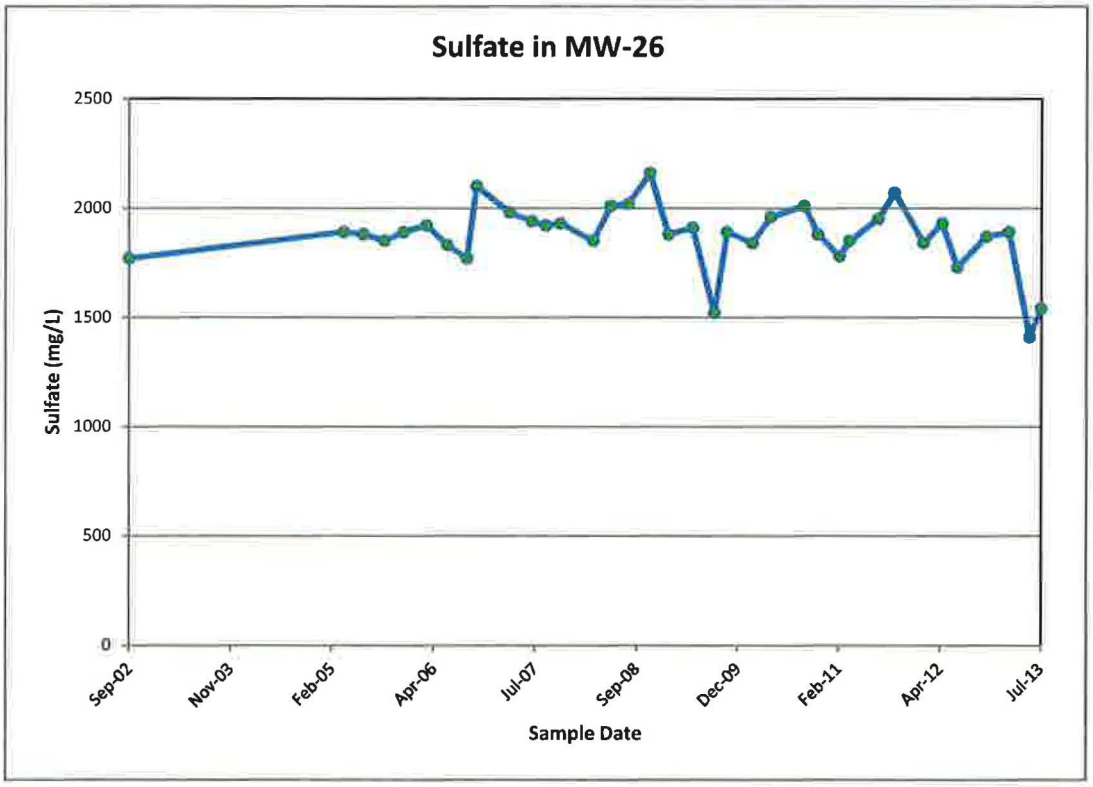
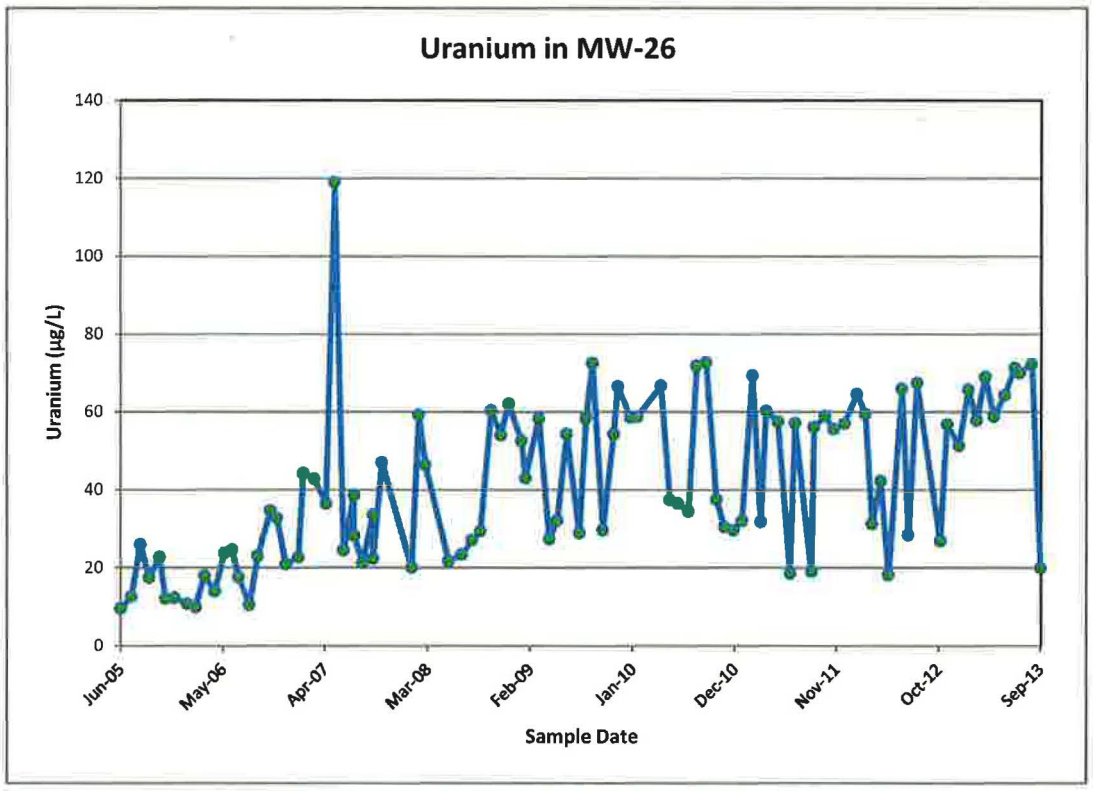
Time concentration plots for MW-26





Detected Values

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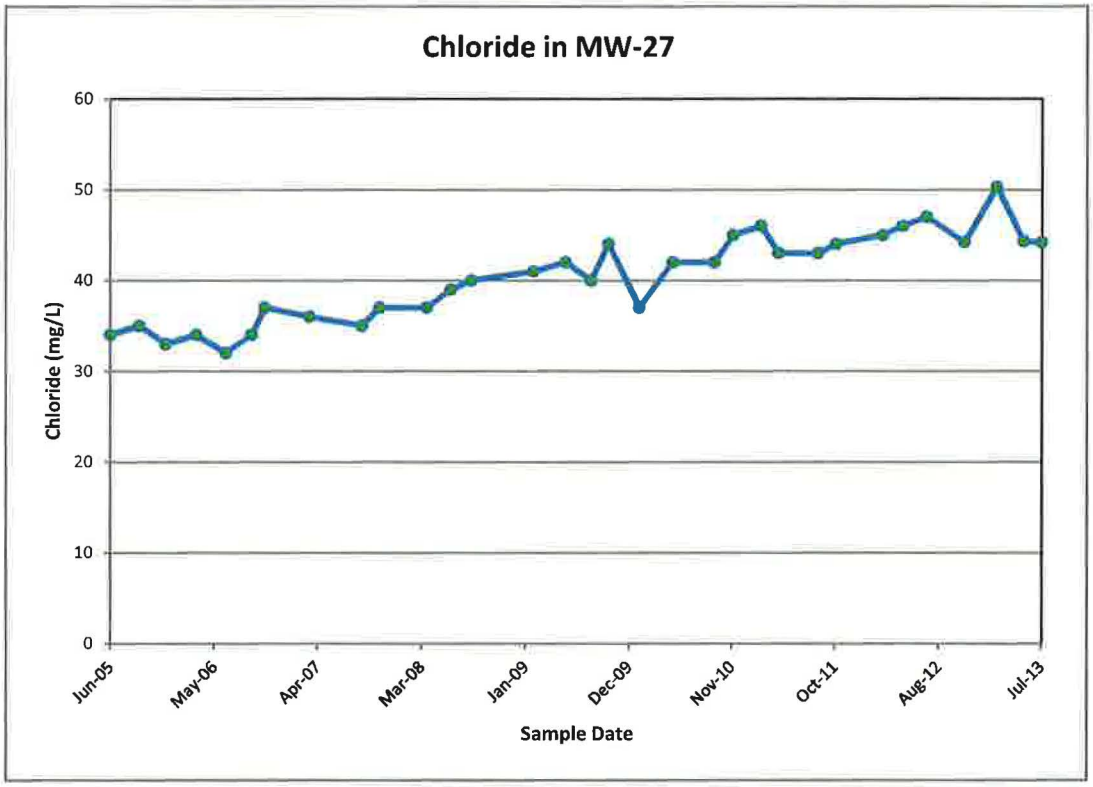
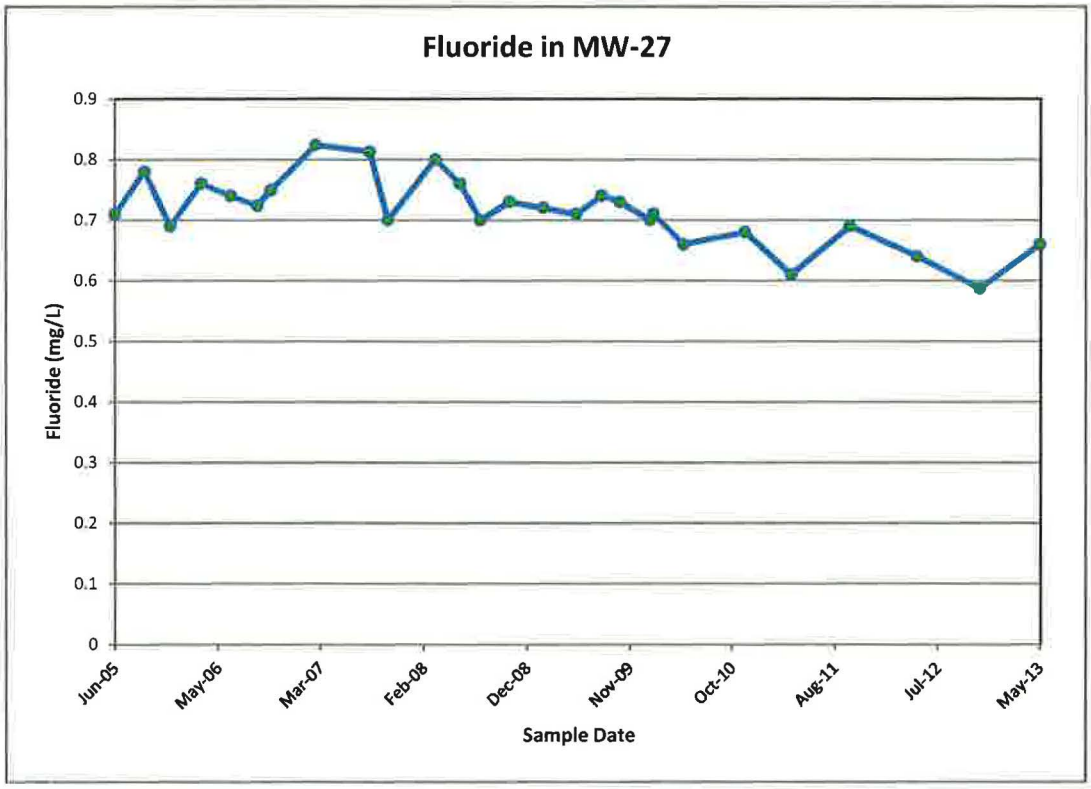
Time concentration plots for MW-27





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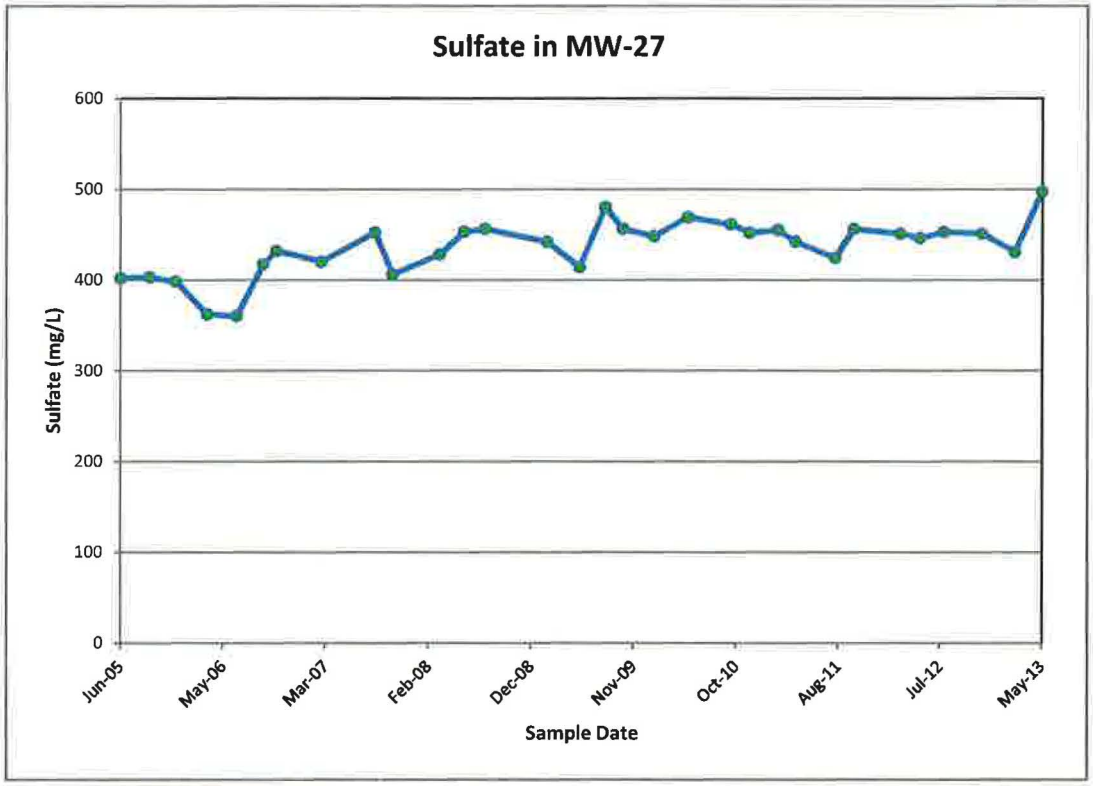
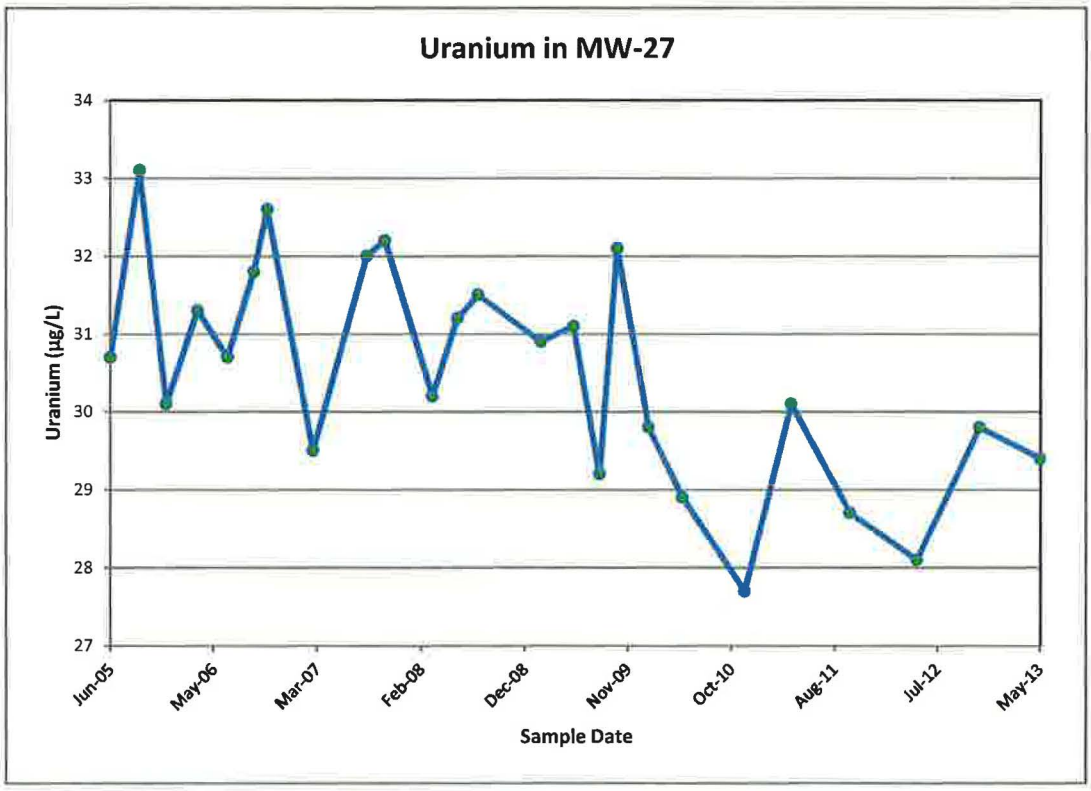
Time concentration plots for MW-27





Detected Values

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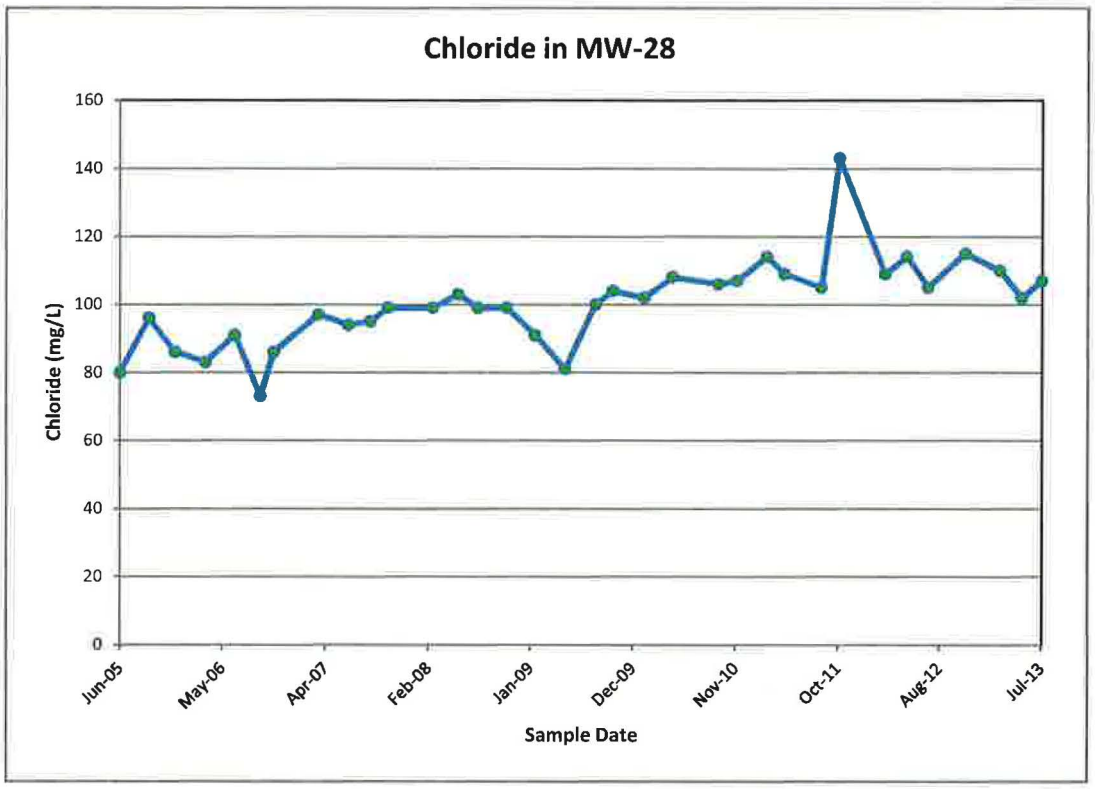
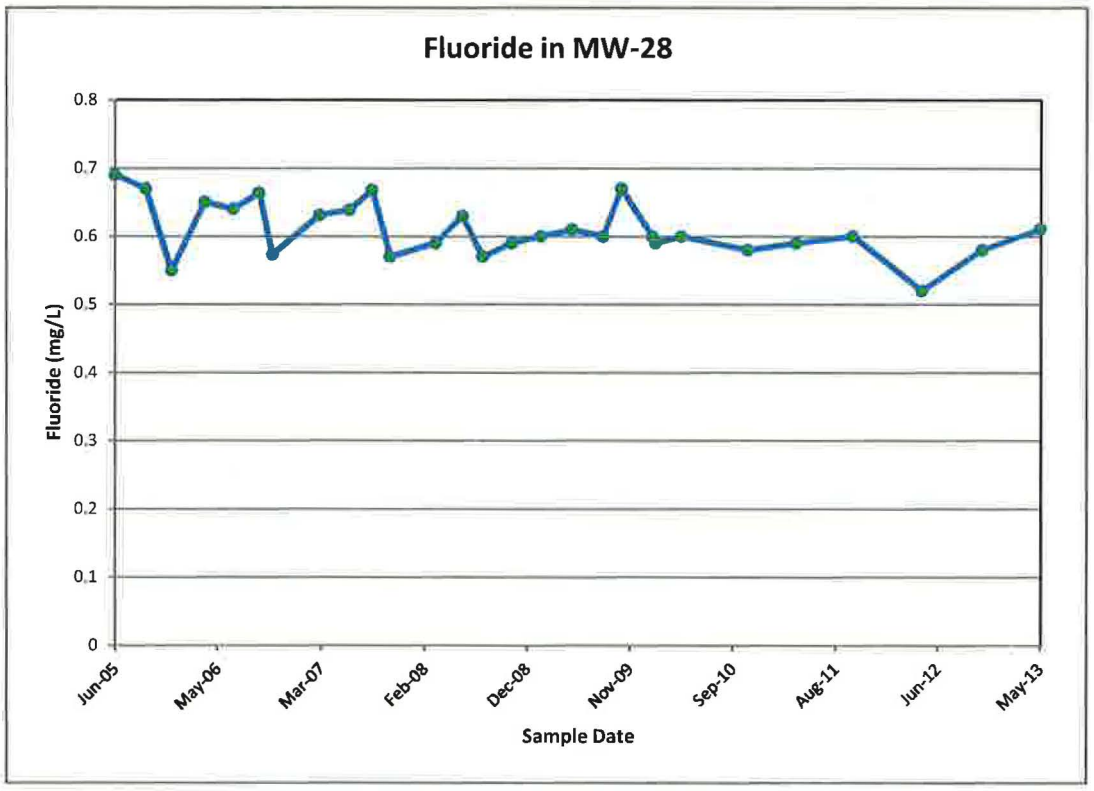
Time concentration plots for MW-28





Detected Values

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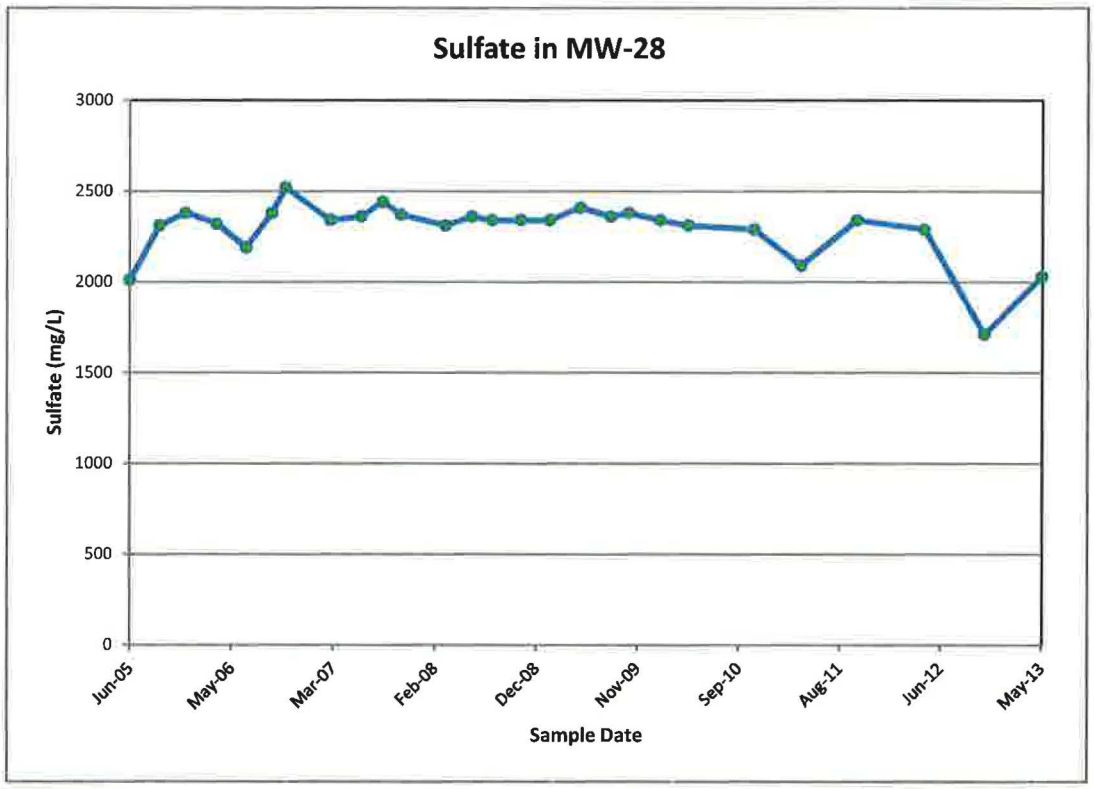
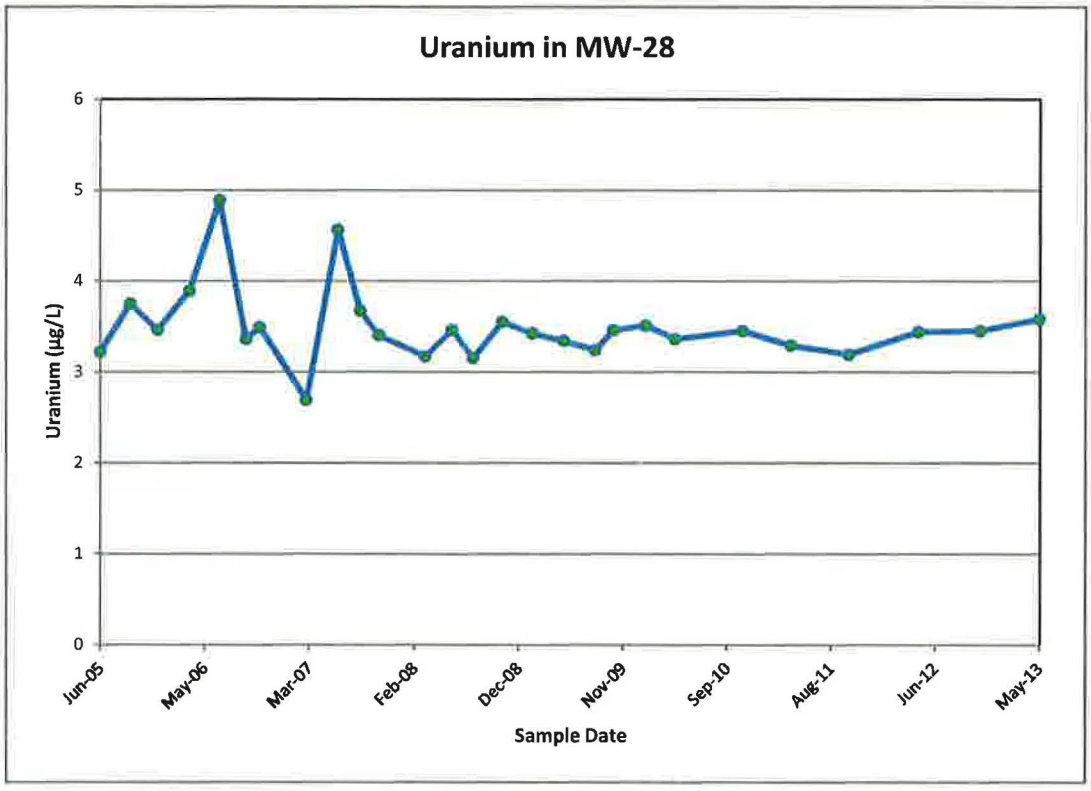
Time concentration plots for MW-28





Detected Values

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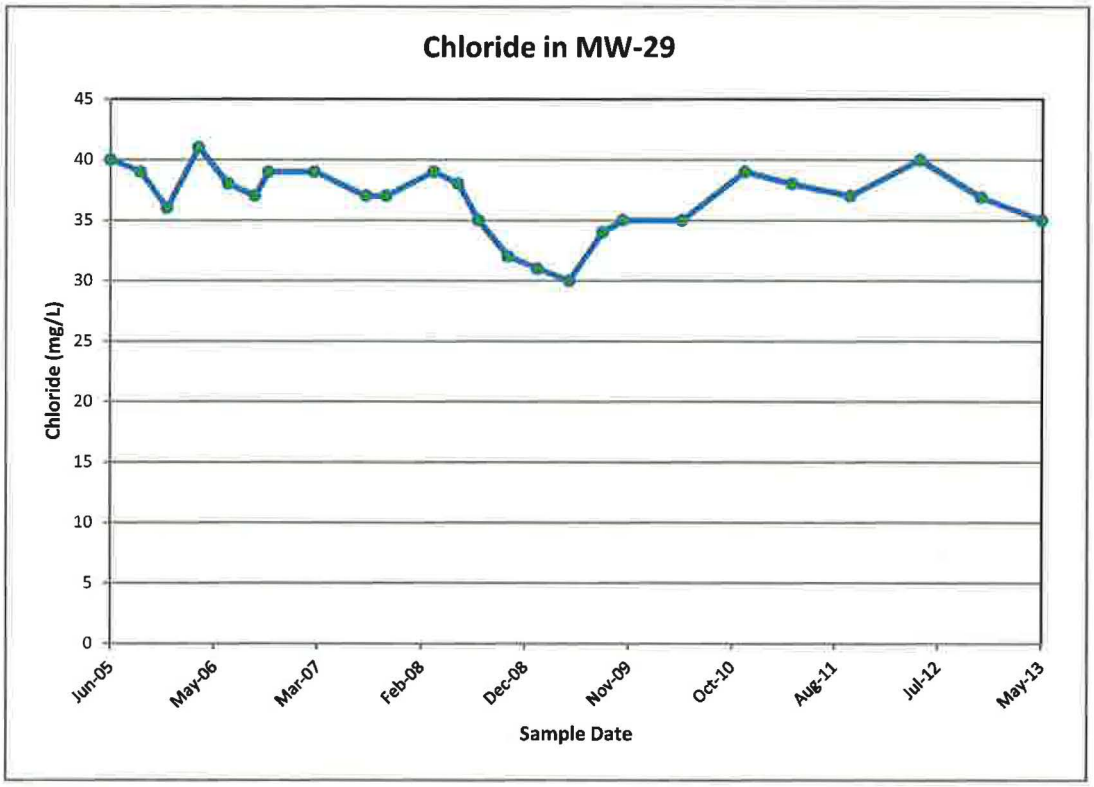
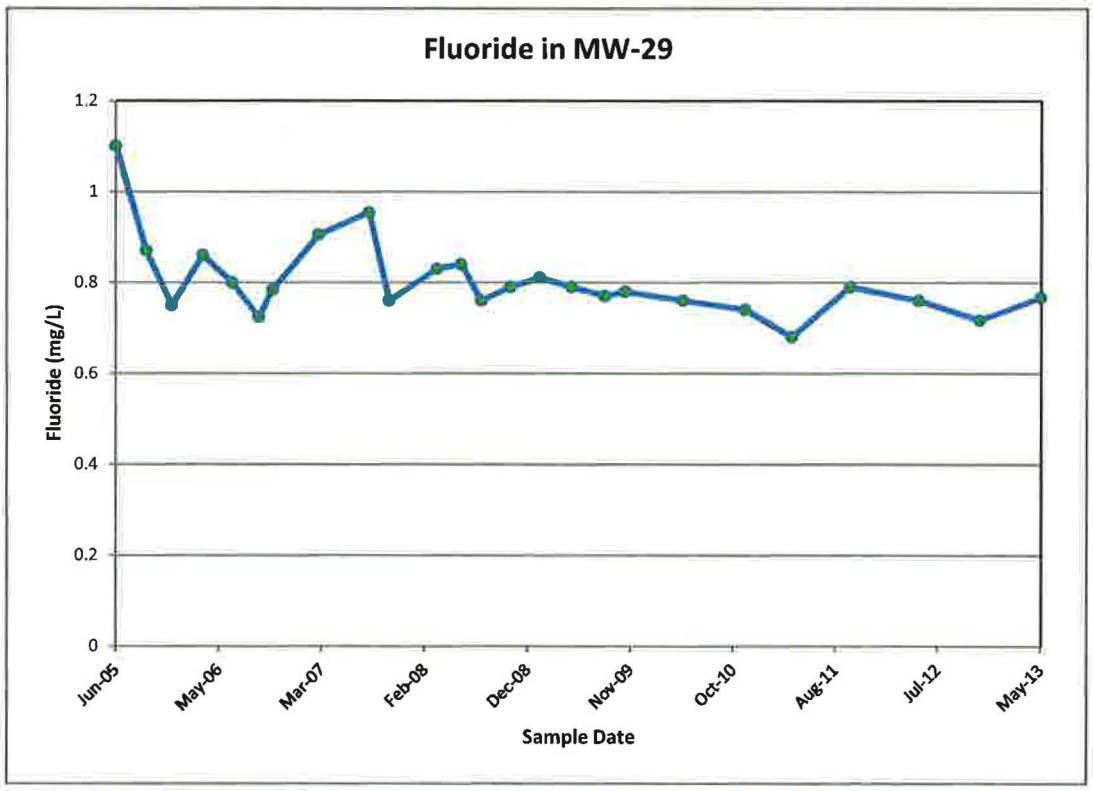
Time concentration plots for MW-29

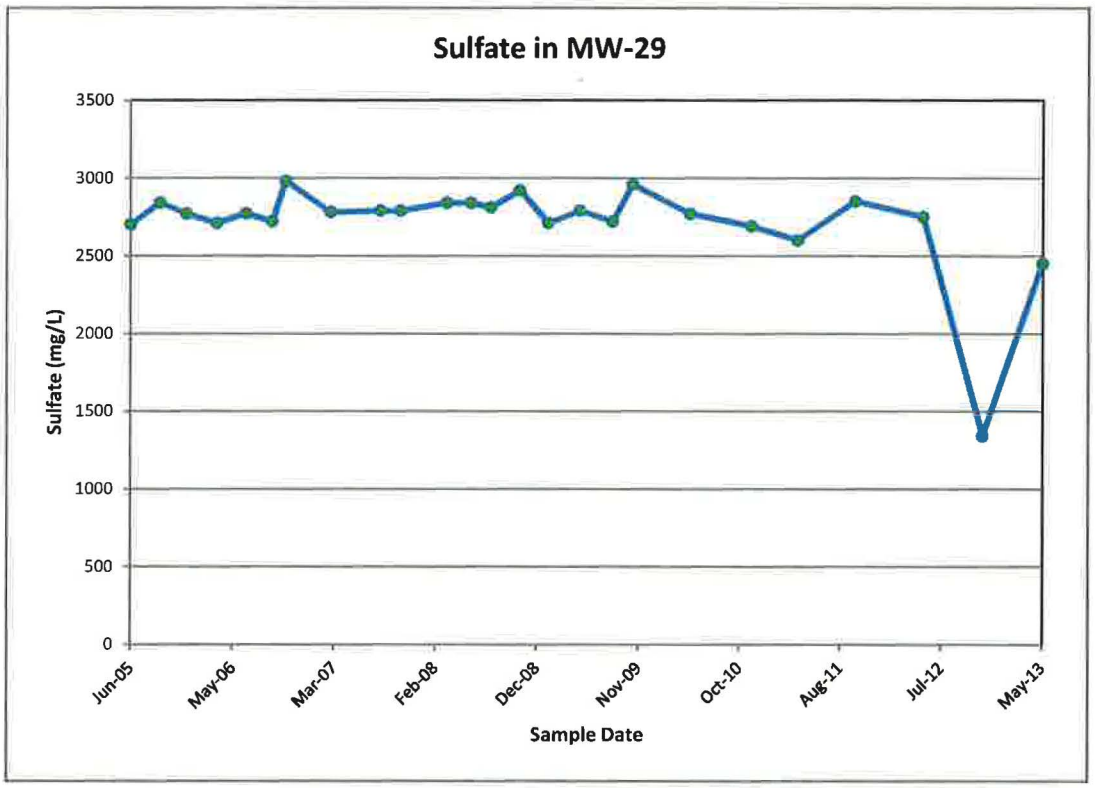


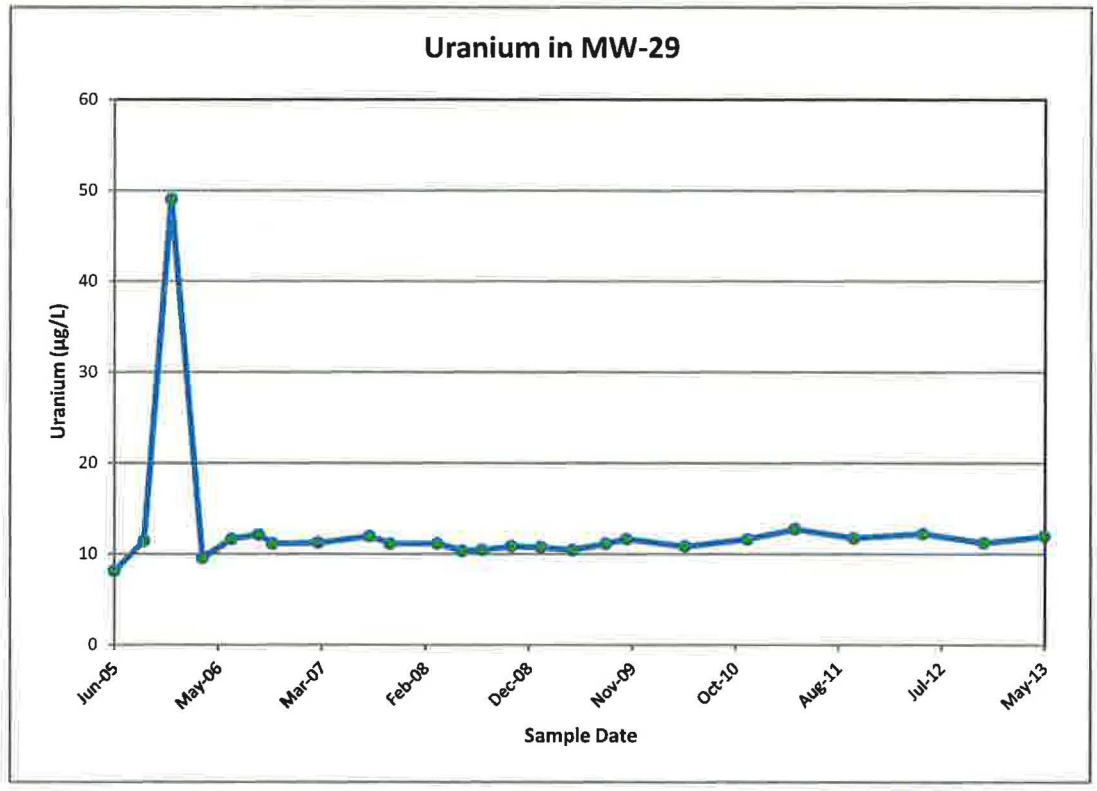


Detected Values

Non-Detected Values

Time concentration plots for MW-29

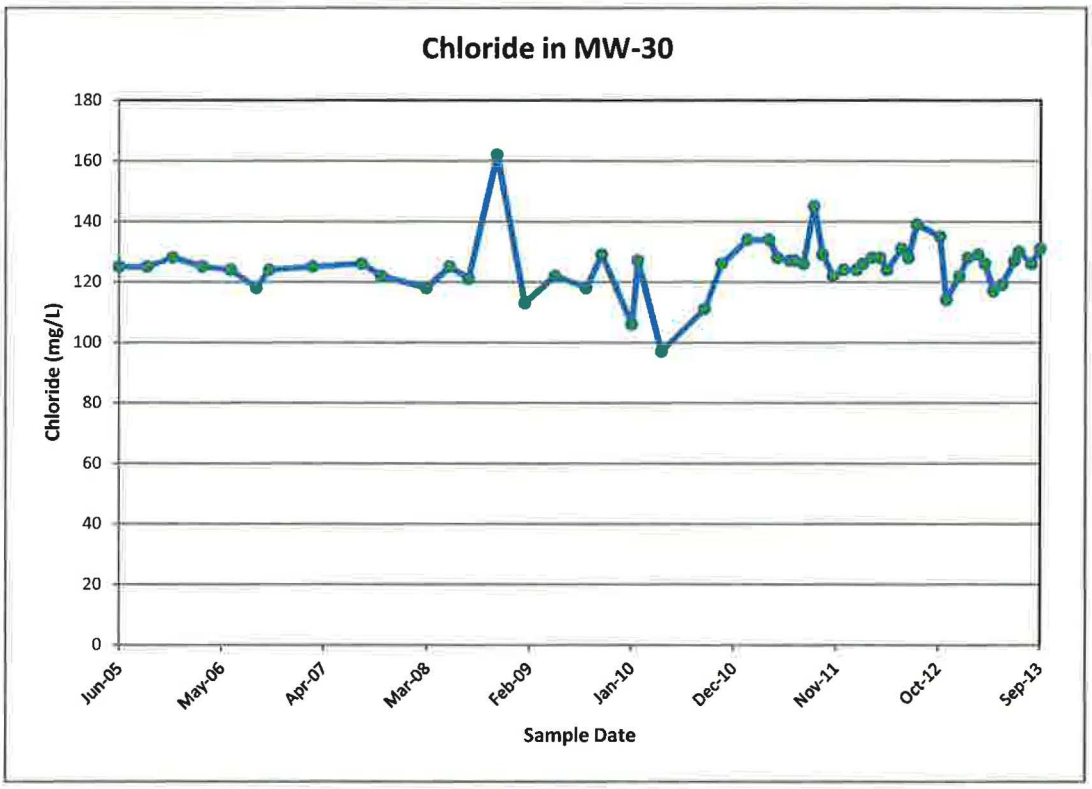


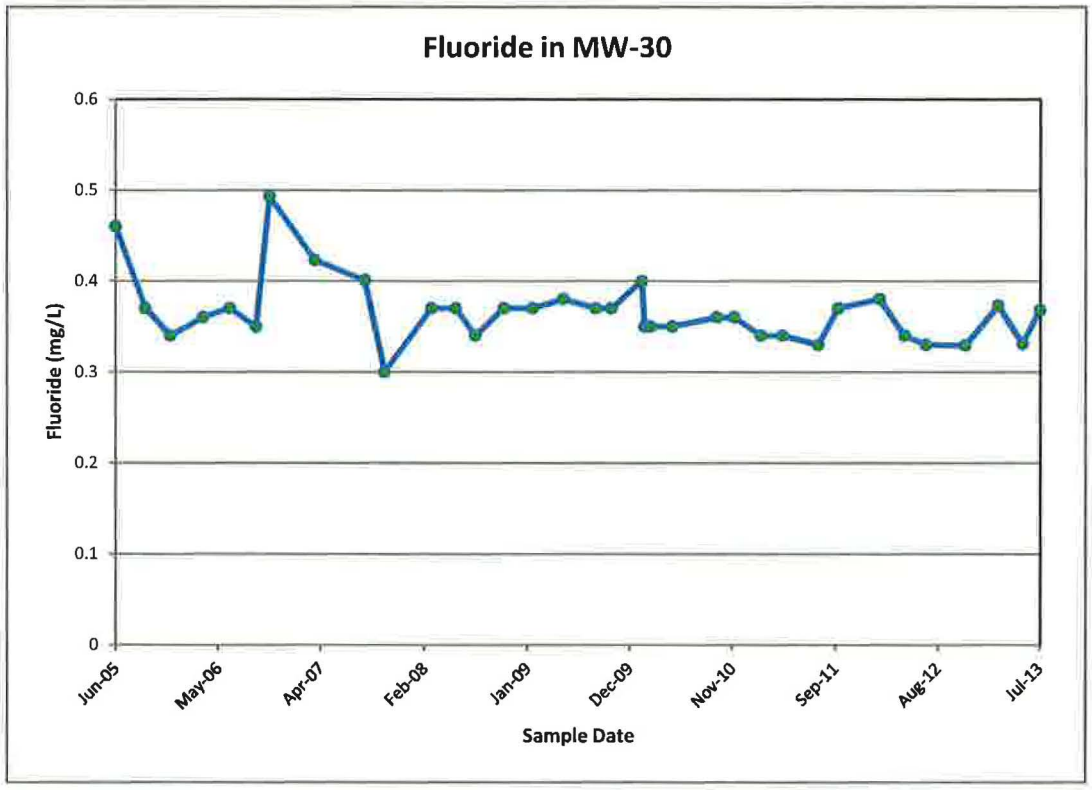


Detected Values

Non-Detected Values

Time concentration plots for MW-30

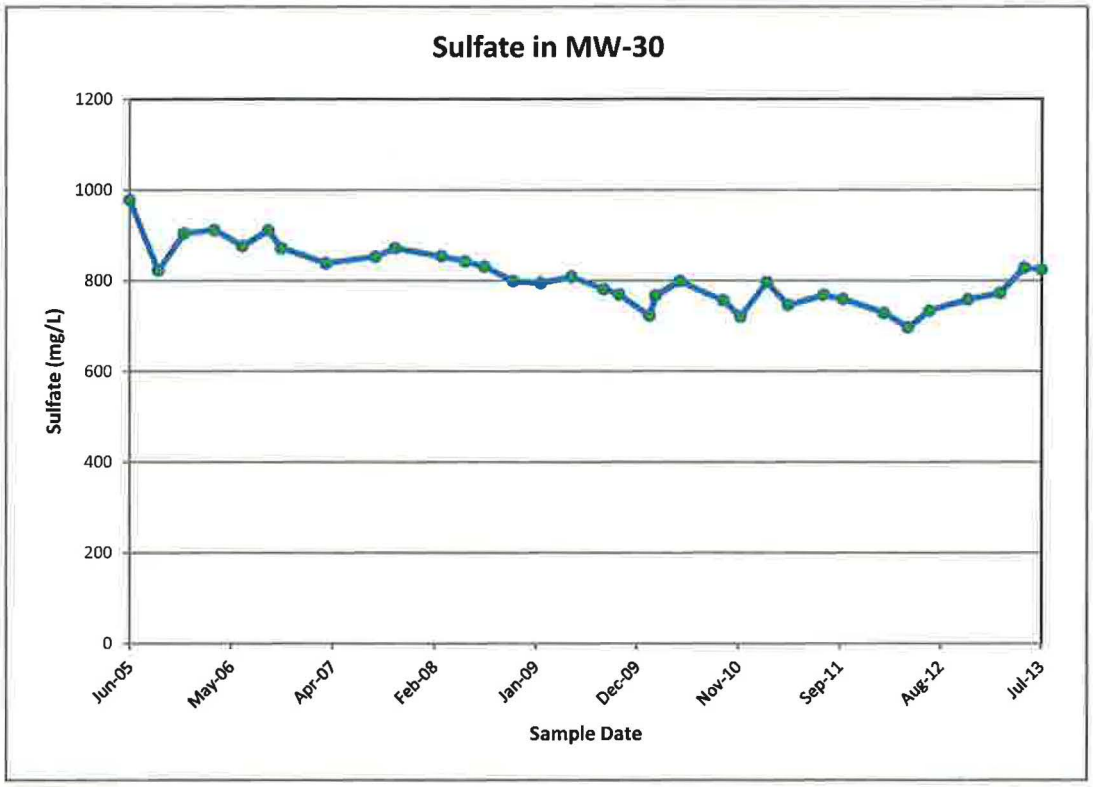


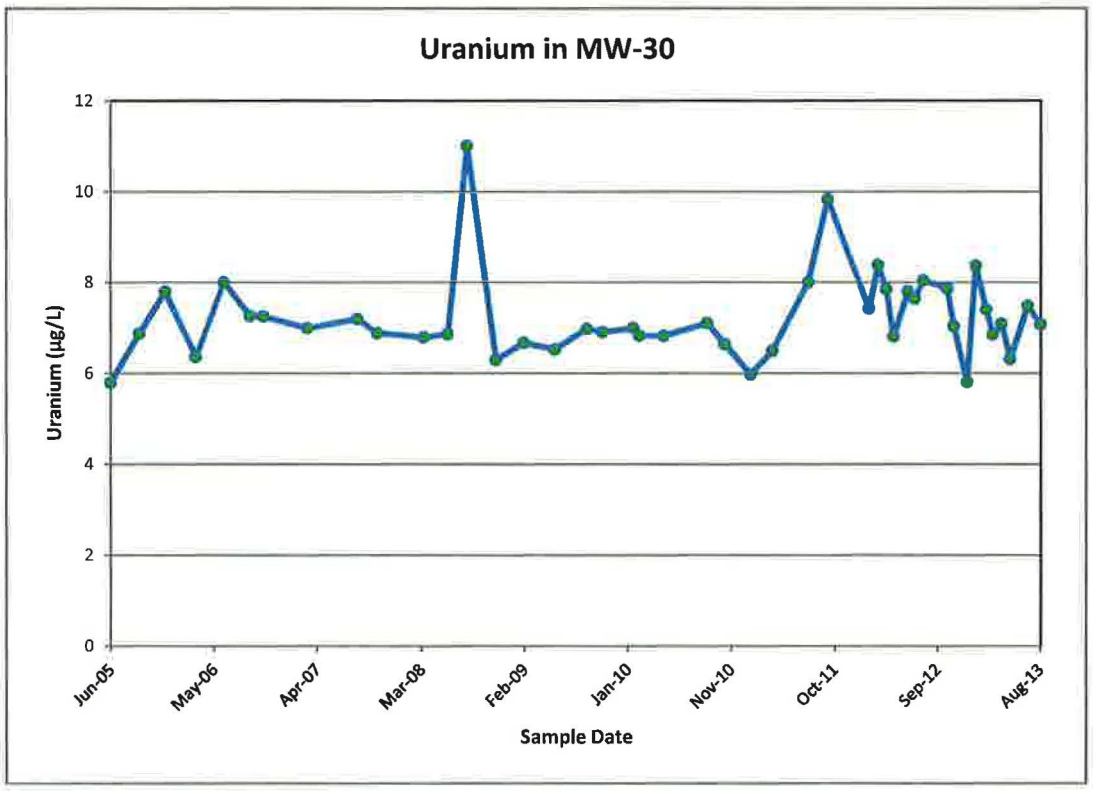


Detected Values

Non-Detected Values

Time concentration plots for MW-30

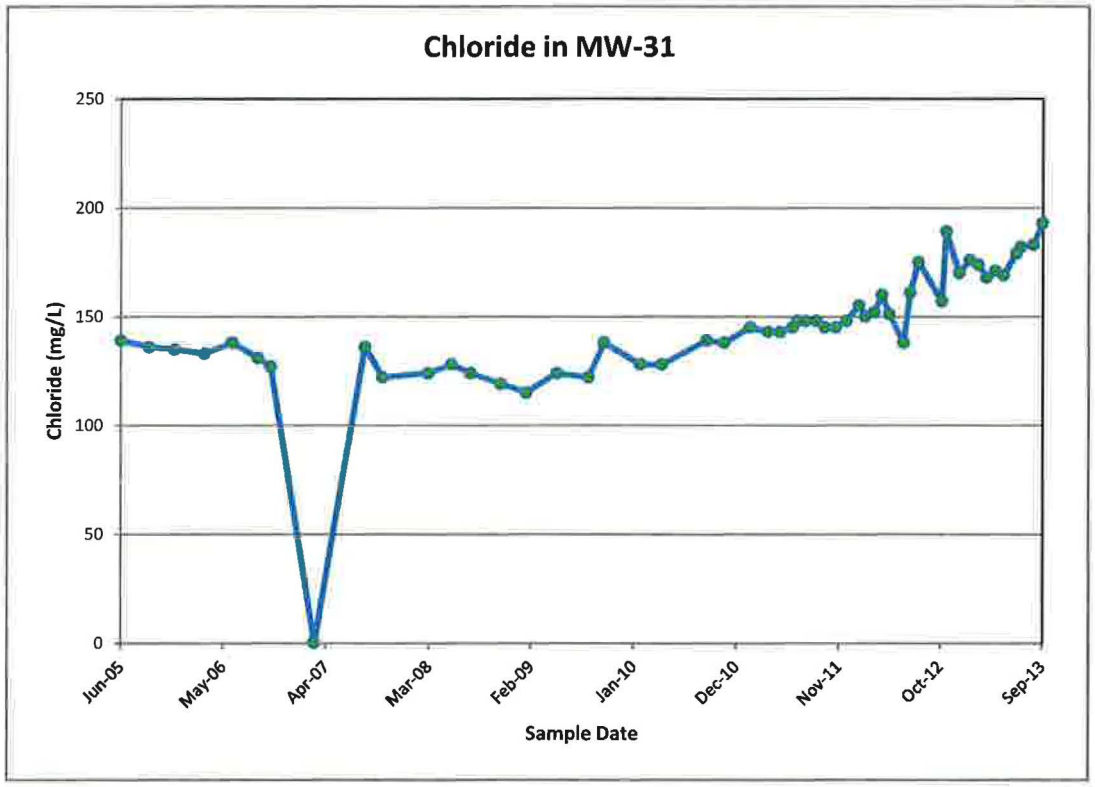


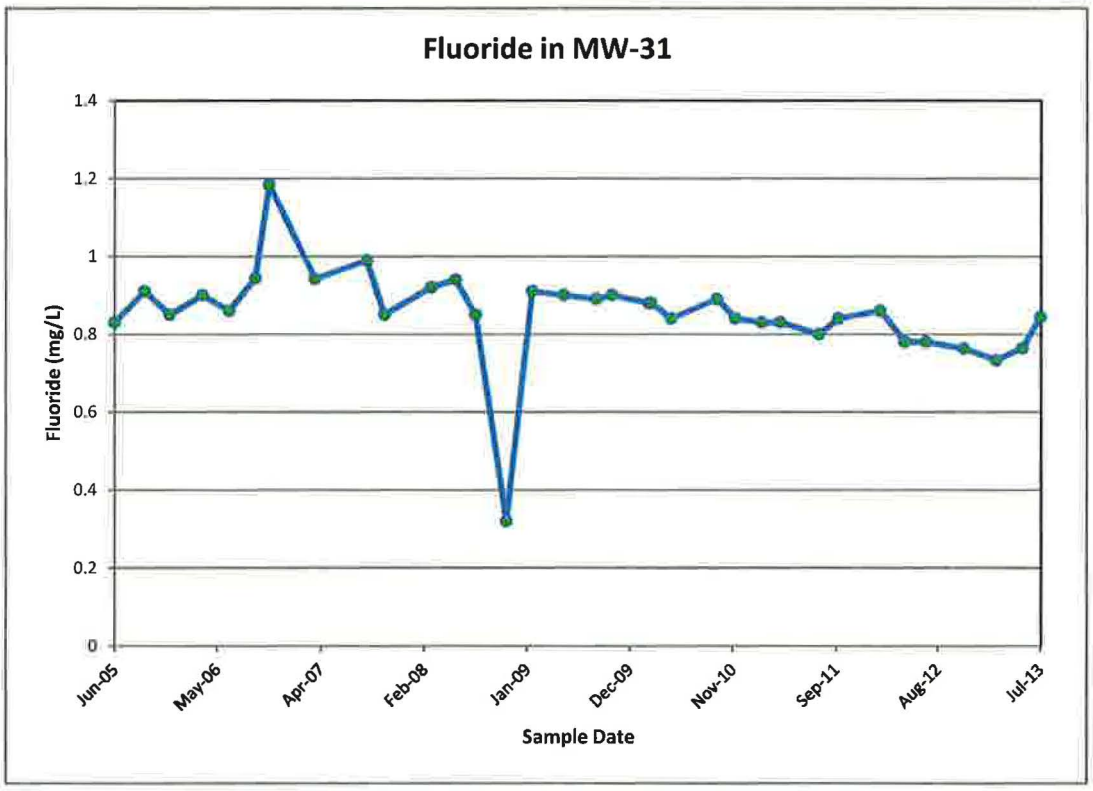


Detected Values

Non-Detected Values

Time concentration plots for MW-31

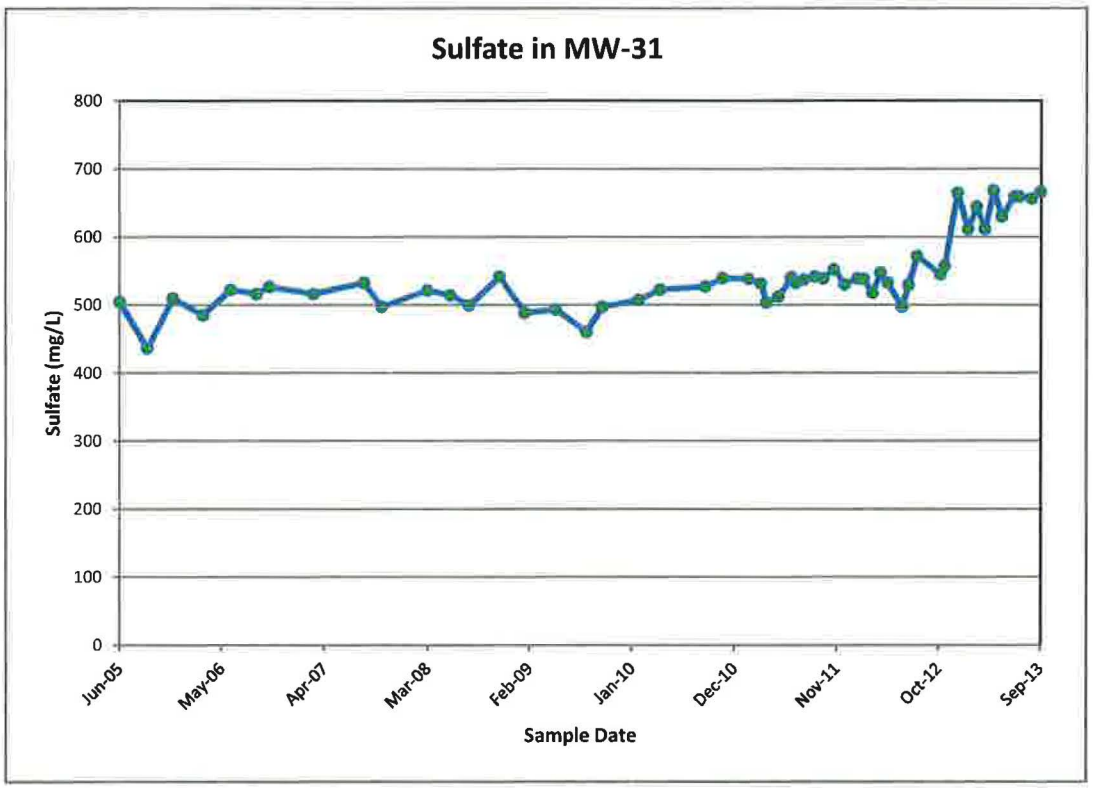


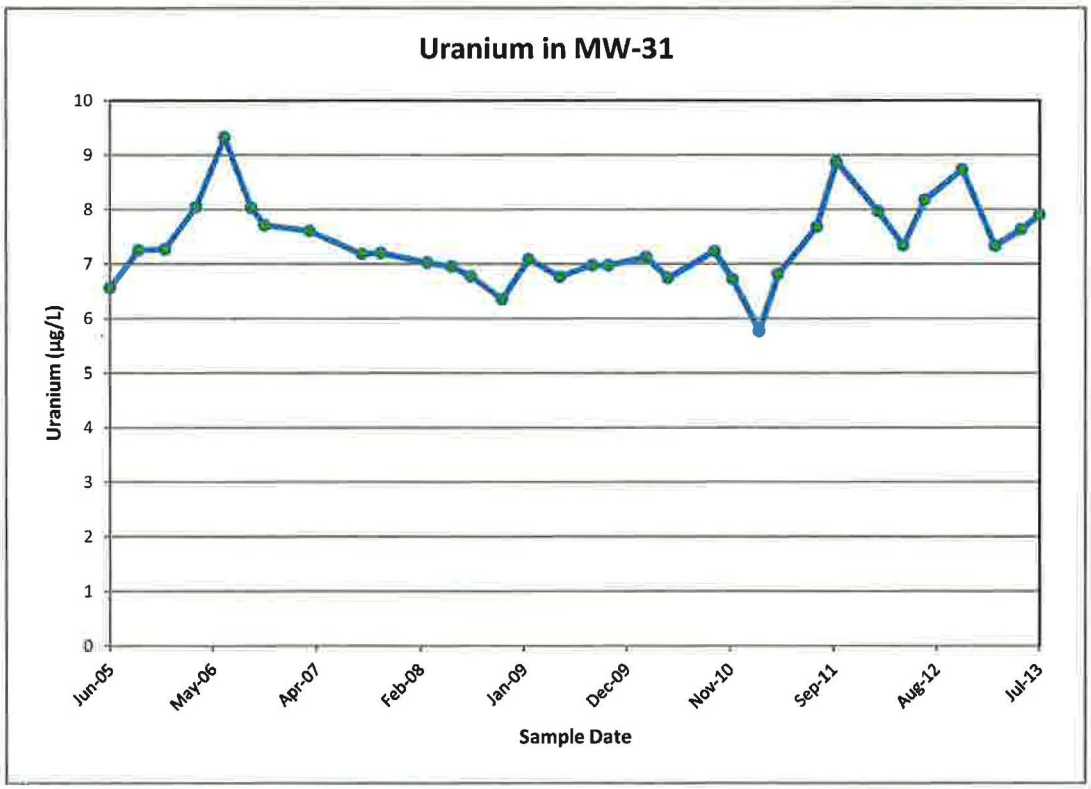


Detected Values

Non-Detected Values

Time concentration plots for MW-31

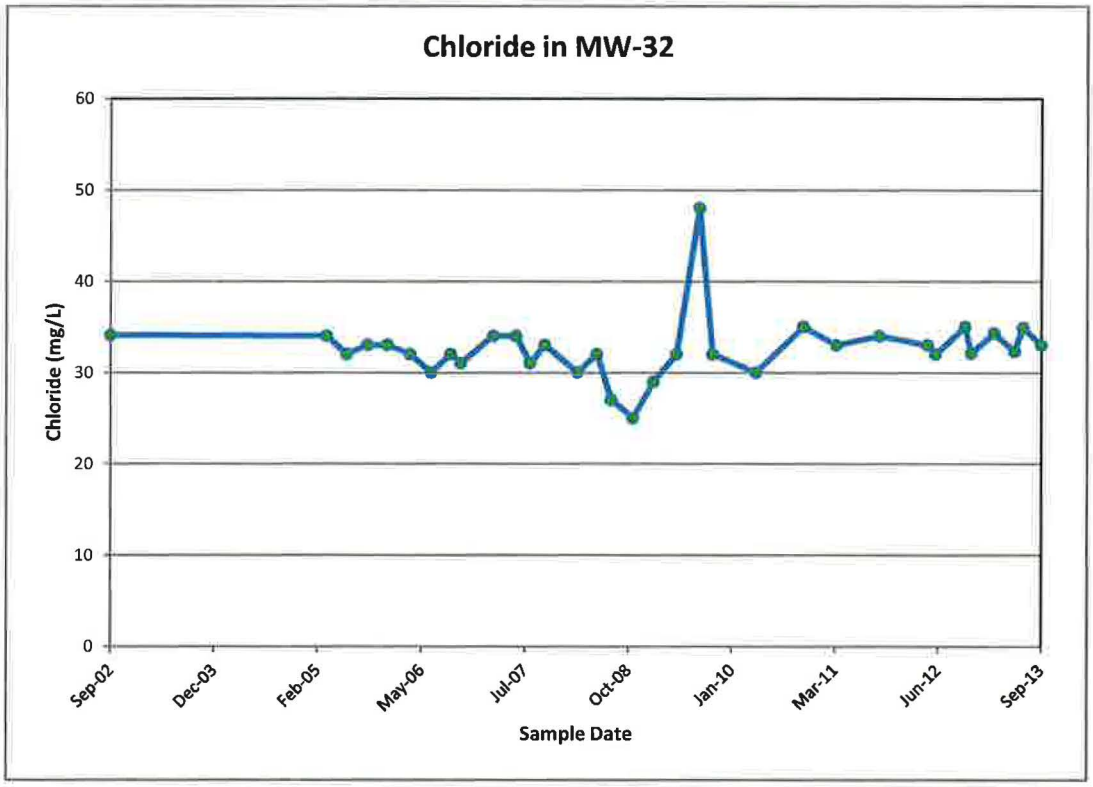


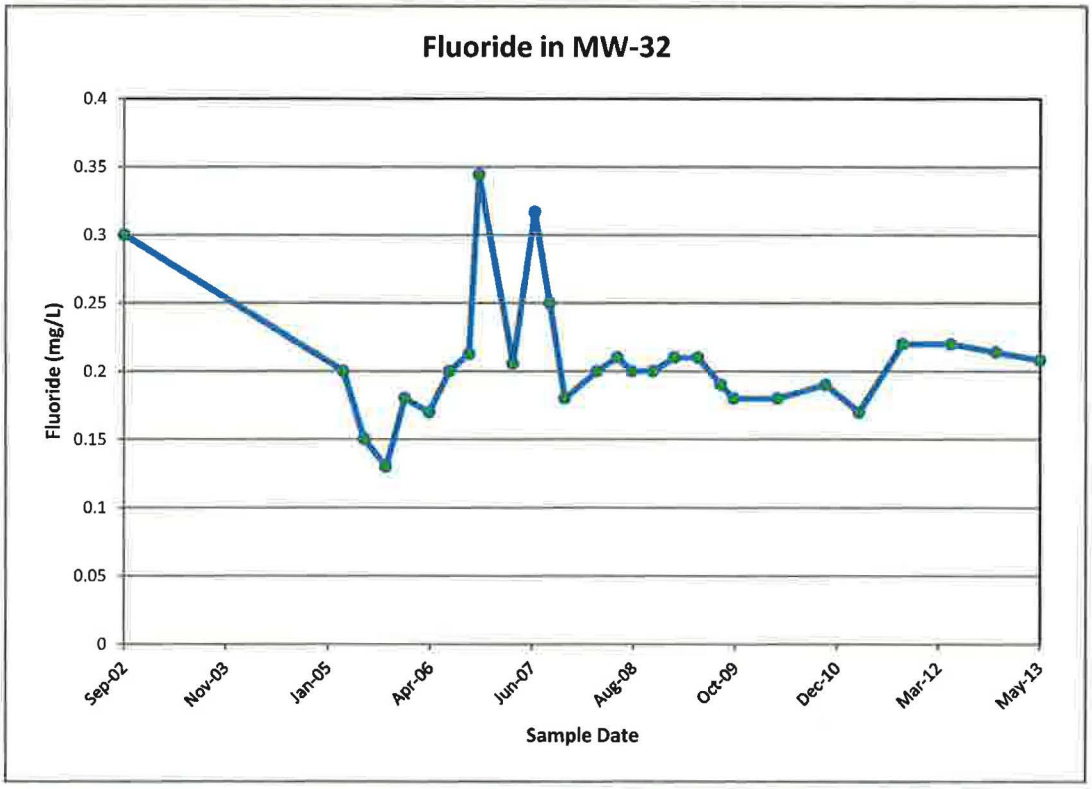


Detected Values

Non-Detected Values

Time concentration plots for MW-32

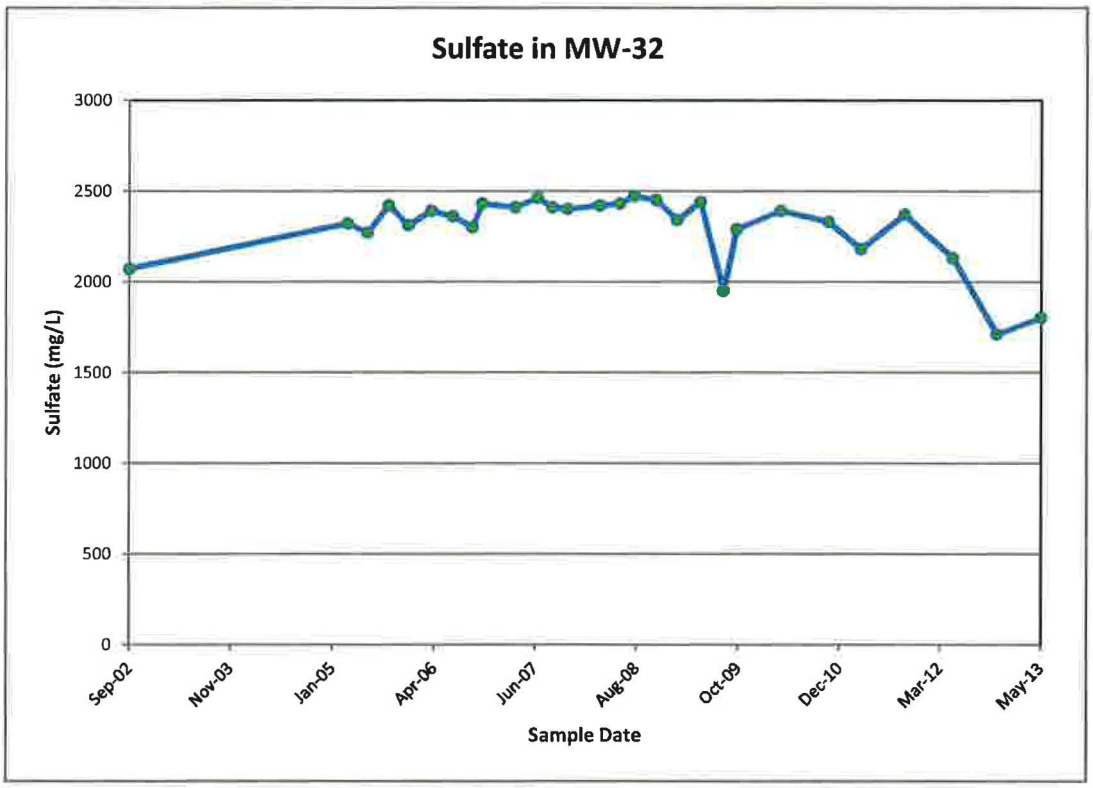


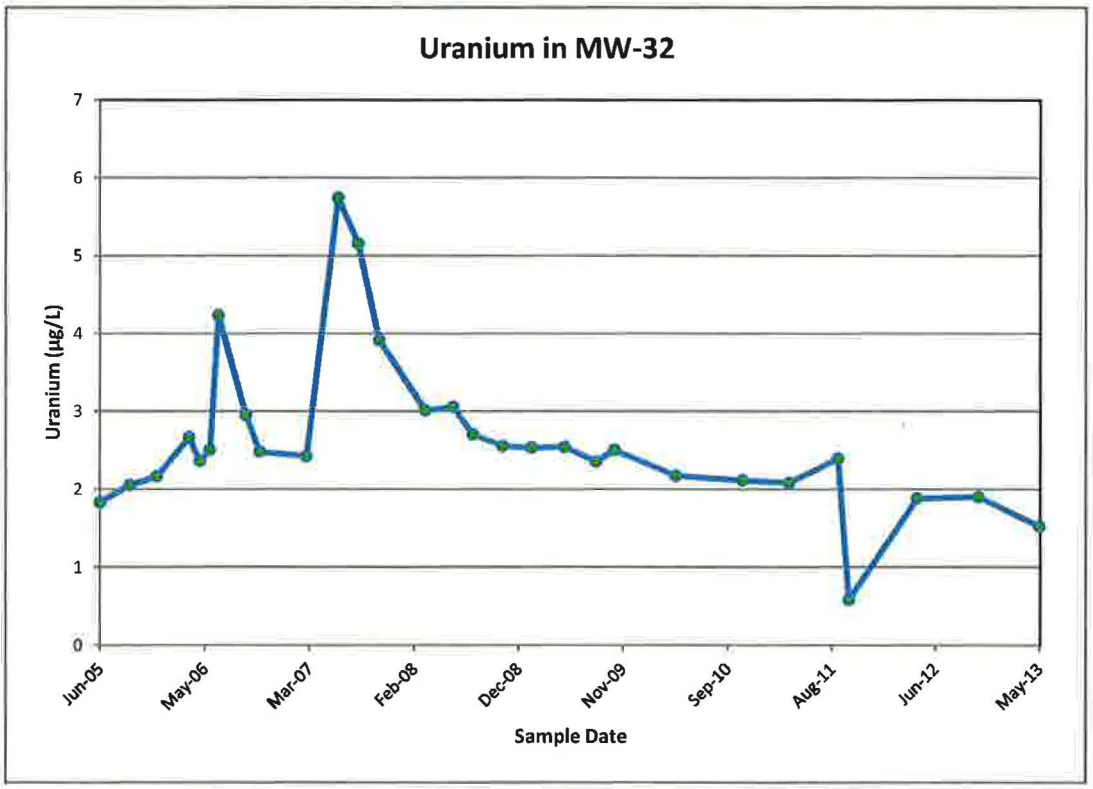


Detected Values

Non-Detected Values

Time concentration plots for MW-32

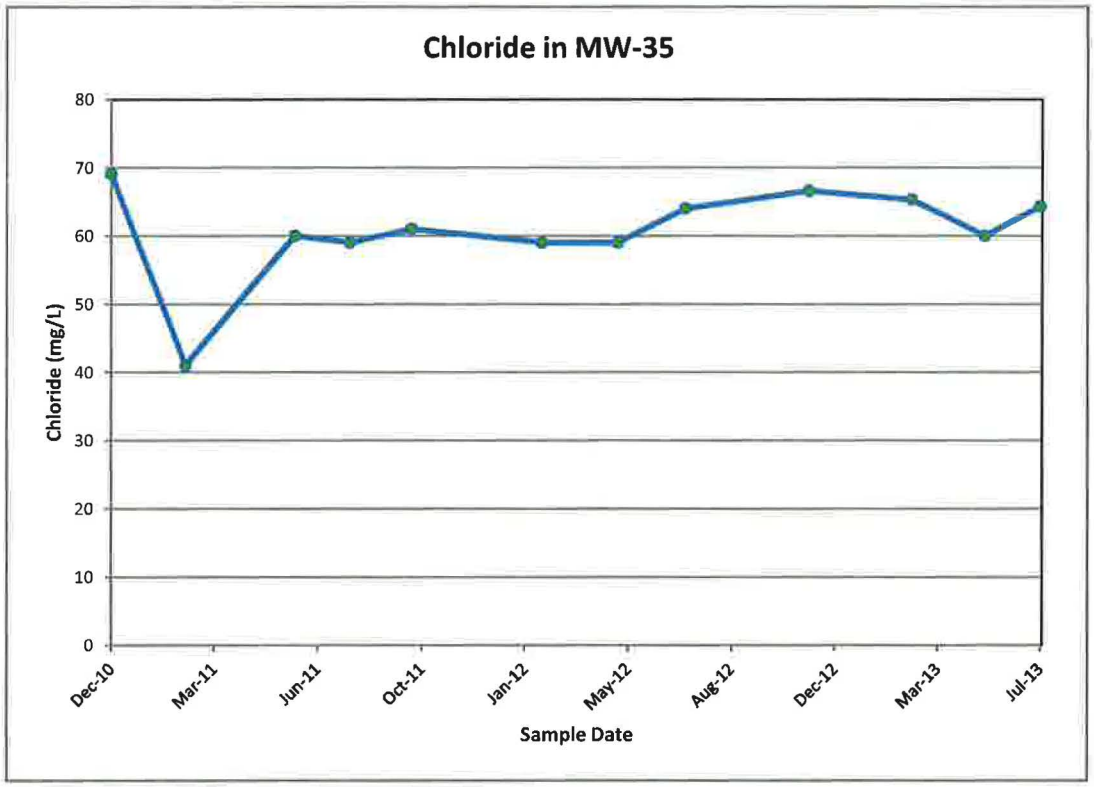


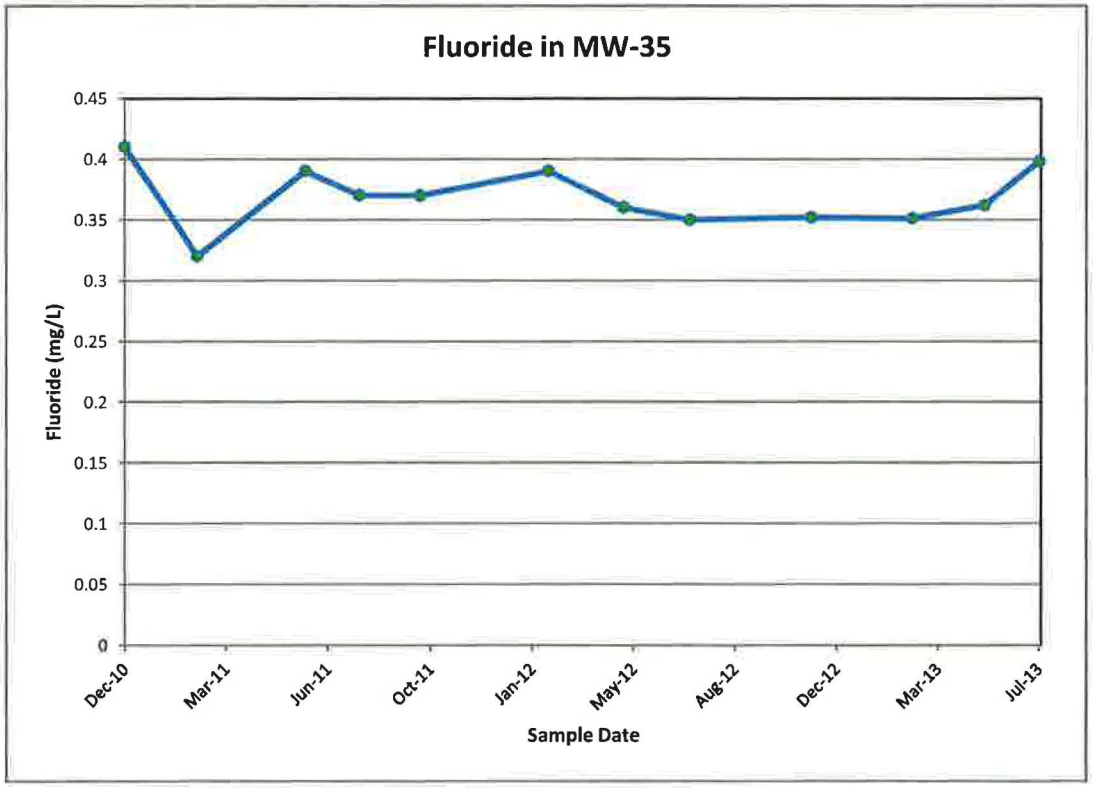


Detected Values

Non-Detected Values

Time concentration plots for MW-35

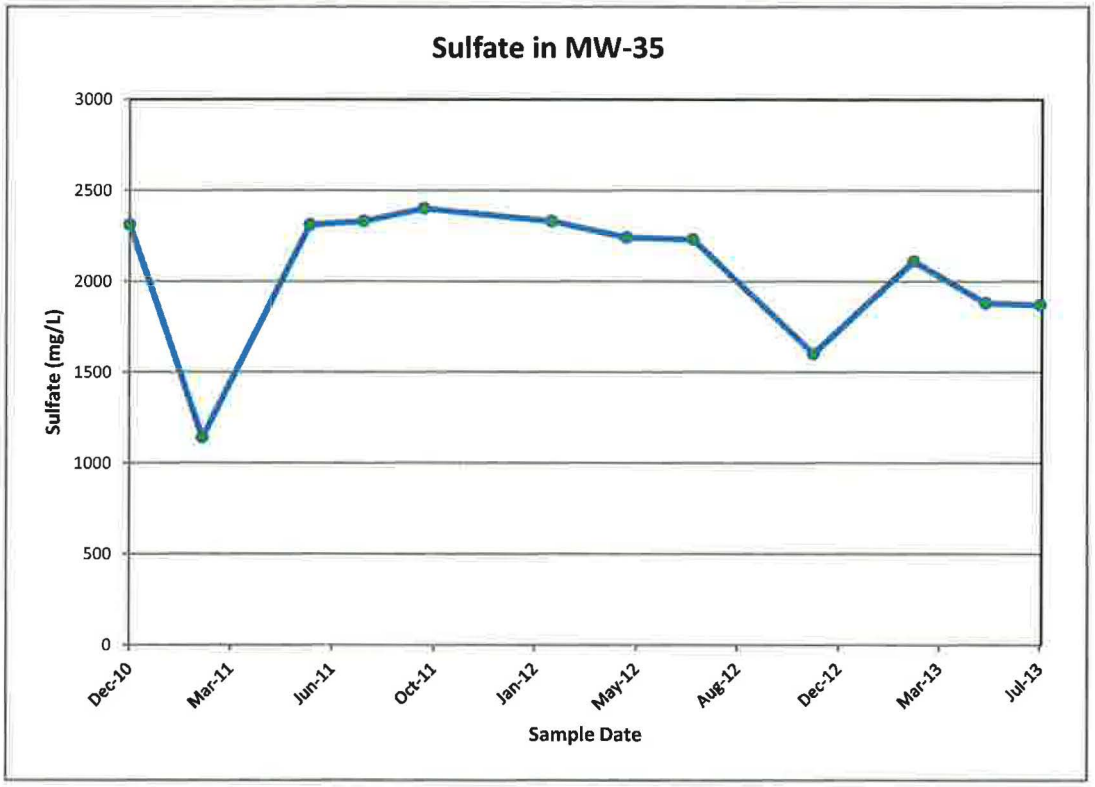


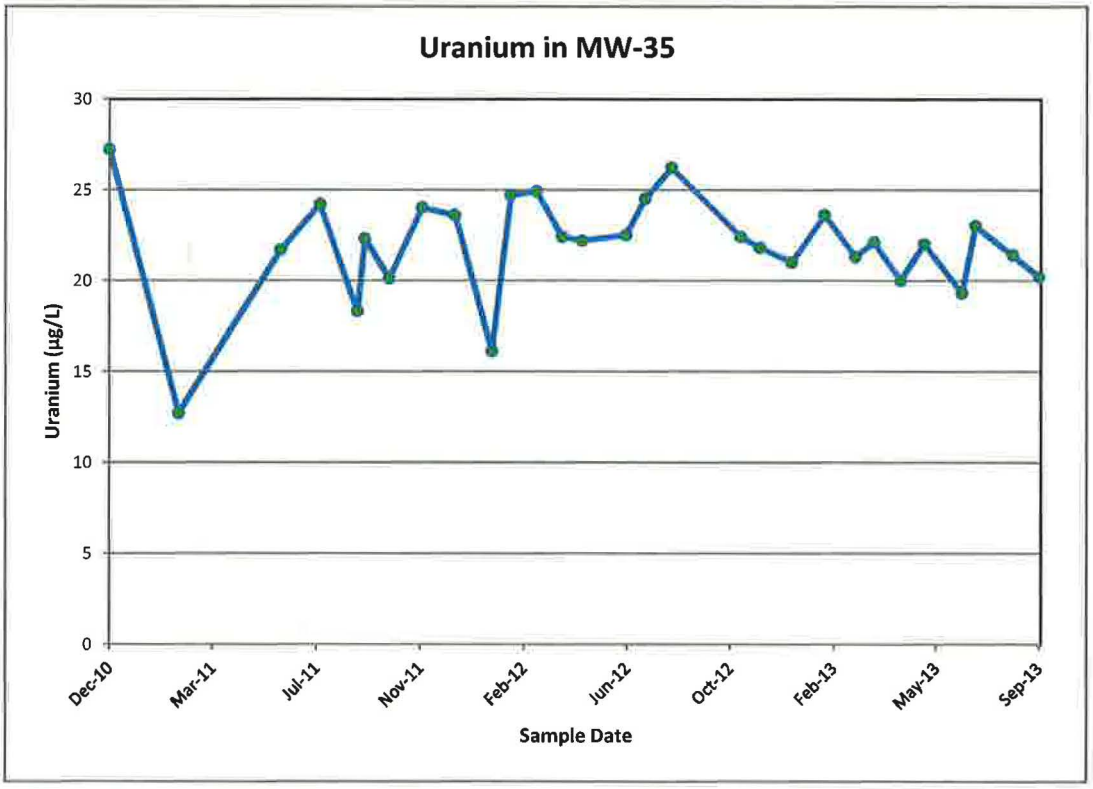


Detected Values

Non-Detected Values

Time concentration plots for MW-35

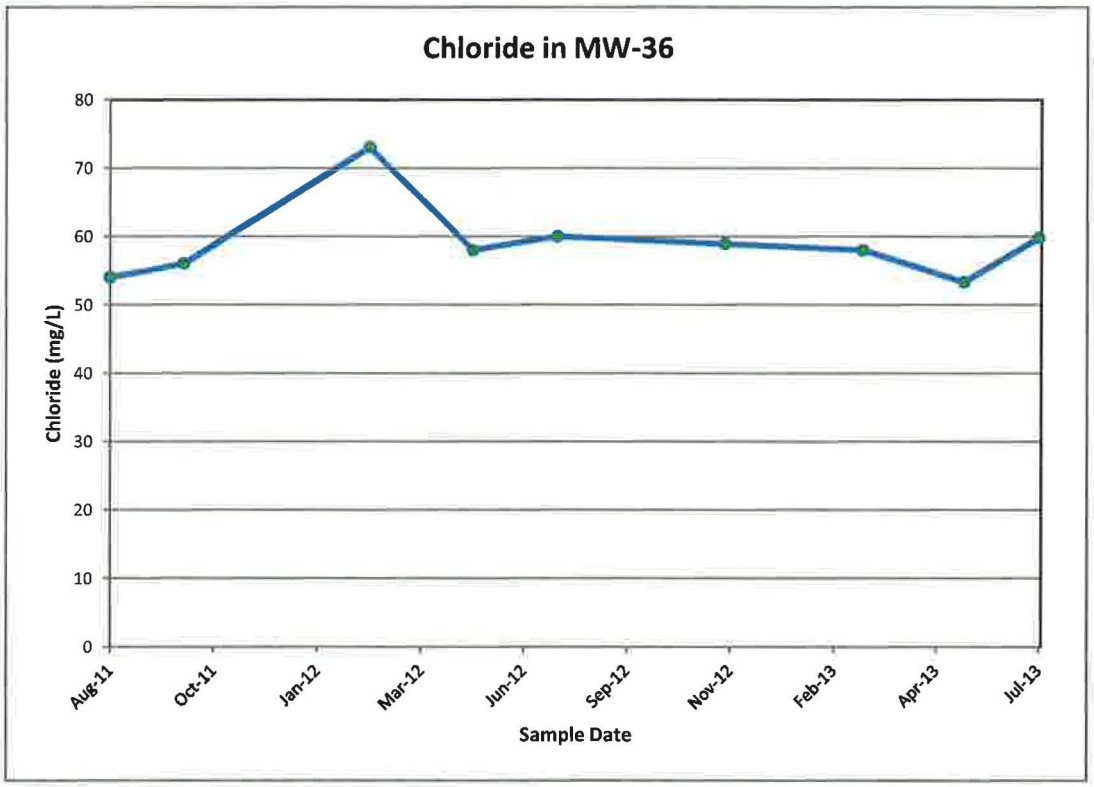


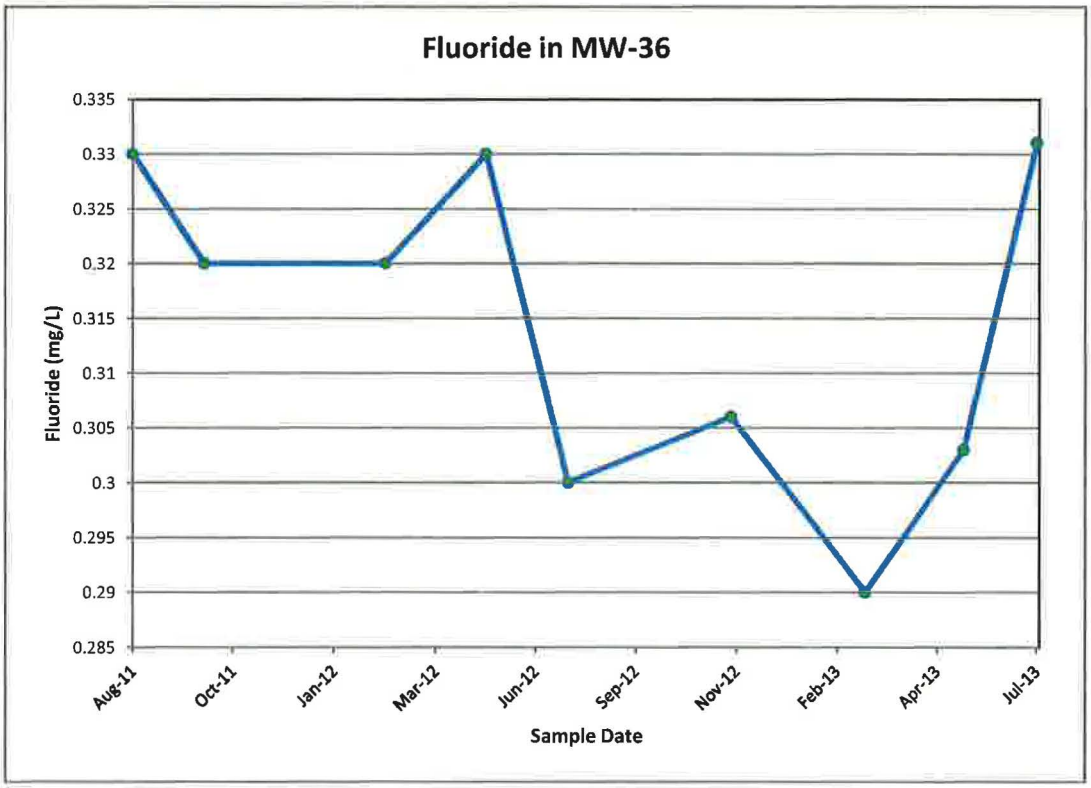


Detected Values

Non-Detected Values

Time concentration plots for MW-36

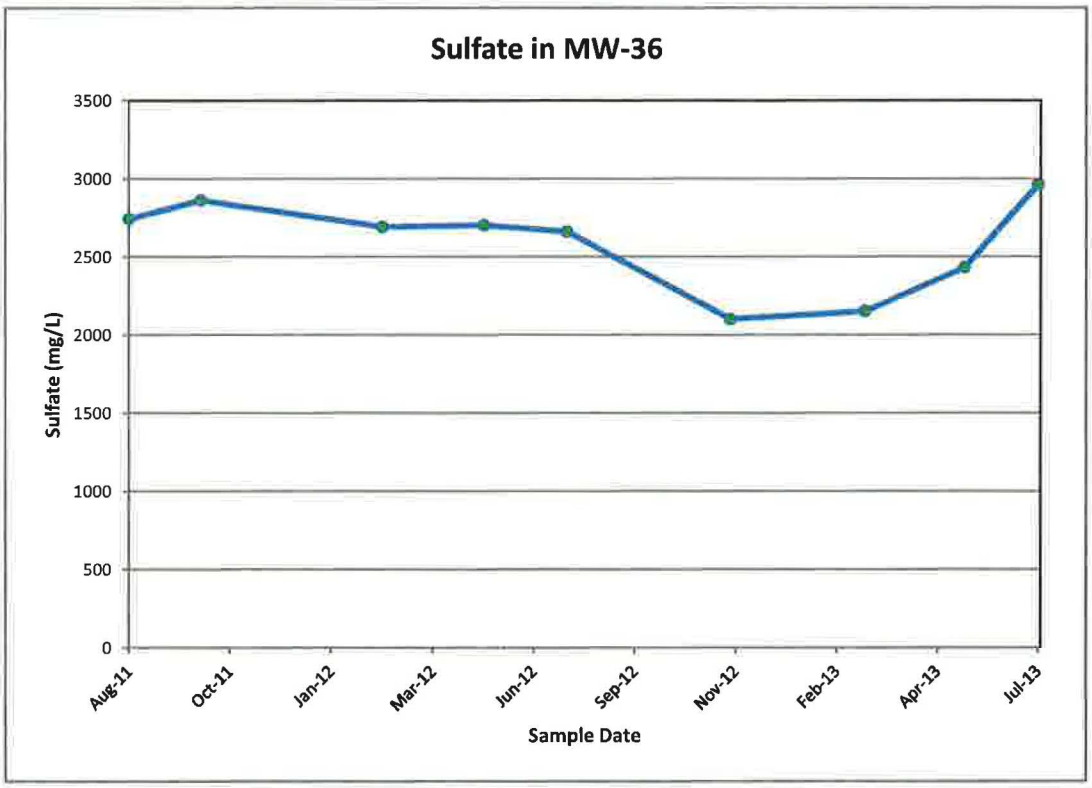


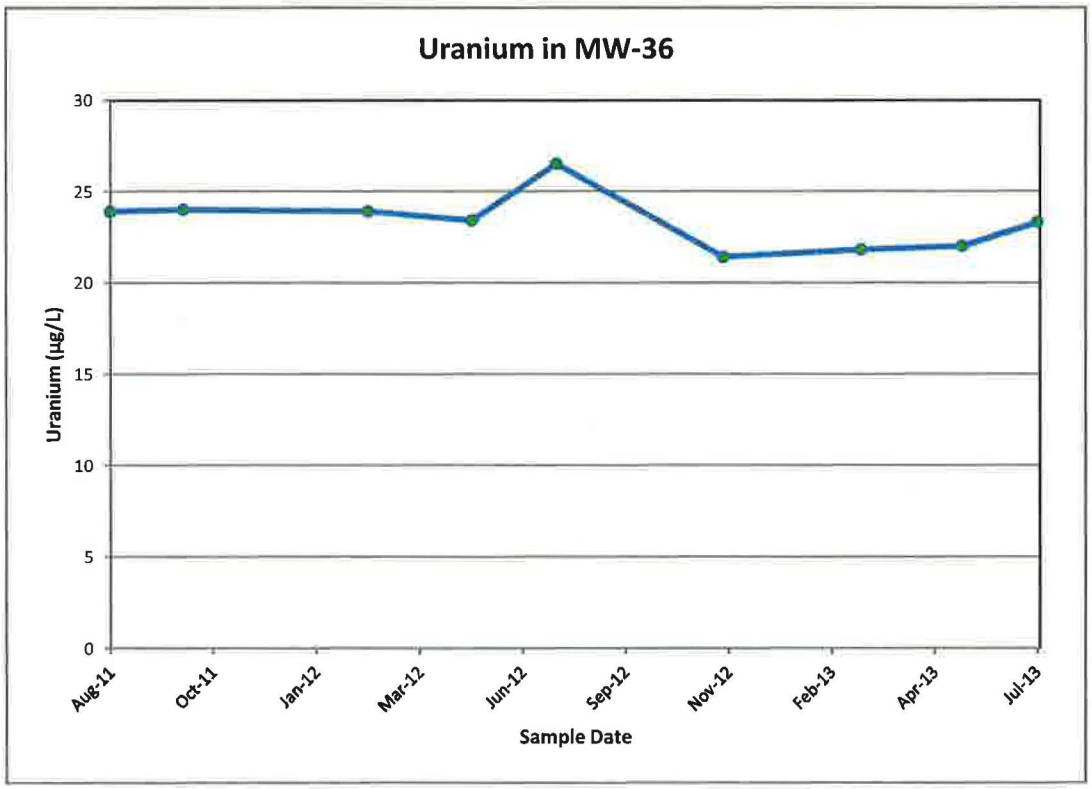


Detected Values

Non-Detected Values

Time concentration plots for MW-36

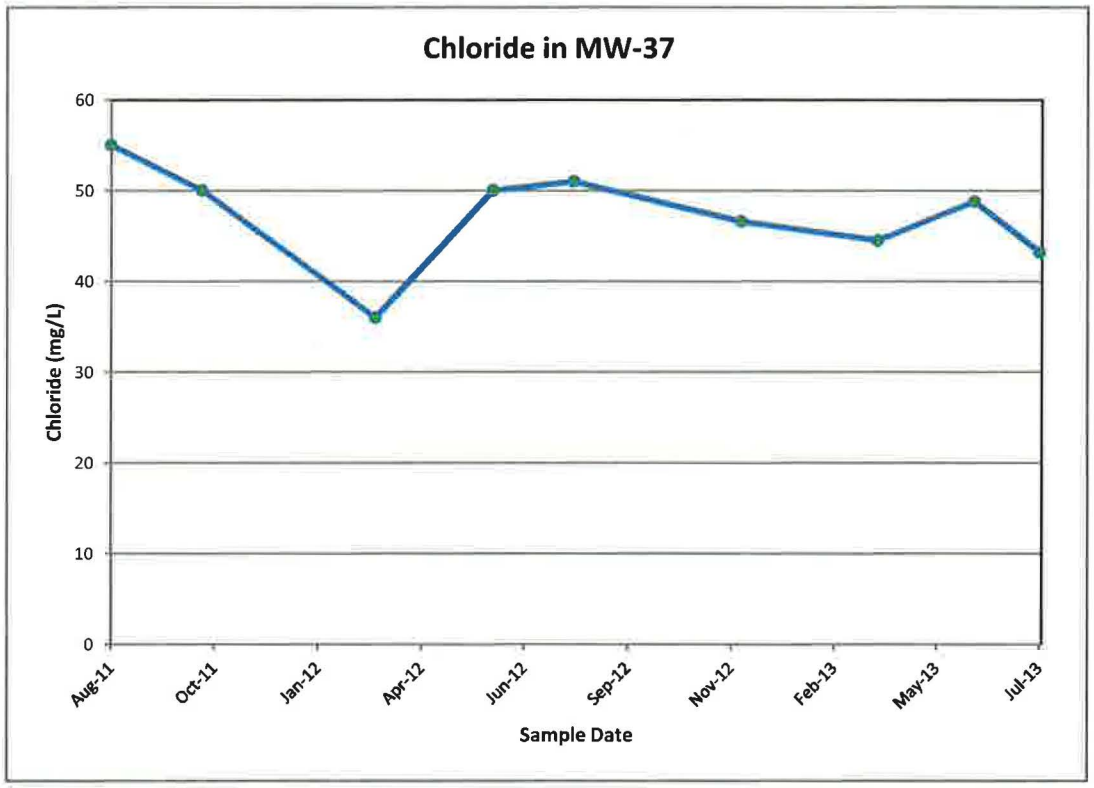


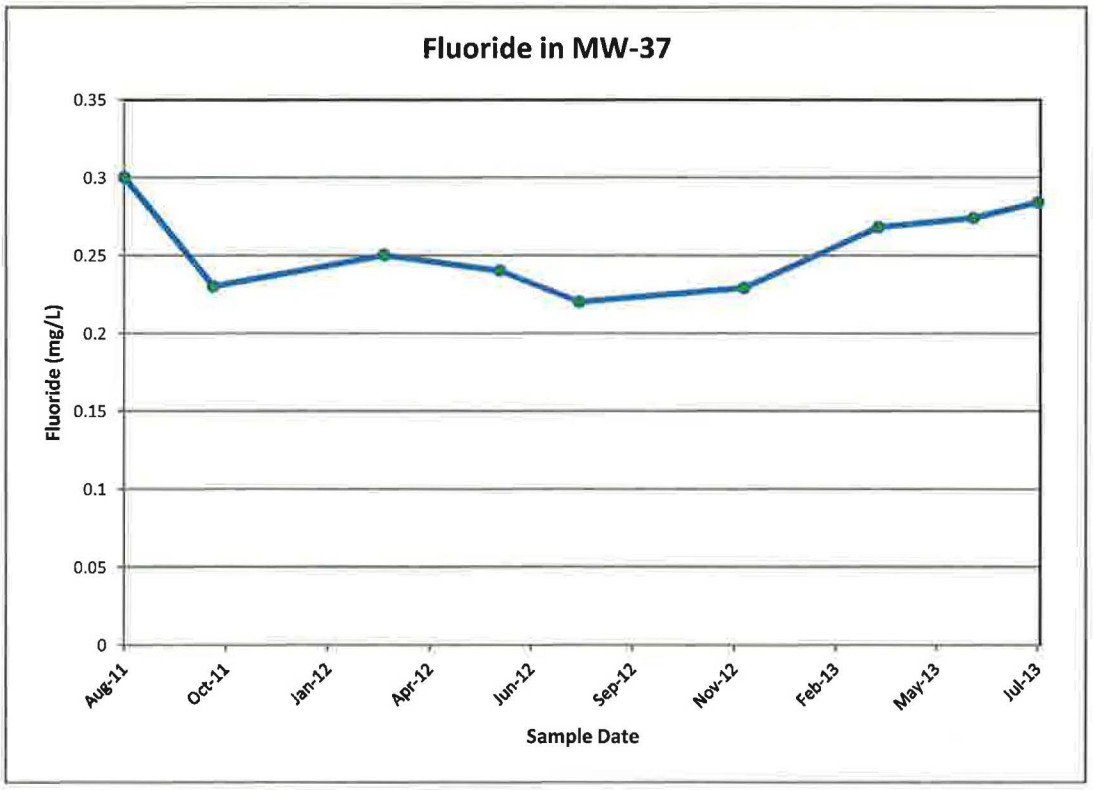


Detected Values

Non-Detected Values

Time concentration plots for MW-37

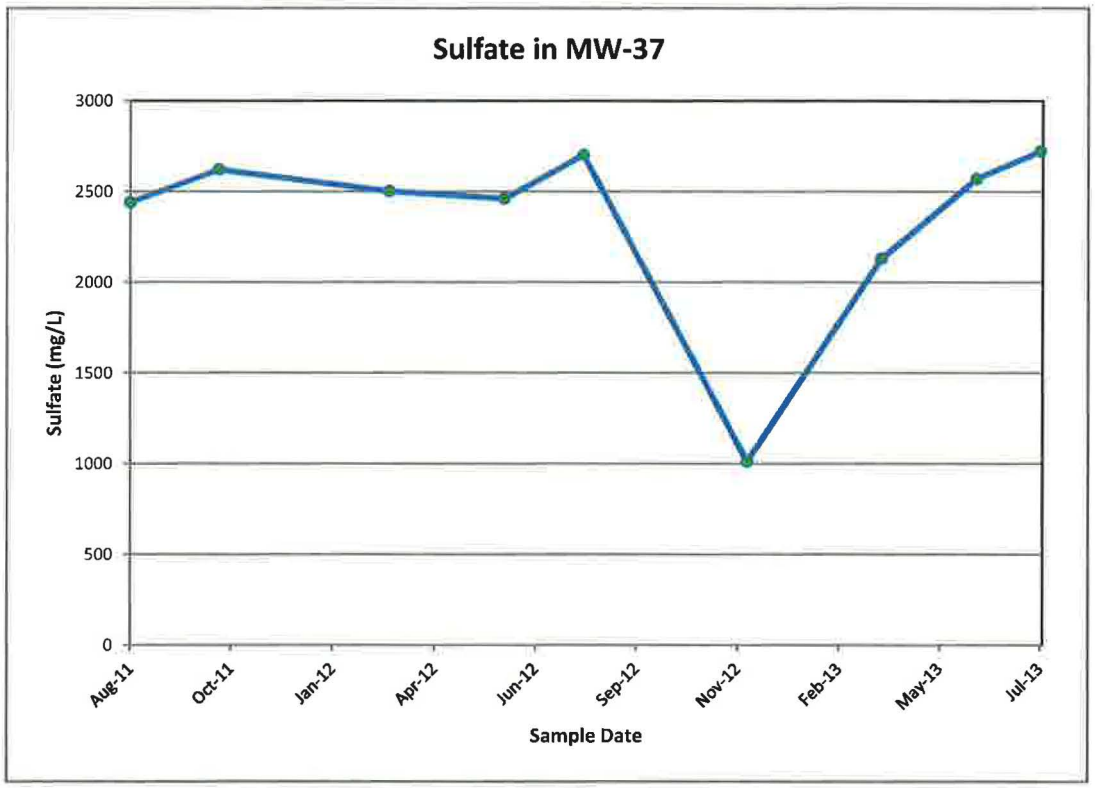


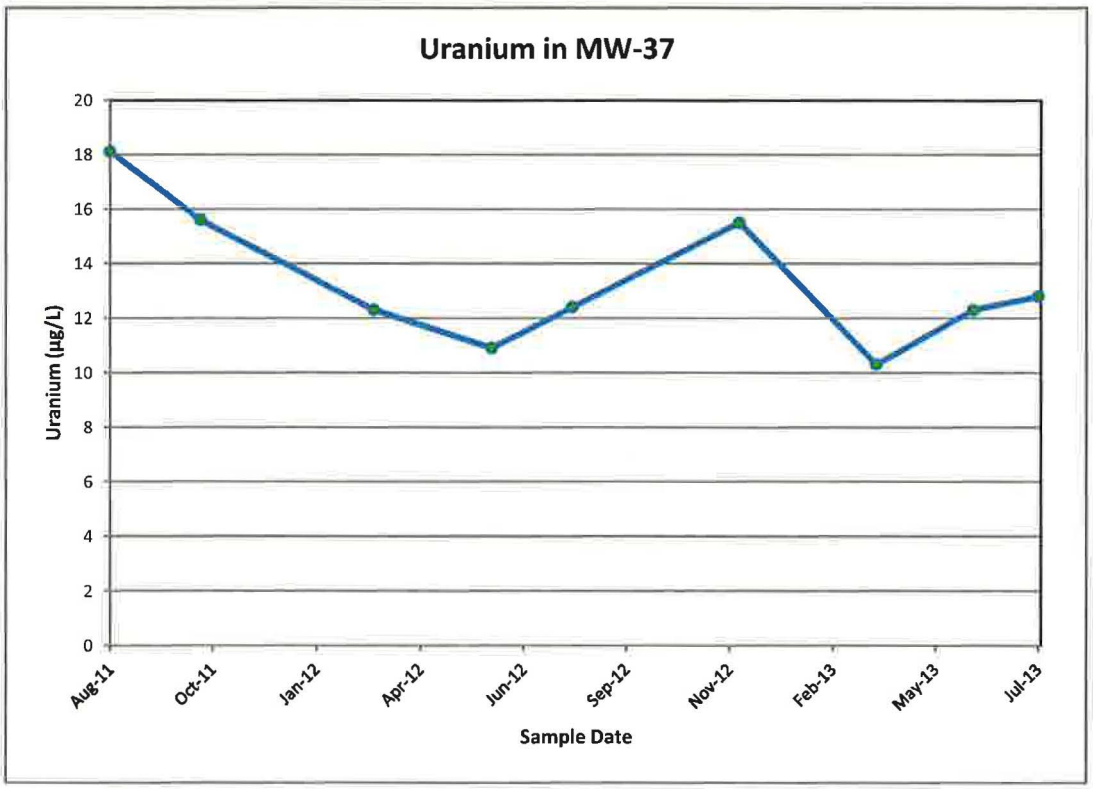


Detected Values

Non-Detected Values

Time concentration plots for MW-37





Detected Values

Non-Detected Values

Tab J

CSV Transmittal Letter

Kathy Weinel

From: Kathy Weinel
Sent: Wednesday, November 20, 2013 9:19 AM
To: Rusty Lundberg
Cc: 'Phillip Goble'; 'Thomas Rushing'; Harold Roberts; David Frydenlund; Frank Filas, P.E; Dan Hillsten; David Turk; Jaime Massey; Jo Ann Tischler
Subject: Transmittal of CSV Files White Mesa Mill 2013 Q3 Groundwater Monitoring
Attachments: Q3_2013_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 third quarter of 2013, 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