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DRC-2023-001738

VIA Expedited Delivery

February 20, 2023

Mr. Doug Hansen
Director of Division of Waste Management and Radiation Control
Utah Department of Environmental Quality
195 North 1950 West
P.O. Box 144880
Salt Lake City, UT 84116

**Re: Transmittal of Annual Seeps and Springs Monitoring Report
Groundwater Quality Discharge Permit UGW370004 White Mesa Uranium Mill**

Dear Mr. Hansen:

Enclosed are two copies of the White Mesa Uranium Mill Annual Seeps and Springs Monitoring Report for 2022 as required by the Groundwater Quality Discharge Permit UGW370004, as well as two CDs that contain a word searchable electronic copy of this report.

If you should have any questions regarding this report please contact me at 303-389-4134.

Yours very truly,

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

ENERGY FUELS RESOURCES (USA) INC.
Kathy Weinel
Director, Regulatory Compliance

CC: David Frydenlund
Scott Bakken
Logan Shumway
Garrin Palmer
Jordan App
John Uhrie



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White Mesa Uranium Mill
2022 Annual Seeps and Springs Sampling Report

State of Utah
Groundwater Discharge Permit No. UGW370004

Prepared by:



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

February 20, 2023

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ACRONYM LIST

AWAL	American West Analytical Laboratory
DR	Dry Ridge Piezometers
DWMRC	Utah Division of Waste Management and Radiation Control
EFRI	Energy Fuels Resources (USA) Inc.
GEL	GEL Laboratories, Inc.
GWQS	Groundwater Quality Standard
LCS	Laboratory Control Spike
Mill	White Mesa Mill
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Permit	State of Utah Groundwater Discharge Permit No. UGW370004
QA	Quality Assurance
QAP	Groundwater Monitoring Quality Assurance Plan
QC	Quality Control
RPD	Relative Percent Difference
TDS	Total Dissolved Solids
VOCs	Volatile Organic Compounds

ANNUAL SEEPS AND SPRINGS SAMPLING REPORT

1.0 INTRODUCTION

This is the 2022 Annual Seeps and Springs Sampling Report for the Energy Fuels Resources (USA) Inc. (“EFRI”) White Mesa Mill (the “Mill”), as required under Part I.F.7 of the Mill’s State of Utah Groundwater Discharge Permit No. UGW370004 (the “Permit”) and the Mill’s *Sampling and Analysis Plan for Seeps and Springs*, Revision: 2, July 8, 2016 (the “Sampling Plan”).

The *Sampling Plan for Seeps and Springs* was revised in July 2016 to incorporate changes requested by the Division of Waste Management and Radiation Control (“DWMRC”). The *Sampling Plan for Seeps and Springs*, Revision: 2, July 8, 2016 was approved by DWMRC by letter dated August 8, 2016.

2.0 SAMPLING EVENTS

Seeps and springs which were identified near the Mill in the 1978 Environmental Report (Plate 2.6-10, Dames and Moore, January 30, 1978) are to be sampled annually in accordance with the Sampling Plan and Part I.E.6 of the Permit. The Sampling Plan specifies the following sample locations: Corral Canyon Seep, Corral Springs, Ruin Spring, Cottonwood Seep, Westwater Seep and Entrance Spring (also referred to as Entrance Seep).

2.2 2022 Sampling

In accordance with the Permit and the Sampling Plan, DWMRC was notified of the annual sampling events. On March 28, 2022 EFRI collected the Westwater Seep sample. On May 10, 2022, EFRI collected seeps and springs samples from Cottonwood Seep, Ruin Spring, Entrance Seep, and Back Spring (duplicate of Cottonwood Seep). The DWMRC representative was present for May 10, 2022 sampling event and collected a “split” sample from the EFRI sampling equipment, using sample containers he provided. Corral Canyon Seep and Corral Springs were dry during the annual sampling event.

2.3 Repeat Visits to Dry Seeps and Springs.

Corral Canyon Seep and Corral Springs, were visited once per calendar quarter in 2022. The visits were conducted in March, May, August and November 2022. Corral Canyon Seep and Corral Springs, were dry during all of the visits, could not be sampled, and did not warrant development attempts with limited hand tool excavation at that time.

2.4 Sampling Procedures

Samples were collected and analyzed for the parameters listed in Table 2 of the Permit.

Samples were collected from the locations indicated in Table 1. Sampling procedures for each seep or spring are determined by the site location and access.

The DWMRC-approved sampling procedures for seeps and springs at the Mill are contained in the Sampling Plan. Samples collected under this plan were collected either by direct collection which involves collecting the sample directly into the sample container from the surface water feature or from spring out-flow, or by using a stainless steel ladle to collect water until a sufficient volume is contained in the ladle for transfer to the sample bottle. Filtered parameters are pumped through a 0.45 micron filter prior to delivery to the sample bottle.

Ruin Spring

In the case of Ruin Spring, sample bottles for the analytes collected during the May sampling event (except gross alpha and heavy metals) were filled directly from the spring out-flow which is a pipe. Samples for heavy metals and gross alpha were collected by means of a peristaltic pump and delivered directly to the sample containers through a 0.45 micron filter. The appropriate preservatives for the analytical technique were added to the samples.

Westwater Seep

Westwater Seep, was “developed” prior to the sampling event by Field Personnel. Development was completed by removing surrounding vegetation and clearing the sampling location in the spring or seep area. All of the sample containers were filled by means of a peristaltic pump and delivered directly to the sample containers. Samples for heavy metals and gross alpha were collected by means of a peristaltic pump and delivered directly to the sample containers through a 0.45 micron filter. The appropriate preservatives for the analytical technique were added to the samples.

Cottonwood Seep and Entrance Spring

Cottonwood Seep and Entrance Spring were “developed” prior to the sampling event by Field Personnel. Development was completed by removing surrounding vegetation and clearing the sampling location in the spring or seep area. The sample containers were filled by means of a peristaltic pump and delivered directly to the sample containers. In the case of the samples for heavy metals and gross alpha, the samples were delivered by a peristaltic pump directly to the sample containers through a 0.45 micron filter. The samples were preserved by the addition of the appropriate preservative for the analytical technique.

The tubing on the peristaltic pump that comes into contact with the sample water was disposed of between each sampling. As a result, no equipment required decontamination, and no rinsate samples were collected.

2.5 Field Data

Attached under Tab A are copies of the field data sheets recorded in association with the March and May seeps and springs monitoring events. Photographic documentation of the sampling sites is also included in Tab A. Sampling dates are listed in Table 1 and field parameters collected during the sampling program are included in Tab B.

2.6 Field QC Samples

The field Quality Control (“QC”) samples generated during the March and May sampling events included one trip blank per shipment to each laboratory which received samples for VOCs. The May sampling event included one duplicate to each laboratory which received samples for VOCs. The duplicate samples (Back Spring) were submitted blind to the analytical laboratory. As previously stated, no rinsate blanks were collected during this sampling event as only disposable equipment was used for sample collection.

3.0 SEEPS AND SPRINGS SURVEY AND CONTOUR MAP

Part I.F.7(c) of the Permit requires that a water table contour map that includes the elevations for each well at the facility and the elevations of the phreatic surfaces observed for each of the seeps and springs sampled be submitted with this annual report. Tab C includes two contour maps. The contour map labeled C-1 shows the water table without the water level data associated with the dry ridge (“DR”) investigation piezometers. The contour map labeled C-2 shows the water table with the water level data associated with the DR investigation piezometers. It is important to note that Cottonwood Seep is not included in any of the perched water level contouring, because there is no evidence to establish a hydraulic connection between Cottonwood Seep and the perched water system. Cottonwood Seep is located near the Brushy Basin Member/Westwater Canyon Member contact, approximately 230 feet below the base of the perched water system defined by the Burro Canyon Formation/Brushy Basin Member contact. The stratigraphic position of Cottonwood Seep indicates that its elevation is not representative of the perched potentiometric surface. Exclusion of the Cottonwood Seep from water level contouring is consistent with previous submissions. The contour map includes the corrected survey data from December 2009 as discussed below.

Part I.F.7 (g) of the Permit requires that survey data for the seeps and springs be collected prior to the collection of samples. DRC previously clarified that the requirement to submit survey data applies only to the first sampling event and not on an annual basis. The December 2009 and July 2010 seeps and springs survey data shown in Tab C will be used for reporting where seeps and springs locations and elevations are relevant.

A full discussion of the survey data and the hydrogeology of seeps and springs at the margins of White Mesa in the vicinity of the Mill and the relationship of these seeps and springs to the hydrogeology of the site, in particular to the occurrence of a relatively shallow perched groundwater zone beneath the site, is contained in *Hydrogeology of the Perched Groundwater Zone and Associated Seeps and Springs Near the White Mesa Uranium Mill Site*, dated November 12, 2010, prepared by Hydro Geo Chem, Inc. and submitted to the Director on November 15, 2010. Additional information is also contained in the *Second Revision Hydrogeology of the Perched Groundwater Zone in the Area Southwest of the Tailings Cells White Mesa Mill Site*, dated November 7, 2012, prepared by Hydro Geo Chem, Inc. and submitted to the Director on November 7, 2012.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL

4.1 Laboratory Results

Analytical results are provided by the Mill's two contract analytical laboratories GEL Laboratories, Inc., ("GEL") and CHEMTECH-FORD Laboratories ("CTF").

The laboratories utilized during this investigation were certified under the Environmental Lab Certification Program administered by UDEQ Bureau of Lab Improvement for the analyses they completed.

The analytical data as well as the laboratory Quality Assurance ("QA")/QC summaries are included under Tab D.

4.2 DATA EVALUATION

The Permit requires that the annual seeps and springs sampling program be conducted in compliance with the requirements specified in the Mill's approved White Mesa Uranium Mill Groundwater Monitoring Quality Assurance Plan ("QAP"), the approved Sampling Plan and the Permit. To meet this requirement, the data validation completed for the seeps and springs sampling program verified that the program met the requirements outlined in the QAP, the Permit and the approved Sampling Plan. The Mill Director, Regulatory Compliance performed a QA/QC review to confirm compliance of the monitoring program with requirements of the Permit and the 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 4.5.1. Discussion of adherence to the Sampling Plan is provided in Section 4.3. Analytical completeness review results are provided in Section 4.4. The steps and tests applied to check laboratory data QA/QC are discussed in Sections 4.5.1 through 4.5.9 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 and Analytical Request Record forms for each set of analytical results, follow the analytical results under Tab D. Results of the review of the laboratory QA/QC information are provided under Tab E and discussed in Section 4.5 below.

4.3 Adherence to Sampling Plan and Permit Requirements

On a review of adherence by Mill personnel to the Permit, the Director, Regulatory Compliance observed that QA/QC requirements established in the Permit and the QAP were met and that the requirements were implemented as required except, as noted below.

The Permit only requires the measurement of the field parameters pH, conductivity and temperature. Field parameter measurements collected during this sampling event included pH, conductivity, temperature, redox potential, and turbidity.

4.4 Analyte Completeness Review

The analyses required by the Permit Table 2 were completed.

4.5 Data Validation

The QAP and the Permit identify the data validation steps and data quality control checks required for the seeps and springs monitoring program. Consistent with these requirements, the Director, Regulatory Compliance performed 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 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 E.

4.5.1 Field Data QA/QC Evaluation

The Director, Regulatory Compliance performs a review of field recorded parameters to assess their adherence with QAP and Permit requirements. The assessment involved review of the Field Data sheets. Review of the Field Data Sheets noted that the requirements for field data collection were met.

4.5.2 Holding Time Evaluation

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

4.5.3 Laboratory Receipt Temperature Check

Chain of Custody sheets were reviewed to confirm compliance with the sample receipt requirements specified in the QAP. Sample receipt temperature checks are provided under Tab E. The samples were received within the QAP required temperature limit.

4.5.4 Analytical Method Check

The analytical methods reported by both laboratories were checked against the required methods specified in Table 1 of the QAP. Analytical method check results are provided in Tab E.

CTF analyzed ammonia by method A4500-NH3 H. Table 1 of the QAP specifies A4500-NH3 G or E350.1. The method used by CTF is not included in the approved QAP however, method A4500-NH3 H is equivalent to E350.1. The difference between A4500-NH3 H and E350.1 is the originating and publishing entity. Method A4500-NH3 H is published in Standard Methods for the Examination of Water

and Wastewater and E350.1 is an EPA published method. The analytical data generation methods for both methods are similar and therefore, the data for the two methods are equivalent, comparable and usable for the intended purpose. There is no adverse effect on the data due to the use of an alternative method. The laboratory has been reminded to use only QAP listed methods.

4.5.5 Reporting Limit Evaluation

Reporting limits utilized by the laboratory were required to be equal to or lower than the GWQSS set out in Table 2 of the Permit. For Total Dissolved Solids (“TDS”), sulfate and chloride, for which Ground Water Quality Standards are not set out in Table 2 of the Permit, reporting limits specified in Part 1.E.6.e).(1) were used. Those reporting limits are 10 mg/L for TDS, and 1 mg/L for Sulfate and Chloride. The analytical method reporting limits reported by both laboratories were checked against the reporting limits specified in the Permit. Reporting limit evaluations are provided in Tab E. All analytes were measured and reported to the required reporting limits except the sample results that had the reporting limit raised due to sample dilution necessary to accommodate the analyte concentrations in the samples. In all cases the reported value for the analyte was higher than the increased detection limit.

It is important to note that the CTF reported some analytes lower than the GWDP required limits (equivalent to the GWQSS). All previous data were reported to the GWQS as required by the GWDP. These lower RLs resulted in detections being reported in 2022 that have never been reported before. These detections are not indicative of increasing analyte concentrations, but are indicative of lower RLs and low level detections.

4.5.6 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 evaluation is provided in Tab E. The trip blank results associated with the samples were less than the reporting limit for the VOCs.

4.5.7 QA/QC Evaluation for Sample Duplicates

Section 9.1.4 a) of the QAP states that the Relative Percent Difference (“RPD”) 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 (described as activities in the QAP) are less than 5 times the required detection limit. This standard is based on the United States Environmental Protection Agency 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 duplicate pairs for the 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%. RPDs are also only calculated when both the sample and the duplicate report a detection for any given analyte. If only one of the pair reports a detection, the RPD cannot be calculated. The additional duplicate information is provided for information purposes.

All duplicate results were within 20% RPD. The duplicate evaluation is provided in Tab E.

4.5.8 Radiologics Counting Error

Section 9.14 of the QAP requires that all gross alpha analysis reported with an activity equal to or greater than the Groundwater Compliance Limits set out in the Permit (for the seeps and springs samples the Groundwater Quality Standards ["GWQS"] will be used), 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 GWQS.

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.

All radiological results were reported were non-detect and therefore within acceptance limits. Results of routine radiologic sample QC are provided under Tab E.

4.5.9 Laboratory Matrix QC Evaluation

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 Director, Regulatory Compliance 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 E. The lab QA/QC results from both GEL and CTF met these requirements except as described below.

A number of the seeps and springs samples had the reporting limit raised due to matrix interference and/or sample dilution. In all cases where the detection limit was increased, the concentration 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.
- For method E900.1, used to determine gross alpha, a sample duplicate was used instead of a MSD.

The qualifiers, and the corresponding explanations reported in the QA/QC Summary Reports for any of the check samples for any of the analytical methods, were reviewed by the Director, Regulatory Compliance.

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 QAP requirement 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 each laboratory's 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/MSD recoveries and the associated RPDs for the seeps and springs samples were within acceptable laboratory limits except as noted in Tab E. The MS/MSD recoveries that were 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 there were low LCS recoveries in one analytical batch as indicated in Tab E.

A low LCS recovery for TDS and chloromethane were reported in analytical batch 22C2426. The low LCSs in batch 22C2426 affected sample Westwater Seep.

The data were flagged in accordance with EPA protocols. The data are usable for the intended purpose because TDS concentrations are within historic values and are variable based on ambient conditions present during sample collection. Chloromethane data are usable because chloromethane, as well as other volatiles, are not frequently detected and the non-detects are likely accurate.

The information from the Laboratory QA/QC Summary Reports indicates that there was a low Continuing Calibration Verification ("CCV") recovery for chloromethane. The low CCV recovery affected all samples in the analytical batch.

The data were flagged in accordance with the changes specified in EPA Method 8260D. The flagging requirements are new to the revised method and do not adversely affect the data. The data are usable for the intended purpose because the seeps and springs do not have historical detections of volatiles and the nondetect data are likely accurate.

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 analytical data associated

with the routine quarterly sampling met the requirement specified in the QAP. The information from the Laboratory QA/QC Summary Reports indicates that the surrogate recoveries for the seeps and springs samples were within acceptable laboratory limits for all surrogate compounds.

The QAP Section 8.1.2 requires that each analytical batch shall be accompanied by a reagent blank. Contamination detected in analysis of reagent blanks/method blanks will be used to evaluate any analytical laboratory contamination of environmental samples. The QAP specified process for evaluation of reagent/method blanks states that nonconformance will exist when blanks are within an order of magnitude of the sample results. The information from the Laboratory QA/QC Summary Reports indicates that the reagent (method) blanks for the seeps and springs samples were non-detect and were therefore within the acceptance criteria specified in the QAP.

Laboratory duplicates are completed by the analytical laboratories as required by the analytical method specifications. Acceptance limits for laboratory duplicates are set by the laboratories. The QAP does not require the completion of laboratory duplicates or the completion of a QA assessment of them. EFRI reviews the QC data provided by the laboratories for completeness and to assess the overall quality of the data provided. Laboratory duplicate results are provided in Tab D.

5.0 EVALUATION OF ANALYTICAL DATA

As previously stated, the samples were analyzed for the groundwater compliance parameters found on Table 2 of the Permit. In addition to these laboratory parameters, the pH, temperature, conductivity, (and although not required, redox, dissolved oxygen ["DO"] and turbidity) were measured and recorded in the field.

5.1 Evaluation of Analytical Results

The results of the March and May sampling events show no evidence of Mill influence in the water produced by the seeps and springs sampled. The lack of Mill influence on seeps and springs is indicated by the fact that the parameters detected are within the ranges of concentrations for the on-site monitoring wells and for available historic data for the seeps and springs themselves. For those detected analytes, concentrations are shown in Tables 2A, 2B, 2C, and 2D. The data are compared to available historic data for each seep and spring as well as to on-site monitoring well data. Specific discussions about each seep or spring are included below.

5.1.1 Ruin Spring

No VOCs or radiologics were detected. Metals and major ions were the only analytes detected. The metals detections were minimal with only calcium, magnesium, potassium, sodium, chromium, molybdenum, nickel, selenium, uranium and vanadium having positive detections. The major ions detected include bicarbonate, chloride, fluoride, ammonia, nitrate, sulfate and TDS. A comparison of the 2009 through 2021 data to the 2022 data shows that the concentrations of most detected analytes remained approximately the same with only minor changes within the limits of normal analytical deviation. The RLs and the reported values for chromium, nickel, and vanadium were below the GWDP required RL as noted in Section 4.5.5.

The reported values for chloride fluoride, ammonia, sulfate, and selenium increased slightly from the 2021 sample results and remain below the upper range of historic background values of this location and/or below the upper range of historic background values (where available) for the on-site monitoring wells. The differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. Overall, the data reported for Ruin Spring are typical for a surface water sample with no indication of Mill influence.

5.1.2 Cottonwood Spring

No VOCs or radiologics were detected. Metals and major ions were the only analytes detected. The metals detections were minimal with calcium, magnesium, potassium, sodium, arsenic, chromium, manganese, selenium, uranium and vanadium having a positive detection. The major ions detected include bicarbonate, chloride, fluoride, sulfate, and TDS. A comparison of the 2009 through 2021 data to the 2022 data shows that the concentrations of most detected analytes remained approximately the same with only minor changes within the limits of normal analytical deviation. The RLs and the reported values for arsenic, chromium, manganese, molybdenum, selenium, and vanadium were below the GWDP required RL as noted in Section 4.5.5. The reported values for, TDS and sulfate, increased from the 2021 sample results, and remain below the upper range of historic background values of this location and/or below the upper range of historic background values (where available) for the on-site monitoring wells. The differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. Overall, the data reported for Cottonwood Spring are typical for a surface water sample with no indication of Mill influence.

5.1.3 Westwater Seep

No VOCs or radiologics were detected. Metals and major ions were the only analytes detected. The metals detections were minimal with calcium, magnesium, potassium, sodium, arsenic, chromium, cobalt, iron, manganese, molybdenum, nickel, selenium, vanadium and uranium having positive detections. The major ions detected include bicarbonate, chloride, fluoride, sulfate, and TDS. A comparison of the historic data to the 2022 data shows that the concentrations of most detected analytes remained approximately the same with only minor changes within the limits of normal analytical deviation. The RLs and the reported values for arsenic, chromium, cobalt, molybdenum, nickel, selenium, and vanadium were below the GWDP required RL as noted in Section 4.5.5. The reported value for fluoride increased from the 2021 sample results and the reported value remain below the upper range of historic background values of this location and/or below the upper range of historic background values (where available) for the on-site monitoring wells. The differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. Overall, the data reported for Westwater Seep are typical for a surface water sample with no indication of Mill influence.

5.1.4 Entrance Spring

No VOCs or radiologics were detected. Metals and major ions were the only analytes detected. The metals detections were minimal with only calcium, magnesium, potassium, sodium, arsenic,

chromium, cobalt, iron, molybdenum, nickel, uranium, manganese and selenium having positive detections. The major ions detected include bicarbonate, chloride, fluoride, nitrate, sulfate, and TDS. A comparison of the 2009 through 2021 data to the 2022 data shows that the concentrations of most detected analytes remained approximately the same with only minor changes within the limits of normal analytical deviation. The RLs and the reported values for arsenic, chromium, cobalt, molybdenum, nickel, and vanadium were below the GWDP required RL as noted in Section 4.5.5. The reported values for fluoride, potassium, sodium, TDS, bicarbonate, chloride, iron, and manganese increased from the 2021 sample results. The detected concentrations and the reported value remain below the upper range of historic background values of this location and/or below the upper range of historic background values (where available) for the on-site monitoring wells. As stated in Section 2.4 above Entrance Spring is “developed” prior to the sampling event by Field Personnel. Development was completed the day prior to sampling by removing surrounding vegetation and clearing the sampling location in the spring or seep area. A shovel or trowel is used to dig a hole in the soil, which is allowed to fill with water. The standing water was sampled. Field Personnel noted the area was muddy and there is livestock activity in the area. The Entrance Spring sample data and constituent concentrations are likely affected by the muddy site conditions and livestock activity in the sampling area.

Overall, the data reported for Entrance Spring are typical for a surface water sample with no indication of Mill influence.

6.0 CORRECTIVE ACTION REPORT

No corrective action reports are required for the 2022 annual sampling event.

6.1 Assessment of Corrective Actions from Previous Period

No corrective action reports were required for the 2021 annual sampling event.

7.0 ELECTRONIC DATA FILES AND FORMAT

EFRI has provided to the Director electronic copies of the laboratory results as part of the annual seeps and springs monitoring in Comma Separated Values, from the laboratory. A copy of the transmittal e-mail is included under Tab F.

8.0 SIGNATURE AND CERTIFICATION

This document was prepared by Energy Fuels Resources (USA) Inc.
Energy Fuels Resources (USA) Inc.

By:



Scott A. Bakken
Vice President, Regulatory Affairs

2/20/23

Date

Certification

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



Scott A. Bakken
Vice President, Regulatory Affairs
Energy Fuels Resources (USA) Inc.

Tables

Table 1: Summary of Seeps and Springs Sampling

Location	Sample Date	Work Order No./Lab Set ID	Date of Lab Report
Cottonwood Spring	5/10/2022	CTF = 22E1012 GEL = 580063	CTF = 6/3/2022 GEL = 6/14/2022
Entrance Seep	5/10/2022	CTF = 22E1012 GEL = 580063	CTF = 6/3/2022 GEL = 6/14/2022
Back Spring (Duplicate of Ruin Spring)	5/10/2022	CTF = 22E1012 GEL = 580063	CTF = 6/3/2022 GEL = 6/14/2022
Ruin Spring	5/10/2022	CTF = 22E1012 GEL = 580063	CTF = 6/3/2022 GEL = 6/14/2022
Corral Spring	Not Sampled - Dry	Not Sampled - Dry	Not Sampled - Dry
Corral Canyon Seep	Not Sampled - Dry	Not Sampled - Dry	Not Sampled - Dry
Westwater Seep	3/28/2022	CTF = 22C2426 GEL = 575649	CTF = 4/18/2022 GEL = 5/3/2022

Table 2A Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Ruin Spring																	
Constituent	2009	2010	2011 May	2011 July	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Range of Average Historic Values for Monitoring Wells ^{1*}	Avg 2003 2004 ²
Radiologics (pCi/l)																	
Gross Alpha	<0.2	<0.2	<0.3	<0.05	<0.09	<1.0	<1	<1.0	<1.0	<1.0	<1.57	<1.0	<1.0	<1.0	<1.0	ND - 36	0.28
VOCS (ug/L)																	
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	--	--
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Carbon Tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	--	--
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--	--
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Tetrahydrofuran	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--

¹ From Figure 3, Table 10 and Appendix B of the Revised Addendum, Background Groundwater Quality Report: New Wells for Denison Mines (USA) Corp.'s White Mesa Mill Site, San Juan County, Utah, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah, October 2007, prepared by INTERA, Inc.

² From Figure 9 of the Revised Addendum, Evaluation of Available Pre-Operational and Regional Background Data, Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Mill Site, San Juan County, Utah, November 16, 2007, prepared by INTERA, Inc.

*Range of average historic values for On-Site Monitoring Wells as reported on April 30, 2008 (MW-1, MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)²

Table 2B Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Cottonwood Spring																	
Constituent	2009	2010	2011 May	2011 July	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Range of Average Historic Values for Monitoring Wells ^{1*}	Avg 1977 1982 ¹
Radiologics (pCi/l)																	
Gross Alpha	<0.2	<0.2	<0.1	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND - 36	7.2
VOCS (ug/L)																	
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	--	--
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	--	--
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--	--
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Tetrahydrofuran	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--
Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--	--

¹ From Figure 3, Table 10 and Appendix B of the *Revised Addendum, Background Groundwater Quality Report: New Wells for Denison Mines (USA) Corp's White Mesa Mill Site, San Juan County, Utah*, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the *Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah*, October 2007, prepared by INTERA, Inc.

*Range of average historic values for On-Site Monitoring Wells as reported on April 30, 2008 (MW-1, MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)

Table 2C Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Westwater Seep																					
Constituent	2009	2010	2011 May	2011 July	2012	2013	2014	2015	2016	2017	2018	2019	2020 (March)	2020 (June)	2021	2022	Range of Average Historic Values for Monitoring Wells ¹ *				
Radiologics (pCi/l)																					
Gross Alpha	< -0.1	<0.3	0.5	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND - 36				
VOCS (ug/L)																					
Acetone	<20	<20	<20	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<20	<20	23.1	<20	<20	<20	<20	<20	<10	--				
Benzene	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.4	--
Carbon tetrachloride	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Chloroform	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Chloromethane	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
MEK	<20	<20	<20					<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	--
Methylene Chloride	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--
Naphthalene	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Tetrahydrofuran	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Toluene	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--				

¹ From Figure 3, Table 10 and Appendix B of the Revised Addendum, Background Groundwater Quality Report: New Wells for Denison Mines (USA) Corp.'s White Mesa Mill Site, San Juan County, Utah, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah, October 2007, prepared by INTERA, Inc.

*Range of average historic values for On-Site Monitoring Wells as reported on April 30, 2008 (MW-1, MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)

Table 2D Detected Constituents and Comparison to Historic Values and Mill Site Monitoring Wells

Entrance Spring																
Constituent	2009	2010	2011 May	2011 July	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Range of Average Historic Values for Monitoring Wells ¹ *
Radiologies (pCi/l)																
Gross Alpha	0.9	<0.5	1.5	1.6	0.5	2.3	<1	3.05	<1	2.53	<1	2.63	<1	<1	<1	ND - 36
VOCS (ug/L)																
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	--
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	--
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	--
Naphthalene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Tetrahydrofuran	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.32	<1.0	<1.0	13.1	<1.0	5.59	<1.0	<1.0	<1.0	--
Xylenes	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--

¹ From Figure 3, Table 10 and Appendix B of the *Revised Addendum, Background Groundwater Quality Report: New Wells for Denison Mines (USA) Corp's White Mesa Mill Site, San Juan County, Utah*, April 30, 2008, prepared by INTERA, Inc. and Table 16 and Appendix D of the *Revised Background Groundwater Quality Report: Existing Wells for Denison Mines (USA) Corp.'s White Mesa Uranium Mill Site, San Juan County, Utah*, October 2007, prepared by INTERA, Inc.

*Range of average historic values for On-Site Monitoring Wells as reported on April 30, 2008 (MW-1, MW-2, MW-3, MW-3A, MW-4, MW-5, MW-11, MW-12, MW-14, MW-15, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31 and MW-32)

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- E-3 Analytical Method Check
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- E-5 Trip Blank Evaluation
- E-6 QA/QC Evaluation for Sample Duplicates
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- E-8 Laboratory Matrix QC Evaluation

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Tab A

Seeps and Springs Field Data Sheets and Photographic Documentation

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Wastewater Seep

Date For Initial Sampling Visit: 3/28/2022 Time: 0850

Sample Collected: Yes No

Date For Second Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Third Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Fourth Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Sampling Personnel: _____

Weather Conditions at Time of Sampling: _____

Estimated Seep or Spring Flow Rate: _____

Field Parameter Measurements:

-pH 7.09

-Temperature (°C) 10.71

-Conductivity μMHO/cm 1209

-Turbidity (NTU) (if measured) 0.9

-Redox Potential Eh (mV) (if measured) 259

00 24.3

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Non Radiologics	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Samples Associated with this Location:

Rinsate Blank

Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 0846. Samples collected at 0850
Water had a glossy film on the surface. Left site at 0855



03/28/2022 08:47

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Entrance spring

Date For Initial Sampling Visit: 5/10/2022 Time: 0820

Sample Collected: Yes No

Date For Second Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Third Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Fourth Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Sampling Personnel: Tanner H., Deen L., Dean H., Phil G.

Weather Conditions at Time of Sampling: Partly cloudy

Estimated Seep or Spring Flow Rate: 0.10

Field Parameter Measurements:

-pH 6.45

-Temperature (°C) 11.41

-Conductivity μ MHOC/cm 1351

-Turbidity (NTU) (if measured) 2.1

-Redox Potential Eh (mV) (if measured) 363

DO 68.3

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
	Yes	No	Yes	No	Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Samples Associated with this Location:

Rinsate Blank

Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 0808 Tanner, Deen and Dean Henderson & Phil Goble with the DWMRC on site for sampling. Samples collected at 0820. Animals have been wallowing in the area. Left site at 0833. sampling point was further east do flow rate and animal sign.



Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Cottonwood spring

Date For Initial Sampling Visit: 5/10/2022 Time: 0945

Sample Collected: Yes No

Date For Second Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Third Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Fourth Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Sampling Personnel: Tanner H, Deen L, Dean H, Phil Goble

Weather Conditions at Time of Sampling: Partly cloudy with some wind

Estimated Seep or Spring Flow Rate: 0.45 GPM

Field Parameter Measurements:

-pH 7.21

-Temperature (°C) 14.90

-Conductivity µMHOC/cm 1737

-Turbidity (NTU) (if measured) 0

-Redox Potential Eh (mV) (if measured) 314

LDO 40.5

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
	Yes	No	Yes	No	Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Samples Associated with this Location:

Rinsate Blank

Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 0934 Tanner, Deen and Dean Henderson & Phil Goble with the DWMRC on site for sampling event. DWMRC split sampled ~~the~~ spring. Left site at 1000 samples collected at 0945.



05/10/2022 08:51

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Ruin Spring

Date For Initial Sampling Visit: 5/10/2022 Time: 0855

Sample Collected: Yes No

Date For Second Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Third Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Date For Fourth Sampling Visit: _____ Time: _____

Sample Collected: Yes No

Sampling Personnel: Tanner H, Deen L, Dean H, Phil Goble

Weather Conditions at Time of Sampling: Partly Cloudy

Estimated Seep or Spring Flow Rate: 0.25 GPM

Field Parameter Measurements:

-pH 7.41

-Temperature (°C) 13.43

-Conductivity µMHOC/cm 1438

-Turbidity (NTU) (if measured) 0

-Redox Potential Eh (mV) (if measured) 241

DD 87.0

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
	Yes	No	Yes	No	Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Non Radiologics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Samples Associated with this Location:

Rinsate Blank

Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 0847 Tanner, Deen and Dean Henderson & Phil Goble with DDMRC on site for sampling event. Samples collected at 0855. Left site at 0911



05/10/2022 08:21

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Back Spring

Date For Initial Sampling Visit: 5/10/2022 **Time:** 0855

Sample Collected: Yes No

Date For Second Sampling Visit: _____ **Time:** _____

Sample Collected: Yes No

Date For Third Sampling Visit: _____ **Time:** _____

Sample Collected: Yes No

Date For Fourth Sampling Visit: _____ **Time:** _____

Sample Collected: Yes No

Sampling Personnel: Tanner H, Deen L, Dean H, Phil Goble

Weather Conditions at Time of Sampling: Partly Cloudy

Estimated Seep or Spring Flow Rate: 0.25

Field Parameter Measurements:

-pH 7.41

-Temperature (°C) 13.43

-Conductivity μMHOC/cm 1438

-Turbidity (NTU) (if measured) 0

-Redox Potential Eh (mV) (if measured) 241

00 87.0

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Non Radiologics	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Samples Associated with this Location:

Rinsate Blank

Duplicate

Duplicate Sample Name: Back Spring

Notes: Arrived on site at 0847 Tanner, Deen and PDMRC on site for sampling event. Duplicate of Ruin spring



05/10/2022 08:21

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Coral Canyon Spring

Date For Initial Sampling Visit: 3/28/2022 Time: 0813

Sample Collected: Yes No

Date For Second Sampling Visit: 5/11/2022 Time: 1236

Sample Collected: Yes No

Date For Third Sampling Visit: 8/11/2022 Time: 0726

Sample Collected: Yes No

Date For Fourth Sampling Visit: 11/25/2022 Time: 0800

Sample Collected: Yes No

Sampling Personnel: _____

Weather Conditions at Time of Sampling: _____

Estimated Seep or Spring Flow Rate: _____

Field Parameter Measurements:

- pH _____
- Temperature (°C) _____
- Conductivity μMHOC/cm _____
- Turbidity (NTU) (if measured) _____
- Redox Potential Eh (mV) (if measured) _____

Analytical Parameters/Sample Collection Method:

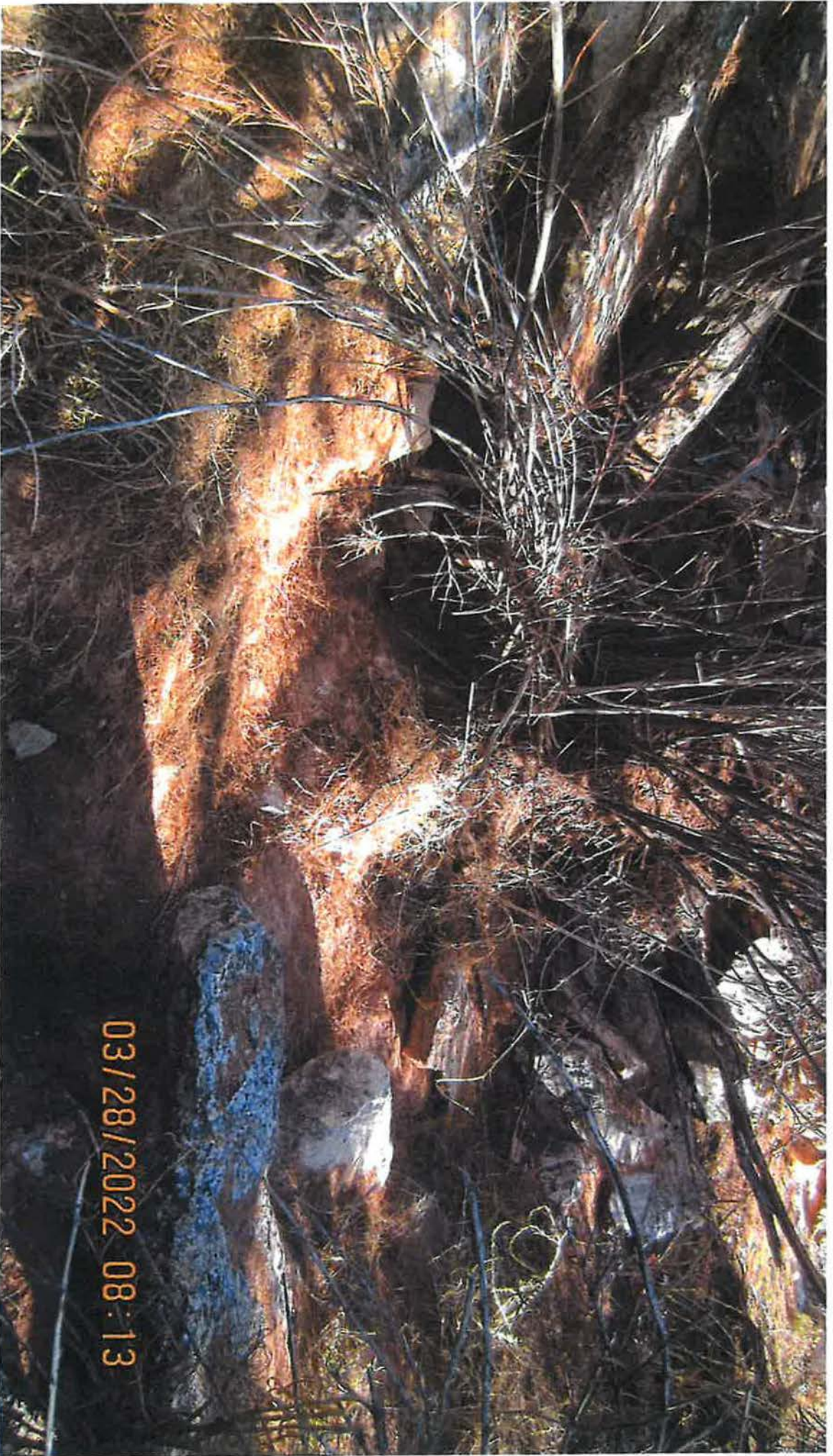
Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Non Radiologics	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Samples Associated with this Location:

- Rinsate Blank
- Duplicate

Duplicate Sample Name: _____

Notes: 3/28/2022 - Spring was dry!
5/11/2022 - Spring was dry!
8/11/2022 - Spring was dry.
11/25/2022 - Spring was dry.





05/11/2022 12:36



11/25/2022



Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Corral Spring

Date For Initial Sampling Visit: 3/28/2022 Time: 0830

Sample Collected: Yes No

Date For Second Sampling Visit: 5/11/2022 Time: 1253

Sample Collected: Yes No

Date For Third Sampling Visit: 8/11/2022 Time: 0653

Sample Collected: Yes No

Date For Fourth Sampling Visit: 11/25/2022 Time: 0830

Sample Collected: Yes No

Sampling Personnel: _____

Weather Conditions at Time of Sampling: _____

Estimated Seep or Spring Flow Rate: _____

Field Parameter Measurements:

- pH _____
- Temperature (°C) _____
- Conductivity μ MHOC/cm _____
- Turbidity (NTU) (if measured) _____
- Redox Potential Eh (mV) (if measured) _____

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nutrients	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Non Radiologics	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gross Alpha	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

QC Samples Associated with this Location:

- Rinsate Blank
- Duplicate

Duplicate Sample Name: _____

Notes: 3/28/2022 - Spring was dry
5/11/2022 - Spring was dry
8/11/2022 - Spring was dry.
11/25/2022 - Spring was dry







08/11/2022 06:53

11/25/2022



Tab B

Field Parameter Measurement Data

Field parameters

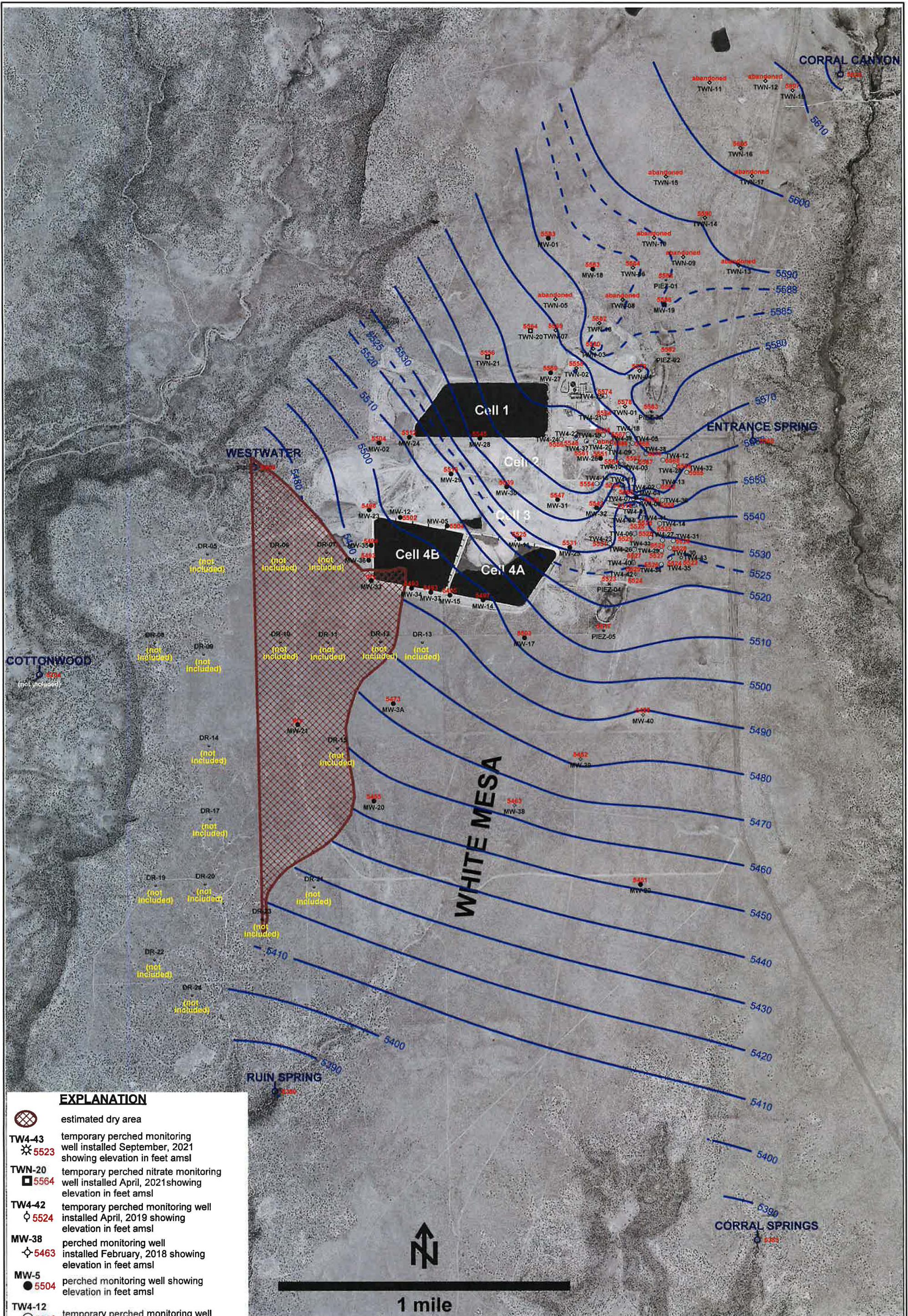
Location	Date Sampled	pH	Conductivity	Turbidity	Redox	Temperature	DO
Cottonwood Spring	5/10/2022	7.21	1737	0	314	14.90	40.5
Entrance Seep	5/10/2022	6.45	1351	2.1	363	11.41	68.3
Back Spring (Duplicate of Ruin Spring)	5/10/2022	7.41	1438	0	241	13.43	87.0
Ruin Spring	5/10/2022	7.41	1438	0	241	13.43	87.0
Westwater Seep	3/28/2022	7.09	1209	0.9	259	10.71	24.3











Tab C

Survey Data and Contour Map


Seeps and Springs Survey Locations

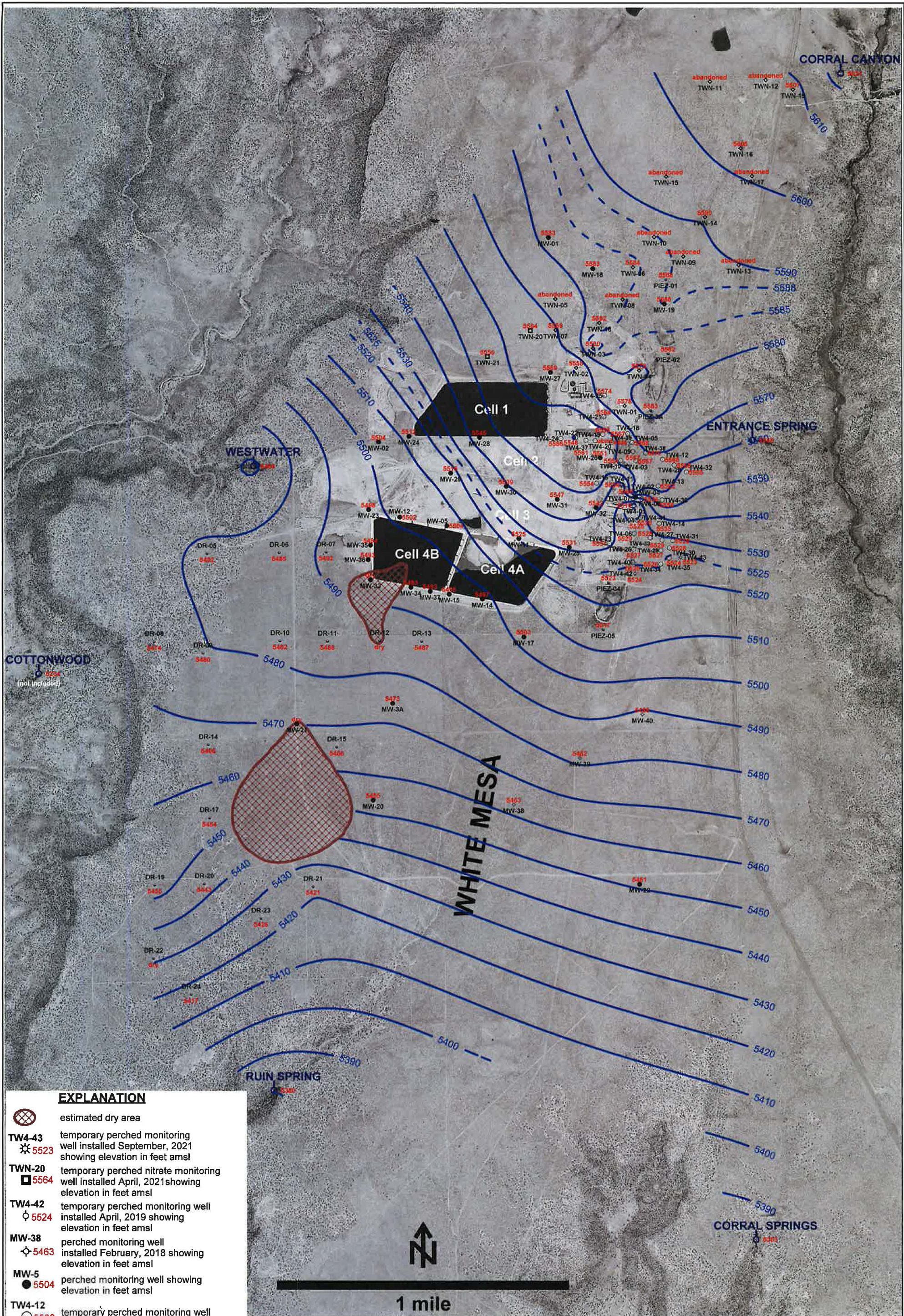
Mid-December 2009 Survey			
Location	Latitude (N)	Longitude (W)	Elevation
FROG POND	37°33'03.5358"	109°29'04.9552"	5589.56
CORRAL CANYON	37°33'07.1392"	109°29'12.3907"	5623.97
ENTRANCE SPRING	37°32'01.6487"	109°29'33.7005"	5559.71
CORRAL SPRINGS	37°29'37.9192"	109°29'35.8201"	5383.35
RUIN SPRING	37°30'06.0448"	109°31'23.4300"	5380.03
COTTONWOOD	37°31'21.7002"	109°32'14.7923"	5234.33
WESTWATER	37°31'58.5020"	109°31'25.7345"	5468.23
Verification Survey July 2010			
RUIN SPRING	37°30'06.0456"	109°31'23.4181"	5380.01
COTTONWOOD	37°31'21.6987"	109°32'14.7927"	5234.27
WESTWATER	37°31'58.5013"	109°31'25.7357"	5468.32













- EXPLANATION**
-  estimated dry area
 -  TW4-43 temporary perched monitoring well installed September, 2021 showing elevation in feet amsl
 -  TWN-20 temporary perched nitrate monitoring well installed April, 2021 showing elevation in feet amsl
 -  TW4-42 temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
 -  MW-38 perched monitoring well installed February, 2018 showing elevation in feet amsl
 -  MW-5 perched monitoring well showing elevation in feet amsl
 -  TW4-12 temporary perched monitoring well showing elevation in feet amsl
 -  TWN-7 temporary perched nitrate monitoring well showing elevation in feet amsl
 -  PIEZ-1 perched piezometer showing elevation in feet amsl
 -  RUIN SPRING seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation

 <p>HYDRO GEO CHEM, INC.</p>	<p>KRIGED 3rd QUARTER, 2022 WATER LEVELS (Dr-series piezometer water levels not included) WHITE MESA SITE</p>		
	APPROVED	DATE	REFERENCE
		H:/718000/nov22/ seeps_springs/Uwl0922nodr.srf	
			FIGURE C-1



EXPLANATION

-  estimated dry area
-  TW4-43 temporary perched monitoring well installed September, 2021 showing elevation in feet amsl
-  TWN-20 temporary perched nitrate monitoring well installed April, 2021 showing elevation in feet amsl
-  TW4-42 temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
-  MW-38 perched monitoring well installed February, 2018 showing elevation in feet amsl
-  MW-5 perched monitoring well showing elevation in feet amsl
-  TW4-12 temporary perched monitoring well showing elevation in feet amsl
-  TWN-7 temporary perched nitrate monitoring well showing elevation in feet amsl
-  PIEZ-1 perched piezometer showing elevation in feet amsl
-  RUIN SPRING seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, TW4-37, TW4-39, TW4-40 and TW4-41 are chloroform pumping wells; TW4-22, TW4-24, TW4-25 and TWN-2 are nitrate pumping wells; TW4-11 water level is below the base of the Burro Canyon Formation



**HYDRO
GEO
CHEM, INC.**

**KRIGED 3rd QUARTER, 2022 WATER LEVELS
WHITE MESA SITE**

APPROVED	DATE	REFERENCE	H:/718000/nov22/seeps_springs/Uwl0922dr.srf
			FIGURE C-2

Tab D

Analytical Laboratory Data

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: **Seeps and Springs 2022**

Sample ID: **Ruin Spring**

Matrix: **Water**

Lab ID: **22E1012-02**

Date Sampled: 5/10/22 8:55

Sampled By: **Tanner Holliday**

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	16.2	meq/L		SM 1030 E	5/31/22	5/31/22	
Cation/Anion Balance	-4.2	%		SM 1030 E	5/31/22	5/31/22	
Cations, Total	14.9	meq/L		SM 1030 E	5/31/22	5/31/22	
TDS Ratio	0.96	None		SM 2340 B	5/31/22	5/31/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	185	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Ammonia as N	0.2	mg/L	0.2	SM 4500 NH ₃ H	5/19/22	5/19/22	
Chloride	28.4	mg/L	1.0	EPA 300.0	5/16/22	5/16/22	
Fluoride	0.5	mg/L	0.1	EPA 300.0	5/16/22	5/16/22	
Nitrate + Nitrite, Total, as N	1.2	mg/L	0.1	EPA 353.2	5/16/22	5/16/22	
Sulfate	595	mg/L	10.0	EPA 300.0	5/16/22	5/16/22	
Total Dissolved Solids (TDS)	992	mg/L	20	SM 2540 C	5/13/22	5/13/22	
TDS, Calculated	1030	mg/L	5	SM 2540 C	5/31/22	5/31/22	
Metals							
Arsenic, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cadmium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Calcium, Dissolved	141	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Chromium, Dissolved	0.0042	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cobalt, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Copper, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	5/20/22	5/20/22	
Iron, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Lead, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Magnesium, Dissolved	32.9	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Manganese, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Mercury, Dissolved	< 0.0002	mg/L	0.0002	EPA 245.1	5/16/22	5/17/22	
Molybdenum, Dissolved	0.0177	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Nickel, Dissolved	0.0006	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Potassium, Dissolved	3.2	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Selenium, Dissolved	0.0117	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Silver, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Sodium, Dissolved	117	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Thallium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Tin, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Vanadium, Dissolved	0.0013	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	5/20/22	5/20/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: Seeps and Springs 2022

Sample ID: **Ruin Spring (cont.)**

Matrix: **Water**

Lab ID: **22E1012-02**

Date Sampled: 5/10/22 8:55

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0091	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Volatile Organic Compounds							
Acetone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	J-LOW
Methyl Ethyl Ketone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Methylene Chloride	< 2.0	ug/L	2.0	EPA 8260D /5030A	5/19/22	5/19/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	A-01
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 14, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 6425 S. Highway 191

Blanding, Utah 84511

Contact: Mr. Garrin Palmer
Project: Analytical for Seeps and Springs 2022

Client Sample ID: Ruin Spring	Project: DNMI00106
Sample ID: 580063002	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-MAY-22 08:55	
Receive Date: 16-MAY-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	0.0715	+/-0.178	0.711	1.00	pCi/L			JXC9	05/24/22	1312	2268525	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			108	(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.

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: **Seeps and Springs 2022**

Sample ID: **Cottonwood Spring**

Matrix: **Water**
Date Sampled: **5/10/22 9:45**

Sampled By: **Tanner Holliday**

Lab ID: **22E1012-03**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	19.4	meq/L		SM 1030 E	5/31/22	5/31/22	
Cation/Anion Balance	-7.3	%		SM 1030 E	5/31/22	5/31/22	
Cations, Total	16.7	meq/L		SM 1030 E	5/31/22	5/31/22	
TDS Ratio	0.96	None		SM 2340 B	5/31/22	5/31/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	267	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Ammonia as N	< 0.2	mg/L	0.2	SM 4500 NH ₃ H	5/19/22	5/19/22	
Chloride	143	mg/L	1.0	EPA 300.0	5/16/22	5/16/22	
Fluoride	0.3	mg/L	0.1	EPA 300.0	5/16/22	5/16/22	
Nitrate + Nitrite, Total, as N	< 0.1	mg/L	0.1	EPA 353.2	5/16/22	5/16/22	
Sulfate	528	mg/L	10.0	EPA 300.0	5/16/22	5/16/22	
Total Dissolved Solids (TDS)	1130	mg/L	20	SM 2540 C	5/13/22	5/13/22	
TDS, Calculated	1180	mg/L	5	SM 2540 C	5/31/22	5/31/22	
Metals							
Arsenic, Dissolved	0.0018	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cadmium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Calcium, Dissolved	99.0	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Chromium, Dissolved	0.0066	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cobalt, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Copper, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	5/20/22	5/20/22	
Iron, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Lead, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Magnesium, Dissolved	28.5	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Manganese, Dissolved	0.0009	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Mercury, Dissolved	< 0.0002	mg/L	0.0002	EPA 245.1	5/16/22	5/17/22	
Molybdenum, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Nickel, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Potassium, Dissolved	5.9	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Selenium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Silver, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Sodium, Dissolved	214	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Thallium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Tin, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Vanadium, Dissolved	0.0024	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	5/20/22	5/20/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: **Seeps and Springs 2022**

Sample ID: **Cottonwood Spring (cont.)**

Matrix: **Water**

Lab ID: **22E1012-03**

Date Sampled: **5/10/22 9:45**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0097	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Volatile Organic Compounds							
Acetone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	J-LOW
Methyl Ethyl Ketone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Methylene Chloride	< 2.0	ug/L	2.0	EPA 8260D /5030A	5/19/22	5/19/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	A-01
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 14, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 6425 S. Highway 191

Contact: Blanding, Utah 84511
Mr. Garrin Palmer
Project: Analytical for Seeps and Springs 2022

Client Sample ID: Cottonwood Spring	Project: DNMI00106
Sample ID: 580063003	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-MAY-22 09:45	
Receive Date: 16-MAY-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	-0.0850	+/-0.212	0.890	1.00	pCi/L			JXC9	05/24/22	1312	2268525	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			106	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

- | | |
|---------------------------------------|--------------------------------|
| DF: Dilution Factor | Lc/LC: Critical Level |
| DL: Detection Limit | PF: Prep Factor |
| MDA: Minimum Detectable Activity | RL: Reporting Limit |
| MDC: Minimum Detectable Concentration | SQL: Sample Quantitation Limit |

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **3/31/22 11:00 @ 2.6 °C**
Date Reported: 4/18/2022
Project Name: **Seeps & Springs 2022**

Sample ID: **Westwater Spring**

Matrix: **Water**
Date Sampled: **3/28/22 8:50**

Sampled By: **Tanner Holliday**

Lab ID: **22C2426-01**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	10.7	meq/L		SM 1030 E	4/15/22	4/15/22	
Cation/Anion Balance	4.4	%		SM 1030 E	4/15/22	4/15/22	
Cations, Total	11.7	meq/L		SM 1030 E	4/15/22	4/15/22	
TDS Ratio	0.970	-		SM 2340 B	4/7/22	4/18/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	257	mg/L	1.0	SM 2320 B	4/1/22	4/1/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	4/1/22	4/1/22	
Ammonia as N	< 0.2	mg/L	0.2	SM 4500 NH ₃ H	4/4/22	4/4/22	
Chloride	21.9	mg/L	5.0	EPA 300.0	4/5/22	4/5/22	
Fluoride	0.5	mg/L	0.1	EPA 300.0	4/5/22	4/5/22	
Nitrate + Nitrite, Total, as N	< 0.1	mg/L	0.1	EPA 353.2	4/11/22	4/11/22	
Sulfate	278	mg/L	5.0	EPA 300.0	4/5/22	4/5/22	
Total Dissolved Solids (TDS)	672	mg/L	20	SM 2540 C	4/1/22	4/1/22	J-LOW
TDS, Calculated	693	mg/L	5	SM 2540 C	4/7/22	4/18/22	
Metals							
Arsenic, Dissolved	0.0018	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Cadmium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	4/8/22	4/8/22	
Calcium, Dissolved	104	mg/L	0.2	EPA 200.7	4/7/22	4/7/22	
Chromium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Cobalt, Dissolved	0.001	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Copper, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	4/8/22	4/8/22	
Iron, Dissolved	0.92	mg/L	0.02	EPA 200.7	4/7/22	4/7/22	
Lead, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Magnesium, Dissolved	26.4	mg/L	0.2	EPA 200.7	4/7/22	4/7/22	
Manganese, Dissolved	0.206	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Mercury, Dissolved	< 0.0002	mg/L	0.0002	EPA 245.1	4/14/22	4/15/22	
Molybdenum, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Nickel, Dissolved	0.0017	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Potassium, Dissolved	1.3	mg/L	0.5	EPA 200.7	4/7/22	4/7/22	
Selenium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Silver, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Sodium, Dissolved	98.7	mg/L	0.5	EPA 200.7	4/7/22	4/7/22	
Sodium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	4/8/22	4/8/22	
Zinc, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	4/7/22	4/7/22	
Radium, Dissolved	0.0006	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Thorium, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	4/8/22	4/8/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **3/31/22 11:00 @ 2.6 °C**
Date Reported: 4/18/2022
Project Name: **Seeps & Springs 2022**

Sample ID: **Westwater Spring (cont.)**

Matrix: **Water**
Date Sampled: **3/28/22 8:50**

Sampled By: **Tanner Holliday**

Lab ID: **22C2426-01**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	4/8/22	4/8/22	
Volatile Organic Compounds							
Acetone	< 10.0	ug/L	10.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Benzene	< 0.4	ug/L	0.4	EPA 8260B/C /5030A	4/2/22	4/2/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Methyl Ethyl Ketone	< 10.0	ug/L	10.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Methylene Chloride	< 2.0	ug/L	2.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: April 29, 2022

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: Westwater Spring	Project: DNMI00100
Sample ID: 575649001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 28-MAR-22 08:50	
Receive Date: 06-APR-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	1.00	+/-0.109	0.460	1.00	pCi/L			JXC9	04/19/22	1151	2252110	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			99.9	(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.

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: Seeps and Springs 2022

Sample ID: Entrance Spring

Matrix: Water

Lab ID: 22E1012-01

Date Sampled: 5/10/22 8:20

Sampled By: Tanner Holliday

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Calculations							
Anions, Total	14.4	meq/L		SM 1030 E	5/31/22	5/31/22	
Cation/Anion Balance	-0.2	%		SM 1030 E	5/31/22	5/31/22	
Cations, Total	14.3	meq/L		SM 1030 E	5/31/22	5/31/22	
TDS Ratio	1.0	None		SM 2340 B	5/31/22	5/31/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	308	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Ammonia as N	< 0.2	mg/L	0.2	SM 4500 NH ₃ H	5/19/22	5/19/22	
Chloride	91.8	mg/L	1.0	EPA 300.0	5/16/22	5/16/22	
Fluoride	0.8	mg/L	0.1	EPA 300.0	5/16/22	5/16/22	
Nitrate + Nitrite, Total, as N	0.2	mg/L	0.1	EPA 353.2	5/16/22	5/16/22	
Sulfate	323	mg/L	10.0	EPA 300.0	5/16/22	5/16/22	
Total Dissolved Solids (TDS)	904	mg/L	20	SM 2540 C	5/13/22	5/13/22	
TDS, Calculated	872	mg/L	5	SM 2540 C	5/31/22	5/31/22	
Metals							
Arsenic, Dissolved	0.0031	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cadmium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Calcium, Dissolved	123	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Chromium, Dissolved	0.0055	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cobalt, Dissolved	0.001	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Copper, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	5/20/22	5/20/22	
Iron, Dissolved	0.39	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Lead, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Magnesium, Dissolved	44.8	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Manganese, Dissolved	0.629	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Mercury, Dissolved	< 0.0002	mg/L	0.0002	EPA 245.1	5/16/22	5/17/22	
Molybdenum, Dissolved	0.0018	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Nickel, Dissolved	0.0010	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Potassium, Dissolved	4.5	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Selenium, Dissolved	0.0052	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Silver, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Sodium, Dissolved	100	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Thallium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Tin, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Vanadium, Dissolved	0.0034	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	5/20/22	5/20/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: **Seeps and Springs 2022**

Sample ID: **Entrance Spring (cont.)**

Matrix: **Water**

Lab ID: **22E1012-01**

Date Sampled: **5/10/22 8:20**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0175	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Volatile Organic Compounds							
Acetone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	MS-Low
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	MS-Low
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	J-LOW
Methyl Ethyl Ketone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Methylene Chloride	< 2.0	ug/L	2.0	EPA 8260D /5030A	5/19/22	5/19/22	MS-Low
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	MS-Low
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	A-01
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 14, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 6425 S. Highway 191

Blanding, Utah 84511

Contact: Mr. Garrin Palmer
Project: Analytical for Seeps and Springs 2022

Client Sample ID: Entrance Spring	Project: DNMI00106
Sample ID: 580063001	Client ID: DNMI001
Matrix: Ground Water	
Collect Date: 10-MAY-22 08:20	
Receive Date: 16-MAY-22	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	0.534	+/-0.275	0.873	1.00	pCi/L			JXC9	05/24/22	1312	2268525	I

The following Analytical Methods were performed:

Method	Description	Analyst Comments
I	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			106	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#: _____
Receipt: **5/12/22 12:27 @ 2.1 °C**
Date Reported: **6/3/2022**
Project Name: **Seeps and Springs 2022**

Sample ID: **Back Spring**

Matrix: **Water**

Lab ID: **22E1012-04**

Date Sampled: **5/10/22 8:55**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Calculations							
Anions, Total	15.6	meq/L		SM 1030 E	5/31/22	5/31/22	
Cation/Anion Balance	-2.2	%		SM 1030 E	5/31/22	5/31/22	
Cations, Total	14.9	meq/L		SM 1030 E	5/31/22	5/31/22	
TDS Ratio	1.0	None		SM 2340 B	5/31/22	5/31/22	
Inorganic							
Alkalinity - Bicarbonate (as CaCO ₃)	184	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Alkalinity - Carbonate (as CaCO ₃)	< 1.0	mg/L	1.0	SM 2320 B	5/13/22	5/13/22	
Ammonia as N	< 0.2	mg/L	0.2	SM 4500 NH ₃ H	5/19/22	5/19/22	
Chloride	28.5	mg/L	10.0	EPA 300.0	5/12/22	5/12/22	
Fluoride	0.5	mg/L	0.1	EPA 300.0	5/16/22	5/16/22	
Nitrate + Nitrite, Total, as N	1.2	mg/L	0.1	EPA 353.2	5/16/22	5/16/22	
Sulfate	565	mg/L	10.0	EPA 300.0	5/16/22	5/16/22	
Total Dissolved Solids (TDS)	1030	mg/L	20	SM 2540 C	5/13/22	5/13/22	
TDS, Calculated	998	mg/L	5	SM 2540 C	5/31/22	5/31/22	
Metals							
Arsenic, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Beryllium, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cadmium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Calcium, Dissolved	141	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Chromium, Dissolved	0.0043	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Cobalt, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Copper, Dissolved	< 0.0010	mg/L	0.0010	EPA 200.8	5/20/22	5/20/22	
Iron, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Lead, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Magnesium, Dissolved	32.9	mg/L	0.2	EPA 200.7	5/19/22	5/19/22	
Manganese, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Mercury, Dissolved	< 0.0002	mg/L	0.0002	EPA 245.1	5/16/22	5/17/22	
Molybdenum, Dissolved	0.0177	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Nickel, Dissolved	0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Potassium, Dissolved	3.2	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Selenium, Dissolved	0.0117	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Silver, Dissolved	< 0.0005	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Sodium, Dissolved	117	mg/L	0.5	EPA 200.7	5/19/22	5/19/22	
Thallium, Dissolved	< 0.0002	mg/L	0.0002	EPA 200.8	5/20/22	5/20/22	
Tin, Dissolved	< 0.02	mg/L	0.02	EPA 200.7	5/19/22	5/19/22	
Vanadium, Dissolved	0.0014	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Zinc, Dissolved	< 0.01	mg/L	0.01	EPA 200.8	5/20/22	5/20/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: **Seeps and Springs 2022**

Sample ID: **Back Spring (cont.)**

Matrix: **Water**

Lab ID: **22E1012-04**

Date Sampled: **5/10/22 8:55**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Metals (cont.)							
Uranium, Dissolved	0.0090	mg/L	0.0005	EPA 200.8	5/20/22	5/20/22	
Volatile Organic Compounds							
Acetone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	J-LOW
Methyl Ethyl Ketone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Methylene Chloride	< 2.0	ug/L	2.0	EPA 8260D /5030A	5/19/22	5/19/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	A-01
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: June 14, 2022

Company : Energy Fuels Resources (USA), Inc.
Address : 6425 S. Highway 191

Blanding, Utah 84511

Contact: Mr. Garrin Palmer
Project: Analytical for Seeps and Springs 2022

Client Sample ID:	Back Spring	Project:	DNMI00106
Sample ID:	580063004	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	10-MAY-22 08:55		
Receive Date:	16-MAY-22		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Gas Flow Proportional Counting													
GFPC, Total Alpha Radium, Liquid "As Received"													
Gross Radium Alpha	U	-0.00560	+/-0.198	0.876	1.00	pCi/L			JXC9	05/24/22	1312	2268525	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			106	(25%-125%)

Notes:

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

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

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **3/31/22 11:00 @ 2.6 °C**
Date Reported: 4/18/2022
Project Name: **Seeps & Springs 2022**

Sample ID: **Trip Blank**

Matrix: **Water**

Lab ID: **22C2426-02**

Date Sampled: **3/28/22 8:50**

Sampled By: **Tanner Holliday**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds							
Acetone	< 10.0	ug/L	10.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Benzene	< 0.4	ug/L	0.4	EPA 8260B/C /5030A	4/2/22	4/2/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Methyl Ethyl Ketone	< 10.0	ug/L	10.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Methylene Chloride	< 2.0	ug/L	2.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Toluene	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260B/C /5030A	4/2/22	4/2/22	

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 5/12/22 12:27 @ 2.1 °C
Date Reported: 6/3/2022
Project Name: **Seeps and Springs 2022**

Sample ID: Trip Blank

Matrix: Water

Lab ID: **22E1012-05**

Date Sampled: 5/11/22 8:20

Sampled By: Tanner Holliday

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds							
Acetone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Benzene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Carbon Tetrachloride	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloroform	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Chloromethane	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	J-LOW
Methyl Ethyl Ketone	< 10.0	ug/L	10.0	EPA 8260D /5030A	5/19/22	5/19/22	
Methylene Chloride	< 2.0	ug/L	2.0	EPA 8260D /5030A	5/19/22	5/19/22	
Naphthalene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Tetrahydrofuran	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	A-01
Toluene	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	
Xylenes, total	< 1.0	ug/L	1.0	EPA 8260D /5030A	5/19/22	5/19/22	



4/18/2022

Work Order: 22C2426
Project: Seeps & Springs 2022

Energy Fuels Resources, Inc.
Attn: Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Patrick Noteboom, Project Manager



Energy Fuels Resources, Inc.

Project: Seeps & Springs 2022

Project Manager: Tanner Holliday

<u>Laboratory ID</u>	<u>Sample Name</u>
22C2426-01	Westwater Spring
22C2426-02	Trip Blank

Work Order Report Narrative

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

There are no corrective actions associated with this work order.

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: 3/31/22 11:00 @ 2.6 °C
Date Reported: 4/18/2022
Project Name: Seeps & Springs 2022

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).
1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.
1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.
1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

J-LOW = Estimated low due to low recovery of LCS or CCV



**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.

22C 2426
 AWAL Lab Sample Set #
 Page 1 of 1

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; kweinel@energyfuels.com**
 Project Name: **Seeps and Springs 2022**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Due Date:						
3		Standard										
# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Laboratory Use Only	
											Samples Were:	
											1 Shipped or hand delivered	
											2 Ambient or Chilled	
											3 Temperature 2.6 °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

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	F, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
22C 2426 Westwater Spring	3/28/2022	850	7	w	x	x	x	x	x	x	x	x	x	
72 Trip Blank	3/28/2022	850	3	w									x	
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Relinquished by: Signature: <i>Deen Lyman</i>	Date: 3/30/2022	Received by: Signature: <i>Denise Braun</i>	Date: 3/31/22
Print Name: Deen Lyman	Time: 1100	Print Name: Denise Braun	Time: 11:00
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:
Relinquished by: Signature:	Date:	Received by: Signature:	Date:
Print Name:	Time:	Print Name:	Time:

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

UPS - 1Z 187 YAY 03 9288 2978

22C2426

CHEMTECH FORD LABORATORIES

Sample Receipt

Work Order # 22426



Delivery Method:

- UPS
- USPS
- FedEx
- Chemtech Courier
- Walk-in
- Customer Courier

Receiving Temperature 2.6 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
-01	AD M Ah N W(3)							client containers
-02	W(3)							

Sample Condition
(check if yes)

- Custody Seals
- Containers Intact
- COC can be matched to bottles
- Received on Ice
- Correct Container(s)
- Sufficient Sample Volume
- Headspace Present (VOC)
- Temperature Blank
- Received within Holding Time

- Plastic Containers**
- A- Plastic Unpreserved
 - B- Miscellaneous Plastic
 - C- Cyanide Qt (NaOH)
 - E- Coliform/Ecoli/HPC
 - F- Sulfide Qt (Zn Acetate)
 - L- Mercury 1631
 - M- Metals Pint (HNO3)
 - N- Nutrient Pint (H2SO4)
 - R- Radiological (HNO3)
 - S- Sludge Cups/Tubs
 - Q- Plastic Bag

- Glass Containers**
- D- 625 (Na2S2O3)
 - G- Glass Unpreserved
 - H- HAAs (NH4Cl)
 - J- S08/515/525 (Na2SO3)
 - K- 515.3 Herbicides
 - O- Oil & Grease (HCl)
 - P- Phenols (H2SO4)
 - T- TOC/TOX (H3PO4)
 - U- 531 (MCAA, Na2S2O3)
 - V- 524/THMs (Ascorbic Acid)
 - W- 8260 VOC (1.1 HCl)
 - X- Vial Unpreserved
 - Y- 624/504 (Na2S2O3)
 - Z- Miscellaneous Glass

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
---------	-------	-----	--------	---------	--------	-------------	-----------	-----	----

Blank - EPA 200.7

QC Sample ID: BWD0248-BLK1	Batch: BWD0248	
Date Prepared: 04/07/2022	Date Analyzed: 04/07/2022	
Calcium, Dissolved		ND 0.2 1.00
Iron, Dissolved		ND 0.02 1.00
Magnesium, Dissolved		ND 0.2 1.00
Potassium, Dissolved		ND 0.5 1.00
Sodium, Dissolved		ND 0.5 1.00
Tin, Dissolved		ND 0.02 1.00

LCS - EPA 200.7

QC Sample ID: BWD0248-BS1	Batch: BWD0248	
Date Prepared: 04/07/2022	Date Analyzed: 04/07/2022	
Calcium, Dissolved	96.2 85 - 115	9.8 10.2 0.2 1.00
Iron, Dissolved	106 85 - 115	0.212 0.200 0.02 1.00
Magnesium, Dissolved	101 85 - 115	10.3 10.2 0.2 1.00
Potassium, Dissolved	103 85 - 115	10.3 10.0 0.5 1.00
Sodium, Dissolved	99.7 85 - 115	10.0 10.0 0.5 1.00
Tin, Dissolved	93.6 85 - 155	0.19 0.200 0.02 1.00

Matrix Spike - EPA 200.7

QC Sample ID: BWD0248-MS1	Batch: BWD0248	QC Source Sample: XXXXXXXX-XX
Date Prepared: 04/07/2022	Date Analyzed: 04/07/2022	
Calcium, Dissolved	94.8 70 - 130	58.7 49.1 10.2 0.2 1.00
Iron, Dissolved	109 70 - 130	0.218 ND 0.200 0.02 1.00
Magnesium, Dissolved	102 70 - 130	24.4 14.0 10.2 0.2 1.00
Potassium, Dissolved	105 70 - 130	12.2 1.7 10.0 0.5 1.00
Sodium, Dissolved	99.2 70 - 130	23.9 14.0 10.0 0.5 1.00
Tin, Dissolved	93.6 70 - 130	0.19 0.003 0.200 0.02 1.00

QC Sample ID: BWD0248-MS2	Batch: BWD0248	QC Source Sample: 22C2426-01
Date Prepared: 04/07/2022	Date Analyzed: 04/07/2022	
Calcium, Dissolved	87.1 70 - 130	113 104 10.2 0.2 1.00
Iron, Dissolved	105 70 - 130	1.13 0.918 0.200 0.02 1.00
Magnesium, Dissolved	102 70 - 130	36.7 26.4 10.2 0.2 1.00
Potassium, Dissolved	106 70 - 130	11.8 1.3 10.0 0.5 1.00
Sodium, Dissolved	86.2 70 - 130	107 98.7 10.0 0.5 1.00
Tin, Dissolved	97.2 70 - 130	0.20 0.003 0.200 0.02 1.00

Matrix Spike Dup - EPA 200.7

QC Sample ID: BWD0248-MSD1	Batch: BWD0248	QC Source Sample: XXXXXXXX-XX
Date Prepared: 04/07/2022	Date Analyzed: 04/07/2022	
Calcium, Dissolved	95.6 0.135 70 - 130	20 58.8 49.1 10.2 0.2 1.00
Iron, Dissolved	108 1.24 70 - 130	20 0.216 ND 0.200 0.02 1.00
Magnesium, Dissolved	102 0.0176 70 - 130	20 24.4 14.0 10.2 0.2 1.00
Potassium, Dissolved	105 0.172 70 - 130	20 12.2 1.7 10.0 0.5 1.00
Sodium, Dissolved	99.2 0.00377 70 - 130	20 23.9 14.0 10.0 0.5 1.00
Tin, Dissolved	97.0 3.42 70 - 130	20 0.20 0.003 0.200 0.02 1.00

QC Sample ID: BWD0248-MSD2	Batch: BWD0248	QC Source Sample: 22C2426-01
Date Prepared: 04/07/2022	Date Analyzed: 04/07/2022	
Calcium, Dissolved	81.6 0.495 70 - 130	20 113 104 10.2 0.2 1.00
Iron, Dissolved	103 0.320 70 - 130	20 1.12 0.918 0.200 0.02 1.00
Magnesium, Dissolved	99.7 0.522 70 - 130	20 36.5 26.4 10.2 0.2 1.00
Potassium, Dissolved	106 0.00591 70 - 130	20 11.8 1.3 10.0 0.5 1.00
Sodium, Dissolved	83.9 0.221 70 - 130	20 107 98.7 10.0 0.5 1.00

QC Report for Work Order (WO) - 22C2426

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Matrix Spike Dup - EPA 200.7 (cont.)

QC Sample ID: BWD0248-MSD2

Batch: BWD0248

QC Source Sample: 22C2426-01

Date Prepared: 04/07/2022

Date Analyzed: 04/07/2022

Tin, Dissolved

98.8

1.71

70 - 130

20

0.20

0.003

0.200

0.02

1.00

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 200.8

QC Sample ID: BWD0313-BLK1	Batch: BWD0313								
Date Prepared: 04/08/2022	Date Analyzed: 04/08/2022								
Arsenic, Dissolved					ND		0.0005	1.00	
Beryllium, Dissolved					ND		0.0005	1.00	
Cadmium, Dissolved					ND		0.0002	1.00	
Chromium, Dissolved					ND		0.0005	1.00	
Cobalt, Dissolved					ND		0.0005	1.00	
Copper, Dissolved					ND		0.0010	1.00	
Lead, Dissolved					ND		0.0005	1.00	
Manganese, Dissolved					ND		0.0005	1.00	
Molybdenum, Dissolved					ND		0.0005	1.00	
Nickel, Dissolved					ND		0.0005	1.00	
Selenium, Dissolved					ND		0.0005	1.00	
Silver, Dissolved					ND		0.0005	1.00	
Thallium, Dissolved					ND		0.0002	1.00	
Uranium, Dissolved					ND		0.0005	1.00	
Vanadium, Dissolved					ND		0.0005	1.00	
Zinc, Dissolved					ND		0.01	1.00	

LCS - EPA 200.8

QC Sample ID: BWD0313-BS1	Batch: BWD0313								
Date Prepared: 04/08/2022	Date Analyzed: 04/08/2022								
Arsenic, Dissolved	99.6	85 - 115		0.040		0.0400	0.0005	1.00	
Beryllium, Dissolved	96.4	85 - 115		0.039		0.0400	0.0005	1.00	
Cadmium, Dissolved	99.1	85 - 115		0.040		0.0400	0.0002	1.00	
Chromium, Dissolved	98.8	85 - 115		0.040		0.0400	0.0005	1.00	
Cobalt, Dissolved	99.4	85 - 115		0.040		0.0400	0.0005	1.00	
Copper, Dissolved	96.1	85 - 115		0.038		0.0400	0.0010	1.00	
Lead, Dissolved	105	85 - 115		0.042		0.0400	0.0005	1.00	
Manganese, Dissolved	100	85 - 115		0.040		0.0400	0.0005	1.00	
Molybdenum, Dissolved	99.7	85 - 115		0.040		0.0400	0.0005	1.00	
Nickel, Dissolved	94.0	85 - 115		0.0376		0.0400	0.0005	1.00	
Selenium, Dissolved	99.9	85 - 115		0.040		0.0400	0.0005	1.00	
Silver, Dissolved	99.7	85 - 115		0.040		0.0400	0.0005	1.00	
Thallium, Dissolved	105	85 - 115		0.042		0.0400	0.0002	1.00	
Uranium, Dissolved	107	85 - 115		0.043		0.0400	0.0005	1.00	
Vanadium, Dissolved	98.0	85 - 115		0.039		0.0400	0.0005	1.00	
Zinc, Dissolved	96.7	85 - 115		0.04		0.0400	0.01	1.00	

Matrix Spike - EPA 200.8

QC Sample ID: BWD0313-MS1	Batch: BWD0313	QC Source Sample: 22C2426-01							
Date Prepared: 04/08/2022	Date Analyzed: 04/08/2022								
Arsenic, Dissolved	103	70 - 130		0.043	0.002	0.0400	0.0005	1.00	
Beryllium, Dissolved	98.6	70 - 130		0.039	ND	0.0400	0.0005	1.00	
Cadmium, Dissolved	98.7	70 - 130		0.039	ND	0.0400	0.0002	1.00	
Chromium, Dissolved	95.0	70 - 130		0.039	0.001	0.0400	0.0005	1.00	
Cobalt, Dissolved	94.5	70 - 130		0.039	0.001	0.0400	0.0005	1.00	
Copper, Dissolved	88.5	70 - 130		0.036	0.0006	0.0400	0.0010	1.00	
Lead, Dissolved	101	70 - 130		0.040	ND	0.0400	0.0005	1.00	
Manganese, Dissolved	89.0	70 - 130		0.242	0.206	0.0400	0.0005	1.00	
Molybdenum, Dissolved	104	70 - 130		0.043	0.001	0.0400	0.0005	1.00	
Nickel, Dissolved	88.3	75 - 125		0.0371	0.0017	0.0400	0.0005	1.00	
Selenium, Dissolved	106	70 - 130		0.044	0.001	0.0400	0.0005	1.00	
Silver, Dissolved	94.9	70 - 130		0.038	ND	0.0400	0.0005	1.00	

CtF WO#: 22C2426

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QC Report for Work Order (WO) - 22C2426

Analyte % Rec RPD Limits RPD Max Result Source Conc Spk Value MRL DF

Matrix Spike - EPA 200.8 (cont.)

QC Sample ID: BWD0313-MS1	Batch: BWD0313	QC Source Sample: 22C2426-01					
Date Prepared: 04/08/2022	Date Analyzed: 04/08/2022						
Thallium, Dissolved	103	70 - 130	0.041	ND	0.0400	0.0002	1.00
Uranium, Dissolved	107	70 - 130	0.044	0.001	0.0400	0.0005	1.00
Vanadium, Dissolved	97.9	70 - 130	0.040	0.0006	0.0400	0.0005	1.00
Zinc, Dissolved	99.6	70 - 130	0.04	ND	0.0400	0.01	1.00

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 245.1									
QC Sample ID: BWD0573-BLK1	Batch: BWD0573								
Date Prepared: 04/14/2022	Date Analyzed: 04/15/2022								
Mercury, Dissolved					ND			0.0002	1.00
LCS - EPA 245.1									
QC Sample ID: BWD0573-BS1	Batch: BWD0573								
Date Prepared: 04/14/2022	Date Analyzed: 04/15/2022								
Mercury, Dissolved	96.3		85 - 115		0.0048		0.00500	0.0002	1.00
Matrix Spike - EPA 245.1									
QC Sample ID: BWD0573-MS1	Batch: BWD0573			QC Source Sample: 22C2426-01					
Date Prepared: 04/14/2022	Date Analyzed: 04/15/2022								
Mercury, Dissolved	104		75 - 125		0.0052	ND	0.00500	0.0002	1.00
Matrix Spike Dup - EPA 245.1									
QC Sample ID: BWD0573-MSD1	Batch: BWD0573			QC Source Sample: 22C2426-01					
Date Prepared: 04/14/2022	Date Analyzed: 04/15/2022								
Mercury, Dissolved	99.4	4.88	75 - 125	20	0.0050	ND	0.00500	0.0002	1.00

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 300.0

QC Sample ID: BWD0139-BLK1	Batch: BWD0139								
Date Prepared: 04/05/2022	Date Analyzed: 04/05/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.1	1.00
Sulfate					ND			1.0	1.00

LCS - EPA 300.0

QC Sample ID: BWD0139-BS1	Batch: BWD0139								
Date Prepared: 04/05/2022	Date Analyzed: 04/05/2022								
Chloride	98.2	90 - 110			49.1		50.0	1.0	1.00
Fluoride	91.3	90 - 110			4.6		5.00	0.1	1.00
Sulfate	95.6	90 - 110			47.8		50.0	1.0	1.00

Matrix Spike - EPA 300.0

QC Sample ID: BWD0139-MS1	Batch: BWD0139		QC Source Sample: 22C2426-01						
Date Prepared: 04/05/2022	Date Analyzed: 04/05/2022								
Chloride	99.2	80 - 120			71.5	21.9	50.0	5.5	1.00
Fluoride	142	80 - 120			7.6	0.5	5.00	0.5	1.00
<p style="color:red; font-size:small;">QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.</p>									
Sulfate	88.3	80 - 120			322	278	50.0	5.5	1.00

QC Sample ID: BWD0139-MS2	Batch: BWD0139		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 04/05/2022	Date Analyzed: 04/05/2022								
Chloride	98.3	80 - 120			30500	19500	11100	1110	1.00
Fluoride	81.3	80 - 120			903	ND	1110	111	1.00
Sulfate	89.8	80 - 120			11300	1370	11100	1110	1.00

Matrix Spike Dup - EPA 300.0

QC Sample ID: BWD0139-MSD1	Batch: BWD0139		QC Source Sample: 22C2426-01						
Date Prepared: 04/05/2022	Date Analyzed: 04/05/2022								
Chloride	99.9	0.525	80 - 120	20	71.8	21.9	50.0	5.5	1.00
Fluoride	143	0.391	80 - 120	20	7.6	0.5	5.00	0.5	1.00
<p style="color:red; font-size:small;">QM-RPD - The recovery was outside acceptance limits for the MS and/or MSD. The RPD between the MS and MSD was acceptable and indicates the recovery is due to matrix interference. The batch was accepted based on the acceptable recovery of the LCS and the RPD.</p>									
Sulfate	84.4	0.618	80 - 120	20	320	278	50.0	5.5	1.00

QC Sample ID: BWD0139-MSD2	Batch: BWD0139		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 04/05/2022	Date Analyzed: 04/05/2022								
Chloride	99.9	0.615	80 - 120	20	30700	19500	11100	1110	1.00
Fluoride	80.1	1.50	80 - 120	20	890	ND	1110	111	1.00
Sulfate	91.1	1.26	80 - 120	20	11500	1370	11100	1110	1.00

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BWD0378-BLK1	Batch: BWD0378								
Date Prepared: 04/11/2022	Date Analyzed: 04/11/2022								
Nitrate + Nitrite, Total, as N					ND			0.1	1.00
LCS - EPA 353.2									
QC Sample ID: BWD0378-BS1	Batch: BWD0378								
Date Prepared: 04/11/2022	Date Analyzed: 04/11/2022								
Nitrate + Nitrite, Total, as N	98.8		80 - 120		2.0		2.00	0.1	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BWD0378-MS1	Batch: BWD0378			QC Source Sample: 22C2426-01					
Date Prepared: 04/11/2022	Date Analyzed: 04/11/2022								
Nitrate + Nitrite, Total, as N	105		80 - 120		1.0	ND	1.00	0.1	1.00
QC Sample ID: BWD0378-MS2	Batch: BWD0378			QC Source Sample: XXXXXXXX-XX					
Date Prepared: 04/11/2022	Date Analyzed: 04/11/2022								
Nitrate + Nitrite, Total, as N	100		80 - 120		7.3	6.3	1.00	0.5	5.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BWD0378-MSD1	Batch: BWD0378			QC Source Sample: 22C2426-01					
Date Prepared: 04/11/2022	Date Analyzed: 04/11/2022								
Nitrate + Nitrite, Total, as N	110	5.12	80 - 120	20	1.1	ND	1.00	0.1	1.00
QC Sample ID: BWD0378-MSD2	Batch: BWD0378			QC Source Sample: XXXXXXXX-XX					
Date Prepared: 04/11/2022	Date Analyzed: 04/11/2022								
Nitrate + Nitrite, Total, as N	115	2.07	80 - 120	20	7.4	6.3	1.00	0.5	5.00

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 8260B/C /5030A

QC Sample ID: BWD0069-BLK1	Batch: BWD0069								
Date Prepared: 04/02/2022	Date Analyzed: 04/02/2022								
Acetone					ND		10.0	1.00	
Benzene					ND		0.4	1.00	
Carbon Tetrachloride					ND		1.0	1.00	
Chloroform					ND		1.0	1.00	
Chloromethane					ND		1.0	1.00	
Methyl Ethyl Ketone					ND		10.0	1.00	
Methylene Chloride					ND		2.0	1.00	
Naphthalene					ND		1.0	1.00	
Tetrahydrofuran					ND		1.0	1.00	
Toluene					ND		1.0	1.00	
Xylenes, total					ND		1.0	1.00	

LCS - EPA 8260B/C /5030A

QC Sample ID: BWD0069-BS1	Batch: BWD0069								
Date Prepared: 04/02/2022	Date Analyzed: 04/02/2022								
Acetone	96.6		80 - 120		96.6		100	10.0	1.00
Benzene	92.4		80 - 120		9.24		10.0	0.4	1.00
Carbon Tetrachloride			80 - 120		9.22			1.0	1.00
Chloroform	85.4		80 - 120		8.54		10.0	1.0	1.00
Chloromethane	76.7		80 - 120		7.67		10.0	1.0	1.00
QM-11 - The Laboratory Control Sample recovery was outside acceptance limits. The analytical batch was accepted based on the recovery of the Method Spike.									
Methyl Ethyl Ketone	115		80 - 120		115		100	10.0	1.00
Methylene Chloride	80.9		80 - 120		8.09		10.0	2.0	1.00
Naphthalene	102		80 - 120		10.2		10.0	1.0	1.00
Toluene	91.3		80 - 120		9.13		10.0	1.0	1.00
Xylenes, total			80 - 120		28.7			1.0	1.00

Matrix Spike - EPA 8260B/C /5030A

QC Sample ID: BWD0069-MS1	Batch: BWD0069		QC Source Sample: 22C2426-01						
Date Prepared: 04/02/2022	Date Analyzed: 04/02/2022								
Acetone	99.2		0 - 200		496	ND	500	50.0	1.00
Benzene	85.6		70 - 130		42.8	ND	50.0	2.0	1.00
Carbon Tetrachloride			0 - 200		41.4	ND		5.0	1.00
Chloroform	82.2		0 - 200		41.1	ND	50.0	5.0	1.00
Chloromethane	67.9		0 - 200		34.0	ND	50.0	5.0	1.00
Methyl Ethyl Ketone	113		0 - 200		566	ND	500	50.0	1.00
Methylene Chloride	76.0		0 - 200		38.0	ND	50.0	10.0	1.00
Naphthalene	102		0 - 200		51.2	ND	50.0	5.0	1.00
Toluene	85.2		70 - 130		42.6	ND	50.0	5.0	1.00
Xylenes, total			0 - 200		132	ND		5.0	1.00

Matrix Spike Dup - EPA 8260B/C /5030A

QC Sample ID: BWD0069-MSD1	Batch: BWD0069		QC Source Sample: 22C2426-01						
Date Prepared: 04/02/2022	Date Analyzed: 04/02/2022								
Acetone	95.7	3.55	0 - 200	200	479	ND	500	50.0	1.00
Benzene	85.4	0.234	70 - 130	20	42.7	ND	50.0	2.0	1.00
Carbon Tetrachloride			0 - 200	200	41.8	ND		5.0	1.00
Chloroform	81.2	1.22	0 - 200	200	40.6	ND	50.0	5.0	1.00
Chloromethane	67.4	0.739	0 - 200	200	33.7	ND	50.0	5.0	1.00
Methyl Ethyl Ketone	108	4.24	0 - 200	200	542	ND	500	50.0	1.00
Methylene Chloride	77.3	1.70	0 - 200	200	38.6	ND	50.0	10.0	1.00

QC Report for Work Order (WO) - 22C2426

Analyte

% Rec RPD Limits RPD Max Result Source Conc Spk Value MRL DF

Matrix Spike Dup - EPA 8260B/C /5030A (cont.)

QC Sample ID: BWD0069-MSD1

Batch: BWD0069

QC Source Sample: 22C2426-01

Date Prepared: 04/02/2022

Date Analyzed: 04/02/2022

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Naphthalene	93.7	8.78	0 - 200	200	46.8	ND	50.0	5.0	1.00
Toluene	83.6	1.90	70 - 130	20	41.8	ND	50.0	5.0	1.00
Xylenes, total			0 - 200	200	130	ND		5.0	1.00

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 2320 B									
QC Sample ID: BWD0046-BLK1	Batch: BWD0046		QC Source Sample: 22C2426-01						
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00
Duplicate - SM 2320 B									
QC Sample ID: BWD0046-DUP1	Batch: BWD0046		QC Source Sample: 22C2426-01						
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.621		20	258	257			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)	0.621		20	258	257			1.0	1.00
QC Sample ID: BWD0046-DUP2	Batch: BWD0046		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.200		20	301	300			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)	0.200		20	301	300			1.0	1.00
QC Sample ID: BWD0046-DUP3	Batch: BWD0046		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.154		20	260	260			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)	0.154		20	260	260			1.0	1.00
LCS - SM 2320 B									
QC Sample ID: BWD0046-BS1	Batch: BWD0046		QC Source Sample: 22C2426-01						
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Alkalinity - Total (as CaCO3)	97.7	90 - 110		231			236	1.0	1.00

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - SM 2540 C

QC Sample ID: BWD0016-BLK1	Batch: BWD0016								
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Total Dissolved Solids (TDS)					ND			10	1.00
<i>J-LOW - Estimated low due to low recovery of LCS or CCV</i>									

Duplicate - SM 2540 C

QC Sample ID: BWD0016-DUP1	Batch: BWD0016	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Total Dissolved Solids (TDS)	2		10	2320	2360			20	1.00
<i>J-LOW - Estimated low due to low recovery of LCS or CCV</i>									

QC Sample ID: BWD0016-DUP2	Batch: BWD0016	QC Source Sample: 22C2426-01							
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Total Dissolved Solids (TDS)	3		10	652	672			20	1.00
<i>J-LOW - Estimated low due to low recovery of LCS or CCV</i>									

LCS - SM 2540 C

QC Sample ID: BWD0016-BS1	Batch: BWD0016								
Date Prepared: 04/01/2022	Date Analyzed: 04/01/2022								
Total Dissolved Solids (TDS)	80	90 - 110		320		400		20	1.00
<i>J-LOW - Estimated low due to low recovery of LCS or CCV</i>									

QC Report for Work Order (WO) - 22C2426

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - SM 4500 NH3 H									
QC Sample ID: BWD0067-BLK1	Batch: BWD0067								
Date Prepared: 04/04/2022	Date Analyzed: 04/04/2022								
Ammonia as N					ND			0.2	1.00
LCS - SM 4500 NH3 H									
QC Sample ID: BWD0067-BS1	Batch: BWD0067								
Date Prepared: 04/04/2022	Date Analyzed: 04/04/2022								
Ammonia as N	97.2		90 - 110		4.86		5.00	0.2	1.00
Matrix Spike - SM 4500 NH3 H									
QC Sample ID: BWD0067-MS1	Batch: BWD0067				QC Source Sample: 22C2426-01				
Date Prepared: 04/04/2022	Date Analyzed: 04/04/2022								
Ammonia as N	106		80 - 120		0.53	ND	0.500	0.2	1.00
Matrix Spike Dup - SM 4500 NH3 H									
QC Sample ID: BWD0067-MSD1	Batch: BWD0067				QC Source Sample: 22C2426-01				
Date Prepared: 04/04/2022	Date Analyzed: 04/04/2022								
Ammonia as N	105	0.756	80 - 120	20	0.53	ND	0.500	0.2	1.00

Surrogates Report for Work Order (WO) - 22C2426

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260B/C /5030A								
BWD0069-BLK1	1,2-Dichloroethane-d4	104	64.2	126	10.4	10.0	BWD0069	1.00
BWD0069-BLK1	4-Bromofluorobenzene	97.1	71.4	122	9.71	10.0	BWD0069	1.00
BWD0069-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BWD0069	1.00
LCS - EPA 8260B/C /5030A								
BWD0069-BS1	1,2-Dichloroethane-d4	106	64.2	126	10.6	10.0	BWD0069	1.00
BWD0069-BS1	4-Bromofluorobenzene	101	71.4	122	10.1	10.0	BWD0069	1.00
BWD0069-BS1	Toluene-d8	98.9	63.2	129	9.89	10.0	BWD0069	1.00
Matrix Spike - EPA 8260B/C /5030A								
BWD0069-MS1	1,2-Dichloroethane-d4	106	64.2	126	52.8	50.0	BWD0069	1.00
BWD0069-MS1	4-Bromofluorobenzene	100	71.4	122	50.2	50.0	BWD0069	1.00
BWD0069-MS1	Toluene-d8	100	63.2	129	50.0	50.0	BWD0069	1.00
Matrix Spike Dup - EPA 8260B/C /5030A								
BWD0069-MSD1	1,2-Dichloroethane-d4	99.6	64.2	126	49.8	50.0	BWD0069	1.00
BWD0069-MSD1	4-Bromofluorobenzene	102	71.4	122	51.0	50.0	BWD0069	1.00
BWD0069-MSD1	Toluene-d8	100	63.2	129	50.0	50.0	BWD0069	1.00

Surrogate Recoveries (Field Samples)

LabNumber	Analyte	Result	SpkLvl	%Rec	LCL	UCL	Qualifier
8260B Low Level Volatiles							
22C2426-01	Toluene-d8	10.0	10.0	100	63.2	129	
22C2426-01	4-Bromofluorobenzene	10.0	10.0	100	71.4	122	
22C2426-01	1,2-Dichloroethane-d4	10.2	10.0	102	64.2	126	
8260B Low Level Volatiles							
22C2426-02	Toluene-d8	9.71	10.0	97.1	63.2	129	
22C2426-02	4-Bromofluorobenzene	10.1	10.0	101	71.4	122	
22C2426-02	1,2-Dichloroethane-d4	9.85	10.0	98.5	64.2	126	



May 03, 2022

Ms. Kathy Weinel
Energy Fuels Resources (USA), Inc.
225 Union Boulevard
Suite 600
Lakewood, Colorado 80228

Re: White Mesa Mill GW
Work Order: 575649

Dear Ms. Weinel:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 06, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



**Energy Fuels Resources (USA), Inc.
White Mesa Mill GW
SDG: 575649**

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 575649**

May 03, 2022

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 April 06, 2022 for analysis. The sample was delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following sample:

<u>Laboratory ID</u>	<u>Client ID</u>
575649001	Westwater Spring

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.



Julie Robinson
Project Manager



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

JR

Client: <u>PNMI</u>		SDG/R/COC/Work Order: <u>575649</u>	
Received By: <u>BE</u>		Date Received: <u>4-6-22</u>	
Carrier and Tracking Number		FedEx Express FedEx Ground <u>(UPS)</u> Field Services Courier Other <u>12/87 444 03 9225 0187</u>	
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	COC notation (or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ CPM/ mR/Hr Classified as: Rad 1 Rad 2 Rad 3 <u>00</u>	
D) Did the client designate samples are hazardous?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____	
Sample Receipt Criteria	Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Comments/Qualifiers (Required for Non-Conforming Items)	
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry Ice <u>(None)</u> Other: *all temperatures are recorded in Celsius TEMP: <u>20</u>	
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>IR2-21</u> Secondary Temperature Device Serial # (If Applicable): _____	
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____	
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil KIts present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA freezer)	
		Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)	
		Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected: _____	
8 Samples received within holding time?	<input checked="" type="checkbox"/>	ID's and tests affected:	
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	ID's and containers affected:	
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)	
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)	
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>		
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)	
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials NRG Date 4/7/22 Page 1 of 1

GEL Laboratories LLC – Login Review Report

Report Date: 03-MAY-22

Work Order: 575649

Page 1 of 2

GEL Work Order/SDG: 575649 Seeps and Springs 2022
 Client SDG: 575649
 Project Manager: Julie Robinson
 Project Name: DNMI00100 White Mesa Mill GW
 Purchase Order: DW16138
 Package Level: LEVEL3
 EDD Format: EIM_DNMI

Work Order Due Date: 04-MAY-22
 Package Due Date: 04-MAY-22
 EDD Due Date: 04-MAY-22
 Due Date: 04-MAY-22
 NG1

Collector: C
 Prelogin #: 20190487484
 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
575649001	Westwater Spring		28-MAR-22 08:50	06-APR-22 10:00	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 Westwater Spring	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

Product: GFCTORAL Workdef ID: 1458614 In Product Group? No Group Name: Group Reference:
 Method: EPA 903.0 Path: Drinking Water (903.0 or 9315)
 Product Description: GFPC, Total Alpha Radium, Liquid Product Reference: Gross Alpha
 Samples: 001 Moisture Correction: "As Received"

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	No

Action Product Name Description Samples

Contingent Tests

Login Requirements:

Requirement	Include?	Comments
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GEL Laboratories LLC – Login Review Report

Report Date: 03-MAY-22

Work Order: 575649

Page 2 of 2

Peer Review by: _____ Work Order (SDG#), PO# Checked? _____ C of C signed in receiver location? _____

List of current GEL Certifications as of 03 May 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 575649**

Product: GFPC, Total Alpha Radium, Liquid

Analytical Method: EPA 903.0

Analytical Procedure: GL-RAD-A-044 REV# 10

Analytical Batch: 2252110

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
575649001	Westwater Spring
1205063056	Method Blank (MB)
1205063057	575649001(Westwater Spring) Sample Duplicate (DUP)
1205063058	575649001(Westwater Spring) Matrix Spike (MS)
1205063059	575649001(Westwater Spring) Matrix Spike Duplicate (MSD)
1205063060	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike and matrix spike duplicate, 1205063058 (Westwater SpringMS) and 1205063059 (Westwater SpringMSD), aliquots were reduced to conserve sample volume.

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: 575649 GEL Work Order: 575649

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: Kenshalla Oston

Date: 29 APR 2022

Title: Analyst I

GEL LABORATORIES LLC

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

QC Summary

Report Date: April 29, 2022

Page 1 of

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

Contact: Ms. Kathy Weinel

Workorder: 575649

Sample Name	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch 2252110											
QC1205063057 575649001 DUP											
Gross Radium Alpha	U	0.0551	U	0.139	pCi/L	N/A			N/A JXC9	04/19/22	11:44
	Uncertainty	+/-0.109		+/-0.106							
QC1205063060 LCS											
Gross Radium Alpha	531			424	pCi/L		79.8	(75%-125%)		04/19/22	11:44
	Uncertainty			+/-4.85							
QC1205063056 MB											
Gross Radium Alpha			U	0.207	pCi/L					04/19/22	11:44
	Uncertainty			+/-0.169							
QC1205063058 575649001 MS											
Gross Radium Alpha	2150 U	0.0551		1650	pCi/L		76.7	(75%-125%)		04/19/22	11:44
	Uncertainty	+/-0.109		+/-17.7							
QC1205063059 575649001 MSD											
Gross Radium Alpha	2130 U	0.0551		1670	pCi/L	1.32	78.6	(0%-20%)		04/19/22	11:44
	Uncertainty	+/-0.109		+/-18.7							

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 575649

Page 2 of

armname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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								
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Q		One or more quality control criteria have not been met. Refer to the applicable narrative or DER.								
R		Sample results are rejected								
U		Analyte was analyzed for, but not detected above the CRDL.								
UI		Gamma Spectroscopy--Uncertain identification								
UJ		Gamma Spectroscopy--Uncertain identification								
UL		Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.								
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier								
Y		QC Samples were not spiked with this compound								
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.								
h		Preparation or preservation holding time was exceeded								

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
 ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the 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.



CHEMTECH-FORD
LABORATORIES

6/3/2022

Work Order: 22E1012
Project: Seeps and Springs 2022

Energy Fuels Resources, Inc.
Attn: Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Melissa Connolly, Project Manager



Energy Fuels Resources, Inc.

Project: Seeps and Springs 2022
Project Manager: Tanner Holliday

<u>Laboratory ID</u>	<u>Sample Name</u>
22E1012-01	Entrance Spring
22E1012-02	Ruin Spring
22E1012-03	Cottonwood Spring
22E1012-04	Back Spring
22E1012-05	Trip Blank

Work Order Report Narrative

Set Comments

Due to laboratory error during the 8260D analysis, the LCS, MS, and MSD were not spiked for Tetrahydrofuran. The samples were analyzed for spectral evidence of Tetrahydrofuran.

Sample Preparation

All samples were prepared within method specified holding times. No preparation issues were noted.

Method Blanks

All blank values were within method acceptance criteria. No blank values exceeded the minimum reporting limit for any analysis in this work order.

Laboratory Control Samples

All laboratory control samples were within method acceptance criteria.

Method Spikes

All method spike recoveries were within method acceptance criteria, except as noted by qualifying flags.

Method Spike Duplicates

All method spike duplicates were within method acceptance criteria, except as noted by qualifying flags.

Corrective Actions

The corrective action required with this workorder is to implement a new procedure to verify which analytes need to be spiked if they are not included in the laboratory standard spiking solution.

Certificate of Analysis

Energy Fuels Resources, Inc.
Tanner Holliday
6425 South Highway 191
Blanding, UT 84511

PO#:
Receipt: **5/12/22 12:27 @ 2.1 °C**
Date Reported: **6/3/2022**
Project Name: **Seeps and Springs 2022**

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).
1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.
1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.
1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

A-01 = The sample was analyzed for spectral evidence of THF and none was detected.
J-LOW = Estimated low due to low recovery of LCS or CCV
MS-Low = Estimated low due to Matrix Spike recovery.



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.

22 E 1012
~~22 E 1020~~

AWAL Lab Sample Set #
 Page 1 of 1

Client: **Energy Fuels Resources, Inc.**
 Address: **6425 S. Hwy. 191**
Blanding, UT 84511
 Contact: **Tanner Holliday**
 Phone #: **(435) 678-2221** Cell #: _____
 Email: **tholliday@energyfuels.com; kweinel@energyfuels.com**
 Project Name: **Seeps and Springs 2022**
 Project #: _____
 PO #: _____
 Sampler Name: **Tanner Holliday**

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.		Duc Date:							
3		Standard											
# of Containers	Sample Matrix	NO2/NO3 (353.2) ✓	NH3 (4500G or 350.1) ✓	F ⁻ , Cl ⁻ , SO4 ²⁻ (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C) ✓	Laboratory Use Only		
											Samples Were:		
											X Include EDD: LOCUS UPLOAD EXCEL X Field Filtered For: Dissolved Metals For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other: Known Hazards & Sample Comments		
											1 Shipped or hand delivered 2 Ambient or Chilled 3 Temperature <u>2.1</u> °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		

Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2) ✓	NH3 (4500G or 350.1) ✓	F ⁻ , Cl ⁻ , SO4 ²⁻ (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C) ✓	Known Hazards & Sample Comments
1 Entrnce Spring	5/10/2022	820	7	w	x	x	x	x	x	x	x	x	x	
2 Ruin Spring	5/10/2022	855	7	w	x	x	x	x	x	x	x	x	x	
3 Cottonwood Spring	5/10/2022	945	7	w	x	x	x	x	x	x	x	x	x	
4 Back Spring	5/10/2022	855	7	w	x	x	x	x	x	x	x	x	x	
5 Trip Blank	5/10/2022	820	3	w									x	
6														
7														
8														
9														
10														
11														
12														

Relinquished by: Signature <i>Tanner Holliday</i>	Date: 5/11/2022	Received by: Signature _____	Date: _____	Special Instructions: Sample containers for metals were field filtered. See the Analytical Scope of Work for Reporting Limits and VOC analyte list.
Print Name: Tanner Holliday	Time: 1100	Received by: Signature <i>Elaine Hayward</i>	Date: 5/12/22	
Relinquished by: Signature _____	Date: _____	Received by: Signature _____	Date: _____	
Print Name: _____	Time: _____	Received by: Signature _____	Date: _____	
Relinquished by: Signature _____	Date: _____	Received by: Signature _____	Date: _____	
Print Name: _____	Time: _____	Received by: Signature _____	Date: _____	

22E1012

Work Order # 22E1020

CHEMTECH FORD LABORATORIES

Sample Receipt



CHEMTECH-FORD
LABORATORIES

Delivery Method:

- UPS
- USPS
- FedEx
- Chemtech Courier
- Walk-in
- Customer Courier

Receiving Temperature 2.1 °C

12 187 Y4Y 03 97 08 83 72

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
01-04	AP	client						
	n	client						
	m	1186						
	AP	client						
	w(2)	client						
05	w(2)	client						

Sample Condition (check if yes)
<input checked="" type="checkbox"/> Custody Seals
<input checked="" type="checkbox"/> Containers Intact
<input checked="" type="checkbox"/> COC can be matched to bottles
<input checked="" type="checkbox"/> Received on Ice
<input checked="" type="checkbox"/> Correct Containers(s)
<input checked="" type="checkbox"/> Sufficient Sample Volume
<input type="checkbox"/> Headspace Present (VOC)
<input type="checkbox"/> Temperature Blank
<input checked="" type="checkbox"/> Received within Holding Time

Plastic Containers
A- Plastic Unpreserved
B- Miscellaneous Plastic
C- Cyanide Qt (NaOH)
E- Coliform/Ecol/HPC
F- Sulfide Qt (Zn Acetate)
L- Mercury 1631
M- Metals Pint (HNO3)
N- Nutrient Pint (H2SO4)
R- Radiological (HNO3)
S- Sludge Cups/Tubs
Q- Plastic Bag

Glass Containers
D- 625 (Na2S2O3)
G- Glass Unpreserved
H- HAAs (NH4Cl)
J- 508/515/525 (Na2SO3)
K- 515.3 Herbicides
O- Oil & Grease (HCl)
P- Phenols (H2SO4)
T- TOC/TOX (H3PO4)
U- 531 (MCAA, Na2S2O3)
V- 524/THMs (Ascorbic Acid)
W- 8260 VOC (1:1 HCl)
X- Vial Unpreserved
Y- 624/504 (Na2S2O3)
Z- Miscellaneous Glass

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 200.7

QC Sample ID: BWE0967-BLK1	Batch: BWE0967								
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Calcium, Dissolved					ND			0.2	1.00
Iron, Dissolved					ND			0.02	1.00
Magnesium, Dissolved					ND			0.2	1.00
Potassium, Dissolved					ND			0.5	1.00
Sodium, Dissolved					ND			0.5	1.00
Tin, Dissolved					ND			0.02	1.00

LCS - EPA 200.7

QC Sample ID: BWE0967-BS1	Batch: BWE0967								
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Calcium, Dissolved	90.2	85 - 115			9.2		10.2	0.2	1.00
Iron, Dissolved	97.6	85 - 115			0.195		0.200	0.02	1.00
Magnesium, Dissolved	95.3	85 - 115			9.7		10.2	0.2	1.00
Potassium, Dissolved	96.4	85 - 115			9.6		10.0	0.5	1.00
Sodium, Dissolved	94.6	85 - 115			9.5		10.0	0.5	1.00
Tin, Dissolved	90.3	85 - 155			0.18		0.200	0.02	1.00

Matrix Spike - EPA 200.7

QC Sample ID: BWE0967-MS1	Batch: BWE0967		QC Source Sample: 22E1012-01						
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Calcium, Dissolved	73.5	70 - 130			130	123	10.2	0.2	1.00
Iron, Dissolved	91.6	70 - 130			0.572	0.389	0.200	0.02	1.00
Magnesium, Dissolved	91.0	70 - 130			54.0	44.8	10.2	0.2	1.00
Potassium, Dissolved	97.0	70 - 130			14.2	4.5	10.0	0.5	1.00
Sodium, Dissolved	85.8	70 - 130			109	100	10.0	0.5	1.00
Tin, Dissolved	90.4	70 - 130			0.18	0.004	0.200	0.02	1.00

QC Sample ID: BWE0967-MS2	Batch: BWE0967		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Calcium, Dissolved	87.2	70 - 130			69.6	60.7	10.2	0.2	1.00
Iron, Dissolved	101	70 - 130			0.203	ND	0.200	0.02	1.00
Magnesium, Dissolved	95.3	70 - 130			30.5	20.8	10.2	0.2	1.00
Potassium, Dissolved	99.2	70 - 130			11.1	1.2	10.0	0.5	1.00
Sodium, Dissolved	91.3	70 - 130			45.0	35.8	10.0	0.5	1.00
Tin, Dissolved	93.5	70 - 130			0.19	ND	0.200	0.02	1.00

Matrix Spike Dup - EPA 200.7

QC Sample ID: BWE0967-MSD1	Batch: BWE0967		QC Source Sample: 22E1012-01						
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Calcium, Dissolved	69.5	0.314	70 - 130	20	130	123	10.2	0.2	1.00
QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.									
Iron, Dissolved	95.4	1.32	70 - 130	20	0.580	0.389	0.200	0.02	1.00
Magnesium, Dissolved	91.3	0.0586	70 - 130	20	54.1	44.8	10.2	0.2	1.00
Potassium, Dissolved	99.8	1.94	70 - 130	20	14.5	4.5	10.0	0.5	1.00
Sodium, Dissolved	81.5	0.391	70 - 130	20	109	100	10.0	0.5	1.00
Tin, Dissolved	92.6	2.47	70 - 130	20	0.19	0.004	0.200	0.02	1.00

QC Sample ID: BWE0967-MSD2	Batch: BWE0967		QC Source Sample: XXXXXXXX-XX						
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Calcium, Dissolved	85.8	0.203	70 - 130	20	69.4	60.7	10.2	0.2	1.00
Iron, Dissolved	99.7	1.64	70 - 130	20	0.199	ND	0.200	0.02	1.00

QC Report for Work Order (WO) - 22E1012

Analyte % Rec RPD Limits RPD Max Result Source Conc Spk Value MRL DF

Matrix Spike Dup - EPA 200.7 (cont.)

QC Sample ID: BWE0967-MSD2	Batch: BWE0967	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Magnesium, Dissolved	94.5	0.262	70 - 130	20	30.4	20.8	10.2	0.2	1.00
Potassium, Dissolved	98.2	0.908	70 - 130	20	11.0	1.2	10.0	0.5	1.00
Sodium, Dissolved	90.0	0.274	70 - 130	20	44.8	35.8	10.0	0.5	1.00
Tin, Dissolved	93.6	0.0535	70 - 130	20	0.19	ND	0.200	0.02	1.00

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 200.8

QC Sample ID: BWE1024-BLK1	Batch: BWE1024								
Date Prepared: 05/20/2022	Date Analyzed: 05/20/2022								
Arsenic, Dissolved					ND		0.0005	1.00	
Beryllium, Dissolved					ND		0.0005	1.00	
Cadmium, Dissolved					ND		0.0002	1.00	
Chromium, Dissolved					ND		0.0005	1.00	
Cobalt, Dissolved					ND		0.0005	1.00	
Copper, Dissolved					ND		0.0010	1.00	
Lead, Dissolved					ND		0.0005	1.00	
Manganese, Dissolved					ND		0.0005	1.00	
Molybdenum, Dissolved					ND		0.0005	1.00	
Nickel, Dissolved					ND		0.0005	1.00	
Selenium, Dissolved					ND		0.0005	1.00	
Silver, Dissolved					ND		0.0005	1.00	
Thallium, Dissolved					ND		0.0002	1.00	
Uranium, Dissolved					ND		0.0005	1.00	
Vanadium, Dissolved					ND		0.0005	1.00	
Zinc, Dissolved					ND		0.01	1.00	

LCS - EPA 200.8

QC Sample ID: BWE1024-BS1	Batch: BWE1024								
Date Prepared: 05/20/2022	Date Analyzed: 05/20/2022								
Arsenic, Dissolved	97.9	85 - 115		0.039		0.0400	0.0005	1.00	
Beryllium, Dissolved	102	85 - 115		0.041		0.0400	0.0005	1.00	
Cadmium, Dissolved	97.2	85 - 115		0.039		0.0400	0.0002	1.00	
Chromium, Dissolved	98.8	85 - 115		0.040		0.0400	0.0005	1.00	
Cobalt, Dissolved	97.0	85 - 115		0.039		0.0400	0.0005	1.00	
Copper, Dissolved	97.3	85 - 115		0.039		0.0400	0.0010	1.00	
Lead, Dissolved	99.6	85 - 115		0.040		0.0400	0.0005	1.00	
Manganese, Dissolved	97.0	85 - 115		0.039		0.0400	0.0005	1.00	
Molybdenum, Dissolved	98.9	85 - 115		0.040		0.0400	0.0005	1.00	
Nickel, Dissolved	97.9	85 - 115		0.0392		0.0400	0.0005	1.00	
Selenium, Dissolved	99.8	85 - 115		0.040		0.0400	0.0005	1.00	
Silver, Dissolved	96.8	85 - 115		0.039		0.0400	0.0005	1.00	
Thallium, Dissolved	101	85 - 115		0.040		0.0400	0.0002	1.00	
Uranium, Dissolved	101	85 - 115		0.041		0.0400	0.0005	1.00	
Vanadium, Dissolved	94.1	85 - 115		0.038		0.0400	0.0005	1.00	
Zinc, Dissolved	98.2	85 - 115		0.04		0.0400	0.01	1.00	

Matrix Spike - EPA 200.8

QC Sample ID: BWE1024-MS1	Batch: BWE1024	QC Source Sample: 22E1012-01							
Date Prepared: 05/20/2022	Date Analyzed: 05/20/2022								
Arsenic, Dissolved	102	70 - 130		0.044	0.003	0.0400	0.0005	1.00	
Beryllium, Dissolved	105	70 - 130		0.042	ND	0.0400	0.0005	1.00	
Cadmium, Dissolved	96.6	70 - 130		0.039	0.00002	0.0400	0.0002	1.00	
Chromium, Dissolved	92.9	70 - 130		0.043	0.005	0.0400	0.0005	1.00	
Cobalt, Dissolved	93.8	70 - 130		0.039	0.001	0.0400	0.0005	1.00	
Copper, Dissolved	99.2	70 - 130		0.040	0.0005	0.0400	0.0010	1.00	
Lead, Dissolved	99.4	70 - 130		0.040	ND	0.0400	0.0005	1.00	
Manganese, Dissolved	58.3	70 - 130		0.653	0.629	0.0400	0.0005	1.00	

QM-4X - The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Molybdenum, Dissolved	103	70 - 130		0.043	0.002	0.0400	0.0005	1.00	
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CtF WO#: **22E1012**

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QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Matrix Spike - EPA 200.8 (cont.)

QC Sample ID: BWE1024-MS1

Batch: BWE1024

QC Source Sample: 22E1012-01

Date Prepared: 05/20/2022

Date Analyzed: 05/20/2022

Nickel, Dissolved	93.3		75 - 125		0.0383	0.0010	0.0400	0.0005	1.00
Selenium, Dissolved	103		70 - 130		0.047	0.005	0.0400	0.0005	1.00
Silver, Dissolved	81.5		70 - 130		0.033	ND	0.0400	0.0005	1.00
Thallium, Dissolved	101		70 - 130		0.041	ND	0.0400	0.0002	1.00
Uranium, Dissolved	103		70 - 130		0.059	0.017	0.0400	0.0005	1.00
Vanadium, Dissolved	94.1		70 - 130		0.041	0.003	0.0400	0.0005	1.00
Zinc, Dissolved	157		70 - 130		0.06	0.001	0.0400	0.01	1.00

QM-07 - The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 245.1									
QC Sample ID: BWE0705-BLK1	Batch: BWE0705								
Date Prepared: 05/16/2022	Date Analyzed: 05/17/2022								
Mercury, Dissolved					ND			0.0002	1.00
LCS - EPA 245.1									
QC Sample ID: BWE0705-BS1	Batch: BWE0705								
Date Prepared: 05/16/2022	Date Analyzed: 05/17/2022								
Mercury, Dissolved	108		85 - 115		0.0054		0.00500	0.0002	1.00
Matrix Spike - EPA 245.1									
QC Sample ID: BWE0705-MS1	Batch: BWE0705				QC Source Sample: 22E1012-01				
Date Prepared: 05/16/2022	Date Analyzed: 05/17/2022								
Mercury, Dissolved	115		75 - 125		0.0058	ND	0.00500	0.0002	1.00
Matrix Spike Dup - EPA 245.1									
QC Sample ID: BWE0705-MSD1	Batch: BWE0705				QC Source Sample: 22E1012-01				
Date Prepared: 05/16/2022	Date Analyzed: 05/17/2022								
Mercury, Dissolved	113	2.19	75 - 125	20	0.0056	ND	0.00500	0.0002	1.00

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 300.0

QC Sample ID: BWE0580-BLK1	Batch: BWE0580								
Date Prepared: 05/12/2022	Date Analyzed: 05/12/2022								
Chloride					ND			1.0	1.00

QC Sample ID: BWE0730-BLK1	Batch: BWE0730								
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Chloride					ND			1.0	1.00
Fluoride					ND			0.1	1.00
Sulfate					ND			1.0	1.00

LCS - EPA 300.0

QC Sample ID: BWE0580-BS1	Batch: BWE0580								
Date Prepared: 05/12/2022	Date Analyzed: 05/12/2022								
Chloride	100	90 - 110		50.1		50.0		1.0	1.00

QC Sample ID: BWE0730-BS1	Batch: BWE0730								
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Chloride	101	90 - 110		50.5		50.0		1.0	1.00
Fluoride	98.4	90 - 110		4.9		5.00		0.1	1.00
Sulfate	101	90 - 110		50.5		50.0		1.0	1.00

Matrix Spike - EPA 300.0

QC Sample ID: BWE0580-MS1	Batch: BWE0580				QC Source Sample: XXXXXXXX-XX				
Date Prepared: 05/12/2022	Date Analyzed: 05/12/2022								
Chloride	66.8	80 - 120		30500	27200	5000		550	1.00

QM-010 - The MS recovery was outside acceptance limits but passed Duplicate Spike acceptance limits. The batch was accepted based on the acceptability of the MSD as the batch Spike.

QC Sample ID: BWE0580-MS2	Batch: BWE0580				QC Source Sample: XXXXXXXX-XX				
Date Prepared: 05/12/2022	Date Analyzed: 05/12/2022								
Chloride	98.9	80 - 120		29000	24000	5000		550	1.00

QC Sample ID: BWE0730-MS1	Batch: BWE0730				QC Source Sample: 22E1012-01				
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Chloride	107	80 - 120		199	91.8	100		11.0	1.00
Fluoride	109	80 - 120		11.7	0.8	10.0		1.1	1.00
Sulfate	97.7	80 - 120		421	323	100		11.0	1.00

QC Sample ID: BWE0730-MS2	Batch: BWE0730				QC Source Sample: XXXXXXXX-XX				
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Chloride	104	80 - 120		30200	25000	5000		550	1.00
Fluoride	115	80 - 120		577	ND	500		55.0	1.00
Sulfate	115	80 - 120		10600	4910	5000		550	1.00

Matrix Spike Dup - EPA 300.0

QC Sample ID: BWE0580-MSD1	Batch: BWE0580				QC Source Sample: XXXXXXXX-XX				
Date Prepared: 05/12/2022	Date Analyzed: 05/12/2022								
Chloride	97.3	4.86	80 - 120	20	32000	27200	5000	550	1.00

QC Sample ID: BWE0580-MSD2	Batch: BWE0580				QC Source Sample: XXXXXXXX-XX				
Date Prepared: 05/12/2022	Date Analyzed: 05/12/2022								
Chloride	97.2	0.288	80 - 120	20	28900	24000	5000	550	1.00

QC Sample ID: BWE0730-MSD1	Batch: BWE0730				QC Source Sample: 22E1012-01				
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Chloride	103	2.02	80 - 120	20	195	91.8	100	11.0	1.00
Fluoride	104	4.46	80 - 120	20	11.2	0.8	10.0	1.1	1.00
Sulfate	98.9	0.278	80 - 120	20	422	323	100	11.0	1.00

CtF WO#: 22E1012

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QC Report for Work Order (WO) - 22E1012

Analyte

% Rec

RPD

Limits

RPD Max

Result

Source Conc

Spk Value

MRL

DF

Matrix Spike Dup - EPA 300.0 (cont.)

QC Sample ID: BWE0730-MSD2

Batch: BWE0730

QC Source Sample: XXXXXXXX-XX

Date Prepared: 05/16/2022

Date Analyzed: 05/16/2022

Chloride	104	0.0164	80 - 120	20	30200	25000	5000	550	1.00
Fluoride	97.1	17.2	80 - 120	20	485	ND	500	55.0	1.00
Sulfate	114	0.285	80 - 120	20	10600	4910	5000	550	1.00

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Blank - EPA 353.2									
QC Sample ID: BWE0707-BLK1	Batch: BWE0707								
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Nitrate + Nitrite, Total, as N					ND			0.1	1.00
LCS - EPA 353.2									
QC Sample ID: BWE0707-BS1	Batch: BWE0707								
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Nitrate + Nitrite, Total, as N	100		80 - 120		2.0		2.00	0.1	1.00
Matrix Spike - EPA 353.2									
QC Sample ID: BWE0707-MS1	Batch: BWE0707			QC Source Sample: XXXXXXXX-XX					
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Nitrate + Nitrite, Total, as N	116		80 - 120		2.6	1.4	1.00	0.1	1.00
QC Sample ID: BWE0707-MS2	Batch: BWE0707			QC Source Sample: 22E1012-01					
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Nitrate + Nitrite, Total, as N	104		80 - 120		1.2	0.2	1.00	0.1	1.00
Matrix Spike Dup - EPA 353.2									
QC Sample ID: BWE0707-MSD1	Batch: BWE0707			QC Source Sample: XXXXXXXX-XX					
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Nitrate + Nitrite, Total, as N	107	3.56	80 - 120	20	2.5	1.4	1.00	0.1	1.00
QC Sample ID: BWE0707-MSD2	Batch: BWE0707			QC Source Sample: 22E1012-01					
Date Prepared: 05/16/2022	Date Analyzed: 05/16/2022								
Nitrate + Nitrite, Total, as N	103	0.563	80 - 120	20	1.2	0.2	1.00	0.1	1.00

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - EPA 8260D /5030A

QC Sample ID: BWE0982-BLK1	Batch: BWE0982								
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Acetone					ND		10.0	1.00	
Benzene					ND		1.0	1.00	
Carbon Tetrachloride					ND		1.0	1.00	
Chloroform					ND		1.0	1.00	
Chloromethane					ND		1.0	1.00	
J-LOW - Estimated low due to low recovery of LCS or CCV									
Methyl Ethyl Ketone					ND		10.0	1.00	
Methylene Chloride					ND		2.0	1.00	
Naphthalene					ND		1.0	1.00	
Tetrahydrofuran					ND		1.0	1.00	
Toluene					ND		1.0	1.00	
Xylenes, total					ND		1.0	1.00	

LCS - EPA 8260D /5030A

QC Sample ID: BWE0982-BS1	Batch: BWE0982								
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Acetone	77.8	70 - 130		77.8		100	10.0	1.00	
Benzene	114	70 - 130		11.4		10.0	0.4	1.00	
Carbon Tetrachloride	113	70 - 130		11.3		10.0	1.0	1.00	
Chloroform	93.8	70 - 130		9.38		10.0	1.0	1.00	
Chloromethane	83.6	70 - 130		8.36		10.0	1.0	1.00	
J-LOW - Estimated low due to low recovery of LCS or CCV									
Methyl Ethyl Ketone	108	70 - 130		108		100	10.0	1.00	
Methylene Chloride	107	70 - 130		10.7		10.0	2.0	1.00	
Naphthalene	102	70 - 130		10.2		10.0	1.0	1.00	
Tetrahydrofuran		70 - 130		ND		20.0	1.0	1.00	
Toluene	113	70 - 130		11.3		10.0	1.0	1.00	
Xylenes, total	119	70 - 130		35.6		30.0	1.0	1.00	

Matrix Spike - EPA 8260D /5030A

QC Sample ID: BWE0982-MS1	Batch: BWE0982		QC Source Sample: 22E1012-01						
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Acetone	64.7	70 - 130		323	ND	500	50.0	1.00	
MS-Low - Estimated low due to Matrix Spike recovery.									
Benzene	79.9	70 - 130		40.0	ND	50.0	2.0	1.00	
Carbon Tetrachloride	75.1	70 - 130		37.6	ND	50.0	5.0	1.00	
Chloroform	53.9	70 - 130		27.0	ND	50.0	5.0	1.00	
MS-Low - Estimated low due to Matrix Spike recovery.									
Chloromethane	38.3	70 - 130		19.2	ND	50.0	5.0	1.00	
J-LOW - Estimated low due to low recovery of LCS or CCV									
Methyl Ethyl Ketone	87.5	70 - 130		438	ND	500	50.0	1.00	
Methylene Chloride	55.7	70 - 130		27.8	ND	50.0	10.0	1.00	
MS-Low - Estimated low due to Matrix Spike recovery.									
Naphthalene	63.7	70 - 130		31.8	ND	50.0	5.0	1.00	
MS-Low - Estimated low due to Matrix Spike recovery.									
Tetrahydrofuran		70 - 130		ND	ND	100	5.0	1.00	
Toluene	79.4	70 - 130		39.7	ND	50.0	5.0	1.00	
Xylenes, total	81.8	70 - 130		123	ND	150	5.0	1.00	

Matrix Spike Dup - EPA 8260D /5030A

QC Sample ID: BWE0982-MSD1	Batch: BWE0982		QC Source Sample: 22E1012-01						
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
Matrix Spike Dup - EPA 8260D /5030A (cont.)									
QC Sample ID: BWE0982-MSD1	Batch: BWE0982		QC Source Sample: 22E1012-01						
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Acetone	68.1	5.14	70 - 130	20	340	ND	500	50.0	1.00
<i>MS-Low - Estimated low due to Matrix Spike recovery.</i>									
Benzene	83.2	4.05	70 - 130	20	41.6	ND	50.0	2.0	1.00
Carbon Tetrachloride	78.2	4.04	70 - 130	20	39.1	ND	50.0	5.0	1.00
Chloroform	57.5	6.46	70 - 130	20	28.8	ND	50.0	5.0	1.00
<i>MS-Low - Estimated low due to Matrix Spike recovery.</i>									
Chloromethane	39.9	4.09	70 - 130	20	20.0	ND	50.0	5.0	1.00
<i>J-LOW - Estimated low due to low recovery of LCS or CCV</i>									
Methyl Ethyl Ketone	92.4	5.47	70 - 130	20	462	ND	500	50.0	1.00
Methylene Chloride	59.9	7.27	70 - 130	20	30.0	ND	50.0	10.0	1.00
<i>MS-Low - Estimated low due to Matrix Spike recovery.</i>									
Naphthalene	72.3	12.6	70 - 130	20	36.2	ND	50.0	5.0	1.00
Tetrahydrofuran			70 - 130	20	ND	ND	100	5.0	1.00
Toluene	81.5	2.61	70 - 130	20	40.8	ND	50.0	5.0	1.00
Xylenes, total	82.5	0.812	70 - 130	20	124	ND	150	5.0	1.00

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
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Blank - SM 2320 B

QC Sample ID: BWE0648-BLK1	Batch: BWE0648								
Date Prepared: 05/13/2022	Date Analyzed: 05/13/2022								
Alkalinity - Bicarbonate (as CaCO3)					ND			1.0	1.00
Alkalinity - Carbonate (as CaCO3)					ND			1.0	1.00

Duplicate - SM 2320 B

QC Sample ID: BWE0648-DUP1	Batch: BWE0648	QC Source Sample: 22E1012-01							
Date Prepared: 05/13/2022	Date Analyzed: 05/13/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.551		20	309	308			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)	0.551		20	309	308			1.0	1.00

QC Sample ID: BWE0648-DUP2	Batch: BWE0648	QC Source Sample: XXXXXXXX-XX							
Date Prepared: 05/13/2022	Date Analyzed: 05/13/2022								
Alkalinity - Bicarbonate (as CaCO3)	0.188		20	106	106			1.0	1.00
Alkalinity - Carbonate (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Hydroxide (as CaCO3)			20	ND	ND			1.0	1.00
Alkalinity - Total (as CaCO3)	0.188		20	106	106			1.0	1.00

LCS - SM 2320 B

QC Sample ID: BWE0648-BS1	Batch: BWE0648								
Date Prepared: 05/13/2022	Date Analyzed: 05/13/2022								
Alkalinity - Total (as CaCO3)	98.6	90 - 110		233		236		1.0	1.00

QC Report for Work Order (WO) - 22E1012

Analyte	% Rec	RPD	Limits	RPD Max	Result	Source Conc	Spk Value	MRL	DF
QC Sample ID: BWE0637-BLK1									
Date Prepared: 05/13/2022									
Total Dissolved Solids (TDS)					ND			10	1.00
QC Sample ID: BWE0637-BS1									
Date Prepared: 05/13/2022									
Total Dissolved Solids (TDS)	98		90 - 110		392		400	20	1.00
QC Sample ID: BWE0637-DUP1									
Date Prepared: 05/13/2022									
Total Dissolved Solids (TDS)	0			10	904	904		20	1.00
QC Sample ID: BWE0637-DUP2									
Date Prepared: 05/13/2022									
Total Dissolved Solids (TDS)	0.2			10	1800	1810		20	1.00

QC Report for Work Order (WO) - 22E1012

Analyte

% Rec RPD Limits RPD Max Result Source Conc Spk Value MRL DF

Blank - SM 4500 NH3 H

QC Sample ID: BWE0909-BLK1	Batch: BWE0909								
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Ammonia as N				ND			0.2	1.00	

LCS - SM 4500 NH3 H

QC Sample ID: BWE0909-BS1	Batch: BWE0909								
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Ammonia as N	100	90 - 110		5.01		5.00	0.2	1.00	

Matrix Spike - SM 4500 NH3 H

QC Sample ID: BWE0909-MS1	Batch: BWE0909			QC Source Sample: 22E1012-01					
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Ammonia as N	105	80 - 120		0.59	0.07	0.500	0.2	1.00	

Matrix Spike Dup - SM 4500 NH3 H

QC Sample ID: BWE0909-MSD1	Batch: BWE0909			QC Source Sample: 22E1012-01					
Date Prepared: 05/19/2022	Date Analyzed: 05/19/2022								
Ammonia as N	104	0.966	80 - 120	20	0.59	0.07	0.500	0.2	1.00

Surrogates Report for Work Order (WO) - 22E1012

QC ID	Analyte	% Rec	LCL	UCL	Result	Spk Value	Batch	DF
Blank - EPA 8260D /5030A								
BWE0982-BLK1	1,2-Dichloroethane-d4	85.3	64.2	126	8.53	10.0	BWE0982	1.00
BWE0982-BLK1	4-Bromofluorobenzene	102	71.4	122	10.2	10.0	BWE0982	1.00
BWE0982-BLK1	Toluene-d8	100	63.2	129	10.0	10.0	BWE0982	1.00
LCS - EPA 8260D /5030A								
BWE0982-BS1	1,2-Dichloroethane-d4	80.9	64.2	126	8.09	10.0	BWE0982	1.00
BWE0982-BS1	4-Bromofluorobenzene	101	71.4	122	10.1	10.0	BWE0982	1.00
BWE0982-BS1	Toluene-d8	98.6	63.2	129	9.86	10.0	BWE0982	1.00
Matrix Spike - EPA 8260D /5030A								
BWE0982-MS1	1,2-Dichloroethane-d4	70.0	64.2	126	35.0	50.0	BWE0982	1.00
BWE0982-MS1	4-Bromofluorobenzene	81.6	71.4	122	40.8	50.0	BWE0982	1.00
BWE0982-MS1	Toluene-d8	100	63.2	129	50.0	50.0	BWE0982	1.00
Matrix Spike Dup - EPA 8260D /5030A								
BWE0982-MSD1	1,2-Dichloroethane-d4	75.0	64.2	126	37.5	50.0	BWE0982	1.00
BWE0982-MSD1	4-Bromofluorobenzene	84.6	71.4	122	42.3	50.0	BWE0982	1.00
BWE0982-MSD1	Toluene-d8	89.9	63.2	129	45.0	50.0	BWE0982	1.00

Surrogate Recoveries (Field Samples)

<u>LabNumber</u>	<u>Analyte</u>	<u>Result</u>	<u>SpkLvl</u>	<u>%Rec</u>	<u>LCL</u>	<u>UCL</u>	<u>Qualifier</u>
8260 Low Level Volatiles							
22E1012-01	Toluene-d8	10.0	10.0	100	63.2	129	
22E1012-01	4-Bromofluorobenzene	10.3	10.0	103	71.4	122	
22E1012-01	1,2-Dichloroethane-d4	8.73	10.0	87.3	64.2	126	
8260 Low Level Volatiles							
22E1012-02	Toluene-d8	10.0	10.0	100	63.2	129	
22E1012-02	4-Bromofluorobenzene	9.79	10.0	97.9	71.4	122	
22E1012-02	1,2-Dichloroethane-d4	8.37	10.0	83.7	64.2	126	
8260 Low Level Volatiles							
22E1012-03	Toluene-d8	9.69	10.0	96.9	63.2	129	
22E1012-03	4-Bromofluorobenzene	9.53	10.0	95.3	71.4	122	
22E1012-03	1,2-Dichloroethane-d4	7.94	10.0	79.4	64.2	126	
8260 Low Level Volatiles							
22E1012-04	Toluene-d8	10.0	10.0	100	63.2	129	
22E1012-04	4-Bromofluorobenzene	10.2	10.0	102	71.4	122	
22E1012-04	1,2-Dichloroethane-d4	8.35	10.0	83.5	64.2	126	
8260 Low Level Volatiles							
22E1012-05	Toluene-d8	10.0	10.0	100	63.2	129	
22E1012-05	4-Bromofluorobenzene	10.0	10.0	100	71.4	122	
22E1012-05	1,2-Dichloroethane-d4	7.71	10.0	77.1	64.2	126	



June 14, 2022

Mr. Garrin Palmer
Energy Fuels Resources (USA), Inc.
6425 S. Highway 191
Blanding, Utah 84511

Re: Analytical for Seeps and Springs 2022
Work Order: 580063

Dear Mr. Palmer:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 16, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4289.

Sincerely,

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures



Energy Fuels Resources (USA), Inc.
Analytical for
SDG: 580063

**Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 580063**

June 14, 2022

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on May 16, 2022 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
580063001	Entrance Spring
580063002	Ruin Spring
580063003	Cottonwood Spring
580063004	Back Spring

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Radiochemistry.



Julie Robinson
Project Manager

SAMPLE RECEIPT & REVIEW FORM

S-R

Client: DNMI SDG/AR/COC/Work Order: 580063

Received By: TYE Date Received: 5/16/22

Carrier and Tracking Number
 FedEx Express FedEx Ground UPS Field Services Courier Other
12 187 444 12 9132 0503

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Preservation Method: Wet Ice Ice Packs Dry Ice <u>None</u> Other: _____ *all temperatures are recorded in Celsius TEMP: <u>16°C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Temperature Device Serial #: <u>1R2-20</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials JMX Date 5/17/22 Page 1 of 1

GEL Laboratories LLC – Login Review Report

Report Date: 14-JUN-22
 Work Order: 580063
 Page 1 of 2

GEL Work Order/SDG: 580063 **Seeps and Springs 2022**
Client SDG: 580063
Project Manager: Julie Robinson
Project Name: DNMI00106 Analytical for
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 14-JUN-22
Package Due Date: 14-JUN-22
EDD Due Date: 14-JUN-22
Due Date: 14-JUN-22
 JAR1

Collector: C
Prelogin #: 202205150319
Project Workdef ID: 1329132
SDG Status: Closed
Logged by:

GEL ID	Client Sample ID	Client Sample Desc.	Collect Date & Time	Receive Date & Time	Time Zone	# of Cont.	Lab Matrix	Fax Due Date	Days to Process	CofC #	Prelog Group	Lab QC	Field QC
580063001	Entrance Spring		10-MAY-22 08:20	16-MAY-22 09:15	-2	1	GROUND WATER		20		1		
580063002	Ruin Spring		10-MAY-22 08:55	16-MAY-22 09:15	-2	1	GROUND WATER		20		1		
580063003	Cottonwood Spring		10-MAY-22 09:45	16-MAY-22 09:15	-2	1	GROUND WATER		20		1		
580063004	Back Spring		10-MAY-22 08:55	16-MAY-22 09:15	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 Entrance Spring	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 Ruin Spring	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 Cottonwood Spring	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 Back Spring	REVV	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

Product: GFCTORAL **Workdef ID:** 1461303 **In Product Group?** No **Group Name:** **Group Reference:**
Method: EPA 903.0 **Path:** Drinking Water (903.0 or 9315)
Product Description: GFPC, Total Alpha Radium, Liquid **Product Reference:** Gross Alpha
Samples: 001, 002, 003, 004 **Moisture Correction:** "As Received"

Parmname Check: All parmnames scheduled properly

CAS #	Parmname	Client RDL or PQL & Unit	Reporting Units	Parm Function	Included in Sample?	Included in QC?	Custom List?
	Gross Radium Alpha	1	pCi/L	REG	Y	Y	No

Action	Product Name	Description	Samples
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Contingent Tests

GEL Laboratories LLC – Login Review Report

Report Date: 14-JUN-22

Work Order: 580063

Page 2 of 2

Login Requirements:

Requirement	Include?	Comments
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Peer Review by: _____ Work Order (SDG#), PO# Checked? _____ C of C signed in receiver location? _____

List of current GEL Certifications as of 14 June 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

**Radiochemistry
 Technical Case Narrative
 Energy Fuels Resources
 SDG #: 580063**

Product: GFPC, Total Alpha Radium, Liquid
Analytical Method: EPA 903.0
Analytical Procedure: GL-RAD-A-044 REV# 10
Analytical Batch: 2268525

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
580063001	Entrance Spring
580063002	Ruin Spring
580063003	Cottonwood Spring
580063004	Back Spring
1205096974	Method Blank (MB)
1205096975	578558001(NonSDG) Sample Duplicate (DUP)
1205096976	578558001(NonSDG) Matrix Spike (MS)
1205096977	578558001(NonSDG) Matrix Spike Duplicate (MSD)
1205096978	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Homogenous Matrix

Sample had light sandy sediment and a sulfur odor. 1205096975 (Non SDG 578558001DUP), 1205096976 (Non SDG 578558001MS) and 1205096977 (Non SDG 578558001MSD).

Quality Control (QC) Information

Matrix Spike (MS) Recovery

Matrix spike (See Below) recovery requirement not met due to the matrix of the sample.

Sample	Analyte	Value
1205096976 (Non SDG 578558001MS)	Gross Radium Alpha	51.3* (75%-125%)

Matrix Spike Duplicate (See Below) recovery requirement not met due to the matrix of the sample.

Sample	Analyte	Value
1205096977 (Non SDG 578558001MSD)	Gross Radium Alpha	58.8* (75%-125%)

Miscellaneous Information

Additional Comments

The matrix spike and matrix spike duplicate, 1205096976 (Non SDG 578558001MS) and 1205096977 (Non SDG 578558001MSD), aliquots were reduced to conserve sample volume.

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: 580063 GEL Work Order: 580063

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the CRDL.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Theresa Austin

Date: 14 JUN 2022

Title: Group Leader

GEL LABORATORIES LLC

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

QC Summary

Report Date: June 14, 2022

Page 1 of 1

Energy Fuels Resources (USA), Inc.
6425 S. Highway 191
Blanding, Utah

Contact: Mr. Garrin Palmer

Workorder: 580063

Sample Name	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
atch 2268525											
QC1205096975 578558001 DUP											
Gross Radium Alpha		2.05	U	0.952	pCi/L	73.3		(0% - 100%)	JXC9	05/24/22	13:00
	Uncertainty	+/-0.439		+/-0.287							
QC1205096978 LCS											
Gross Radium Alpha	522			407	pCi/L		78.1	(75%-125%)		05/24/22	13:00
	Uncertainty			+/-5.60							
QC1205096974 MB											
Gross Radium Alpha			U	-0.151	pCi/L					05/24/22	13:00
	Uncertainty			+/-0.0878							
QC1205096976 578558001 MS											
Gross Radium Alpha	2150	2.05		1100	pCi/L		51.3*	(75%-125%)		05/24/22	13:00
	Uncertainty	+/-0.439		+/-18.3							
QC1205096977 578558001 MSD											
Gross Radium Alpha	2070	2.05		1220	pCi/L	10.2	58.8*	(0%-20%)		05/24/22	13:00
	Uncertainty	+/-0.439		+/-19.1							

Notes:

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

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- F Estimated Value
- H Analytical holding time was exceeded
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M Matrix Related Failure

GEL LABORATORIES LLC

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

QC Summary

Workorder: 580063

Page 2 of

armname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N/A	RPD or %Recovery limits do not apply.										
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the CRDL.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where the 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 E

Quality Assurance and Data Validation Tables

Table E-1 Holding Time Evaluation

	Required Holding Time	Cottonwood Spring	Entrance Seep	Back Spring (duplicate of Ruin Spring)	Ruin Spring	West Water Seep
Carbonate	14 days	OK	OK	OK	OK	OK
Bicarbonate	14 days	OK	OK	OK	OK	OK
Calcium	6 months	OK	OK	OK	OK	OK
Chloride	28 days	OK	OK	OK	OK	OK
Fluoride	28 days	OK	OK	OK	OK	OK
Magnesium	6 months	OK	OK	OK	OK	OK
Nitrogen-Ammonia	28 days	OK	OK	OK	OK	OK
Nitrogen-Nitrate	28 days	OK	OK	OK	OK	OK
Potassium	6 months	OK	OK	OK	OK	OK
Sodium	6 months	OK	OK	OK	OK	OK
Sulfate	28 days	OK	OK	OK	OK	OK
pH (s.u.)	N/A	OK	OK	OK	OK	OK
TDS	7 days	OK	OK	OK	OK	OK
Metals	6 months (except mercury which is 28 days)	OK	OK	OK	OK	OK
Radiologics	6 months	OK	OK	OK	OK	OK
VOCS (including THF)	14 days	OK	OK	OK	OK	OK

* - Corral Spring, and Corral Canyon were all dry and no samples were collected.

E-2 Laboratory Receipt Temperature Check

Work Order Number/Lab Set ID	Receipt Temp
CTF - 22E1012	2.1°C
CTF - 22C2426	2.6°C
GEL - 575649	N/A
GEL - 580063	N/A

N/A = These shipments contained samples for the analysis of Gross Alpha only. Per Table 1 in the approved QAP, samples submitted for Gross Alpha analyses do not have a sample temperature requirement.

E-3: Analytical Method Check - Routine Samples

Parameter	QAP/Permit Method	Method Used by Lab
Ammonia (as N)	A4500-NH3 G or E350.1	A4500-NH3 H
Nitrate + Nitrite (as N)	E 353.1 or E353.2	E353.2
Metals	E 200.7 or E200.8	E200.7, E200.8
Mercury	E200.7 or E200.8 or E245.1	E245.1
Gross Alpha	E900.0 or E900.1 or E903.0	E903.0
VOCs	SW8260B or SW8260C or SW8260D	SW8260B/C, SW8260D
Chloride	A4500-Cl B, 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	A2540C	A2540C
Carbonate as CO ₃ , Bicarbonate as HCO ₃	A2320B	A2320B
Calcium, Magnesium, Potassium, Sodium	E200.7	E200.7

E-4 Reporting Limit Evaluation

Parameter	Permit-Specified RL
Ammonia (as N)	25 mg/L
Nitrate + Nitrite (as N)	10 mg/L
Metals ug/L	
Arsenic	50
Beryllium	4
Cadmium	5
Chromium	100
Cobalt	730
Copper	1300
Iron	11000
Lead	15
Manganese	800
Mercury	2
Molybdenum	40
Nickel	100
Selenium	50
Silver	100
Thallium	2
Tin	17000
Uranium	30
Vanadium	60
Zinc	5000
Gross Alpha	15
VOCs ug/L	
Acetone	700
Benzene	5
Carbon tetrachloride	5
Chloroform	70
Chloromethane	30
MEK	4000
Methylene Chloride	5
Naphthalene	100
Tetrahydrofuran	46
Toluene	1000
Xylenes	10000
Major Ions mg/L	
Chloride	1
Fluoride	4
Sulfate	1
TDS	10
Carbonate as CO ₃ , Bicarbonate as HCO ₃	Not Specified
Calcium, Magnesium, Potassium, Sodium	Not Specified

All analyses were reported to the required RLs unless noted in the text.

E-5: Trip Blank Evaluation

Blank	Sample Date	Analyte	Result (ug/L)
22C2426	3/28/2022	Acetone	ND
		Benzene	ND
		Carbon tetrachloride	ND
		Chloroform	ND
		Chloromethane	ND
		Methylene chloride	ND
		Methyl Ethyl Ketone	ND
		Naphthalene	ND
		Tetrahydrofuran	ND
		Toluene	ND
		Xylenes, Total	ND
22E1012	5/11/2022	Acetone	ND
		Benzene	ND
		Carbon tetrachloride	ND
		Chloroform	ND
		Chloromethane	ND
		Methylene chloride	ND
		Methyl Ethyl Ketone	ND
		Naphthalene	ND
		Tetrahydrofuran	ND
		Toluene	ND
		Xylenes, Total	ND

E-6 Duplicate Sample Relative Percent Difference

Major Ions (mg/l)	Ruin Spring	Back Spring (Duplicate of Ruin Spring)	RPD %
Carbonate	<1.0	<1.0	N/C
Bicarbonate	185	184	0.5
Calcium	141	141	0.0
Chloride	28.4	28.5	0.4
Fluoride	0.5	0.5	0.0
Magnesium	32.9	32.9	0.0
Nitrogen-Ammonia	0.2	<0.2	N/C
Nitrogen-Nitrate	1.2	1.2	0.0
Potassium	3.2	3.2	0.0
Sodium	117	117	0.0
Sulfate	595	565	5.2
TDS	992	1030	3.8
Metals (ug/l)			
Arsenic	<0.5	<0.5	N/C
Beryllium	<0.5	<0.5	N/C
Cadmium	<0.2	<0.2	N/C
Chromium	4.2	4.3	2.4
Cobalt	<0.5	<0.5	N/C
Copper	<1.0	<1.0	N/C
Iron	<20	<20	N/C
Lead	<0.5	<0.5	N/C
Manganese	<0.5	<0.5	N/C
Mercury	<0.2	<0.2	N/C
Molybdenum	17.7	17.7	0.0
Nickel	0.6	0.5	18.2
Selenium	11.7	11.7	0.0
Silver	<0.5	<0.5	N/C
Thallium	<0.2	<0.2	N/C
Tin	<20	<20	N/C
Uranium	9.1	9.0	1.1
Vanadium	1.3	1.4	7.4
Zinc	<10	<10	N/C
Radiologics (pCi/l)			
Gross Alpha	<1.00	<1.00	N/C
VOCS (ug/L)			
Acetone	<10	<10	N/C
Benzene	<1.0	<1.0	N/C
Carbon tetrachloride	<1.0	<1.0	N/C
Chloroform	<1.0	<1.0	N/C
Chloromethane	<1.0	<1.0	N/C
MEK	<10	<10	N/C
Methylene Chloride	<2.0	<2.0	N/C

E-6 Duplicate Sample Relative Percent Difference

Major Ions (mg/l)	Ruin Spring	Back Spring (Duplicate of Ruin Spring)	RPD %
Naphthalene	<1.0	<1.0	N/C
Tetrahydrofuran	<1.0	<1.0	N/C
Toluene	<1.0	<1.0	N/C
Xylenes	<1.0	<1.0	N/C

N/C = Not Calculated

E-7 Radiologics Counting Error

Sample ID	Gross Alpha minus Rn & U	Gross Alpha minus Rn & U Precision (\pm)	Counting Error \leq 20%	GWQS	Within GWQS?
Cottonwood Spring	<1.0	0.212	N/A	15	N/A
Entrance Seep	<1.0	0.275	N/A	15	N/A
Back Spring (duplicate of Cottonwodd Spring)	<1.0	0.198	N/A	15	N/A
Ruin Spring	<1.0	0.178	N/A	15	N/A
Westwater Seep	<1.0	0.109	N/A	15	N/A

N/A - The sample results are non-detect and the QAP required checks are not applicable.

E-8: Laboratory Matrix QC

Matrix Spike % Recovery Comparison

Lab Report	Well	Analyte	MS %REC	MSD %REC	REC Range	RPD	RPD LIMIT
22E1012	NA	Chloride*	66.8	97.3	80-120	4.86	20
22E1012	Entrance Spring	Calcium*	NC	NC	70-130	NC	20
		Manganese*	NC	**	70-130	**	**
		Zinc	157	**	70-130	**	**
		Acetone	64.7	68.1	70-130	5.14	20
		Chloroform	53.9	57.5	70-130	6.46	20
		Chloromethane	38.3	39.9	70-130	4.09	20
		Methylene Chloride	55.7	59.9	70-130	7.27	20
		Naphthalene	63.7	72.3	70-130	12.6	20
22C2426	Westwater Spring	Fluoride	142	143	80-120	0.391	20
580063	NA	Gross Alpha	51.3	58.8	75-125	10.2	20

* Recovery was not calculated as the analyte level in the sample was greater than 4 times the spike amount

** CTF routine QC does not include a MDS for metals analyzed by 200.8. Precision is determined by other QC samples as allowable by the analytical method.

NA = QC was not performed on an EFRI sample.

Laboratory Duplicate % Recovery Comparison

All Laboratory Duplicate Recoveries were within the laboratory established acceptance limits.

Laboratory Control Sample

Lab Report	Analyte	LCS %REC	REC Range
22C2426	Chloromethane	76.7	80-120
	TDS	80	90-110

Surrogate % Recovery

All surrogate recoveries were within the laboratory established acceptance limits.

Method/Laboratory Reagent Blank detections

All method blank results were within the laboratory established acceptance limits.

Tab F
CSV Transmittal

Kathy Weinel

From: Kathy Weinel
Sent: Monday, February 20, 2023 12:21 PM
To: Phillip Goble
Cc: 'Dean Henderson'; David Frydenlund; Garrin Palmer; Logan Shumway; Scott Bakken; Jordan Christine App; John Uhrie PE PhD
Subject: Transmittal of CSV Files White Mesa Mill 2022 Annual Seeps and Springs Monitoring
Attachments: 22C2426 FINAL EnergyFuels-Client 18 Apr 22 1600.csv; 22E1012 FINAL EnergyFuels-Client 03 Jun 22 1037.csv; 575649.csv; 580063.csv

Dear Mr. Goble,

Attached to this e-mail are the electronic copies of laboratory results for the annual seeps and springs monitoring conducted at the White Mesa Mill during 2022, 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



Kathy Weinel
Director, Regulatory Compliance

t:303.389.4134 | c: | f:303.389.4125
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