Energy Fuels Resources (USA) Inc.
225 Union Blvd. Suite 600
Lakewood, CO, US, 80228
303 974 2140
www.energyfuels.com

DRC-2022-002158

VIA Expedited Delivery

February 7, 2022

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 2021 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,

Kathy Weinel

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

CC: David Frydenlund
Scott Bakken
Logan Shumway
Garrin Palmer

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White Mesa Uranium Mill

2021 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 7, 2022

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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 2021 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 May 2021 Sampling

In accordance with the Permit and the Sampling Plan, DWMRC was notified of the annual sampling event. The DWMRC representative was present for this sampling event. On May 4, 2021, EFRI collected seeps and springs samples from Cottonwood Seep, Ruin Spring, Entrance Seep, Westwater Seep and Back Spring (duplicate of Cottonwood Seep). The DWMRC representative collected a "split" sample on May 4, 2021 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 2021. The visits were conducted in March, May, August and November 2021. 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 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 this sampling event included one duplicate per sampling event and one trip blank per shipment 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 American West Analytical Laboratory ("AWAL").

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 QA Manager 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 QA Manager 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 QA Manager 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 QA Manager 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.

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.

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 Stated 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 QA Manager rechecks QC samples and blanks (items (5) and (6)) to confirm that the percent recovery for spikes and the relative percent difference for spike duplicates are within the method-specific required limits, or that the case narrative sufficiently explains any deviation from these limits. Results of this quantitative check are provided under Tab E. The lab QA/QC results from both GEL and AWAL 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 QA Manager.

The QAP Section 8.1.2 requires that a MS/MSD pair be analyzed with each analytical batch. The QAP does not specify acceptance limits for the MS/MSD pair, and the QAP does not specify that the MS/MSD pair be prepared on EFRI samples only. Acceptance limits for MS/MSDs are set by the laboratories. The review of the information provided by the laboratories in the data packages verified that the 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 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 May sampling event shows 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 molybdenum, selenium and uranium having positive detections. A comparison of the 2009 through 2020 data to the 2021 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 reported values for bicarbonate, chloride, sulfate and selenium increased slightly from the 2020 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 only uranium having a positive detection. A comparison of the 2009 through 2020 data to the 2021 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 reported values for uranium, bicarbonate, fluoride, TDS, sulfate, and potassium, increased from the 2020 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 radiologics or VOCs were detected. Metals and major ions were detected. The metals detections were minimal with only iron, manganese, and uranium having positive detections. A comparison of the historic data to the 2021 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 reported values for fluoride, iron, and manganese increased from the 2020 sample resultsand 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 uranium, manganese and selenium having positive detections. A comparison of the 2009 through 2020 data to the 2021 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 reported values for uranium, sulfate, bicarbonate, chloride and magnesium increased from the 2020 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. While the uranium value did exceed 30 ug/L, the differences are not significant and are most likely due to normal fluctuations due to flow rates or seasonal variations due to annual precipitation. In addition, the uranium value is only slightly above 30 ug/L and is within the analytical variation of the analytical method. 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 2021 annual sampling event.

6.1 Assessment of Corrective Actions from Previous Period

No corrective action reports were required for the 2020 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 Bakken Digitally signed by Scott Bakken
Date: 2022.02.07 07:32:45 -07'00'

Scott A. Bakken
Vice President, Regulatory Affairs

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 Bakken Digitally signed by Scott Bakken
Date: 2022.02.07 07:33:14 -07'00'

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	5/4/2021	AWAL = 2105163 GEL = 543955	AWAL = 5/20/2021 GEL = 6/07/2021
Entrance Seep	5/4/2021	AWAL = 2105163 GEL = 543955	AWAL = 5/20/2021 GEL = 6/07/2021
Back Spring (Duplicate of Cottonwood Spring)	5/4/2021	AWAL = 2105163 GEL = 543955	AWAL = 5/20/2021 GEL = 6/07/2021
Ruin Spring	5/4/2021	AWAL = 2105163 GEL = 543955	AWAL = 5/20/2021 GEL = 6/07/2021
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	5/4/2021	AWAL = 2105163 GEL = 543955	AWAL = 5/20/2021 GEL = 6/07/2021

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**	**Range of Average Historic Values for Monitoring Wells [1] ***	**Avg 2003-2004[2]**
Major Ions (mg/l)																
Carbonate	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--
Bicarbonate	233	254	241	239	237	208	204	200	193	208	202	202	186	200	--	--
Calcium	151	136	145	148	147	149	150	162	138	145	158	165	169	154	--	--
Chloride	28	23	25	44	28	26.3	27.1	27.4	24.4	27.4	29.9	23.9	25.8	28.1	ND - 213	27
Fluoride	0.5	0.53	0.45	0.5	0.52	0.538	<1	0.445	0.541	0.5	0.414	0.505	0.473	0.468	ND - 1.3	0.6
Magnesium	32.3	29.7	30.6	31.1	31.9	32.1	35.4	31.8	31.1	30.2	33.9	45.6	36.9	34.8	--	--
Nitrogen-Ammonia	0.09	<0.05	ND	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	--
Nitrogen-Nitrate	1.4	1.7	1.7	1.6	1.6	1.56	1.54	1.31	1.64	1.55	1.35	1.56	1.39	1.26	--	--
Potassium	3.3	3.07	3.2	3.3	3.5	3.46	3.24	3.14	3.18	3.07	3.58	3.31	4.09	3.83	--	--
Sodium	104	93.4	110	111	115	118	119	126	105	113	128	128	139	119	--	--
Sulfate	528	447	486	484	464	553	553	528	490	476	547	474	469	557	ND - 3455	521
TDS	1010	903	942	905	1000	952	984	1000	916	972	1000	900	1240	1080	1019 - 5548	1053
Metals (ug/l)																
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	--
Beryllium	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Cadmium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND - 4.78	0.01
Chromium	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	--	--
Cobalt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Copper	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Iron	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	ND - 7942	25
Lead	<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	--	--
Manganese	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ND - 34,550	5
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Molybdenum	17	17	16	17	16	16.1	16.0	18.3	17.8	17.2	18	20.2	18.7	18.7	--	--
Nickel	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	ND - 61	0.05
Selenium	12.2	10	11.8	10.2	10.8	10.2	12	10	10	10.5	12.2	10.8	10.5	11.2	ND - 106.5	12.1
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Thallium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Tin	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	--	--
Uranium	9.11	8.47	9.35	8.63	8.68	9.12	9.61	9.03	8.38	8.49	9.35	9.02	9.32	9.31	ND - 59.8	10
Vanadium	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	--	--
Zinc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--

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**	**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	ND - 36	0.28
VOCS (ug/L)																
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
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	--	--
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	--	--
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	--	--
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	--	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
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	--	--
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	--	--
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	--	--
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	--	--
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] 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 Couinty, 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**	**Range of Average Historic Values for Monitoring Wells[1]***	**Avg 1977 1982 [1]**
Major Ions (mg/l)																
Carbonate	<1	<1	<1	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--
Bicarbonate	316	340	330	316	326	280	251	271	256	280	283	286	280	298	--	--
Calcium	90.3	92.2	95.4	94.2	101	87.9	99.7	111	102	99.6	109	122	120	108	--	--
Chloride	124	112	113	134	149	118	128	133	138	129	153	138	146	143	ND - 213	31
Fluoride	0.4	0.38	0.34	0.38	0.38	0.417	<1	0.318	0.466	0.344	0.282	0.249	0.233	0.317	ND - 1.3	0.8
Magnesium	25	24.8	25.2	25.2	27.7	23.6	29.0	27.5	29.5	27.1	30.2	35.3	32.9	31.3	--	--
Nitrogen-Ammonia	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.0512	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	--
Nitrogen-Nitrate	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.124	0.108	<0.1	<0.1	<0.1	--	--
Potassium	5.7	5.77	6	5.9	6.2	5.53	6.18	5.91	6.11	5.72	6.35	6.78	7.14	7.40	--	--
Sodium	205	214	229	227	247	217	227	251	221	213	234	268	273	223	--	--
Sulfate	383	389	394	389	256	403	417	442	443	409	428	423	417	443	ND - 3455	230
TDS	1010	900	1030	978	1040	996	968	1020	1070	1080	1080	1010	860	1110	1019 - 5548	811
Metals (ug/l)																
Arsenic	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	--
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Cadmium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND - 4.78	--
Chromium	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	--	--
Cobalt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Copper	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Iron	<30	<30	53	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	ND - 7942	150
Lead	<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	--	--
Manganese	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	ND - 34,550	580
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Molybdenum	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Nickel	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	ND - 61	--
Selenium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5	<5	<5	<5	<5	<5	ND - 106.5	--
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--
Thallium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--
Tin	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	--	--
Uranium	8.42	8.24	7.87	8.68	8.17	8.95	9.62	9.12	8.84	9.17	10.3	10.1	10.5	10.6	ND - 59.8	--
Vanadium	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	--	--
Zinc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--	--

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**	**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	ND - 36	7.2
VOCS (ug/L)																
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
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	--	--
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	--	--
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	--	--
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	--	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	--	--
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	--	--
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	--	--
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	--	--
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	--	--
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] 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**	**Range of Average Historic Values for Monitoring Wells[1] ***
Major Ions (mg/l)																
Carbonate	<1	<1	<1	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<1	<1	<1	<1	<1	<1	<1	<1	--
Bicarbonate	465	450	371					359	399	369	444	450	270	450	320	--
Calcium	191	179	247					150	176	125	204	185	118	204	125	--
Chloride	41	40	21					32.6	38.0	27.5	36.2	41.6	26.6	40.6	29.2	ND - 213
Fluoride	0.7	0.6	0.54					0.424	0.618	0.574	0.659	0.505	0.555	0.429	0.473	ND - 1.3
Magnesium	45.9	44.7	34.7					34	47.3	31.7	56.6	43.7	30.8	54.6	30.9	--
Nitrogen-Ammonia	<0.05	0.5	0.06					0.123	<0.05	<0.05	0.0832	<0.05	0.0593	<0.05	<0.05	--
Nitrogen-Nitrate	0.8	<0.1	<0.1					<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--
Potassium	1.19	6.57	3.9					1.98	2.32	2.33	2.94	3.99	1.76	5.28	1.78	--
Sodium	196	160	112					139	185	133	218	152	117	245	111	--
Sulfate	646	607	354					392	573	318	580	436	307	460	340	ND - 3455
TDS	1370	1270	853					896	1060	820	1220	1110	1200	1480	876	1019 - 5548
Metals (ug/l)																
Arsenic	<5	<5	12.3	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	Not Sampled Dry	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--
Beryllium	<0.5	<0.5	0.91					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Cadmium	<0.5	<0.5	0.9					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND - 4.78
Chromium	<25	<25	<25					<25	<25	<25	<25	<25	<25	<25	<25	--
Cobalt	<10	<10	<10					<10	<10	<10	<10	<10	<10	<10	<10	--
Copper	<10	<10	16					<10	<10	<10	<10	<10	<10	<10	<10	--
Iron	89	56	4540					<30	40.1	181	575	1200	401	<30	948	ND - 7942
Lead	<1.0	<1.0	41.4					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Manganese	37	87	268					171	55.5	144	312	528	369	35.4	432	ND - 34,550
Mercury	<0.5	<0.5	<0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Molybdenum	29	29	<10					<10	<10	<10	<10	<10	<10	<10	<10	--
Nickel	<20	<20	29					<20	<20	<20	<20	<20	<20	<20	<20	ND - 61
Selenium	<5.0	<5.0	<5.0					<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND - 106.5
Silver	<10	<10	<10					<10	<10	<10	<10	<10	<10	<10	<10	--
Thallium	<0.5	<0.5	<0.5					<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Tin	<100	<100	<100					<100	<100	<100	<100	<100	<100	<100	<100	--
Uranium	15.1	46.6	6.64					2.1	19.0	5.17	13.2	4.92	2.34	12.90	2.07	ND - 59.8
Vanadium	<15	<15	34					<15	<15	<15	<15	<15	<15	<15	<15	--
Zinc	<10	<10	28					<10	<10	<10	<10	<10	<10	<10	<10	--

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**	**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	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	--
Benzene	<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	--
Chloroform	<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	--
MEK	<20	<20	<20					<20	<20	<20	<20	<20	<20	<20	<20	--
Methylene Chloride	<1.0	<1.0	<1.0					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	--
Naphthalene	<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	--
Toluene	<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] 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**	**Range of Average Historic Values for Monitoring Wells[1] ***
Major Ions (mg/l)															
Carbonate	<1	<1	<1	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--
Bicarbonate	292	332	270	299	298	292	247	324	340	402	236	480	242	260	--
Calcium	90.8	96.5	88.8	96.6	105	121	103	131	131	129	116	155	144	138	--
Chloride	60	63	49	64	78	139	76.8	75.6	75	84.6	75.9	104	76.7	90.3	ND - 213
Fluoride	0.7	0.73	0.58	0.58	0.64	0.71	<1	0.606	0.668	0.615	0.454	0.912	0.638	0.625	ND - 1.3
Magnesium	26.6	28.9	26.4	28.4	32.7	43	34.9	33.3	38.6	36.4	42.4	48.0	45.1	47.7	--
Nitrogen-Ammonia	0.28	<0.05	<0.05	0.32	<0.05	<0.05	<0.05	0.202	0.0962	0.247	0.102	0.168	<0.05	<0.05	--
Nitrogen-Nitrate	1.4	1	1.4	0.5	2.8	2.06	3.65	<0.1	0.403	<1	2.34	<1	2.46	1.55	--
Potassium	2.4	2.74	2.6	2.9	2	3.83	1.56	1.62	<1.0	3.88	3.64	4.66	4.31	4.04	--
Sodium	61.4	62.7	62.5	68.6	77.4	127	78.9	93.1	90.8	90.3	96	126	108	98.3	--
Sulfate	178	179	166	171	171	394	219	210	245	187	243	160	317	362	ND - 3455
TDS	605	661	571	582	660	828	688	680	828	752	820	892	964	888	1019 - 5548
Metals (ug/l)															
Arsenic	<5	<5	<5	<5	<5	<5	<5	5.02	<5	9.16	<5	8.94	<5	<5	--
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Cadmium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND - 4.78
Chromium	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	--
Cobalt	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Copper	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Iron	<30	<30	37	55	34	162	37.2	295	94.4	371	<30	453	<30	<30	ND - 7942
Lead	<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	--
Manganese	54	11	47	84	<10	259	16.1	367	210	913	405	587	56.3	27.2	ND - 34,550
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Molybdenum	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	14.30	<10	<10	--
Nickel	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	ND - 61
Selenium	12.1	9.2	13.1	5.5	13.2	11.2	15.9	<5	<5	<5	15.3	<5	15	13.6	ND - 106.5
Silver	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--
Thallium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Tin	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	--
Uranium	15.2	17.8	18.8	15.3	21.1	38.8	23.2	36	22.0	14.6	27.6	70.1	24.7	36.1	ND - 59.8
Vanadium	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	--
Zinc	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	--

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**	**Range of Average Historic Values for Monitoring Wells[1] ***
Radiologics (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	ND - 36
VOCS (ug/L)															
Acetone	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	--
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	--
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	--
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	--
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	--
MEK	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	--
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	--
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	--
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	--
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	--
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] 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)

Tab A

Seeps and Springs Field Data Sheets and Photographic Documentation

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Entrance spring

Date For Initial Sampling Visit: 5/4/2021 **Time:** 0800

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 Holliday, Deen Lyman, Dean Henderson (DWMRC)

Weather Conditions at Time of Sampling: Partly Cloudy

Estimated Seep or Spring Flow Rate: 0.05 GPM

Field Parameter Measurements:

-pH 7.05
-Temperature (°C) 12.39
-Conductivity µMHOC/cm 1300
-Turbidity (NTU) (if measured) 11.0
-Redox Potential Eh (mV) (if measured) 455
- LDO 93.0

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Metals	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank
☐ Duplicate
Duplicate Sample Name: _____

Notes: Arrived on site at 0750 Samples collected at 0800. Left site at 0815


05/04/2021 07:05

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Ruin Spring

Date For Initial Sampling Visit: 5/4/2021 **Time:** 0840

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 Holliday, Deen Lyman, Dean Henderson (DWMRC)

Weather Conditions at Time of Sampling: Partly Cloudy

Estimated Seep or Spring Flow Rate: 1.00 GPM

Field Parameter Measurements:

-pH 7.23

-Temperature (°C) 12.71

-Conductivity µMHOC/cm 1406

-Turbidity (NTU) (if measured) 0

-Redox Potential Eh (mV) (if measured) 437

- 100 94.1

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☑ Yes	☐ No	☐ Yes	☑ No	☑	☐	☐	☐
Metals	☑ Yes	☐ No	☑ Yes	☐ No	☐	☑	☐	☐
Nutrients	☑ Yes	☐ No	☐ Yes	☑ No	☑	☐	☐	☐
Other Non Radiologics	☑ Yes	☐ No	☐ Yes	☑ No	☑	☐	☐	☐
Gross Alpha	☑ Yes	☐ No	☑ Yes	☐ No	☐	☑	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank

☐ Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 0833 Samples collected at 0840 Left site at 0905


05/04/2021 08:10

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Cottonwood seep

Date For Initial Sampling Visit: 5/4/2021 **Time:** 0940

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 Holliday, Deen Lyman, Dean Henderson (DWMRC)

Weather Conditions at Time of Sampling: Partly Cloudy

Estimated Seep or Spring Flow Rate: 0.20 GPM

Field Parameter Measurements:

-pH 6.99
-Temperature (°C) 14.60
-Conductivity µMHOC/cm 1737
-Turbidity (NTU) (if measured) 0
-Redox Potential Eh (mV) (if measured) 374
- LDO 28.0

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Metals	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank
☐ Duplicate
Duplicate Sample Name: _____

Notes: Arrived on site at 0930 Samples collected at 0940
Left site at 0950


05/04/2021 08:37

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Back spring

Date For Initial Sampling Visit: 5/4/2021 **Time:** 0940

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 Holliday, Deen Lyman, Dean Henderson (DWMRC)

Weather Conditions at Time of Sampling: Partly Cloudy

Estimated Seep or Spring Flow Rate: _____

Field Parameter Measurements:

-pH 6.99

-Temperature (°C) 14.60

-Conductivity µMHOC/cm 1737

-Turbidity (NTU) (if measured) 0

-Redox Potential Eh (mV) (if measured) 374

- LDO 28.0

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Metals	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank

☐ Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 0930 Samples collected at 0940
Left site at 0950. Duplicate of Cottonwood Seep

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Westwater seep

Date For Initial Sampling Visit: 5/4/2021 **Time:** 1015

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 Holliday, Deen Lyman, Dean Henderson (DWMRC)

Weather Conditions at Time of Sampling: Partly Cloudy

Estimated Seep or Spring Flow Rate: 0.05 GPM

Field Parameter Measurements:

-pH 7.37

-Temperature (°C) 12.12

-Conductivity µMHOC/cm 1237

-Turbidity (NTU) (if measured) 75.0

-Redox Potential Eh (mV) (if measured) 122

-LOO 23.9

Analytical Parameters/Sample Collection Method:

Parameter	Sample Taken		Filtered		Sampling Method			
					Direct	Peristaltic Pump	Ladle	Other (describe in notes section)
VOCs	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Metals	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐
Nutrients	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Other Non Radiologics	☒ Yes	☐ No	☐ Yes	☒ No	☐	☒	☐	☐
Gross Alpha	☒ Yes	☐ No	☒ Yes	☐ No	☐	☒	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank

☐ Duplicate

Duplicate Sample Name: _____

Notes: Arrived on site at 1003 Samples collected at 1015 Left site at 1025.


05/04/2021 09:13

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Corral spring

Date For Initial Sampling Visit: 3/10/2021 **Time:** 1240

Sample Collected: ☐ Yes ☒ No

Date For Second Sampling Visit: 5/4/2021 **Time:** +130 1147

Sample Collected: ☐ Yes ☒ No

Date For Third Sampling Visit: 8/25/2021 **Time:** 1224

Sample Collected: ☐ Yes ☒ No

Date For Fourth Sampling Visit: 11/12/2021 **Time:** 1346

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	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Metals	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Nutrients	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Other Non Radiologics	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Gross Alpha	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank
☐ Duplicate
Duplicate Sample Name: _____

Notes: 3/10/2021 - spring was dry.
5/4/2021 - spring was dry.
8/25/2021 - spring was dry.
11/12/2021 - spring was dry.


03/10/2021


05/04/2021 11:47


08/25/2021 12:24


11/12/2021 13:46

Field Data Record-Seeps and Springs Sampling

Seep or Spring Location: Coral canyon spring

Date For Initial Sampling Visit: 3/10/2021 **Time:** 1215

Sample Collected: ☐ Yes ☒ No

Date For Second Sampling Visit: 5/4/2021 **Time:** 1130

Sample Collected: ☐ Yes ☒ No

Date For Third Sampling Visit: 8/25/2021 **Time:** 1207

Sample Collected: ☐ Yes ☒ No

Date For Fourth Sampling Visit: 11/12/2021 **Time:** 1408

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	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Metals	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Nutrients	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Other Non Radiologics	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐
Gross Alpha	☐ Yes	☐ No	☐ Yes	☐ No	☐	☐	☐	☐

QC Samples Associated with this Location:

☐ Rinsate Blank
☐ Duplicate
Duplicate Sample Name: _____

Notes: 3/10/2021 - spring was dry.
5/4/2021 - spring was dry.
8/25/2021 - spring was dry.
11/12/2021 - spring was dry.


03/10/2021

05/04/2021 11:30


08/25/2021 12:07


11/12/2021 14:08

Tab B

Field Parameter Measurement Data

Field parameters

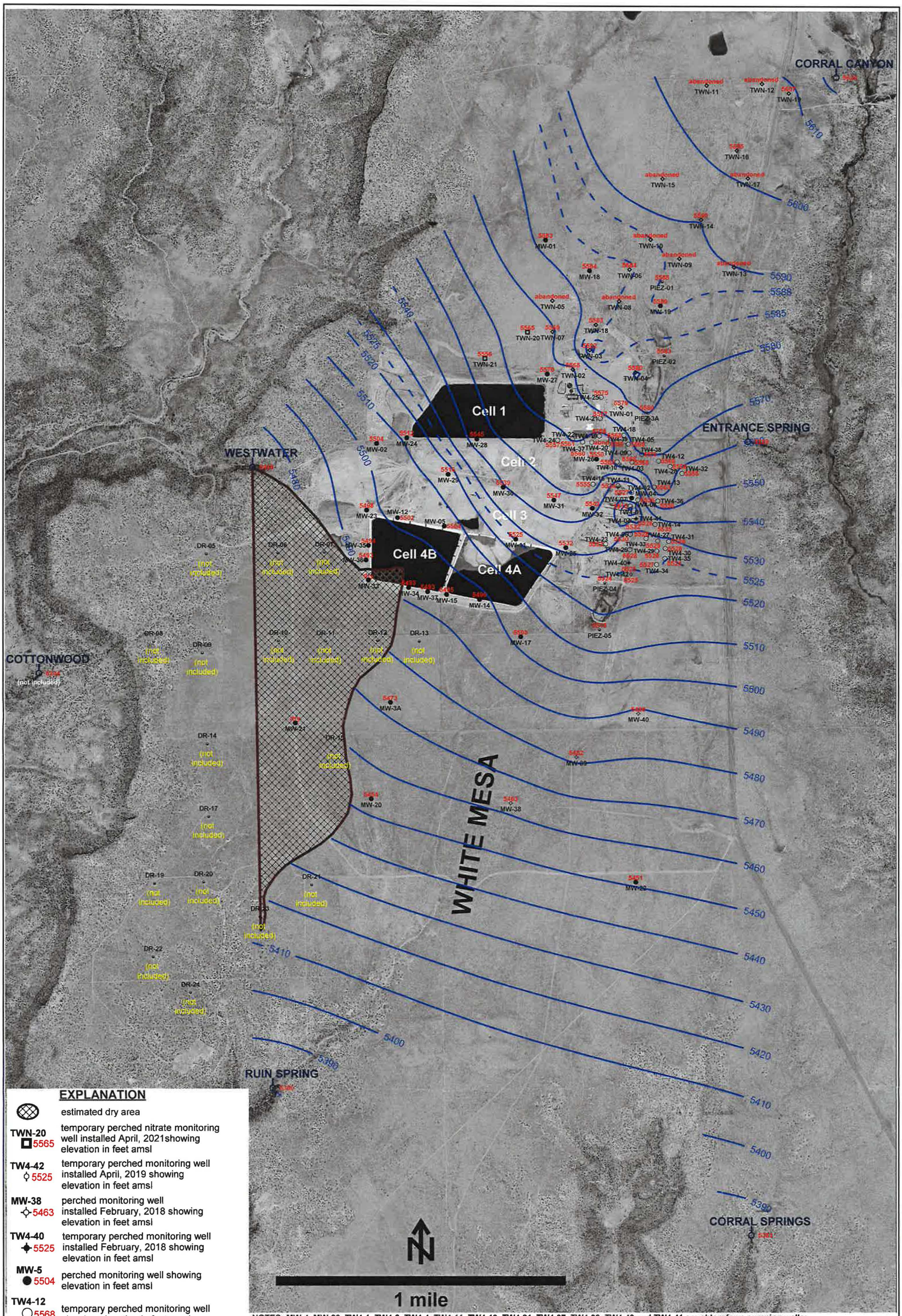
Location	Date Sampled	pH	Conductivity	Turbidity	Redox	Temperature	DO
Cottonwood Spring	5/4/2021	6.99	1737	0	374	14.60	28.0
Entrance Seep	5/4/2021	7.05	1300	11.0	455	12.39	93.0
Back Spring (Duplicate of Cottonwood Spring)	5/4/2021	6.99	1737	0	374	14.60	28.0
Ruin Spring	5/4/2021	7.23	1406	0	437	12.71	94.1
Westwater Seep	5/4/2021	7.37	1237	75.0	122	12.12	23.9

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

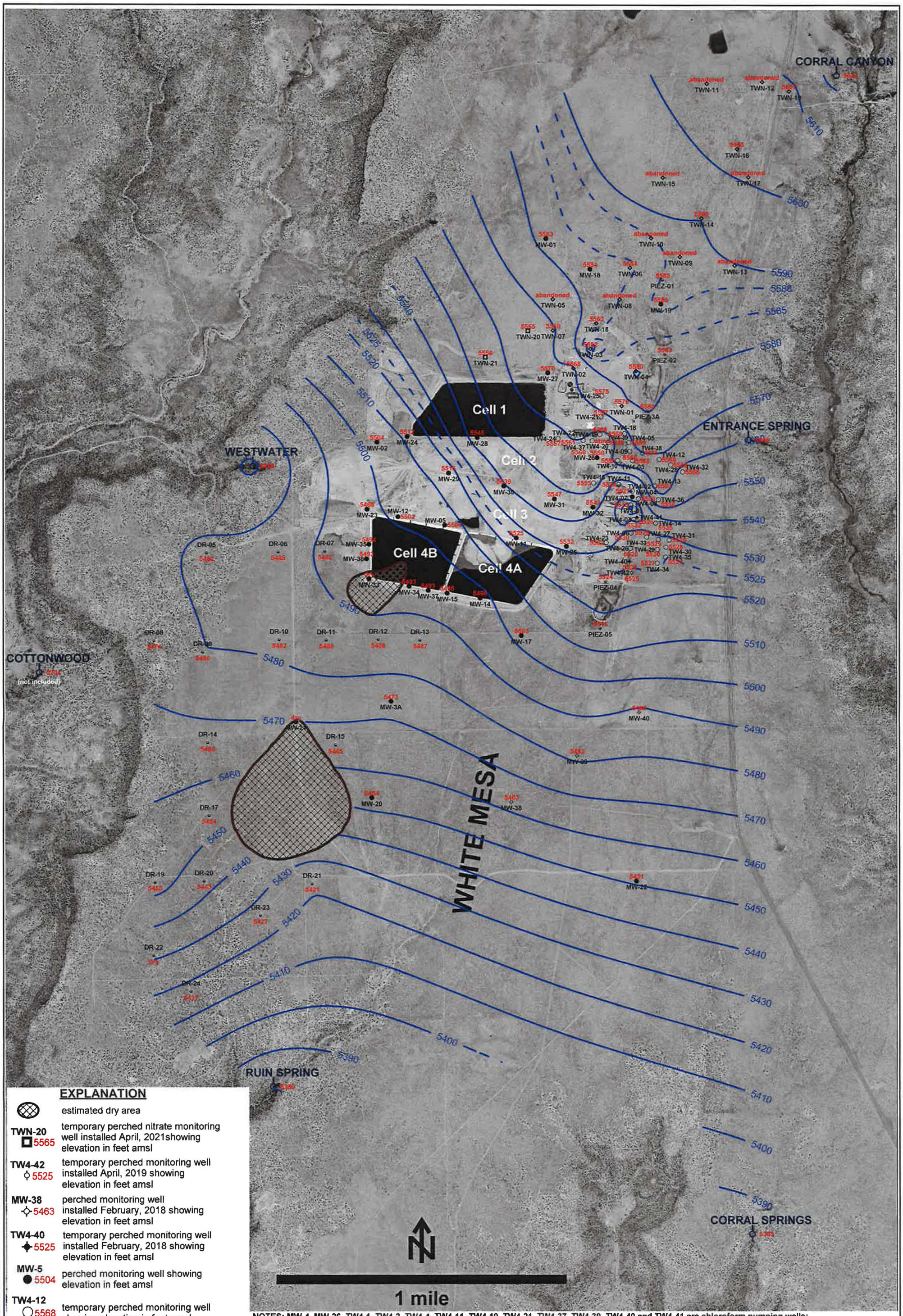
- estimated dry area
- **TWN-20** 5565 — temporary perched nitrate monitoring well installed April, 2021showing elevation in feet amsl
- **TW4-42** 5525 — temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
- **MW-38** 5463 — perched monitoring well installed February, 2018 showing elevation in feet amsl
- **TW4-40** 5525 — temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- **MW-5** 5504 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5568 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5569 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5588 — perched piezometer showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, 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, 2021 WATER LEVELS (DR-series piezometer water levels not included) WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov21/seeps_springs/Uwl0921nodr.srf	C-1



EXPLANATION

- estimated dry area
- **TWN-20** 5565 — temporary perched nitrate monitoring well installed April, 2021showing elevation in feet amsl
- **TW4-42** 5525 — temporary perched monitoring well installed April, 2019 showing elevation in feet amsl
- **MW-38** 5463 — perched monitoring well installed February, 2018 showing elevation in feet amsl
- **TW4-40** 5525 — temporary perched monitoring well installed February, 2018 showing elevation in feet amsl
- **MW-5** 5504 — perched monitoring well showing elevation in feet amsl
- **TW4-12** 5568 — temporary perched monitoring well showing elevation in feet amsl
- **TWN-7** 5569 — temporary perched nitrate monitoring well showing elevation in feet amsl
- **PIEZ-1** 5588 — perched piezometer showing elevation in feet amsl
- **RUIN SPRING** 5380 — seep or spring showing elevation in feet amsl

NOTES: MW-4, MW-26, TW4-1, TW4-2, TW4-4, TW4-11, TW4-19, TW4-21, 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, 2021 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/nov21/seeps_springs/Uwl0921dr.srf	C-2

Tab D

Analytical Laboratory Data

American West
ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119

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

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-002
Client Sample ID: Ruin Spring
Collection Date: 5/4/2021 840h
Received Date: 5/6/2021 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/7/2021 847h	5/14/2021 1128h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/7/2021 847h	5/17/2021 1622h	E200.7	2.00	**154**	2
Chromium	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/7/2021 847h	5/14/2021 1128h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/7/2021 847h	5/17/2021 1852h	E200.7	0.100	**34.8**	
Manganese	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/10/2021 1628h	5/11/2021 1517h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0100	**0.0187**	
Nickel	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/7/2021 847h	5/17/2021 1852h	E200.7	1.00	**3.83**	
Selenium	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.00500	**0.0112**	
Silver	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/7/2021 847h	5/17/2021 1622h	E200.7	2.00	**119**	
Thallium	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.000500	**0.00931**	
Vanadium	mg/L	5/7/2021 847h	5/17/2021 1852h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/7/2021 847h	5/11/2021 1244h	E200.8	0.0100	< 0.0100	

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-002
Client Sample ID: Ruin Spring
Collection Date: 5/4/2021 840h
Received Date: 5/6/2021 1500h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/11/2021 1324h	5/12/2021 1331h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	**200**	
Carbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/14/2021 1026h	E300.0	5.00	**28.1**	
Fluoride	mg/L		5/14/2021 2342h	E300.0	0.200	**0.468**	
Ion Balance	%		5/18/2021 1749h	Calc.	-100	**-1.75**	
Nitrate/Nitrite (as N)	mg/L		5/10/2021 1328h	E353.2	0.100	**1.26**	
Sulfate	mg/L		5/14/2021 1026h	E300.0	25.0	**557**	
Total Anions, Measured	meq/L		5/18/2021 1749h	Calc.		**16.4**	
Total Cations, Measured	meq/L		5/18/2021 1749h	Calc.		**15.8**	
Total Dissolved Solids	mg/L		5/7/2021 1450h	SM2540C	20.0	**1,080**	
Total Dissolved Solids Ratio, Measured/Calculated			5/18/2021 1749h	Calc.		**1.06**	
Total Dissolved Solids, Calculated	mg/L		5/18/2021 1749h	Calc.		**1,020**	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
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e-mail: awal@awal-labs.com
web: www.awal-labs.com
Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-002A
Client Sample ID: Ruin Spring
Collection Date: 5/4/2021 840h
Received Date: 5/6/2021 1500h
Test Code: 8260D-W-DEN100

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

Analyzed: 5/7/2021 752h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.5	50.00	105	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	48.7	50.00	97.5	85-121	
Surr: Dibromofluoromethane	1868-53-7	49.8	50.00	99.5	78-132	
Surr: Toluene-d8	2037-26-5	48.5	50.00	97.0	81-123	

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Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

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

Certificate of Analysis

Report Date: May 27, 2021

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

Blanding, Utah 84511
Contact: Mr. Garrin Palmer
Project: Analytical forSeeps and Springs 2021

Client Sample ID: Ruin Spring
Sample ID: 543955002
Matrix: Ground Water
Collect Date: 04-MAY-21 08:40
Receive Date: 10-MAY-21
Collector: Client

Project: DNMI00106
Client ID: DNMI001

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	0.250	+/-0.256	0.902	1.00	pCi/L			JXC9	05/26/21	1258	2128466	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			90.8	(25%-125%)

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

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

Column headers are defined as follows:

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-003
Client Sample ID: Cottonwood Seep
Collection Date: 5/4/2021 940h
Received Date: 5/6/2021 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/7/2021 847h	5/14/2021 1140h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/7/2021 847h	5/17/2021 1629h	E200.7	5.00	**108**	
Chromium	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/7/2021 847h	5/14/2021 1140h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/7/2021 847h	5/17/2021 1859h	E200.7	0.100	**31.3**	
Manganese	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/10/2021 1628h	5/11/2021 1519h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/7/2021 847h	5/17/2021 1859h	E200.7	1.00	**7.40**	
Selenium	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/7/2021 847h	5/17/2021 1629h	E200.7	5.00	**223**	2
Thallium	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.000500	**0.0106**	
Vanadium	mg/L	5/7/2021 847h	5/17/2021 1859h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/7/2021 847h	5/11/2021 1316h	E200.8	0.0100	< 0.0100	

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

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
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Toll Free: (888) 263-8686
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web: www.awal-labs.com
Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-003
Client Sample ID: Cottonwood Seep
Collection Date: 5/4/2021 940h
Received Date: 5/6/2021 1500h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/11/2021 1324h	5/12/2021 1332h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	**298**	
Carbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/14/2021 1051h	E300.0	5.00	**143**	
Fluoride	mg/L		5/15/2021 007h	E300.0	0.200	**0.317**	
Ion Balance	%		5/18/2021 1749h	Calc.	-100	**-3.68**	
Nitrate/Nitrite (as N)	mg/L		5/10/2021 1329h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/14/2021 1051h	E300.0	25.0	**443**	
Total Anions, Measured	meq/L		5/18/2021 1749h	Calc.		**19.2**	
Total Cations, Measured	meq/L		5/18/2021 1749h	Calc.		**17.8**	
Total Dissolved Solids	mg/L		5/7/2021 1450h	SM2540C	20.0	**1,110**	
Total Dissolved Solids Ratio, Measured/Calculated			5/18/2021 1749h	Calc.		**0.978**	
Total Dissolved Solids, Calculated	mg/L		5/18/2021 1749h	Calc.		**1,130**	

3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com
web: www.awal-labs.com
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3440 South 700 West
Salt Lake City, UT 84119

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e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-003A
Client Sample ID: Cottonwood Seep
Collection Date: 5/4/2021 940h
Received Date: 5/6/2021 1500h

Test Code: 8260D-W-DEN100

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

Analyzed: 5/7/2021 1029h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.9	50.00	104	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	49.1	50.00	98.2	85-121	
Surr: Dibromofluoromethane	1868-53-7	49.5	50.00	99.0	78-132	
Surr: Toluene-d8	2037-26-5	48.3	50.00	96.6	81-123	

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

Certificate of Analysis

Report Date: May 27, 2021

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

Blanding, Utah 84511
Contact: Mr. Garrin Palmer
Project: Analytical forSeeps and Springs 2021

Client Sample ID:	Cottonwood Seep	Project:	DNMI00106
Sample ID:	543955003	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	04-MAY-21 09:40		
Receive Date:	10-MAY-21		
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	-0.140	+/-0.202	0.986	1.00	pCi/L			JXC9	05/26/21	1258	2128466	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			96.2	(25%-125%)

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

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

Column headers are defined as follows:

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-004
Client Sample ID: Westwater Seep
Collection Date: 5/4/2021 1015h
Received Date: 5/6/2021 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/7/2021 847h	5/14/2021 1152h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/7/2021 847h	5/17/2021 1709h	E200.7	5.00	**125**	
Chromium	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/7/2021 847h	5/14/2021 1213h	E200.8	0.100	**0.948**	
Lead	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/7/2021 847h	5/17/2021 1920h	E200.7	0.100	**30.9**	
Manganese	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0100	**0.432**	
Mercury	mg/L	5/10/2021 1628h	5/11/2021 1521h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/7/2021 847h	5/17/2021 1920h	E200.7	1.00	**1.78**	
Selenium	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/7/2021 847h	5/17/2021 1709h	E200.7	5.00	**111**	
Thallium	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.000500	**0.00207**	
Vanadium	mg/L	5/7/2021 847h	5/17/2021 1920h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/7/2021 847h	5/11/2021 1328h	E200.8	0.0100	< 0.0100	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com
web: www.awal-labs.com
Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

American West
ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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Kyle F. Gross
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QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-004
Client Sample ID: Westwater Seep
Collection Date: 5/4/2021 1015h
Received Date: 5/6/2021 1500h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/11/2021 1324h	5/12/2021 1334h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	**320**	
Carbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/14/2021 1115h	E300.0	5.00	**29.2**	
Fluoride	mg/L		5/15/2021 032h	E300.0	0.200	**0.473**	
Ion Balance	%		5/18/2021 1749h	Calc.	-100	**-2.15**	
Nitrate/Nitrite (as N)	mg/L		5/10/2021 1330h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/14/2021 1115h	E300.0	25.0	**340**	
Total Anions, Measured	meq/L		5/18/2021 1749h	Calc.		**14.3**	
Total Cations, Measured	meq/L		5/18/2021 1749h	Calc.		**13.7**	
Total Dissolved Solids	mg/L		5/7/2021 1450h	SM2540C	20.0	**876**	
Total Dissolved Solids Ratio, Measured/Calculated			5/18/2021 1749h	Calc.		**1.05**	
Total Dissolved Solids, Calculated	mg/L		5/18/2021 1749h	Calc.		**832**	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-004A
Client Sample ID: Westwater Seep
Collection Date: 5/4/2021 1015h
Received Date: 5/6/2021 1500h

Test Code: 8260D-W-DEN100

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

Analyzed: 5/7/2021 1049h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.9	50.00	104	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	47.9	50.00	95.8	85-121	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.4	78-132	
Surr: Toluene-d8	2037-26-5	47.4	50.00	94.9	81-123	

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

Certificate of Analysis

Report Date: May 27, 2021

Company :	Energy Fuels Resources (USA), Inc.
Address :	6425 S. Highway 191
	Blanding, Utah 84511
Contact:	Mr. Garrin Palmer
Project:	Analytical forSeeps and Springs 2021

Client Sample ID:	Westwater Seep	Project:	DNMI00106
Sample ID:	543955004	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	04-MAY-21 10:15		
Receive Date:	10-MAY-21		
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	0.169	+/-0.238	0.945	1.00	pCi/L			JXC9	05/26/21	1256	2128466	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			93	(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 he 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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-001
Client Sample ID: Entrance Spring
Collection Date: 5/4/2021 800h
Received Date: 5/6/2021 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/7/2021 847h	5/14/2021 1124h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/7/2021 847h	5/17/2021 1620h	E200.7	2.00	**138**	
Chromium	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/7/2021 847h	5/14/2021 1124h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/7/2021 847h	5/17/2021 1850h	E200.7	0.100	**47.7**	
Manganese	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0100	**0.0272**	
Mercury	mg/L	5/10/2021 1628h	5/11/2021 1503h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/7/2021 847h	5/17/2021 1850h	E200.7	1.00	**4.04**	
Selenium	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.00500	**0.0136**	
Silver	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/7/2021 847h	5/17/2021 1620h	E200.7	2.00	**98.3**	
Thallium	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.000500	**0.0361**	
Vanadium	mg/L	5/7/2021 847h	5/17/2021 1850h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/7/2021 847h	5/11/2021 1240h	E200.8	0.0100	< 0.0100	

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

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
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Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-001
Client Sample ID: Entrance Spring
Collection Date: 5/4/2021 800h
Received Date: 5/6/2021 1500h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/11/2021 1324h	5/12/2021 1331h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	**260**	
Carbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/14/2021 1001h	E300.0	5.00	**90.3**	
Fluoride	mg/L		5/14/2021 2317h	E300.0	0.200	**0.625**	
Ion Balance	%		5/18/2021 1749h	Calc.	-100	**-0.323**	
Nitrate/Nitrite (as N)	mg/L		5/10/2021 1322h	E353.2	0.100	**1.55**	
Sulfate	mg/L		5/14/2021 1001h	E300.0	25.0	**362**	
Total Anions, Measured	meq/L		5/18/2021 1749h	Calc.		**15.3**	
Total Cations, Measured	meq/L		5/18/2021 1749h	Calc.		**15.2**	
Total Dissolved Solids	mg/L		5/7/2021 1450h	SM2540C	20.0	**888**	
Total Dissolved Solids Ratio, Measured/Calculated			5/18/2021 1749h	Calc.		**0.989**	
Total Dissolved Solids, Calculated	mg/L		5/18/2021 1749h	Calc.		**898**	

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-001A
Client Sample ID: Entrance Spring
Collection Date: 5/4/2021 800h
Received Date: 5/6/2021 1500h

Test Code: 8260D-W-DEN100

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

Analyzed: 5/7/2021 732h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.8	50.00	104	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	47.5	50.00	95.0	85-121	
Surr: Dibromofluoromethane	1868-53-7	49.2	50.00	98.5	78-132	
Surr: Toluene-d8	2037-26-5	47.8	50.00	95.6	81-123	

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

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

Certificate of Analysis

Report Date: May 27, 2021

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

Blanding, Utah 84511
Contact: Mr. Garrin Palmer
Project: Analytical forSeeps and Springs 2021

Client Sample ID:	Entrance Spring	Project:	DNMI00106
Sample ID:	543955001	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	04-MAY-21 08:00		
Receive Date:	10-MAY-21		
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	0.697	+/-0.315	0.914	1.00	pCi/L			JXC9	05/26/21	1258	2128466	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"			94.4	(25%-125%)

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

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

Column headers are defined as follows:

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

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-005
Client Sample ID: Back Spring
Collection Date: 5/4/2021 940h
Received Date: 5/6/2021 1500h

Analytical Results DISSOLVED METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.00500	< 0.00500	
Beryllium	mg/L	5/7/2021 847h	5/14/2021 1209h	E200.8	0.000500	< 0.000500	
Cadmium	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.000500	< 0.000500	
Calcium	mg/L	5/7/2021 847h	5/17/2021 1711h	E200.7	5.00	**113**	
Chromium	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0250	< 0.0250	
Cobalt	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0100	< 0.0100	
Copper	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0100	< 0.0100	
Iron	mg/L	5/7/2021 847h	5/14/2021 1209h	E200.8	0.0300	< 0.0300	
Lead	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.00100	< 0.00100	
Magnesium	mg/L	5/7/2021 847h	5/17/2021 1922h	E200.7	0.100	**31.6**	
Manganese	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0100	< 0.0100	
Mercury	mg/L	5/10/2021 1628h	5/11/2021 1523h	E245.1	0.000500	< 0.000500	
Molybdenum	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0100	< 0.0100	
Nickel	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0200	< 0.0200	
Potassium	mg/L	5/7/2021 847h	5/17/2021 1922h	E200.7	1.00	**7.44**	
Selenium	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.00500	< 0.00500	
Silver	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0100	< 0.0100	
Sodium	mg/L	5/7/2021 847h	5/17/2021 1711h	E200.7	5.00	**232**	
Thallium	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.000500	< 0.000500	
Tin	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.100	< 0.100	
Uranium	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.000500	**0.0104**	
Vanadium	mg/L	5/7/2021 847h	5/17/2021 1922h	E200.7	0.0150	< 0.0150	
Zinc	mg/L	5/7/2021 847h	5/11/2021 1332h	E200.8	0.0100	< 0.0100	

3440 South 700 West
Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-005
Client Sample ID: Back Spring
Collection Date: 5/4/2021 940h
Received Date: 5/6/2021 1500h

Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Ammonia (as N)	mg/L	5/11/2021 1324h	5/12/2021 1335h	E350.1	0.0500	< 0.0500	
Bicarbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	**292**	
Carbonate (as CaCO3)	mg/L		5/7/2021 815h	SM2320B	1.00	< 1.00	
Chloride	mg/L		5/14/2021 1140h	E300.0	5.00	**141**	
Fluoride	mg/L		5/15/2021 057h	E300.0	0.200	**0.320**	
Ion Balance	%		5/18/2021 1749h	Calc.	-100	**-1.15**	
Nitrate/Nitrite (as N)	mg/L		5/10/2021 1332h	E353.2	0.100	< 0.100	
Sulfate	mg/L		5/14/2021 1140h	E300.0	25.0	**437**	
Total Anions, Measured	meq/L		5/18/2021 1749h	Calc.		**18.9**	
Total Cations, Measured	meq/L		5/18/2021 1749h	Calc.		**18.5**	
Total Dissolved Solids	mg/L		5/7/2021 1450h	SM2540C	20.0	**1,250**	
Total Dissolved Solids Ratio, Measured/Calculated			5/18/2021 1749h	Calc.		**1.10**	
Total Dissolved Solids, Calculated	mg/L		5/18/2021 1749h	Calc.		**1,140**	

American West ANALYTICAL LABORATORIES
3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com
web: www.awal-labs.com
Kyle F. Gross
Laboratory Director
Jose Rocha
QA Officer

American West
ANALYTICAL LABORATORIES

3440 South 700 West
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-005A
Client Sample ID: Back Spring
Collection Date: 5/4/2021 940h
Received Date: 5/6/2021 1500h

Test Code: 8260D-W-DEN100

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

Analyzed: 5/7/2021 1108h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate (Units: µg/L)	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.4	50.00	103	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	47.2	50.00	94.4	85-121	
Surr: Dibromofluoromethane	1868-53-7	48.4	50.00	96.9	78-132	
Surr: Toluene-d8	2037-26-5	46.6	50.00	93.2	81-123	

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

Certificate of Analysis

Report Date: May 27, 2021

Company :	Energy Fuels Resources (USA), Inc.
Address :	6425 S. Highway 191
	Blanding, Utah 84511
Contact:	Mr. Garrin Palmer
Project:	Analytical forSeeps and Springs 2021

Client Sample ID:	Back Spring	Project:	DNMI00106
Sample ID:	543955005	Client ID:	DNMI001
Matrix:	Ground Water		
Collect Date:	04-MAY-21 09:40		
Receive Date:	10-MAY-21		
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	0.273	+/-0.229	0.810	1.00	pCi/L			JXC9	05/26/21	1313	2128466	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
	EPA 903.0	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Barium Carrier	GFPC, Total Alpha Radium, Liquid "As Received"			92.6	(25%-125%)

Notes:

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

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

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

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ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Sample ID: 2105163-006A
Client Sample ID: Trip Blank
Collection Date: 5/4/2021 800h
Received Date: 5/6/2021 1500h

Test Code: 8260D-W-DEN100

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

Analyzed: 5/7/2021 1009h **Extracted:**
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260D

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

Surrogate Units: µg/L	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.7	50.00	99.5	80-136	
Surr: 4-Bromofluorobenzene	460-00-4	47.5	50.00	94.9	85-121	
Surr: Dibromofluoromethane	1868-53-7	47.3	50.00	94.7	78-132	
Surr: Toluene-d8	2037-26-5	46.8	50.00	93.7	81-123	

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Laboratory Director

Jose Rocha
QA Officer

Tanner Holliday
Energy Fuels Resources, Inc.
6425 South Hwy 191
Blanding, UT 84511
TEL: (435) 678-2221

RE: Seeps & Springs 2021

Dear Tanner Holliday: Lab Set ID: 2105163

American West Analytical Laboratories received sample(s) on 5/6/2021 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Jose G. Rocha Digitally signed by Jose G. Rocha Date: 2021.05.20 13:36:52 -06'00'

Laboratory Director or designee

American West
ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

SAMPLE SUMMARY

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Set ID: 2105163
Date Received: 5/6/2021 1500h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
2105163-001A	Entrance Spring	5/4/2021	800h	Aqueous	VOA by GC/MS Method 8260D/5030C
2105163-001B	Entrance Spring	5/4/2021	800h	Aqueous	Anions, E300.0
2105163-001B	Entrance Spring	5/4/2021	800h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2105163-001C	Entrance Spring	5/4/2021	800h	Aqueous	Total Dissolved Solids, A2540C
2105163-001D	Entrance Spring	5/4/2021	800h	Aqueous	Nitrite/Nitrate (as N), E353.2
2105163-001D	Entrance Spring	5/4/2021	800h	Aqueous	Ammonia, Aqueous
2105163-001E	Entrance Spring	5/4/2021	800h	Aqueous	Ion Balance
2105163-001E	Entrance Spring	5/4/2021	800h	Aqueous	ICP Metals, Dissolved
2105163-001E	Entrance Spring	5/4/2021	800h	Aqueous	ICPMS Metals, Dissolved
2105163-001E	Entrance Spring	5/4/2021	800h	Aqueous	Mercury, Drinking Water Dissolved
2105163-002A	Ruin Spring	5/4/2021	840h	Aqueous	VOA by GC/MS Method 8260D/5030C
2105163-002B	Ruin Spring	5/4/2021	840h	Aqueous	Anions, E300.0
2105163-002B	Ruin Spring	5/4/2021	840h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2105163-002C	Ruin Spring	5/4/2021	840h	Aqueous	Total Dissolved Solids, A2540C
2105163-002D	Ruin Spring	5/4/2021	840h	Aqueous	Nitrite/Nitrate (as N), E353.2
2105163-002D	Ruin Spring	5/4/2021	840h	Aqueous	Ammonia, Aqueous
2105163-002E	Ruin Spring	5/4/2021	840h	Aqueous	Ion Balance
2105163-002E	Ruin Spring	5/4/2021	840h	Aqueous	ICP Metals, Dissolved
2105163-002E	Ruin Spring	5/4/2021	840h	Aqueous	ICPMS Metals, Dissolved
2105163-002E	Ruin Spring	5/4/2021	840h	Aqueous	Mercury, Drinking Water Dissolved
2105163-003A	Cottonwood Seep	5/4/2021	940h	Aqueous	VOA by GC/MS Method 8260D/5030C
2105163-003B	Cottonwood Seep	5/4/2021	940h	Aqueous	Anions, E300.0
2105163-003B	Cottonwood Seep	5/4/2021	940h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2105163-003C	Cottonwood Seep	5/4/2021	940h	Aqueous	Total Dissolved Solids, A2540C
2105163-003D	Cottonwood Seep	5/4/2021	940h	Aqueous	Ammonia, Aqueous
2105163-003D	Cottonwood Seep	5/4/2021	940h	Aqueous	Nitrite/Nitrate (as N), E353.2
2105163-003E	Cottonwood Seep	5/4/2021	940h	Aqueous	Ion Balance
2105163-003E	Cottonwood Seep	5/4/2021	940h	Aqueous	ICP Metals, Dissolved
2105163-003E	Cottonwood Seep	5/4/2021	940h	Aqueous	ICPMS Metals, Dissolved

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Salt Lake City, UT 84119

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: Energy Fuels Resources, Inc. **Contact:** Tanner Holliday
Project: Seeps & Springs 2021
Lab Set ID: 2105163
Date Received: 5/6/2021 1500h

Lab Sample ID	Client Sample ID	Date Collected		Matrix	Analysis
2105163-003E	Cottonwood Seep	5/4/2021	940h	Aqueous	Mercury, Drinking Water Dissolved
2105163-004A	Westwater Seep	5/4/2021	1015h	Aqueous	VOA by GC/MS Method 8260D/5030C
2105163-004B	Westwater Seep	5/4/2021	1015h	Aqueous	Anions, E300.0
2105163-004B	Westwater Seep	5/4/2021	1015h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2105163-004C	Westwater Seep	5/4/2021	1015h	Aqueous	Total Dissolved Solids, A2540C
2105163-004D	Westwater Seep	5/4/2021	1015h	Aqueous	Nitrite/Nitrate (as N), E353.2
2105163-004D	Westwater Seep	5/4/2021	1015h	Aqueous	Ammonia, Aqueous
2105163-004E	Westwater Seep	5/4/2021	1015h	Aqueous	ICP Metals, Dissolved
2105163-004E	Westwater Seep	5/4/2021	1015h	Aqueous	ICPMS Metals, Dissolved
2105163-004E	Westwater Seep	5/4/2021	1015h	Aqueous	Ion Balance
2105163-004E	Westwater Seep	5/4/2021	1015h	Aqueous	Mercury, Drinking Water Dissolved
2105163-005A	Back Spring	5/4/2021	940h	Aqueous	VOA by GC/MS Method 8260D/5030C
2105163-005B	Back Spring	5/4/2021	940h	Aqueous	Anions, E300.0
2105163-005B	Back Spring	5/4/2021	940h	Aqueous	Alkalinity/ Bicarbonate/ Carbonate, Low Level
2105163-005C	Back Spring	5/4/2021	940h	Aqueous	Total Dissolved Solids, A2540C
2105163-005D	Back Spring	5/4/2021	940h	Aqueous	Nitrite/Nitrate (as N), E353.2
2105163-005D	Back Spring	5/4/2021	940h	Aqueous	Ammonia, Aqueous
2105163-005E	Back Spring	5/4/2021	940h	Aqueous	Ion Balance
2105163-005E	Back Spring	5/4/2021	940h	Aqueous	ICP Metals, Dissolved
2105163-005E	Back Spring	5/4/2021	940h	Aqueous	ICPMS Metals, Dissolved
2105163-005E	Back Spring	5/4/2021	940h	Aqueous	Mercury, Drinking Water Dissolved
2105163-006A	Trip Blank	5/4/2021	800h	Aqueous	VOA by GC/MS Method 8260D/5030C

Inorganic Case Narrative

Client: Energy Fuels Resources, Inc.
Contact: Tanner Holliday
Project: Seeps & Springs 2021
Lab Set ID: 2105163

3440 South 700 West
Salt Lake City, UT 84119

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

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Sample Receipt Information:

Date of Receipt: 5/6/2021
Date of Collection: 5/4/2021
Sample Condition: Intact
C-O-C Discrepancies: None

Holding Time and Preservation Requirements: The analysis and preparation of all samples were performed within the method holding times. All samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions:

Sample ID	Analyte	QC	Explanation
2105163-001E	Mercury	MSD	Sample matrix interference
2105163-002E	Calcium	MS	High analyte concentration
2105163-003E	Sodium	MS	High analyte concentration

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits.

Corrective Action: None required.

American West
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Volatile Case Narrative

Client:	Energy Fuels Resources, Inc.
Contact:	Tanner Holliday
Project:	Seeps & Springs 2021
Lab Set ID:	2105163

Sample Receipt Information:

Date of Receipt:	5/6/2021
Date of Collection:	5/4/2021
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260D/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: No target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exceptions: the MS percent recoveries for multiple analytes on sample 2105163-001A were outside of the control limits due to sample matrix interference.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

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Salt Lake City, UT 84119
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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-77088	Date Analyzed:	05/17/2021 1607h											
Test Code: 200.7-DIS	Date Prepared:	05/07/2021 847h											
Calcium	10.1	mg/L	E200.7	0.0120	1.00	10.00	0	101	85 - 115				
Magnesium	10.3	mg/L	E200.7	0.0120	0.100	10.00	0	103	85 - 115				
Potassium	9.94	mg/L	E200.7	0.155	1.00	10.00	0	99.4	85 - 115				
Sodium	10.1	mg/L	E200.7	0.0670	1.00	10.00	0	101	85 - 115				
Vanadium	0.198	mg/L	E200.7	0.00203	0.00500	0.2000	0	98.9	85 - 115				
Lab Sample ID: LCS-77089	Date Analyzed:	05/11/2021 1211h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Arsenic	0.200	mg/L	E200.8	0.000298	0.00200	0.2000	0	99.9	85 - 115				
Cadmium	0.199	mg/L	E200.8	0.0000742	0.000500	0.2000	0	99.4	85 - 115				
Chromium	0.205	mg/L	E200.8	0.000920	0.00200	0.2000	0	102	85 - 115				
Cobalt	0.206	mg/L	E200.8	0.000300	0.00400	0.2000	0	103	85 - 115				
Copper	0.206	mg/L	E200.8	0.00111	0.00200	0.2000	0	103	85 - 115				
Lead	0.210	mg/L	E200.8	0.000588	0.00200	0.2000	0	105	85 - 115				
Manganese	0.204	mg/L	E200.8	0.000930	0.00200	0.2000	0	102	85 - 115				
Molybdenum	0.207	mg/L	E200.8	0.000884	0.00200	0.2000	0	103	85 - 115				
Nickel	0.208	mg/L	E200.8	0.000584	0.00200	0.2000	0	104	85 - 115				
Selenium	0.197	mg/L	E200.8	0.000508	0.00200	0.2000	0	98.6	85 - 115				
Silver	0.193	mg/L	E200.8	0.000232	0.00200	0.2000	0	96.5	85 - 115				
Thallium	0.208	mg/L	E200.8	0.000418	0.00200	0.2000	0	104	85 - 115				
Tin	1.05	mg/L	E200.8	0.000968	0.00400	1.000	0	105	85 - 115				
Uranium	0.215	mg/L	E200.8	0.000176	0.00200	0.2000	0	107	85 - 115				
Zinc	1.07	mg/L	E200.8	0.00418	0.00600	1.000	0	107	85 - 115				
Lab Sample ID: LCS-77089	Date Analyzed:	05/14/2021 1120h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Beryllium	0.208	mg/L	E200.8	0.000198	0.00200	0.2000	0	104	85 - 115				
Iron	1.12	mg/L	E200.8	0.0312	0.100	1.000	0	112	85 - 115				

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: LCS

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	**LCS-77137**	Date Analyzed:	05/11/2021 1501h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	05/10/2021 1628h											
Mercury		0.00368	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	111	85 - 115				

American West
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	**MB-77088**	Date Analyzed:	05/17/2021 1605h											
Test Code:	200.7-DIS	Date Prepared:	05/07/2021 847h											
Calcium		< 1.00	mg/L	E200.7	0.0120	1.00								
Magnesium		< 0.100	mg/L	E200.7	0.0120	0.100								
Potassium		< 1.00	mg/L	E200.7	0.155	1.00								
Sodium		< 1.00	mg/L	E200.7	0.0670	1.00								
Vanadium		< 0.00500	mg/L	E200.7	0.00203	0.00500								
Lab Sample ID:	**MB-77089**	Date Analyzed:	05/11/2021 1207h											
Test Code:	200.8-DIS	Date Prepared:	05/07/2021 847h											
Arsenic		< 0.000200	mg/L	E200.8	0.0000298	0.000200								
Cadmium		< 0.0000500	mg/L	E200.8	0.00000742	0.0000500								
Chromium		< 0.000200	mg/L	E200.8	0.0000920	0.000200								
Cobalt		< 0.000400	mg/L	E200.8	0.0000300	0.000400								
Copper		< 0.000200	mg/L	E200.8	0.000111	0.000200								
Lead		< 0.000200	mg/L	E200.8	0.0000588	0.000200								
Manganese		< 0.000200	mg/L	E200.8	0.0000930	0.000200								
Molybdenum		< 0.000200	mg/L	E200.8	0.0000884	0.000200								
Nickel		< 0.000200	mg/L	E200.8	0.0000584	0.000200								
Selenium		< 0.000200	mg/L	E200.8	0.0000508	0.000200								
Silver		< 0.000200	mg/L	E200.8	0.0000232	0.000200								
Thallium		< 0.000200	mg/L	E200.8	0.0000418	0.000200								
Tin		< 0.000400	mg/L	E200.8	0.0000968	0.000400								
Uranium		< 0.000200	mg/L	E200.8	0.0000176	0.000200								
Zinc		< 0.000600	mg/L	E200.8	0.000418	0.000600								
Lab Sample ID:	**MB-FILTER-77020**	Date Analyzed:	05/11/2021 1337h											
Test Code:	200.8-DIS	Date Prepared:	05/07/2021 847h											
Selenium		< 0.00200	mg/L	E200.8	0.000508	0.00200								

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3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-77089	Date Analyzed:	05/14/2021 1116h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Beryllium	< 0.000500	mg/L	E200.8	0.0000494	0.000500								
Iron	< 0.0250	mg/L	E200.8	0.00780	0.0250								
Lab Sample ID: MB-77137	Date Analyzed:	05/11/2021 1459h											
Test Code: HG-DW-DIS-245.1	Date Prepared:	05/10/2021 1628h											
Mercury	< 0.0000900	mg/L	E245.1	0.0000396	0.0000900								

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2105163-002EMS	Date Analyzed:	05/17/2021 1624h											
Test Code: 200.7-DIS	Date Prepared:	05/07/2021 847h											
Calcium	161	mg/L	E200.7	0.0240	2.00	10.00	154	68.3	70 - 130				2
Sodium	127	mg/L	E200.7	0.134	2.00	10.00	119	80.5	70 - 130				
Lab Sample ID: 2105163-003EMS	Date Analyzed:	05/17/2021 1705h											
Test Code: 200.7-DIS	Date Prepared:	05/07/2021 847h											
Calcium	119	mg/L	E200.7	0.0600	5.00	10.00	108	111	70 - 130				
Sodium	230	mg/L	E200.7	0.335	5.00	10.00	223	67.7	70 - 130				2
Lab Sample ID: 2105163-002EMS	Date Analyzed:	05/17/2021 1854h											
Test Code: 200.7-DIS	Date Prepared:	05/07/2021 847h											
Magnesium	44.6	mg/L	E200.7	0.0120	0.100	10.00	34.8	98.0	70 - 130				
Potassium	14.6	mg/L	E200.7	0.155	1.00	10.00	3.83	107	70 - 130				
Vanadium	0.199	mg/L	E200.7	0.00203	0.00500	0.2000	0	99.7	70 - 130				
Lab Sample ID: 2105163-003EMS	Date Analyzed:	05/17/2021 1915h											
Test Code: 200.7-DIS	Date Prepared:	05/07/2021 847h											
Magnesium	41.3	mg/L	E200.7	0.0120	0.100	10.00	31.3	100	70 - 130				
Potassium	18.3	mg/L	E200.7	0.155	1.00	10.00	7.4	109	70 - 130				
Vanadium	0.202	mg/L	E200.7	0.00203	0.00500	0.2000	0	101	70 - 130				
Lab Sample ID: 2105163-002EMS	Date Analyzed:	05/11/2021 1308h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Arsenic	0.205	mg/L	E200.8	0.000298	0.00200	0.2000	0.000421	102	75 - 125				
Cadmium	0.197	mg/L	E200.8	0.0000742	0.000500	0.2000	0	98.7	75 - 125				
Chromium	0.203	mg/L	E200.8	0.000920	0.00200	0.2000	0	101	75 - 125				
Cobalt	0.205	mg/L	E200.8	0.000300	0.00400	0.2000	0	102	75 - 125				
Copper	0.203	mg/L	E200.8	0.00111	0.00200	0.2000	0.000354	101	75 - 125				
Lead	0.201	mg/L	E200.8	0.000588	0.00200	0.2000	0	100	75 - 125				
Manganese	0.202	mg/L	E200.8	0.000930	0.00200	0.2000	0	101	75 - 125				

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2105163-002EMS	Date Analyzed:	05/11/2021 1308h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Molybdenum	0.229	mg/L	E200.8	0.000884	0.00200	0.2000	0.0187	105	75 - 125				
Nickel	0.205	mg/L	E200.8	0.000584	0.00200	0.2000	0	103	75 - 125				
Selenium	0.209	mg/L	E200.8	0.000508	0.00200	0.2000	0.0112	99.2	75 - 125				
Silver	0.187	mg/L	E200.8	0.000232	0.00200	0.2000	0	93.7	75 - 125				
Thallium	0.200	mg/L	E200.8	0.000418	0.00200	0.2000	0	100	75 - 125				
Tin	1.07	mg/L	E200.8	0.000968	0.00400	1.000	0	107	75 - 125				
Uranium	0.219	mg/L	E200.8	0.000176	0.00200	0.2000	0.00931	105	75 - 125				
Zinc	1.07	mg/L	E200.8	0.00418	0.00600	1.000	0.00159	107	75 - 125				
Lab Sample ID: 2105163-003EMS	Date Analyzed:	05/11/2021 1320h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Arsenic	0.208	mg/L	E200.8	0.000298	0.00200	0.2000	0.00207	103	75 - 125				
Cadmium	0.196	mg/L	E200.8	0.0000742	0.000500	0.2000	0	97.9	75 - 125				
Chromium	0.207	mg/L	E200.8	0.000920	0.00200	0.2000	0	103	75 - 125				
Cobalt	0.207	mg/L	E200.8	0.000300	0.00400	0.2000	0	104	75 - 125				
Copper	0.206	mg/L	E200.8	0.00111	0.00200	0.2000	0.000359	103	75 - 125				
Lead	0.206	mg/L	E200.8	0.000588	0.00200	0.2000	0	103	75 - 125				
Manganese	0.208	mg/L	E200.8	0.000930	0.00200	0.2000	0.00469	102	75 - 125				
Molybdenum	0.213	mg/L	E200.8	0.000884	0.00200	0.2000	0.00149	106	75 - 125				
Nickel	0.207	mg/L	E200.8	0.000584	0.00200	0.2000	0.000146	104	75 - 125				
Selenium	0.197	mg/L	E200.8	0.000508	0.00200	0.2000	0.00139	98.0	75 - 125				
Silver	0.174	mg/L	E200.8	0.000232	0.00200	0.2000	0	87.0	75 - 125				
Thallium	0.202	mg/L	E200.8	0.000418	0.00200	0.2000	0	101	75 - 125				
Tin	1.09	mg/L	E200.8	0.000968	0.00400	1.000	0.000415	109	75 - 125				
Uranium	0.226	mg/L	E200.8	0.000176	0.00200	0.2000	0.0106	108	75 - 125				
Zinc	1.08	mg/L	E200.8	0.00418	0.00600	1.000	0	108	75 - 125				

American West
ANALYTICAL LABORATORIES

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Salt Lake City, UT 84119
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MS

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	**2105163-002EMS**	Date Analyzed:	05/14/2021 1132h											
Test Code:	200.8-DIS	Date Prepared:	05/07/2021 847h											
Beryllium		0.193	mg/L	E200.8	0.000198	0.00200	0.2000	0	96.7	75 - 125				
Iron		1.04	mg/L	E200.8	0.0312	0.100	1.000	0	104	75 - 125				
Lab Sample ID:	**2105163-003EMS**	Date Analyzed:	05/14/2021 1144h											
Test Code:	200.8-DIS	Date Prepared:	05/07/2021 847h											
Beryllium		0.188	mg/L	E200.8	0.000198	0.00200	0.2000	0	94.0	75 - 125				
Iron		1.10	mg/L	E200.8	0.0312	0.100	1.000	0.0177	108	75 - 125				
Lab Sample ID:	**2105163-001EMS**	Date Analyzed:	05/11/2021 1513h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	05/10/2021 1628h											
Mercury		0.00374	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	112	85 - 115				1

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

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3440 South 700 West
Salt Lake City, UT 84119
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	**2105163-002EMSD**	Date Analyzed:	05/17/2021 1627h											
Test Code:	200.7-DIS	Date Prepared:	05/07/2021 847h											
Calcium		164	mg/L	E200.7	0.0240	2.00	10.00	154	101	70 - 130	161	2.02	20	
Sodium		129	mg/L	E200.7	0.134	2.00	10.00	119	96.8	70 - 130	127	1.28	20	
Lab Sample ID:	**2105163-003EMSD**	Date Analyzed:	05/17/2021 1707h											
Test Code:	200.7-DIS	Date Prepared:	05/07/2021 847h											
Calcium		121	mg/L	E200.7	0.0600	5.00	10.00	108	127	70 - 130	119	1.29	20	
Sodium		232	mg/L	E200.7	0.335	5.00	10.00	223	91.5	70 - 130	230	1.03	20	
Lab Sample ID:	**2105163-002EMSD**	Date Analyzed:	05/17/2021 1857h											
Test Code:	200.7-DIS	Date Prepared:	05/07/2021 847h											
Magnesium		45.5	mg/L	E200.7	0.0120	0.100	10.00	34.8	107	70 - 130	44.6	2.01	20	
Potassium		14.8	mg/L	E200.7	0.155	1.00	10.00	3.83	110	70 - 130	14.6	1.69	20	
Vanadium		0.202	mg/L	E200.7	0.00203	0.00500	0.2000	0	101	70 - 130	0.199	1.11	20	
Lab Sample ID:	**2105163-003EMSD**	Date Analyzed:	05/17/2021 1918h											
Test Code:	200.7-DIS	Date Prepared:	05/07/2021 847h											
Magnesium		41.6	mg/L	E200.7	0.0120	0.100	10.00	31.3	103	70 - 130	41.3	0.659	20	
Potassium		18.5	mg/L	E200.7	0.155	1.00	10.00	7.4	111	70 - 130	18.3	1.10	20	
Vanadium		0.203	mg/L	E200.7	0.00203	0.00500	0.2000	0	101	70 - 130	0.202	0.479	20	
Lab Sample ID:	**2105163-002EMSD**	Date Analyzed:	05/11/2021 1312h											
Test Code:	200.8-DIS	Date Prepared:	05/07/2021 847h											
Arsenic		0.209	mg/L	E200.8	0.000298	0.00200	0.2000	0.000421	104	75 - 125	0.205	2.01	20	
Cadmium		0.200	mg/L	E200.8	0.0000742	0.000500	0.2000	0	100	75 - 125	0.197	1.34	20	
Chromium		0.207	mg/L	E200.8	0.000920	0.00200	0.2000	0	104	75 - 125	0.203	2.16	20	
Cobalt		0.208	mg/L	E200.8	0.000300	0.00400	0.2000	0	104	75 - 125	0.205	1.50	20	
Copper		0.207	mg/L	E200.8	0.00111	0.00200	0.2000	0.000354	103	75 - 125	0.203	2.22	20	
Lead		0.205	mg/L	E200.8	0.000588	0.00200	0.2000	0	102	75 - 125	0.201	1.99	20	
Manganese		0.206	mg/L	E200.8	0.000930	0.00200	0.2000	0	103	75 - 125	0.202	1.69	20	

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Jose Rocha
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2105163-002EMSD	Date Analyzed:	05/11/2021 1312h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Molybdenum	0.230	mg/L	E200.8	0.000884	0.00200	0.2000	0.0187	106	75 - 125	0.229	0.409	20	
Nickel	0.209	mg/L	E200.8	0.000584	0.00200	0.2000	0	104	75 - 125	0.205	1.65	20	
Selenium	0.211	mg/L	E200.8	0.000508	0.00200	0.2000	0.0112	100	75 - 125	0.209	0.794	20	
Silver	0.191	mg/L	E200.8	0.000232	0.00200	0.2000	0	95.6	75 - 125	0.187	2.05	20	
Thallium	0.205	mg/L	E200.8	0.000418	0.00200	0.2000	0	103	75 - 125	0.2	2.51	20	
Tin	1.08	mg/L	E200.8	0.000968	0.00400	1.000	0	108	75 - 125	1.07	0.778	20	
Uranium	0.221	mg/L	E200.8	0.000176	0.00200	0.2000	0.00931	106	75 - 125	0.219	0.729	20	
Zinc	1.09	mg/L	E200.8	0.00418	0.00600	1.000	0.00159	109	75 - 125	1.07	2.28	20	
Lab Sample ID: 2105163-003EMSD	Date Analyzed:	05/11/2021 1324h											
Test Code: 200.8-DIS	Date Prepared:	05/07/2021 847h											
Arsenic	0.210	mg/L	E200.8	0.000298	0.00200	0.2000	0.00207	104	75 - 125	0.208	1.13	20	
Cadmium	0.203	mg/L	E200.8	0.0000742	0.000500	0.2000	0	101	75 - 125	0.196	3.60	20	
Chromium	0.206	mg/L	E200.8	0.000920	0.00200	0.2000	0	103	75 - 125	0.207	0.416	20	
Cobalt	0.209	mg/L	E200.8	0.000300	0.00400	0.2000	0	104	75 - 125	0.207	0.942	20	
Copper	0.208	mg/L	E200.8	0.00111	0.00200	0.2000	0.000359	104	75 - 125	0.206	1.05	20	
Lead	0.206	mg/L	E200.8	0.000588	0.00200	0.2000	0	103	75 - 125	0.206	0.0627	20	
Manganese	0.210	mg/L	E200.8	0.000930	0.00200	0.2000	0.00469	103	75 - 125	0.208	0.722	20	
Molybdenum	0.214	mg/L	E200.8	0.000884	0.00200	0.2000	0.00149	106	75 - 125	0.213	0.268	20	
Nickel	0.209	mg/L	E200.8	0.000584	0.00200	0.2000	0.000146	104	75 - 125	0.207	0.724	20	
Selenium	0.201	mg/L	E200.8	0.000508	0.00200	0.2000	0.00139	99.7	75 - 125	0.197	1.72	20	
Silver	0.180	mg/L	E200.8	0.000232	0.00200	0.2000	0	90.0	75 - 125	0.174	3.33	20	
Thallium	0.208	mg/L	E200.8	0.000418	0.00200	0.2000	0	104	75 - 125	0.202	3.11	20	
Tin	1.08	mg/L	E200.8	0.000968	0.00400	1.000	0.000415	108	75 - 125	1.09	0.856	20	
Uranium	0.227	mg/L	E200.8	0.000176	0.00200	0.2000	0.0106	108	75 - 125	0.226	0.261	20	
Zinc	1.09	mg/L	E200.8	0.00418	0.00600	1.000	0	109	75 - 125	1.08	0.938	20	

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: ME
QC Type: MSD

Analyte		Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID:	**2105163-002EMSD**	Date Analyzed:	05/14/2021 1136h											
Test Code:	200.8-DIS	Date Prepared:	05/07/2021 847h											
Beryllium		0.193	mg/L	E200.8	0.000198	0.00200	0.2000	0	96.4	75 - 125	0.193	0.271	20	
Iron		1.07	mg/L	E200.8	0.0312	0.100	1.000	0	107	75 - 125	1.04	2.77	20	
Lab Sample ID:	**2105163-003EMSD**	Date Analyzed:	05/14/2021 1148h											
Test Code:	200.8-DIS	Date Prepared:	05/07/2021 847h											
Beryllium		0.185	mg/L	E200.8	0.000198	0.00200	0.2000	0	92.4	75 - 125	0.188	1.62	20	
Iron		1.05	mg/L	E200.8	0.0312	0.100	1.000	0.0177	104	75 - 125	1.1	3.96	20	
Lab Sample ID:	**2105163-001EMSD**	Date Analyzed:	05/11/2021 1515h											
Test Code:	HG-DW-DIS-245.1	Date Prepared:	05/10/2021 1628h											
Mercury		0.00385	mg/L	E245.1	0.0000396	0.0000900	0.003330	0	116	85 - 115	0.00374	2.94	20	1

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

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Kyle F. Gross
Laboratory Director

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QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: WC
QC Type: DUP

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2104877-004BDUP Date Analyzed: 05/13/2021 2200h Test Code: 300.0-W													
Sulfate	7,010	mg/L	E300.0	150	1,000					6760	3.68	20	
Lab Sample ID: 2104696-008DDUP Date Analyzed: 05/12/2021 1317h Test Code: NH3-W-350.1 Date Prepared: 05/11/2021 1324h													
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0495	0.0500					0	0	20	
Lab Sample ID: 2105163-001CDUP Date Analyzed: 05/07/2021 1450h Test Code: TDS-W-2540C													
Total Dissolved Solids	892	mg/L	SM2540C	16.0	20.0					888	0.449	5	

American West
ANALYTICAL LABORATORIES

3440 South 700 West
Salt Lake City, UT 84119
Phone: (801) 263-8686, Toll Free: (888) 263-8686, Fax: (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: WC
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS-R152173 Date Analyzed: 05/14/2021 936h Test Code: 300.0-W													
Chloride	4.97	mg/L	E300.0	0.0198	0.100	5.000	0	99.4	90 - 110				
Sulfate	5.08	mg/L	E300.0	0.0750	0.500	5.000	0	102	90 - 110				
Lab Sample ID: LCS-R152201 Date Analyzed: 05/14/2021 1844h Test Code: 300.0-W													
Fluoride	4.92	mg/L	E300.0	0.00260	0.100	5.000	0	98.4	90 - 110				
Lab Sample ID: LCS-R151865 Date Analyzed: 05/07/2021 815h Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	250	mg/L	SM2320B	0.333	1.00	250.0	0	100	90 - 110				
Lab Sample ID: LCS-77157 Date Analyzed: 05/12/2021 1316h Test Code: NH3-W-350.1 Date Prepared: 05/11/2021 1324h													
Ammonia (as N)	1.79	mg/L	E350.1	0.0495	0.0500	2.000	0	89.6	90 - 110				§
Lab Sample ID: LCS-R151938 Date Analyzed: 05/10/2021 1320h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	1.06	mg/L	E353.2	0.00541	0.0100	1.000	0	106	90 - 110				
Lab Sample ID: LCS-R151926 Date Analyzed: 05/07/2021 1450h Test Code: TDS-W-2540C													
Total Dissolved Solids	216	mg/L	SM2540C	8.00	10.0	205.0	0	105	80 - 120				

§ - QC limits are set with an accuracy of two significant figures, therefore the recovery rounds to an acceptable value within the control limits.

American West
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Salt Lake City, UT 84119
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e-mail: awal@awal-labs.com, web: www.awal-labs.com

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: WC
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB-R152173	Date Analyzed:	05/14/2021 911h											
Test Code: 300.0-W													
Chloride	< 0.100	mg/L	E300.0	0.0198	0.100								
Sulfate	< 0.500	mg/L	E300.0	0.0750	0.500								
Lab Sample ID: MB-R152201	Date Analyzed:	05/14/2021 1819h											
Test Code: 300.0-W													
Fluoride	< 0.100	mg/L	E300.0	0.00260	0.100								
Lab Sample ID: MB-R151865	Date Analyzed:	05/07/2021 815h											
Test Code: ALK-W-2320B-LL													
Bicarbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.333	1.00								
Carbonate (as CaCO3)	< 1.00	mg/L	SM2320B	0.333	1.00								
Lab Sample ID: MB-77157	Date Analyzed:	05/12/2021 1315h											
Test Code: NH3-W-350.1	Date Prepared:	05/11/2021 1324h											
Ammonia (as N)	< 0.0500	mg/L	E350.1	0.0495	0.0500								
Lab Sample ID: MB-R151938	Date Analyzed:	05/10/2021 1319h											
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	< 0.0100	mg/L	E353.2	0.00541	0.0100								
Lab Sample ID: MB-R151926	Date Analyzed:	05/07/2021 1450h											
Test Code: TDS-W-2540C													
Total Dissolved Solids	< 10.0	mg/L	SM2540C	8.00	10.0								

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: WC
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2105163-005BMS Date Analyzed: 05/14/2021 1205h													
Test Code: 300.0-W													
Chloride	632	mg/L	E300.0	1.98	10.0	500.0	141	98.2	90 - 110				
Sulfate	920	mg/L	E300.0	7.50	50.0	500.0	437	96.6	90 - 110				
Lab Sample ID: 2105163-002BMS Date Analyzed: 05/07/2021 815h													
Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	1,200	mg/L	SM2320B	0.333	1.00	1,000	200	99.6	80 - 120				
Lab Sample ID: 2105163-003DMS Date Analyzed: 05/12/2021 1333h													
Test Code: NH3-W-350.1 Date Prepared: 05/11/2021 1324h													
Ammonia (as N)	2.10	mg/L	E350.1	0.0495	0.0500	2.000	0	105	90 - 110				
Lab Sample ID: 2105163-001DMS Date Analyzed: 05/10/2021 1326h													
Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	11.9	mg/L	E353.2	0.0541	0.100	10.00	1.55	103	90 - 110				

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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: WC
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2105163-005BMSD Date Analyzed: 05/14/2021 1230h Test Code: 300.0-W													
Chloride	630	mg/L	E300.0	1.98	10.0	500.0	141	97.8	90 - 110	632	0.330	20	
Sulfate	919	mg/L	E300.0	7.50	50.0	500.0	437	96.3	90 - 110	920	0.122	20	
Lab Sample ID: 2105163-002BMSD Date Analyzed: 05/07/2021 815h Test Code: ALK-W-2320B-LL													
Alkalinity (as CaCO3)	1,190	mg/L	SM2320B	0.333	1.00	1,000	200	99.4	80 - 120	1200	0.167	10	
Lab Sample ID: 2105163-003DMSD Date Analyzed: 05/12/2021 1334h Test Code: NH3-W-350.1 Date Prepared: 05/11/2021 1324h													
Ammonia (as N)	2.20	mg/L	E350.1	0.0495	0.0500	2.000	0	110	90 - 110	2.11	4.28	10	
Lab Sample ID: 2105163-001DMSD Date Analyzed: 05/10/2021 1327h Test Code: NO2/NO3-W-353.2													
Nitrate/Nitrite (as N)	12.2	mg/L	E353.2	0.0541	0.100	10.00	1.55	107	90 - 110	11.9	2.66	10	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: MSVOA
QC Type: LCS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: LCS VOC-2 050721A Date Analyzed: 05/07/2021 653h													
Test Code: 8260D-W-DEN100													
2-Butanone	18.9	µg/L	SW8260D	1.22	20.0	20.00	0	94.6	69 - 236				
Acetone	20.4	µg/L	SW8260D	2.76	20.0	20.00	0	102	36 - 198				
Benzene	22.2	µg/L	SW8260D	0.147	1.00	20.00	0	111	78 - 125				
Carbon tetrachloride	22.1	µg/L	SW8260D	0.785	1.00	20.00	0	110	66 - 143				
Chloroform	20.7	µg/L	SW8260D	0.360	1.00	20.00	0	104	74 - 120				
Chloromethane	14.8	µg/L	SW8260D	0.682	1.00	20.00	0	73.8	30 - 149				
Methylene chloride	23.3	µg/L	SW8260D	0.451	1.00	20.00	0	117	65 - 154				
Naphthalene	17.0	µg/L	SW8260D	0.730	1.00	20.00	0	85.0	55 - 128				
Tetrahydrofuran	20.2	µg/L	SW8260D	0.436	1.00	20.00	0	101	59 - 135				
Toluene	21.4	µg/L	SW8260D	0.277	1.00	20.00	0	107	69 - 129				
Xylenes, Total	63.6	µg/L	SW8260D	0.746	1.00	60.00	0	106	66 - 124				
Surr: 1,2-Dichloroethane-d4	50.6	µg/L	SW8260D			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	47.1	µg/L	SW8260D			50.00		94.2	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260D			50.00		98.3	78 - 132				
Surr: Toluene-d8	47.7	µg/L	SW8260D			50.00		95.5	81 - 123				

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Kyle F. Gross
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MBLK

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: MB VOC-2 050721A Date Analyzed: 05/07/2021 712h													
Test Code: 8260D-W-DEN100													
2-Butanone	< 20.0	µg/L	SW8260D	1.22	20.0								
Acetone	< 20.0	µg/L	SW8260D	2.76	20.0								
Benzene	< 1.00	µg/L	SW8260D	0.147	1.00								
Carbon tetrachloride	< 1.00	µg/L	SW8260D	0.785	1.00								
Chloroform	< 1.00	µg/L	SW8260D	0.360	1.00								
Chloromethane	< 1.00	µg/L	SW8260D	0.682	1.00								
Methylene chloride	< 1.00	µg/L	SW8260D	0.451	1.00								
Naphthalene	< 1.00	µg/L	SW8260D	0.730	1.00								
Tetrahydrofuran	< 1.00	µg/L	SW8260D	0.436	1.00								
Toluene	< 1.00	µg/L	SW8260D	0.277	1.00								
Xylenes, Total	< 1.00	µg/L	SW8260D	0.746	1.00								
Surr: 1,2-Dichloroethane-d4	52.3	µg/L	SW8260D			50.00		105	80 - 136				
Surr: 4-Bromofluorobenzene	49.2	µg/L	SW8260D			50.00		98.4	85 - 121				
Surr: Dibromofluoromethane	50.2	µg/L	SW8260D			50.00		100	78 - 132				
Surr: Toluene-d8	48.9	µg/L	SW8260D			50.00		97.8	81 - 123				

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3440 South 700 West
Salt Lake City, UT 84119
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e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MS

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2105163-001AMS Date Analyzed: 05/07/2021 831h													
Test Code: 8260D-W-DEN100													
2-Butanone	22.9	µg/L	SW8260D	1.22	20.0	20.00	0	114	69 - 236				
Acetone	23.1	µg/L	SW8260D	2.76	20.0	20.00	0	116	36 - 198				
Benzene	26.5	µg/L	SW8260D	0.147	1.00	20.00	0	133	78 - 125				1
Carbon tetrachloride	26.7	µg/L	SW8260D	0.785	1.00	20.00	0	134	66 - 143				
Chloroform	24.5	µg/L	SW8260D	0.360	1.00	20.00	0	123	74 - 120				1
Chloromethane	15.4	µg/L	SW8260D	0.682	1.00	20.00	0	77.2	30 - 149				
Methylene chloride	27.1	µg/L	SW8260D	0.451	1.00	20.00	0	136	65 - 154				
Naphthalene	20.7	µg/L	SW8260D	0.730	1.00	20.00	0	103	55 - 128				
Tetrahydrofuran	24.7	µg/L	SW8260D	0.436	1.00	20.00	0	123	59 - 135				
Toluene	25.3	µg/L	SW8260D	0.277	1.00	20.00	0	126	69 - 129				
Xylenes, Total	75.7	µg/L	SW8260D	0.746	1.00	60.00	0	126	66 - 124				1
Surr: 1,2-Dichloroethane-d4	50.6	µg/L	SW8260D			50.00		101	80 - 136				
Surr: 4-Bromofluorobenzene	47.4	µg/L	SW8260D			50.00		94.9	85 - 121				
Surr: Dibromofluoromethane	49.2	µg/L	SW8260D			50.00		98.5	78 - 132				
Surr: Toluene-d8	47.4	µg/L	SW8260D			50.00		94.9	81 - 123				

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

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3440 South 700 West
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QC SUMMARY REPORT

Client: Energy Fuels Resources, Inc.
Lab Set ID: 2105163
Project: Seeps & Springs 2021

Contact: Tanner Holliday
Dept: MSVOA
QC Type: MSD

Analyte	Result	Units	Method	MDL	Reporting Limit	Amount Spiked	Spike Ref. Amount	%REC	Limits	RPD Ref. Amt	% RPD	RPD Limit	Qual
Lab Sample ID: 2105163-001AMSD Date Analyzed: 05/07/2021 850h													
Test Code: 8260D-W-DEN100													
2-Butanone	22.9	µg/L	SW8260D	1.22	20.0	20.00	0	114	69 - 236	22.9	0.175	35	
Acetone	23.8	µg/L	SW8260D	2.76	20.0	20.00	0	119	36 - 198	23.1	2.98	35	
Benzene	24.1	µg/L	SW8260D	0.147	1.00	20.00	0	121	78 - 125	26.5	9.44	35	
Carbon tetrachloride	24.6	µg/L	SW8260D	0.785	1.00	20.00	0	123	66 - 143	26.7	8.19	35	
Chloroform	22.4	µg/L	SW8260D	0.360	1.00	20.00	0	112	74 - 120	24.5	9.08	35	
Chloromethane	19.0	µg/L	SW8260D	0.682	1.00	20.00	0	95.2	30 - 149	15.5	20.8	35	
Methylene chloride	24.9	µg/L	SW8260D	0.451	1.00	20.00	0	125	65 - 154	27.1	8.46	35	
Naphthalene	17.9	µg/L	SW8260D	0.730	1.00	20.00	0	89.5	55 - 128	20.7	14.4	35	
Tetrahydrofuran	23.8	µg/L	SW8260D	0.436	1.00	20.00	0	119	59 - 135	24.7	3.84	35	
Toluene	23.4	µg/L	SW8260D	0.277	1.00	20.00	0	117	69 - 129	25.3	7.81	35	
Xylenes, Total	69.3	µg/L	SW8260D	0.746	1.00	60.00	0	116	66 - 124	75.7	8.85	35	
Surr: 1,2-Dichloroethane-d4	49.2	µg/L	SW8260D			50.00		98.5	80 - 136				
Surr: 4-Bromofluorobenzene	46.6	µg/L	SW8260D			50.00		93.2	85 - 121				
Surr: Dibromofluoromethane	47.5	µg/L	SW8260D			50.00		95.0	78 - 132				
Surr: Toluene-d8	46.4	µg/L	SW8260D			50.00		92.8	81 - 123				

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Rpt Emailed: UL
Denison

WORK ORDER Summary

Work Order: **2105163**

Client: Energy Fuels Resources, Inc. Due Date: 5/20/2021

Client ID: ENE300 **Contact:** Tanner Holliday

Project: **Seeps & Springs 2021** **QC Level:** III WO Type: Project

Comments: QC 3 (no chromatograms). EDD-Denison. Email Group; (USE PROJECT for special DLs). Do not use "*R_" samples as MS/MSD.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2105163-001A	**Entrance Spring**	5/4/2021 0800h	5/6/2021 1500h	**8260D-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				
2105163-001B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
2105163-001C				**TDS-W-2540C**			df - tds	
				1 SEL Analytes: TDS				
2105163-001D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2105163-001E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
2105163-002A	**Ruin Spring**	5/4/2021 0840h	5/6/2021 1500h	**8260D-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				
2105163-002B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
2105163-002C				**TDS-W-2540C**			df - tds	
				1 SEL Analytes: TDS				

Printed: 05/06/21 15:42 LABORATORY CHECK: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ LUO ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **2105163**

Client: Energy Fuels Resources, Inc. Due Date: 5/20/2021

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2105163-002D	**Ruin Spring**	5/4/2021 0840h	5/6/2021 1500h	**NH3-W-350.1**	Aqueous		df - no2/no3 & nh3	1
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2105163-002E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
2105163-003A	**Cottonwood Seep**	5/4/2021 0940h	5/6/2021 1500h	**8260D-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				
2105163-003B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
2105163-003C				**TDS-W-2540C**			df - tds	
				1 SEL Analytes: TDS				
2105163-003D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2105163-003E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				

WORK ORDER Summary

Work Order: **2105163**

Client: Energy Fuels Resources, Inc. Due Date: 5/20/2021

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2105163-003E	**Cottonwood Seep**	5/4/2021 0940h	5/6/2021 1500h	**HG-DW-DIS-PR**	Aqueous		df-met	1
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
2105163-004A	**Westwater Seep**	5/4/2021 1015h	5/6/2021 1500h	**8260D-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				
2105163-004B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
2105163-004C				**TDS-W-2540C**			df - tds	
				1 SEL Analytes: TDS				
2105163-004D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				
				NH3-W-PR			df - no2/no3 & nh3	
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2105163-004E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
2105163-005A	**Back Spring**	5/4/2021 0940h	5/6/2021 1500h	**8260D-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				
2105163-005B				**300.0-W**			df - wc	1
				3 SEL Analytes: CL F SO4				
				ALK-W-2320B-LL			df - wc	
				2 SEL Analytes: ALKB ALKC				
2105163-005C				**TDS-W-2540C**			df - tds	
				1 SEL Analytes: TDS				
2105163-005D				**NH3-W-350.1**			df - no2/no3 & nh3	
				1 SEL Analytes: NH3N				

WORK ORDER Summary

Work Order: **2105163**

Client: Energy Fuels Resources, Inc. Due Date: 5/20/2021

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
2105163-005D	**Back Spring**	5/4/2021 0940h	5/6/2021 1500h	**NH3-W-PR**	Aqueous		df - no2/no3 & nh3	1
				NO2/NO3-W-353.2			df - no2/no3 & nh3	
				1 SEL Analytes: NO3NO2N				
2105163-005E				**200.7-DIS**			df-met	
				5 SEL Analytes: CA MG K NA V				
				200.7-DIS-PR			df-met	
				200.8-DIS			df-met	
				17 SEL Analytes: AS BE CD CR CO CU FE PB MN MO NI SE AG TL SN U ZN				
				200.8-DIS-PR			df-met	
				HG-DW-DIS-245.1			df-met	
				1 SEL Analytes: HG				
				HG-DW-DIS-PR			df-met	
				IONBALANCE			df-met	
				5 SEL Analytes: BALANCE Anions Cations TDS-Balance TDS-Calc				
2105163-006A	**Trip Blank**	5/4/2021 0800h	5/6/2021 1500h	**8260D-W-DEN100**	Aqueous		VOCFridge	3
				Test Group: 8260D-W-DEN100; # of Analytes: 11 / # of Surr: 4				

American West
Analytical Laboratories
463 W. 3600 S. Salt Lake City, UT 84115
Phone # (801) 263-8686 Toll Free # (888) 263-8686
Fax # (801) 263-8687 Email awal@awal-labs.com
www.awal-labs.com

CHAIN OF CUSTODY

2105163
AWAL Lab Sample Set #

Page 1 of 1

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.

QC Level: 3

Turn Around Time: Standard

Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due.

Due Date:

Client: **Energy Fuels Resources, Inc.**
Address: **6425 S. Hwy. 191**
Blanding, UT 84511
Contact: **Tanner Holliday**
Phone #: **(435) 678-2221** Cell #:
Email: **tholliday@energyfuels.com; KWeinel@energyfuels.com**
Project Name: **Seeps and Springs 2021**
Project #:
PO #:
Sampler Name: **Tanner Holliday**

X Include EDD: [redacted]
EXCEL
X Field Filtered For:
Dissolved Metals

For Compliance With:
☐ NELAP
☐ RCRA
☐ CWA
☐ SDWA
☐ ELAP / A2LA
☐ NLLAP
☐ Non-Compliance
☐ Other:

	Sample ID:	Date Sampled	Time Sampled	# of Containers	Sample Matrix	NO2/NO3 (353.2)	NH3 (4500G or 350.1)	Fl, Cl, SO4 (4500 or 300.0)	TDS (2540C)	Carb/Bicarb (2320B)	Dissolved Metals (200.7/200.8/245.1)	As, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo,	Ni, Se, Ag, Tl, Sn, U, V, Zn, Na, K, Mg, Ca	Ion Balance	VOCs (8260C)	Known Hazards & Sample Comments
1	**Entrance Spring**	**5/4/2021**	**800**	7	W	x	x	x	x	x	x	x	x	x	x	
2	**Ruin Spring**	**5/4/2021**	**840**	7	W	x	x	x	x	x	x	x	x	x	x	
3	**Cottonwood Seep**	**5/4/2021**	**940**	7	W	x	x	x	x	x	x	x	x	x	x	
4	**Westwater Seep**	**5/4/2021**	**1015**	7	W	x	x	x	x	x	x	x	x	x	x	
5	**Back Spring**	**5/4/2021**	**940**	7	W	x	x	x	x	x	x	x	x	x	x	
6	**Trip Blank**	**5/4/2021**	**800**	3	W										x	
7																
8																
9																
10																
11																
12																

Laboratory Use Only

Samples Were: UPS
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 1.4 °C
4 Received Broken/Leaking (Improperly Sealed) Y (N)
5 Properly Preserved (Y) N
Checked at bench Y N
6 Received Within Holding Times (Y) N

COC Tape Was:
1 Present on Outer Package (Y) N NA
2 Unbroken on Outer Package (Y) N NA
3 Present on Sample Y N (NA)
4 Unbroken on Sample Y N (NA)

Discrepancies Between Sample Labels and COC Record? Y (N)

Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name: Tanner Holliday	Time: 1100	Print Name:	Time:
Relinquished by: Signature	Date:	Received by: Signature	Date: 5/6/21
Print Name:	Time:	Print Name: Elenna Haynes	Time: 1500
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.

Please ignore any numbers on any bottle discriptions. Thanks.

Lab Set ID: 2105163

pH Lot #: 6612

Preservation Check Sheet

Sample Set Extension and pH

Analysis	Preservative	1	2	3	4	5												
Ammonia	pH <2 H_2SO_4	Yes	Yes	Yes	Yes	Yes												
COD	pH <2 H_2SO_4																	
Cyanide	pH >10 NaOH																	
Metals	pH <2 HNO_3	Yes	Yes	Yes	Yes	Yes												
NO_2/NO_3	pH <2 H_2SO_4	Yes	Yes	Yes	Yes	Yes												
O & G	pH <2 HCL																	
Phenols	pH <2 H_2SO_4																	
Sulfide	pH >9 NaOH, ZnAC																	
TKN	pH <2 H_2SO_4																	
T PO_4	pH <2 H_2SO_4																	
Cr VI+	pH >9 $(NH_4)_2SO_4$																	

Procedure:

1) Pour a small amount of sample in the sample lid
2) Pour sample from lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved, properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation

* The sample required additional preservative upon receipt.

\+ The sample was received unpreserved.

▲ The sample was received unpreserved and therefore preserved upon receipt.

\# The sample pH was unadjustable to a pH < 2 due to the sample matrix.

• The sample pH was unadjustable to a pH > ____ due to the sample matrix interference.

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

June 07, 2021

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

Re: Analytical for Seeps and Springs 2021
Work Order: 543955

Dear Mr. Palmer:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 10, 2021. 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

Julie Robinson
Project Manager

Purchase Order: DW16138
Enclosures

Energy Fuels Resources (USA), Inc.
Analytical for
SDG: 543955

Receipt Narrative
for
Energy Fuels Resources (USA), Inc.
SDG: 543955

June 07, 2021

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 10, 2021 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
543955001	Entrance Spring
543955002	Ruin Spring
543955003	Cottonwood Seep
543955004	Westwater Seep
543955005	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

Julie Robinson
Project Manager

543955

Sheet 1 of 1

ENERGY FUELS RESOURCES

CHAIN OF CUSTODY

Samples Shipped to: GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
(843) 556 8171

Contact: Tanner Holliday
Ph: 435 678 2221
tholliday@energyfuels.com

Chain of Custody/Sampling Analysis Request

Project	Samplers Name	Samplers Signature
Seeps and Springs 2021	Tanner Holliday	Tanner Holliday

Sample ID	Date Collected	Time Collected	Laboratory Analysis Requested
Entrance Spring	5/4/2021	800	Gross Alpha
Ruin Spring	5/4/2021	840	Gross Alpha
Cottonwood Seep	5/4/2021	940	Gross Alpha
Westwater Seep	5/4/2021	1015	Gross Alpha
Back Spring	5/4/2021	940	Gross Alpha

Comments: Please send report to Kathy Weinel at kweinel@energyfuels.com

Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time
Tanner Holliday	5/5/2021 1100		5-10-21 955 0855
Relinquished By:(Signature)	Date/Time	Received By:(Signature)	Date/Time

JR

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: DNMT	SDG/AR/COC/Work Order: 543955
Received By: BE	Date Received: 05-10-21
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 1Z 187 Y4Y 12 9291 4309

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?		X	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?		X	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		X	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM /mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		X	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		X	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?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*		X		Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 23
4	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: IR2-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	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?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			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?	X			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	X			
13	COC form is properly signed in relinquished/received sections?	X			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials NRG Date 5/11/21 Page 1 of 1

GL-CHL-SR-001 Rev 7

SDG: 543955

GEL Laboratories LLC – Login Review Report

GEL Work Order/SDG: 543955 Seeps and Springs 2021
Client SDG: 543955
Project Manager: Julie Robinson
Project Name: DNMI00106 Analytical for
Purchase Order: DW16138
Package Level: LEVEL3
EDD Format: EIM_DNMI

Work Order Due Date: 08-JUN-21
Package Due Date: 06-JUN-21
EDD Due Date: 08-JUN-21
Due Date: 08-JUN-21
NG1

Collector: C
Prelogin #: 20190486669
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
543955001	Entrance Spring		04-MAY-21 08:00	10-MAY-21 08:55	-2	1	GROUND WATER		20		1		
543955002	Ruin Spring		04-MAY-21 08:40	10-MAY-21 08:55	-2	1	GROUND WATER		20		1		
543955003	Cottonwood Seep		04-MAY-21 09:40	10-MAY-21 08:55	-2	1	GROUND WATER		20		1		
543955004	Westwater Seep		04-MAY-21 10:15	10-MAY-21 08:55	-2	1	GROUND WATER		20		1		
543955005	Back Spring		04-MAY-21 09:40	10-MAY-21 08:55	-2	1	GROUND WATER		20		1		

Client Sample ID	Status	Tests/Methods	Product Reference	Fax Date	PM Comments	Aux Data	Receive Codes
-001 Entrance Spring	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-002 Ruin Spring	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-003 Cottonwood Seep	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-004 Westwater Seep	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				
-005 Back Spring	REVW	GFPC, Total Alpha Radium, Liquid	Gross Alpha				

Product: GFCTORAL **Workdef ID:** 1461303 **In Product Group?** No **Group Name:** **Group Reference:**
Method: EPA 903.0
Product Description: GFPC, Total Alpha Radium, Liquid
Samples: 001, 002, 003, 004, 005
Parmname Check: All parmnames scheduled properly
Path: Drinking Water (903.0 or 9315)
Product Reference: Gross Alpha
Moisture Correction: "As Received"

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

	Action	Product Name	Description	Samples
Contingent Tests				

Login Requirements:

Requirement	Include?	Comments

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

List of current GEL Certifications as of 07 June 2021

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	T104704235-21-19
Utah NELAP	SC000122021-35
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Radiochemistry
Technical Case Narrative
Energy Fuels Resources
SDG #: 543955

Product: **GFPC, Total Alpha Radium, Liquid**
Analytical Method: EPA 903.0
Analytical Procedure: GL-RAD-A-044 REV# 10
Analytical Batch: 2128466

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

GEL Sample ID#	Client Sample Identification
543955001	Entrance Spring
543955002	Ruin Spring
543955003	Cottonwood Seep
543955004	Westwater Seep
543955005	Back Spring
1204822376	Method Blank (MB)
1204822377	542989001(NonSDG) Sample Duplicate (DUP)
1204822378	542989001(NonSDG) Matrix Spike (MS)
1204822379	542989001(NonSDG) Matrix Spike Duplicate (MSD)
1204822380	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, 1204822378 (Non SDG 542989001MS) and 1204822379 (Non SDG 542989001MSD), 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: 543955 GEL Work Order: 543955

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: Kenshalla Oston **Name: Kenshalla Oston**

Date: 02 JUN 2021 **Title: Analyst I**

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

QC Summary

Report Date: May 27, 2021

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

Workorder: **543955**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2128466										
QC1204822377 542989001 DUP										
Gross Radium Alpha	U	-0.113	U	0.0625	pCi/L	N/A		N/A	JXC9	05/26/21 13:1
	Uncertainty	+/-0.193		+/-0.192						
QC1204822380 LCS										
Gross Radium Alpha	559			536	pCi/L		95.9	(75%-125%)		05/26/21 13:1
	Uncertainty			+/-7.09						
QC1204822376 MB										
Gross Radium Alpha			U	-0.205	pCi/L					05/26/21 13:1
	Uncertainty			+/-0.113						
QC1204822378 542989001 MS										
Gross Radium Alpha	2300 U	-0.113		1840	pCi/L		80.1	(75%-125%)		05/26/21 13:1
	Uncertainty	+/-0.193		+/-26.1						
QC1204822379 542989001 MSD										
Gross Radium Alpha	2230 U	-0.113		1860	pCi/L	1.18	83.7	(0%-20%)		05/26/21 13:1
	Uncertainty	+/-0.193		+/-25.7						

Notes:

Counting Uncertainty is calculated at the 68% confidence level (1-sigma).
The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: 543955

Parmname	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 either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Tab 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
AWAL-2105163	1.4°C
GEL - 508151	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	E350.1
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	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 CO3, Bicarbonate as HCO3	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 CO3, Bicarbonate as HCO3	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)
2105163	5/4/2021	2-Butanone	ND
		Acetone	ND
		Benzene	ND
		Carbon tetrachloride	ND
		Chloroform	ND
		Chloromethane	ND
		Methylene chloride	ND
		Naphthalene	ND
		Tetrahydrofuran	ND
		Toluene	ND
		Xylenes, Total	ND

E-6 Duplicate Sample Relative Percent Difference

Major Ions (mg/l)	Cottonwood Spring	Back Spring (Duplicate of Cottonwood Spring)	RPD %
Carbonate	<1.00	<1.00	N/C
Bicarbonate	298	292	2.0
Calcium	108	113	4.5
Chloride	143	141	1.4
Fluoride	0.317	0.320	0.9
Magnesium	31.3	31.6	1.0
Nitrogen-Ammonia	<0.0500	<0.0500	N/C
Nitrogen-Nitrate	<0.100	<0.100	N/C
Potassium	7.4	7.44	0.5
Sodium	223	232	4.0
Sulfate	443	437	1.4
TDS	1110	1250	11.9
Metals (ug/l)			
Arsenic	<5.0	<5.0	N/C
Beryllium	<0.5	<0.5	N/C
Cadmium	<0.5	<0.5	N/C
Chromium	<25	<25	N/C
Cobalt	<10	<10	N/C
Copper	<10	<10	N/C
Iron	<30	<30	N/C
Lead	<1.0	<1.0	N/C
Manganese	<10	<10	N/C
Mercury	<0.5	<0.5	N/C
Molybdenum	<10	<10	N/C
Nickel	<20	<20	N/C
Selenium	<5	<5	N/C
Silver	<10	<10	N/C
Thallium	<0.5	<0.5	N/C
Tin	<100	<100	N/C
Uranium	10.6	10.4	1.9
Vanadium	<15	<15	N/C
Zinc	<10	<10	N/C
Radiologics (pCi/l)			
Gross Alpha	<1.00	<1.00	N/C
VOCS (ug/L)			
Acetone	<20.0	<20.0	N/C
Benzene	<1.00	<1.00	N/C
Carbon tetrachloride	<1.00	<1.00	N/C
Chloroform	<1.00	<1.00	N/C
Chloromethane	<1.00	<1.00	N/C
MEK	<20.0	<20.0	N/C
Methylene Chloride	<1.00	<1.00	N/C

E-6 Duplicate Sample Relative Percent Difference

Major Ions (mg/l)	Cottonwood Spring	Back Spring (Duplicate of Cottonwood Spring)	RPD %
Naphthalene	<1.00	<1.00	N/C
Tetrahydrofuran	<1.00	<1.00	N/C
Toluene	<1.00	<1.00	N/C
Xylenes	<1.00	<1.00	N/C

N/C = Not Calculated

Per the approved QAP, an RPD greater than 20% is acceptable if the reported results are less than 5 times the RL. These results are provided for information only.

* Duplicate checks reported for gross alpha minus RN and U are not %RPD. Calculated values are based on the formula in the approved GWDP and QAP.

RPD exceeds the QAP limit of 20%.

E-7 Radiologics Counting Error

Sample ID	Gross Alpha minus Rn & U	Gross Alpha minus Rn & U Precision (±)	Counting Error ≤ 20%	GWQS	Within GWQS
Cottonwood Spring	<1.0	0.202	N/A	15	N/A
Entrance Seep	<1.0	0.318	N/A	15	N/A
Back Spring (duplicate of Cottonwodd Spring)	<1.0	0.229	N/A	15	N/A
Ruin Spring	<1.0	0.256	N/A	15	N/A
Westwater Seep	<1.0	0.238	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
2105163	Entrance Spring	Mercury	112	116	85-115	2.94	20
2105163	Ruin Spring	Calcium*	NC	NC	70 - 130	NC	20
2105163	Cottonwood Seep	Sodium*	NC	NC	70 - 130	NC	20
2105163	Entrance Spring	Benzene	133	121	78-125	9.44	35
2105163	Entrance Spring	Chloroform	123	112	74-120	9.08	35
2105163	Entrance Spring	Xylenes, Total	126	116	66-124	8.85	35

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

Laboratory Duplicate % Recovery Comparison

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

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: Thursday, February 3, 2022 8:31 AM
To: Phillip Goble
Cc: 'Dean Henderson'; David Frydenlund; Garrin Palmer; Logan Shumway; Scott Bakken; Jordan App
Subject: Transmittal of CSV Files White Mesa Mill 2021 Annual Seeps and Springs Monitoring
Attachments: 543955.csv; 2105163-report-EDD.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 2021, in Comma Separated Value (CSV) format.

Please contact me at 303-389-4134 if you have any questions on this transmittal.

Yours Truly

Kathy Weinel

Energy Fuels Resources (USA) Inc.

Kathy Weinel
Quality Assurance Manager

t:303.389.4134 | c: | f:303.389.4125
KWeinel@energyfuels.com

225 Union Blvd., Suite 600
Lakewood, CO 80228

http://www.energyfuels.com